



ENVIRONMENTAL WORKS

## PHASE I ENVIRONMENTAL SITE ASSESSMENT

**Price Chopper Property  
2107 South 4th Street  
Leavenworth, Leavenworth County, Kansas**

**ACCEPTED INTO  
ADMINISTRATIVE  
RECORD FILE**



**Prepared For:**  
Associated Wholesale Grocers  
Kansas City, Kansas

**Not Approved or  
Reviewed by KDHE**

**Prepared By:**  
Environmental Works, Inc.  
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EWI Project # 9068

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## 1.0 EXECUTIVE SUMMARY

Environmental Works, Inc. (EWI) was retained by Associated Wholesale Grocers on July 19, 2019 to perform a Phase I Environmental Site Assessment (ESA) of the Price Chopper Property located at 2107 South 4th Street in Leavenworth, Leavenworth County, Kansas (hereinafter referred to as "subject property" or "Site"). This report may be relied upon/used by Associated Wholesale Grocers and Super Market Developers, Inc. The Phase I ESA was conducted in accordance with the American Society for Testing Materials International (ASTM) E 1527-13 Standard. The Vapor Encroachment Screening practices were conducted in accordance with ASTM E 2600-15. The purpose of the assessment is to identify recognized environmental conditions (RECs), controlled recognized environmental condition (CRECs), historical recognized environmental conditions (HRECs), vapor encroachment conditions (VECs), and potential environmental liabilities associated with the subject property.

The summary presented below is general in nature and should not be considered apart from the entire text of the report, with all the qualifications and considerations mentioned therein. Details of our evaluation are discussed throughout and in the appendices of this report.

The subject property is 4.0 acres of commercial land located in an area of commercial and residential development. The Site is developed with an approximately 50,000 square foot (ft<sup>2</sup>) commercial structure developed in approximately 1991 and currently occupied by a grocery store, Price Chopper, which includes a barber shop, pharmacy, bakery, florist, and deli. A vacant tenant space is present on the southwest corner. The remaining areas of the Site are improved with asphalt-paved parking lots and associated landscaping. The subject property is owned by Four D Company LLC.

### Historical Records Review Summary

According to historical documentation, the subject property was developed with various structures, likely residential, with railroad tracks intersecting the Site from north to south as early as 1910. The first available aerial photograph in 1947 indicates the Site was developed with various residential structures, railroad tracks, and Fivemile Creek (in the northeast corner). By 1966, the Site remains the same except for a portion of the east adjoining salvage yard present on the east portion of the Site. Exterior material storage associated with the north adjoining property is also present on the north portion of the Site.

The northeast corner of the Site was cleared for development and improved with storage trailers by 1970. In addition, it appears that Fivemile Creek was redirected to the east during this time. By 1975, the northeast corner was developed with a paved lot and vehicle storage associated with adjoining properties. The remaining area of the Site consisted of residential and commercial structures along the west portion (including a furniture store in 1989) and railroad tracks/access roads through the central portion of the Site.

Railroad tracks and former structures were demolished by 1991 when the current Price Chopper structure with tenant spaces was developed on the east portion of the Site with paved parking to the

west. Due to limited interviews and historical information, EWI also could not confirm all uses of the Site, including the vacant tenant space located on the southwest corner of the Price Chopper structure.

The adjoining properties have historically consisted of a landfill to the north/northeast prior to 1970, auto salvage adjoining to the east and various automotive repair facilities to the northeast (City of Leavenworth Garage/Leavenworth Service Center) and south across Marion Street.

EWI requested documentation for the Site and surrounding properties from the City of Leavenworth. The City provided a copy of a Phase II Environmental Site Assessment dated December 1989 conducted for the Site prior to construction of the current Price Chopper. The Phase II ESA was performed in response to a previous Phase I ESA dated October 27, 1989 which identified potential off-site contaminant sources to the "north, east and southeast". Adjacent properties to the north were identified as Great Western Manufacturing, GNB Batteries and the Leavenworth Service Center (also identified as the City Garage)/former landfill and properties to the east and southeast were identified as auto salvage yards with automotive repair shops to the south. EWI was not provided a copy of the previous Phase I ESA for review.

At the time of the Phase II investigation, two residences, a furniture store and small sheds were located on the subject property. The remaining area consisted of undeveloped land with an unimproved road (Third Street) and railroad line intersecting the Site.

Three (3) discrete shallow soil samples (B-1, B-2 and B-3) were collected from 2 feet below ground surface (bgs) along the east property line and two (2) discrete soil samples (MW-3 and MW-4) were collected from 3 feet bgs near the northeast corner of the Site in order to identify "possible lead and/or petroleum contamination" associated with former underground storage tanks (USTs) on the adjoining Leavenworth Service Center property that previously leaked "an undetermined amount of gasoline" and the adjoining auto salvage yard. Concentrations of lead were detected at approximately 20 parts per million (ppm) in each of the samples which was reportedly within typical background levels for the area. The samples at MW-3 and MW-4 identified total petroleum hydrocarbons (TPH) at concentrations of 140 ppm and 260 ppm respectively.

Six (6) monitoring wells were also installed at the subject property during the Phase II ESA. Three wells were installed along the northern property boundary (MW-1, MW-2 and MW-3), two wells along the eastern property boundary (MW-4 and MW-5) and one well (MW-6) in the southwest corner. No detectable concentrations of benzene, toluene, xylene or total lead were identified in groundwater at MW-1, MW-2, MW-3 or MW-5. No volatile or semi-volatile compounds were detected above 5 parts per billion (ppb) at MW-3, MW-5 or MW-6. Analytical results at MW-4 (along the northeast portion of the Site) identified elevated concentrations of metals in groundwater that were above National Drinking Water Standards for the time. In addition, a concentration of 18 ppb was detected for an unidentified semi-volatile compound in groundwater at MW-4. According to the Phase II narrative, the groundwater impacts at MW-4 are potentially attributed to the former landfill and/or auto salvage facility to the east.

Based on a review of results from the Phase II ESA, petroleum impacts were detected in shallow soil and concentrations of metals and semi-volatile compounds were detected in groundwater along the northeast portion of the Site. These impacts were potentially attributed to nearby industrial uses including the former landfill, auto salvage and Leavenworth Service Center (also identified as the City Garage).

A Subsurface Exploration Report was also conducted for the proposed Price Chopper at Fourth & Marion Streets in October 1989. Miscellaneous rubble fill including gravel, brick, concrete, wood, metal and cinders were identified in borings advanced in the area of the proposed Price Chopper (north/northeast portion of the Site).

### **Regulated Sites Summary**

The Site was not identified in the regulatory database searched by Environmental Data Resources, Inc. (EDR). The following facilities were identified within the approximate minimum search distance with potential for impact to the subject property:

A former landfill (City of Leavenworth Old City Landfill, City of Leavenworth 2nd & Limit Dump) was identified in the CITY DUMPS and SOLID WASTE FACILITY (SWF) databases and historically located north/northeast and cross-gradient to down-gradient of the Site. EWI interviewed Mr. Mike Gordon and Mr. Mike Hooper from the Public Works Department at the City of Leavenworth regarding their knowledge of the former landfill. Mr. Gordon and Mr. Hooper stated that to their knowledge the landfill was previously located north/northeast of the Site and was closed by approximately 1970 when the City Garage was developed in its place. Mr. Gordon and Mr. Hooper could not recall any sampling activities or investigation conducted at the landfill; although they could recall evidence of waste observed during construction activities onsite and the surrounding area. EWI submitted a records request to Kansas Department of Health and Environment (KDHE) for additional information on the former adjoining landfill. KDHE provided an inspection form for the landfill dated August 15, 2018. According to the inspection, the former landfill was in acceptable condition with no visible wastes. No violations were found. No information was available regarding sampling or investigation of the former landfill. Based on close proximity and the landfill's operation prior to environmental regulation, the facility is considered a REC and VEC to the Site.

Leavenworth, City of, Garage/City Garage/Leavenworth Municipal Garage Area was identified in the Superfund Enterprise Management System - Archive (SEMS-ARCHIVE), leaking underground storage tank (LUST), UST, Resource Conservation Recovery Act - Non Generator/No Longer Listed (RCRA-NONGEN/NLR) databases and was previously located northeast and cross-gradient to down-gradient of the Site at South 3rd and Marion Street. EWI requested documentation from KDHE and the City of Leavenworth regarding former operations and investigations at the facility. A LUST incident was reported for the facility in February 1991 in response to the removal of a 6,000-gallon fuel oil UST. A LUST incident was also reported in November 1992 when a 300-gallon waste oil UST and

associated lines were removed from the facility. KDHE provided Buried Tank Leak Assessments (BTLAs) for both incidents and no leaking or contamination surrounding the USTs were reported; however, no sampling was conducted to confirm or deny impact to the subsurface. These incidents are closed. No information was provided regarding location of the former USTs. The facility has been listed as a non-generator since 2003 but was historically a small-quantity generator (SQG) in 1987 for benzene, tetrachloroethylene, spent non-halogenated solvents and ignitable waste. EWI reviewed a compliance inspection conducted at the facility in September 1991. The inspection identified employees disposing of paint waste and paint contaminated thinner by dumping the material on the ground north of the sign shop. Visibly contaminated soil was observed in this area. Evidence of waste paint and paint thinner was also observed being dumped into a storm drain near the sign shop which discharges to the east adjoining Fivemile Creek. In December 1991, soil samples were collected from 6 inches bgs and 18-24 inches bgs from six locations north of the sign shop. Based on a sampling map provided by KDHE, EWI determined that the sign shop was located approximately 135 feet northeast of the Site. The samples were composited into two samples (one 6 inch and one 18-24 inch sample) and analyzed for RCRA 8 metals, toxicity characteristic leaching procedure (TCLP) Organic Compounds and volatile organic compounds (VOCs). 1,1,2,2-tetrachloroethane, chlorobenzene and xylenes were detected at 19,000 parts per billion (ppb), 12 ppb and 28 ppb respectively in the composite sample collected from 6 inches bgs. No detections were identified in the sample from 18-24 inches bgs. KDHE determined that although contamination was present at the facility, it did not meet the definition of hazardous waste; therefore, areas of visible contamination was recommended to be removed and disposed. As of April 1992, approximately 60 cubic yards of contaminated soil was reportedly removed from the adjoining property and disposed of at the Leavenworth Landfill. No confirmation sampling appears to have been conducted following the soil removal from the facility. In addition, groundwater was not evaluated during the assessment. An additional complaint was issued for the facility in 1991 which noted oil contamination in the area of the vehicle maintenance garage. Based on a review of aerial photographs, the vehicle maintenance garage likely adjoined the Site to the northeast from at least 1970 to 1991. Vehicle storage is also depicted on the east portion of the Site in the 1985 aerial. Based on close proximity and a history of non-compliance, the City Garage formerly located on the northeast of the Site is considered a REC and VEC.

EWI also reviewed the following documentation for the Leavenworth Animal Control facility located northeast of the Site:

The City of Leavenworth provided a Field Report dated July 8, 2013 associated with the construction of the Leavenworth Animal Control (developed on the previous Leavenworth City Garage property). The report indicates that "tanks" were removed from the facility on July 2, 2013. Two of the tanks were reportedly "relocated to the northeast of the site", still on the City of Leavenworth's property. During this relocation, tank contents were reportedly spilled on the ground surface. The Field Report includes a photograph (on Page 4) that identifies "spillage" from the tank removal. The spillage appears to be northeast of the Price Chopper structure located on the subject property. A Field Report dated August 14, 2013 indicates that the tank spillage had not been cleaned up to date. In addition, tank spillage had



previously been observed on standing water "north of the Price Chopper parking lot". The tanks removed during the construction of the Leavenworth Animal Control are potentially attributed to the former City Garage.

Great Western Manufacturing Co. adjoins the Site to the north and is located cross-gradient of the Site at 2017 South 4th Street and was listed as a SQG in 1993, 2000, 2003 and from 2005-2018. The facility was also listed as a large quantity generator (LQG) in 1994. The facility generates ignitable waste, chromium, benzene, methyl ethyl ketone, tetrachloroethylene, trichloroethylene and spent non-halogenated solvents. No violations have been reported. According to documentation provided, the facility manufacturers sieves and sifters used in the flour industry. KDHE provided documentation associated with a Hazardous Waste Compliance Assistance Visit (CAV) in 2012. Various deficiencies were cited during the visit; however, these do not appear to have impact on the subject property. EWI also reviewed historical inspections dated 1987 which indicate that waste paint and spent paint booth filters were historically being disposed of in the dumpster. At the time of the inspection, Safety-Kleen was disposing of waste solvent associated with onsite parts washing; however, correspondence states that the facility previously dumped waste solvent on the ground or in the trash. The timeframe associated with the practice of improper solvent dumping is unknown. Based on the close proximity of the facility and history of solvent dumping, the facility has potential to impact the subject property and is considered a REC and VEC.

Casey's General Store - #2826, located 100 feet west and up-gradient of the Site at 2100 South 4th Street currently utilizes a 20,000-gallon gasoline UST, a 12,000-gallon gasoline UST and a 8,000-gallon diesel UST installed in 2009. EWI submitted a request for additional information from KDHE and received documentation including registration and installation of the USTs. In addition, EWI reviewed correspondence dated June 29, 2010, August 3, 2010, July 12, 2011 in which KDHE noted that they had not received satisfactory inventory control records and/or monthly monitoring reports for release detection. Additional correspondence dated May 13, 2014, June 25, 2014, March 21, 2018, March 19, 2019, April 29, 2019 and May 20, 2019 indicate missing function tests for onsite USTs. EWI also reviewed UST inspections conducted by KDHE on November 4, 2011, March 28, 2013, April 18, 2017 and April 1, 2019 which indicated excess fluid in spill bucket. No other violations noted except for minor repairs. Although the facility has a history of missing compliance records, no releases or significant violations have been identified. Based on lack of identified releases, the facility does not pose a REC to the Site.

## **Site Reconnaissance Summary**

The Site is currently occupied by a Price Chopper grocery store.

EWI observed three (3) underground grease traps present in the kitchen areas at the Site. According to Site Manager, Mr. Rory Knight, these grease traps are maintained by a third party on a regular basis. No issues were noted with the grease traps.

EWI observed a hydraulic box compactor in the back storage/stock area in the southeast corner of the structure. According to Mr. Knight, the machinery is maintained by a third party and he was not aware of any leaks or issues with the compactor. EWI also observed a trash compactor on the north side of the structure with oil staining on the equipment and asphalt beneath the compactor. The staining appeared to be minimal and no cracks in the asphalt or drains were observed in the area; on this basis, the staining is considered a de minimis condition.

EWI observed pole-mounted transformers throughout the Site. Three (3) pole-mounted transformers were observed on the northern property boundary, one (1) pole-mounted transformer was observed in the southwest corner of the Site, and four (4) pole-mounted transformers were observed south of the Price Chopper structure. No decals were noted indicating PCB contents. No evidence of release was identified on the casings or ground beneath. In addition, EWI observed three (3) transformers on a platform east of the structure. EWI observed minor staining on the platform beneath the transformers. No evidence of release was observed on the ground beneath.

A receptacle labeled "used cooking oil" was located in the back storage/stock area in the southeast corner of the structure. According to Mr. Knight, the used cooking oil is picked up by a third party contractor on a regular basis.

During the Site reconnaissance, EWI observed an automotive salvage yard east of the Site. According to historical documentation, the automotive salvage yard, identified in the city directories as Lakes Auto Salvage, has adjoined the Site to the east since as early as 1963. Vehicle storage is also visible onsite in the 1966 and 1985 aerial photographs. Based on close proximity in addition to potential operation onsite, the automotive salvage yard is a REC and VEC to the Site.

## **Conclusion and Opinions**

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM E 1527-13 of the Price Chopper Property located at 2107 South 4th Street in Leavenworth, Leavenworth County, Kansas (the subject property or Site). The Vapor Encroachment Screening practices were conducted in accordance with ASTM E 2600-15. Any exceptions to, or deletions from, this standard are described in Section 10.0 of this report.

The following RECs and VECs were identified for the subject property during this assessment:

1. An automotive salvage yard, identified in the city directories as Lakes Auto Salvage, has adjoined the Site to the east since as early as 1963. Vehicle storage is also visible onsite in the 1966 and 1985 aerial photographs. Based on the close proximity in addition to potential operation onsite, the automotive salvage yard is considered a REC and VEC to the Site.

2. A former landfill (City of Leavenworth Old City Landfill, City of Leavenworth 2nd & Limit Dump) was previously located north/northeast of the Site and was closed by approximately 1970. No information was available regarding sampling or investigation of the former landfill. Based on close proximity and the landfill's operation prior to environmental regulation, the facility is considered a REC and VEC to the Site.

3. Leavenworth City Garage was previously located northeast of the Site at South 3rd and Marion Street. Various USTs have been removed from the facility with no information regarding location or sampling to confirm or deny impact to the subsurface. In addition, a history of non-compliance has been identified at the facility including visible oil contamination and disposing of paint waste and paint contaminated thinner on the ground and into a storm drain which discharges to the east adjoining Fivemile Creek. Although visibly contaminated soil was reportedly removed and disposed, no confirmation sampling appears to have been conducted following the removal of the contaminated soil. In addition, groundwater was not evaluated during the assessment. The area is currently occupied by Leavenworth Animal Control. A Field Report dated July 8, 2013 provided by the City of Leavenworth indicates that "tanks" were removed from the facility on July 2, 2013. Two of the tanks were reportedly "relocated to the northeast of the site", still on the City of Leavenworth's property. During this relocation, tank contents were reportedly spilled on the ground surface. Tank spillage had previously been observed on standing water "north of the Price Chopper parking lot". The tanks removed during the construction of the Leavenworth Animal Control are potentially attributed to the former City Garage. Based on close proximity and a history of non-compliance, the City Garage poses a REC and VEC to the Site.

4. Great Western Manufacturing Co. adjoins the Site to the north at 2017 South 4th Street. A historical inspection dated 1987 indicates that waste paint and spent paint booth filters were historically being disposed of in the dumpster at the facility. The facility also previously dumped waste solvent on the ground or in the trash. The timeframe associated with the practice of improper solvent dumping is unknown. Based on the close proximity of the facility and history of solvent dumping, the facility has potential to impact the subject property and is considered a REC and VEC.

Based on a review of results from the 1989 Phase II ESA, petroleum impacts were detected in shallow soil and concentrations of metals and semi-volatile compounds were detected in groundwater along the northeast portion of the Site. These impacts were potentially attributed to nearby industrial uses including the former landfill, auto salvage and Leavenworth Service Center (also identified as the City Garage). In our opinion, additional investigation is recommended to evaluate the Site for subsurface impacts as a result of the RECs and VECs identified during this Phase I ESA.

## 2.0 INTRODUCTION

### 2.1 Purpose

The purpose of the Phase I ESA is to perform an All Appropriate Inquiries (AAI) investigation of the Site in support of the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) liability ("Landowner Liability Protections," or "LLPs"). The goal of the investigation is to identify recognized environmental conditions (RECs), controlled recognized environmental condition (CRECs), historical recognized environmental conditions (HRECs), vapor encroachment conditions (VECs), and potential environmental liabilities associated with the subject property and its neighboring properties, in accordance with the ASTM E 1527-13, pursuant to AAI.

ASTM E 1527-13 defines a REC as "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: due to release to the environment; under conditions indicative of a release to the environment; or under conditions that pose a material threat of a future release to the environment." A material threat is "a physically observable or obvious threat which is reasonably likely to lead to a release that, in the opinion of the environmental professional, is threatening and might result in impact to public health or the environment." RECs do not include de minimis conditions, which are defined as "a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies."

ASTM E 1527-13 defines a CREC as "a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)." Note: For example, if a leaking underground storage tank (LUST) facility has been cleaned up to a commercial use standard, but does not meet unrestricted residential cleanup criteria, this would be considered a CREC. The "control" is represented by the restriction that the property use remains commercial. A condition considered by the environmental professional to be a CREC shall be listed in the findings section of the Phase I ESA report, and as a REC in the conclusions section of the Phase I ESA report. Note: A condition identified as a CREC does not imply that the environmental professional has evaluated or confirmed the adequacy, implementation, or continued effectiveness of the required control that has been, or is intended to be, implemented."

ASTM E 1527-13 defines an HREC as "a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use

restrictions, activity and use limitations, institutional controls, or engineering controls)." Before calling the past release an HREC, the environmental professional must determine whether the past release is a REC at the time the Phase I ESA is conducted (for example, if there has been a change in regulatory criteria). If the environmental professional considers the past release to be a REC at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a REC."

A VEC is the presence or likely presence of chemical of concern (COC) vapors in the sub-surface of the property caused by the release of vapors from contaminated soil or groundwater either on or near the subject property. Evaluation of the potential presence of COC vapors and determining if a VEC exists on the subject property is necessary to meet the United States Environmental Protection Agency (US EPA) requirements for AAI under CERCLA. EWI conducted a Vapor Encroachment Screening (VES) in general accordance with ASTM E2600-15 Standard Guide for Vapor Encroachment Screening on a Property Involved in Real Estate Transactions.

If a VEC is identified, the environmental professional must determine whether the VEC represents evidence of a REC on the subject property under the context of the ASTM E 1527-13 Phase I ESA Standard Practice. The environmental professional will identify the VEC as a REC where the potential for vapor migration into structures is considered likely, or where the contaminant concentrations in the soil, groundwater, or soil vapors on the subject property are significant and likely to result in enforcement against on-site or off-site responsible parties.

## **2.2 Scope of Work**

This Phase I ESA was conducted consistent with the procedures as provided under Innocent Landowners, Standards for Conducting AAI Rule 40 CFR 312 and in accordance with the ASTM E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, which may be used to comply with the Rule's requirements.

A visual inspection of the subject property was conducted to identify any evidence of historical and current uses that may contribute to environmental risk for the Site. Interviews with local, state, and federal agencies are included in this report. Photographic documentation of the Site is also included in the report. Adjoining properties were observed from the subject site or public rights-of-way to identify any conditions or actions which may have an adverse environmental impact on the subject site. Historical research was performed for the subject property to identify past ownership and land use which may be relevant to identifying potential environmental risks associated with the Site. This final report was prepared to describe and summarize the activities performed at the Site and identify any potential RECs, CRECs, HRECs, VECs, or risks for the subject property. Findings and Opinions and Conclusions sections are included in this report.

Under ASTM E 1527-13, the client is responsible for providing information regarding title records, environmental liens; activity and/or land use limitations, a site diagram, site contact information,

information regarding environmentally-related reduction(s) for the value of the subject property, and the reason the Phase I ESA was performed.

The Scope of Work for this Phase I ESA is included as Appendix A to this report.

### **2.3 Significant Assumptions**

All information regarding the subject property obtained from interviews with the current and past owner(s) of the Site and/or their representatives, agency officials, potential buyers of the property, etc., is assumed to be accurate and complete.

### **2.4 Special Terms and Conditions**

All pertinent information obtained during this assessment is presented in this report. Conclusions and recommendations regarding the environmental condition of the subject property are based on information acquired from a facility site inspection, historical research of the subject property and its adjoining properties, regulatory agency file review, and interviews.

### **2.5 Limitations and Exceptions**

EWI has performed the services in a manner consistent with that level of care and skill ordinarily exercised by other members of our profession currently practicing in the same locality and under similar conditions, within the limitations of the ASTM E 1527-13 Standard and the AAI Rule established by the US EPA (40 CFR, Part 312) in accordance with an agreement between EWI and their Client. The VEC practices were conducted in general accordance with ASTM E 2600-15. The conclusions presented in this report are professional opinions, based solely upon visual observations of the Site and our interpretation of documents reviewed as described in this report. The conclusions are intended exclusively for the purpose outlined herein and at the site location, project, and timeframe indicated. This ESA did not include subsurface or other invasive assessments or other services not particularly identified and discussed herein. Unless specifically included in the scope of work, ASTM-defined non-scope issues and materials not currently deemed hazardous by the US EPA (asbestos containing materials, environmental regulatory compliance, radon, lead-based paint, lead in drinking water, industrial hygiene, health and safety, ecological resources, mold, endangered species or wetlands, etc.) are not included as part of the ASTM requirements of this report.

Further, the conclusions to this assessment are based upon the statements and representations of many individuals and/or agencies. EWI offers no opinion as to the correctness of these statements and representations and disclaims any liability thereof. No other warranty, expressed or implied, is made as to the contents, summary, and conclusions presented herein. It should be recognized that this assessment was not intended to be a definitive investigation of potential impacts at the subject property. It is possible that currently unrecognized impacts may exist at the Site. Conclusions and opinions presented herein apply to property conditions observed at the time of our investigation and



those reasonably foreseeable. They cannot necessarily apply to changes to the subject property of which EWI is unaware and has not had the opportunity to evaluate.

Limiting conditions, data gaps, and deviations from the ASTM Standard (if identified) are noted in the applicable sections of the report and discussed in Section 10.0.

## **2.6 User Reliance**

This report has been prepared expressly for Associated Wholesale Grocers for use in evaluation of the environmental condition of said property. This report may be relied upon/used by Associated Wholesale Grocers and Super Market Developers, Inc. The scope of service performed in execution of this investigation may not be appropriate to satisfy the need of other users, and any use or reuse of this document or the findings, conclusions, or recommendations presented herein is at the sole risk of said users. Use or reliance by any other party is prohibited without the written authorization.

### 3.0 SITE DESCRIPTION

#### 3.1 Location and Legal Description

The subject property is located at 2107 South 4th Street on the northeast corner of the intersection of South 4th Street and Marion Street in Leavenworth, Leavenworth County, Kansas. The location of the Site is displayed on Figures 1.0 through 3.0 of this assessment.

A brief legal description of the subject property, as obtained from the Leavenworth County Assessor's website, is as follows:

LT 1 BALLS SUB RPLT LESS TR BEG NW COR LT 2, N10'(S), E147.7', S160'(S), W30', N100'(S), W20'(S), N50'(S), W TO POB

#### 3.2 Site and Vicinity Characteristics

The Site is a commercial property located in an area of commercial and residential development.

#### 3.3 Current Use of the Subject Property

The subject property is currently a Price Chopper grocery store. The Price Chopper includes a barber shop, pharmacy, bakery and meat department with a vacant tenant space on the southwest corner.

#### 3.4 Description of Structures, Roads, and Other Improvements

The subject property is approximately 4.0 acres of commercial land, with an approximately 50,000 square foot (ft<sup>2</sup>) commercial structure developed onsite. The structure is currently occupied by a grocery store, Price Chopper, and has been present onsite since approximately 1991. The remaining areas of the Site are improved with asphalt-paved parking lots and associated landscaping.

The subject property is illustrated on the Site Diagram provided as Figure 2.0.

#### 3.5 Site Owner, Property Manager, and Occupant Information

<b>Site Owner(s):</b>	Four D Company LLC
<b>Site Manager(s):</b>	Mr. Rory Knight, Night Manager at Price Chopper
<b>Site Occupant(s):</b>	Price Chopper

#### 3.6 Current Uses of the Adjoining Properties

<b>Adjoining Properties to the North</b>	Great Western Manufacturing Co., parking lot and City of Leavenworth Animal Control
<b>Adjoining Properties to the East</b>	South 3rd Street, auto salvage yard, Fivemile Creek and vacant land
<b>Adjoining Properties to the South</b>	Marion Street, Advanced Auto & Truck, Wage's Repair Service and Lake's Auto Salvage

<b>Adjoining Properties to the West</b>	Parking lot, multi-tenant commercial structure with TMobile, Fry's and Subway, South 4th Street, Casey's, Rent-A-Center, US Nails
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### 3.7 Physical Setting

Based on field observations and a review of the topographic map, the surface topography of the subject property slopes to the east. The topography in the surrounding area generally slopes towards Fivemile Creek located approximately 175 feet east of the Site. Based on an interpretation of surface topography, groundwater flow direction in the area of the Site is anticipated to be to the east/southeast. An Area Topographic Map of the subject site and surrounding area is included as Figure 3.0.

Actual local groundwater flow direction and levels may vary due to seasonal fluctuations in precipitation, the presence of nearby water bodies, geology, underground structures, or other factors beyond the scope of this study. A hydrogeological investigation is necessary to determine groundwater flow direction/levels with certainty.

## **4.0 USER PROVIDED INFORMATION**

ASTM E 1527-13 defines a user as a person seeking a Phase I ESA of the subject property. A user may include, without limitation, a potential purchaser of the subject property, a potential tenant of the subject property, an owner of the subject property, a lender, or a Site manager.

In accordance with the EPA AAI Rule and ASTM E 1527-13, the user has obligations for performing tasks during this assessment that will help identify the possibility of RECs in connection with the Site in order to obtain certain landowner liability protections (LLPs) from CERCLA liability.

Mr. Joel Riggs, Executive Director of Super Market Developers, Inc., provided the information described above by completing a Client Checklist provided by EWI. The user's responses are summarized in the following sections and a copy of the Client Checklist and any user provided documents are included in Appendix B.

### **4.1 Title Records**

Title records were not provided for review.

### **4.2 Environmental Liens or Activity and Land Use Limitation (AUL)**

EWI was not informed by the user of any environmental liens or Activity and Use Limitations (AUL) in connection with the subject property.

### **4.3 User's Specialized Knowledge or Experience**

Mr. Riggs stated that the Site is currently a grocery store.

### **4.4 Valuation Reduction for Environmental Issues**

In some instances, the environmental condition of a parcel of land has the potential to reduce the value of the subject property. The user must provide the environmental professional/consultant information that the purchase price of the subject property is significantly less than the purchase price of comparable properties. The user should also identify an explanation for the lower price and make a written record of that explanation for the environmental professional/consultant.

The user indicated that to their knowledge the value of the subject property has not been reduced below the price of comparable properties in the immediate area.

### **4.5 Reason for Performing the Phase I ESA**

This Phase I ESA was performed in order to determine if any RECs exist at the subject property in accordance with ASTM E 1527-13 for due diligence, business environmental risk, and CERCLA defense purposes.

## 5.0 RECORDS REVIEW

### 5.1 Standard Environmental Records Sources

EWI contracted the services of Environmental Data Resources, Inc. (EDR) to conduct a database search for facilities listed on federal, state, and tribal databases in the area of the subject property. Facilities listed in these databases have reported or suspected releases of hazardous materials and/or petroleum products to the environment, may store such chemicals, and/or generate hazardous waste, and/or are involved in federal or state clean-up activities. The search was performed for the subject property and the approximate minimum search distances specified per database in the ASTM E 1527-13 Standard. EDR searched for listings within the following ASTM-required databases, in addition to other federal, state, local, and proprietary databases. A complete list and description of the databases searched is provided in EDR's Radius Map Report induced in Appendix C.

#### ASTM-Required Database:

- NPL - National Priorities List and State and Tribal Equivalents, facilities listed for priority remedial actions under the Superfund Program (within 1.0-mile)
- DELISTED NPL- Delisted NPL, facilities removed from the NPL (within 0.5-mile)
- SEMS (former CERCLIS) - Superfund Enterprise Management System tracks sites in support of the EPA's Superfund Program (within 0.5-mile)
- SEMS-ARCHIVE (former CERCLIS-NFRAP) — SEMS-ARCHIVE tracks sites that have no further interest under the Superfund Program (within 0.5-mile)
- SHWS - State Hazardous Waste Sites List (State CERCLIS Equivalent) (within 0.5-mile)
- DEL SHWS - Facilities removed from the SHWS list (State CERCLIS-NFRAP Equivalent) (within 0.5-mile)
- RCRA CORRACTS - Resource Conservation and Recovery Act Corrective Action Report, hazardous waste handles with RCRA corrective action activity (within 1.0-mile)
- RCRA non-CORRACTS TSD - RCRA Treatment, Storage & Disposal of hazardous waste...(within 0.50-mile)
- RCRA Generators - facilities that generate hazardous waste as part of their normal business practices (subject property and adjoining properties only)
  - RCRA-LQG - Large Quantity Generator, 1000 kg/month of non-acutely hazardous waste or 1 kg/month of acutely hazardous waste
  - RCRA-SQG - Small Quantity Generator, 100-1000 kg/month of non-acutely hazardous waste
  - RCRA-CESQG - Conditionally Exempt Small Quantity Generator, are those that generate less than 100 kg/month of non-acutely hazardous waste
  - RCRA-NonGen/NLR - Non Generators/No Longer Regulated, do not presently generate hazardous waste
- US INST CONTROLS and US ENG CONTROLS - Institutional and Engineering Controls and Tribal Equivalents (subject property only)

- ERNS - Emergency Response Notification System, EPA listing of reported releases (subject property only)
- SWF/LF - Permitted Solid Waste and Landfill (within 0.5-mile)
- UST - Underground Storage Tank (subject property and adjoining properties for registered tanks)
- LUST - Leaking Underground Storage Tanks (within 0.5-mile)
- VCP - Voluntary Cleanup Program (within 0.5-mile)
- BROWNFIELDS - State Listed Brownfields Facilities, properties addressed by Cooperative Agreement Recipients or Targeted Brownfields Assessments (within 0.5-mile)

EWI reviewed EDR's findings for listings on the subject property and for listings within the approximate minimum search distance with the potential to impact the subject property due to the migrations of known or suspected contamination. Off Site listings were evaluated based on the nature of the database and regulatory status, distance and topographic location from the Site, specific contaminants and the distance contaminants are likely to migrate, local geologic or hydrogeologic conditions (if known), etc. EWI also evaluated "orphan" sites that EDR could located with confidence. If applicable, orphan sites are discussed within this section.

In the following discussions, the words up-gradient, cross-gradient and down-gradient refer to the topographic gradient in relation to the subject property. Groundwater flow direction is assumed to be parallel to the surface topography of the Site and/or surrounding area. The groundwater flow direction and the depth to shallow groundwater would likely vary depending upon seasonal variations in rainfall and the depth to the soil/bedrock interface. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the subject property cannot be directly ascertained.

Unless otherwise noted, the information provided by the regulatory agency database report and other sources referenced in this report, were considered sufficient to evaluate the presence of RECs, CRECs, and HRECs. If determined necessary to supplement the standard environmental record sources, EWI contacted and/or researched additional records summarized in Section 5.2 and/or discussed in the applicable sections of this report. The facilities identified by EDR but not summarized below were determined unlikely to have an adverse environmental impact on the Site based on the available information and consideration of the factors listed above including regulatory status and distance and topographic location from the Site. Facilities identified with potential for impact to the subject property are discussed as follows:

### **5.1.1 Subject Property Listings**

The subject property was not identified in the regulatory databases searched by EDR.



### 5.1.2 Surrounding Property Listings

The following facilities were identified within the approximate minimum search distance with potential for impact to the subject property:

<b>Site Name:</b>	CITY OF LEAVENWORTH OLD CITY LANDFILL (052-LEA#2), CITY OF LEAVENWORTH 2ND & LIMIT DUMP (052-2ND-LIM)
<b>Databases:</b>	CITY DUMPS, SWF/LF
<b>Address:</b>	South 3rd Street
<b>Distance (feet):</b>	Adjoining
<b>Direction:</b>	North/Northeast
<b>Gradient</b>	Cross-gradient/Down-gradient
<b>Comments:</b>	<p>A former landfill was identified north/northeast of the Site prior to 1970. EWI interviewed Mr. Mike Gordon and Mr. Mike Hooper from the Public Works Department at the City of Leavenworth regarding their knowledge of the former landfill. Mr. Gordon and Mr. Hooper stated that to their knowledge the landfill was located north/northeast of the Site and was closed by approximately 1970 when the City Garage was developed in its place. Mr. Gordon and Mr. Hooper could not recall any sampling activities or investigation conducted at the landfill; although they could recall evidence of waste observed during construction activities onsite and the surrounding area.</p> <p>EWI submitted a records request to KDHE for additional information on the former adjoining landfill. KDHE provided an inspection form for the landfill dated August 15, 2018. According to the inspection, the former landfill was in acceptable condition with no visible wastes. No violations were found.</p> <p>No information was available regarding sampling or investigation of the former landfill. Based on close proximity and the landfill's operation prior to environmental regulation, the facility is considered a REC and VEC to the Site.</p>

<b>Site Name:</b>	LEAVENWORTH, CITY OF, GARAGE/CITY GARAGE/LEAVENWORTH MUNICIPAL GARAGE AREA 2
<b>Databases:</b>	SEMS-ARCHIVE, LUST, UST, RCRA-NONGEN/NLR
<b>Address:</b>	2101 S 3RD/3RD AND MARION
<b>Distance (feet):</b>	Adjoining
<b>Direction:</b>	Northeast
<b>Gradient</b>	Cross-gradient/Down-gradient
<b>Comments:</b>	<p>EWI requested documentation from KDHE and the City of Leavenworth regarding former operations and investigations at the facility.</p> <p>A LUST incident was reported for the facility in February 1991 in response to the removal of a 6,000-gallon fuel oil UST. A LUST incident was also reported in November 1992 when a 300-gallon waste oil UST and associated lines were removed from the Site. KDHE provided Buried Tank Leak Assessments (BTLAs) for both incidents and no leaking or contamination surrounding the USTs were reported; however, no sampling was conducted to confirm or deny impact to the subsurface. These incidents are closed. No information was provided regarding location of the former USTs.</p> <p>The facility has been listed as a non-generator since 2003 but was historically a SQG in 1987 for benzene, tetrachloroethylene, spent non-halogenated solvents and ignitable waste. EWI reviewed a compliance inspection conducted at the facility in September 1991. The inspection identified employees disposing of paint waste and paint contaminated thinner by dumping the material on the ground north of the sign shop. Visibly contaminated soil was observed in this area. Evidence of waste paint and paint thinner was also observed being dumped into a storm drain near the sign shop which discharges to the east adjoining Fivemile Creek.</p> <p>In December 1991, soil samples were collected from 6 inches below ground</p>

<b>Comments:</b>	<p>surface (bgs) and 18-24 inches bgs from six locations north of the sign shop. Based on a sampling map provided by KDHE, EWI determined that the sign shop was located approximately 135 feet northeast of the Site. The samples were composited into two samples (one 6 inch and one 18-24 inch sample) and analyzed for RCRA 8 metals, TCLP Organic Compounds and volatile organic compounds (VOCs). 1,1,2,2-tetrachloroethane, chlorobenzene and xylenes were detected at 19,000 parts per billion (ppb), 12ppb and 28ppb respectively in the composite sample collected from 6 inches bgs. No detections were identified in the sample from 18-24 inches bgs. KDHE determined that although contamination was present at the facility, it did not meet the definition of hazardous waste; therefore, areas of visible contamination were recommended to be removed and disposed. As of April 1992, approximately 60 cubic yards of contaminated soil was reportedly removed from the Site and disposed of at the Leavenworth Landfill. No sampling appears to have been conducted to confirm contamination was removed from the facility. In addition, groundwater was not evaluated during the assessment.</p> <p>An additional complaint was issued for the facility in 1991 which noted oil contamination in the area of the vehicle maintenance garage. Based on a review of aerial photographs, the vehicle maintenance garage likely adjoined the Site to the northeast from at least 1970 to 1991. Vehicle storage is also depicted on the east portion of the Site in the 1985 aerial.</p> <p>Based on close proximity and a history of non-compliance, the City Garage formerly located on the northeast of the Site is considered a REC and VEC.</p>
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<b>Site Name:</b>	GREAT WESTERN MFG CO INC
<b>Databases:</b>	RCRA-SQG, US AIRS (AFS)
<b>Address:</b>	2017 S 4TH
<b>Distance (feet):</b>	Adjoining
<b>Direction:</b>	North
<b>Gradient</b>	Cross-gradient
<b>Comments:</b>	<p>The facility adjoins the Site to the north and was listed as a SQG in 1993, 2000, 2003 and from 2005-2018. The facility was also listed as a LQG in 1994. The facility generates ignitable waste, chromium, benzene, methyl ethyl ketone, tetrachloroethylene, trichlorethylene and spent non-halogenated solvents. No violations have been reported.</p> <p>According to documentation provided, the facility manufacturers sieves and sifters used in the flour industry. KDHE provided documentation associated with a Hazardous Waste Compliance Assistance Visit (CAV) in 2012. Various deficiencies were cited during the visit; however, these do not appear to have impact on the subject property.</p> <p>EWI also reviewed historical inspections dated 1987 which indicate that waste paint and spent paint booth filters were historically being disposed of in the dumpster. At the time of the inspection, Safety-Kleen was disposing of waste solvent associated with onsite parts washing; however, correspondence states that the facility previously dumped waste solvent on the ground or in the trash. The timeframe associated with the practice of improper solvent dumping is unknown. Based on the close proximity of the facility and history of solvent dumping, the facility has potential to impact the subject property and is considered a REC and VEC.</p>

<b>Site Name:</b>	ADVANCE AUTOMOTIVE
<b>Databases:</b>	ECHO, RCRA-CESQG, FINDS
<b>Address:</b>	319 MARIAN
<b>Distance (feet):</b>	60
<b>Direction:</b>	South
<b>Gradient</b>	Cross-Gradient

<b>Comments:</b>	The facility has been listed as a CESQG since at least 2003 and was listed as a SQG in 1994 for the generation of ignitable waste, benzene and tetrachloroethylene. A compliance evaluation reportedly occurred in November 2017 and no violations were issued. Based on compliant status, distance and cross-gradient orientation, the facility does not pose a REC to the Site.
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<b>Site Name:</b>	CASEY'S GENERAL STORE - #2826
<b>Databases:</b>	Financial Assurance, UST, EDR HIST AUTO
<b>Address:</b>	2100 S. 4TH STREET
<b>Distance (feet):</b>	100
<b>Direction:</b>	West
<b>Gradient</b>	Up-Gradient
<b>Comments:</b>	The facility is located west of the Site beyond South 4th Street. The facility currently utilizes a 20,000-gallon gasoline UST, a 12,000-gallon gasoline UST and a 8,000-gallon diesel UST installed in 2009. EWI submitted a request for additional information from KDHE and received documentation including registration and installation of the USTs. In addition, EWI reviewed correspondence dated June 29, 2010, August 3, 2010, July 12, 2011 in which KDHE noted that they had not received satisfactory inventory control records and/or monthly monitoring reports for release detection. Additional correspondence dated May 13, 2014, June 25, 2014, March 21, 2018, March 19, 2019, April 29, 2019 and May 20, 2019 indicate missing function tests for onsite USTs. EWI also reviewed UST inspections conducted by KDHE on November 4, 2011, March 28, 2013, April 18, 2017 and April 1, 2019 which indicated excess fluid in spill bucket. No other violations noted except for minor repairs. Although the facility has a history of missing compliance records, no releases or significant violations have been identified. Based on lack of identified releases, the facility does not pose a REC to the Site.

<b>Site Name:</b>	CENTURY VAN LINES INC
<b>Databases:</b>	Financial Assurance, LUST, UST, RCRA-CESQG, ECHO, FINDS
<b>Address:</b>	211 MARION
<b>Distance (feet):</b>	250
<b>Direction:</b>	Southeast
<b>Gradient</b>	Down-Gradient
<b>Comments:</b>	The facility was listed for a LUST incident which occurred during the removal of a 4,000-gallon gasoline UST and a 4,000-gallon diesel UST. No indication of release was observed during the excavation and the incident was closed in June 2012. In addition, the facility is listed as a CESQG for the generation of ignitable waste, benzene and tetrachloroethylene. No violations are listed. Based on distance and orientation from the Site, the facility does not pose a REC.

## 5.2 Additional Environmental Records Sources

Additional environmental records sources reviewed by EWI are summarized below and further discussed in the applicable sections of this report. Supporting documentation is included in Appendix D.

Record Source	Contact	Date of Contact	Findings
City of Leavenworth, KS	Ms. Carla K. Williamson, City Clerk	08/01/2019	The City of Leavenworth provided documentation related to the Site's development as a Price Chopper grocery store (discussed in Section 5.4). The City also provided documentation for the Leavenworth Animal Control facility (formerly occupied by the City of Leavenworth Garage). See below for details.

Record Source	Contact	Date of Contact	Findings
KDHE Bureau of Environmental Remediation (BER)	Ms. Laura Davis	07/29/2019	The KDHE BER provided documentation for the Casey's gas station located west of the Site and two (2) BTLAs for the former City Garage at 3rd and Marion. This information is discussed in Section 5.1.2.
KDHE Bureau of Waste Management (BWM)	Ms. Debbie Lusby	07/25/2019	The KDHE BWM provided an inspection form for the former City of Leavenworth landfill, RCRA and compliance information for the former City Garage at 3rd and Marion and RCRA compliance documentation for the north adjoining Great Western Manufacturing. Discussed in Section 5.1.2.
KDHE Closed City Dump Cleanup Program GIS	Not Applicable	07/25/2019	No dumps were identified in the area of the Site.
KDHE Environmental Interest Finder	Not Applicable	07/25/2019	Corresponds with Section 5.1.
KDHE Tanks Database	Not Applicable	07/25/2019	Corresponds with Section 5.1.
KDHE Reported Spills Finder	Not Applicable	07/25/2019	Corresponds with Section 5.1.

The City of Leavenworth provided a Field Report dated July 8, 2013 associated with the construction of the Leavenworth Animal Control (northeast of the Site). The report indicates that "tanks" were removed from the facility on July 2, 2013. Two of the tanks were reportedly "relocated to the northeast of the site", still on the City of Leavenworth's property. During this relocation, tank contents were reportedly spilled on the ground surface. The Field Report includes photographs including a photograph (on Page 4) that identifies "spillage" from the tank removal. The spillage appears to be northeast of the Price Chopper structure located on the subject property.

A Field Report dated August 14, 2013 indicates that the tank spillage had not been cleaned up to date. In addition, tank spillage had previously been observed on standing water "north of the Price Chopper parking lot".

The tanks removed during the construction of the Leavenworth Animal Control (northeast of the Site) are potentially attributed to the former City Garage.

### 5.3 Historical Use Information

Historical use information was reviewed for the subject property and surrounding area to identify the likelihood of past uses having led to RECs in connection with the Site. The historical research objectives are to determine the Site and surrounding area historical uses back to the obvious first developed use, to the extent feasible. The following table summarizes the historical sources reviewed and copies are included in Appendix E:

Resource	Years Available	Source
City Directories	1963-2014 (approximately five-year intervals)	EDR
Sanborn Maps	No Coverage	EDR
Aerial Photographs	1947, 1950, 1960, 1970, 1975, 1982, 1985, 1991, 1997, 2002, 2007, 2010, 2014 and 2017	EDR
Aerial Photographs	1991, 1997, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018 and 2019	Google Earth
Topographic Maps	1890, 1894, 1910, 1948, 1949, 1951, 1961, 1970, 1975, 1976, 1984 and 2012	EDR

### 5.3.1 City Directories

City directories are cross-indexed by street address and list occupants alphabetically by name, address, and telephone number. The Site addresses identified in the historical City directories may differ from the current parcel address. A summary of the listings for the Site and pertinent commercial listings in the surrounding area are provided in the following table:

Site/ Surrounding Direction	Listings
Site	2105 S 4th Street: Residential (1963, 1969, 1974, 1979), No Return (1984)  2107 S 4th Street: Price Chopper (1992, 2005), Rice Garden Inc. (2005, 2010), Four B Corp (1992, 1995, 2000, 2005, 2010, 2014)  2109 S 4th Street: Residential (1963, 1969, 1974, 1979), Vacant (1984), C & D Sales II new-used furn (1989)  224 Marion Street: Vacant (1963)  228 Marion Street: Residential (1963), Vacant (1969, 1979)
North	2017 S 4th Street: Johnson Gordon Co. poultry processing equip mfr (1963, 1969, 1974), Simon Johnson Co. food processing equip mfr (1979), Vacant (1984), Great Western Mfg Co. Inc. (1989, 1992, 1995, 2000, 2005, 2010, 2014)  2025 S 4th Street: Tads Tropical Sno (2005)  2031 S 4th Street: Burger King Corporation (1995, 2000)  2101 S 4th Street: Residential (1974, 1979, 1984)
East	211 Marion Street: Aero Mayflower Agency (1995), Century Van Lines Inc. (1984, 1989, 1992, 1995, 2000, 2005, 2010, 2014)  236 Marion Street: Lakes Auto Salvage (1963), City Street Department Service Center shop (1979) City of Leavenworth Street Department (1984, 1989), Lake Harley L (1963, 1969, 1974, 1979, 1984), Lake Cath P Mrs (1989)  300 Marion Street: Residential (1963, 1969, 1974)

Site/ Surrounding Direction	Listings
South	<p>235 Marion Street: Lakes Auto Salvage (169, 1974, 1979, 1984, 1989, 1992, 2000), Lake Robert (2005, 2010, 2014)</p> <p>313 Marion Street: Woodworking by Suzanne (1995, 2000), Wages Repair Services (1963, 1969, 1974, 1979, 1984, 1989, 1992, 1995, 2000, 2005)</p> <p>315 Marion Street: No Return (1979), M&amp;M Body Shop (1984), Dan's Truck Repair &amp; Mobile Shop (1989), Advanced Auto Truck &amp; Trailer Repair (2000, 2005, 2010, 2014)</p> <p>319 Marion Street: Hupp, Danny (1992, 1995), Advanced Auto Truck &amp; Trailer Repair (1995)</p> <p>2111 S 4th Street: Vacant (1963, 1969), Taco Grande restr (1979, 1984, 1989)</p> <p>2113 S 4th Street: Residential (1963), Vacant (1969)</p> <p>2115 S 4th Street: Thrift Shop used mdse (1963), Curt's Motorcycles (1969)</p>
West	<p>2020 S 4th Street: Buddie's Drive In (1963), Taco Grande restr (1969, 1974), Vacant (1979), Flower Garden flowers ret (1984)</p> <p>2024 S 4th Street: New Kirk Foods Inc. (1992, 1995, 2000), Graja Inc. (2005, 2010, 2014), Hans Management (2010, 2014)</p> <p>2030 S 4th Street: Flower Garden ret (1989), Of Ahz (1995), J C Penney Corporation Inc. (2010), Land of Ahz (2000, 2005, 2010, 2014)</p> <p>2100 S 4th Street: Leavenworth Motel (1963, 1969, 1974), Burger King Corporation (1979, 1984, 1989, 2005), Casey's General Stores Inc. (2010, 2014)</p> <p>2106 S 4th Street: Pay Less Shoe Store (1974, 1979), Freight Furniture Warehouse (1984), Expressi Video movie &amp; vcr rentl (1989), Video Express (1992, 1995), Rent-A-Center Inc. (2005, 2010, 2014)</p> <p>2110 S 4th Street: Woellheart Liquor Store (1963), Mc Carbrey's Liquor store (1969), Johnson Liquor Store (1974), Barnhart Dixie E Retail Liquor (1979), Barnhart Retail Liquor (1984), Brune Retail Liquor (1989)</p>

### 5.3.2 Summary of Sanborn Maps, Aerial Photographs, and Topographic Maps

Readily available historical United States Geological Survey (USGS) topographic maps, historical aerial photographs and historical fire insurance maps produced by the Sanborn® Map Company (if coverage exists) were reviewed to evaluate land development and obtain information concerning the history of development of the Site and surrounding area. A chronological summary of the previous Site and surrounding area uses determined through the historical sources review is provided in the following table:

Date Range	Property Uses	Source
<b>Subject Property</b>		
1890-1894	No structures or improvements illustrated.	Topographic maps



Date Range	Property Uses Sub Header	Source
1910	The Site is developed with various structures and railroad tracks intersect the Site.	Topographic maps
1947-1960	The Site is developed with residential structures and railroad tracks intersecting the central portion of the Site from north to south. A portion of Fivemile Creek is present on the northeast corner. A pond is visible in the southeast corner in the 1947 aerial.	Aerial photographs and Topographic maps
1966*	The Site is developed with residential structures. Railroad tracks and access road intersect the central portion of the Site. A portion of a salvage yard is present on the east portion of exterior material storage associated with the north adjoining property is present on the north portion. A portion of Fivemile Creek is present on the northeast corner.	*Aerial photographs from City of Leavenworth GIS
1970	The Site is developed with residential structures on the west portion with railroad tracks and an access road intersecting the central portion of the Site. The northeast corner is cleared for development and apparent trailers are present on the east portion.	Aerial photographs and Topographic maps
1975	An apparent structure is on the west portion with railroad tracks and an access road intersecting the Site. The northeast portion is a paved lot. Aerial photograph is low quality and improvements are difficult to identify.	Aerial photographs and Topographic maps
1976*	The west portion of the Site is vacant. Railroad tracks intersect the central portion of the Site and the east portion is paved with parking.	*Aerial photographs from City of Leavenworth GIS
1982-1985	A structure is present on the west portion and railroad tracks and an access road intersect the Site. Vehicle storage is present on the east portion.	Aerial photographs and Topographic maps
1991-2018	The current commercial structure is present on the east portion of the Site and the remaining area is a parking lot.	Aerial photographs, Topographic maps and Google Earth
<b>Adjoining Area to the North</b>		
1890-1894	No structures or improvements illustrated.	Topographic maps
1910	Structure and railroad to the north.	Topographic maps
1947-1951	Residence, vacant land with commercial structures beyond. Railroad and Fivemile creek also present to the north.	Aerial photographs and Topographic maps
1960	Residence and commercial warehouse structure. Railroad, Fivemile creek and vacant land to the northeast.	Aerial photographs
1970	Residence and commercial warehouse structure. Railroad, Fivemile creek and landfill to the northeast.	Aerial photographs and Topographic maps
1975-1976	Residence commercial warehouse structure. Railroad and commercial structures with parking to the northeast. Landfill beyond.	Aerial photographs and Topographic maps
1982-1985	Residence commercial warehouse structure. Railroad and commercial structures with vehicle storage to the northeast. Vacant land beyond.	Aerial photographs and Topographic maps
1991	Residence to the north is demolished. Commercial warehouse and railroad located to the north. Commercial structures and parking to the northeast with disturbed vacant land beyond.	Aerial photographs

Date Range	Property Uses Sub Header	Source
1997-2003	Commercial warehouse and railroad tracks to the north. Parking lot to the northeast and vacant land with material piles beyond.	Aerial photographs and Google Earth
2004-2018	Commercial warehouse to the north. Railroad tracks no longer present. Parking lot to the northeast and vacant land beyond.	Aerial photographs, Topographic maps and Google Earth
<b>Adjoining Area to the East</b>		
1890-1894	Fivemile Creek is illustrated east of the Site with railroad tracks and the Missouri River beyond.	Topographic maps
1910	Fivemile Creek and South 2nd Street	Topographic maps
1947-1961	Fivemile Creek, residential structures and vacant land with South 2nd Street beyond. Quarries are labeled to the east in the 1961 Topographic map.	Aerial photographs and Topographic maps
1970-1976	South 3rd Street, residential and commercial structures, Fivemile Creek (rerouted) and landfill with South 2nd Street beyond.	Aerial photographs and Topographic maps
1982-1991	South 3rd Street, commercial and residential structures, vacant land with Fivemile Creek and South 2nd Street beyond. Vehicle storage is present in the 1985 Aerial.	Aerial photographs and Topographic maps
1997-2010	South 3rd Street, vehicle storage, Fivemile Creek, vacant land and commercial structure, South 2nd Street beyond.	Aerial photographs and Topographic maps
2014-2018	South 3rd Street, commercial structure and vehicle storage, Fivemile Creek, vacant land and commercial structure, South 2nd Street beyond.	Aerial photographs and Google Earth
<b>Adjoining Area to the South</b>		
1890-1894	Fivemile Creek extends to the south.	Topographic maps
1910	Marion Street, structures and railroad tracks with Fivemile Creek beyond.	Topographic maps
1947-1975	Marion Street, residential and commercial structures with vacant land, Fivemile Creek and railroad tracks.	Aerial photographs and Topographic maps
1982-2018	Marion Street, commercial structures with vacant land, Fivemile Creek and railroad tracks. Vehicle storage is present to the south. Railroad tracks are no longer present by 1991.	Aerial photographs, Topographic maps and Google Earth
<b>Adjoining Area to the West</b>		
1890-1894	South 4th Street is present to the west.	Topographic maps
1910	Residential structures, South 4th Street beyond.	Topographic maps
1947	Residential structures, South 4th Street with vacant land and residential structures beyond.	Aerial photographs
1950-1975	Residential structures, South 4th Street with residential and commercial structures beyond.	Aerial photographs and Topographic maps
1982-1991	Residential and commercial structures, South 4th Street with residential and commercial structures beyond.	Aerial photographs and Topographic maps
1997-2015	Vacant lots, South 4th Street with residential and commercial structures beyond. Gas station is present across South 4th Street beginning in 2009 Aerial.	Aerial photographs, Topographic maps and Google Earth
2016-2018	Commercial structure and parking lot, South 4th Street with residential and commercial structures including a gas station beyond.	Aerial photographs and Google Earth

An automotive salvage yard, identified in the city directories as Lakes Auto Salvage, has adjoined the Site to the east since as early as 1963. Vehicle storage is also visible onsite in the 1966 and 1985 aerial

photographs. Based on close proximity in addition to potential operation onsite, the automotive salvage yard is a REC and VEC to the Site.

## 5.4 Previous Environmental Reports and Other Documentation

A Phase II Environmental Site Assessment was also conducted for the Site proposed supermarket (Price Chopper) by Terracon Environmental in December 1989. The Phase II ESA was performed in response to a previous Phase I ESA dated October 27, 1989 which identified potential off-site contaminant sources to the "north, east and southeast". Adjacent properties to the north were identified as Great Western Manufacturing, GNB Batteries and the Leavenworth Service Center (also identified as the City Garage)/former landfill and properties to the east and southeast were identified as auto salvage yards with automotive repair shops to the south. EWI was not provided a copy of the previous Phase I ESA for review.

At the time of the Phase II investigation, two residences, a furniture store and small sheds were located on the subject property. The remaining area consisted of undeveloped land with an unimproved road (Third Street) and railroad line intersecting the Site.

Soil samples were collected along the east property line (B-1, B-2 and B-3) and near the northeast corner of the Site (MW-3 and MW-4) in order to identify "possible lead and/or petroleum contamination" associated with former USTs on the Leavenworth Service Center property that previously leaked "an undetermined amount of gasoline" and the adjoining auto salvage yard. Three (3) discrete shallow soil samples were collected 2 feet below ground surface (bgs) along the eastern property boundary via hand auger. No concentrations of total petroleum hydrocarbons (TPH) above 50 parts per million (ppm) were detected in the samples. Concentrations of lead were detected at approximately 20 ppm in each of the samples which was reportedly within typical background levels for the area. In addition, discrete soil samples were collected from MW-3 and MW-4 (northeast portion of the Site) at 3 feet bgs and analyzed for TPH. The samples identified TPH at concentrations of 140 ppm and 260 ppm respectively. The report indicates that a composite soil sample and groundwater sample were also collected in this area during the previous Phase I ESA and no gasoline constituents (i.e. benzene, toluene or ethylbenzene) were detected.

Six (6) monitoring wells were also installed at the subject property during the Phase II ESA. Three wells were installed along the northern property boundary (MW-1, MW-2 and MW-3), two wells along the eastern property boundary (MW-4 and MW-5) and one well (MW-6) in the southwest corner. Groundwater samples collected from MW-1 through MW-5 were analyzed for BTX. Additionally, samples collected from MW-1, MW-2, MW-3 and MW-5 were also analyzed for total lead. Groundwater samples collected from MW-3, MW-4, MW-5 and MW-6 were subjected to a survey search for extractable compounds (semi-volatile compounds) and volatile organic compounds (VOCs). This analysis reportedly was conducted to identify potential organic compounds present as a result of former landfill activities to the north and onsite fill material (from redirecting Fivemile Creek). Lastly, groundwater samples

collected from MW-4 and MW-6 were analyzed for "13 priority pollutant metals" due to potential impact from the landfill, auto salvage yard and other industrial sites.

No detectable concentrations of benzene, toluene, xylene or total lead were identified in groundwater at MW-1, MW-2, MW-3 or MW-5. No volatile or semi-volatile compounds were detected above 5 parts per billion (ppb) at MW-3, MW-5 or MW-6. Analytical results at MW-4 (along the northeast portion of the Site) identified elevated concentrations of metals in groundwater that were above National Drinking Water Standards for the time. In addition, a concentration of 18 ppb was detected for an unidentified semi-volatile compound in groundwater at MW-4. According to the Phase II narrative, the groundwater impacts at MW-4 are potentially attributed to the former landfill and/or auto salvage facility to the east.

Based on a review of results from the Phase II ESA, petroleum impacts were detected in shallow soil and concentrations of metals and semi-volatile compounds were detected in groundwater along the northeast portion of the Site. These impacts were potentially attributed to nearby industrial uses including the former landfill, auto salvage and Leavenworth Service Center (also identified as the City Garage).

A Subsurface Exploration Report was also conducted for the proposed Price Chopper at Fourth & Marion Streets by Terracon Consultants in October 1989. Miscellaneous rubble fill including gravel, brick, concrete, wood, metal and cinders were identified in borings advanced in the area of the proposed Price Chopper (north/northeast portion of the Site).

## 6.0 SITE RECONNAISSANCE

A visual reconnaissance of the Site and surrounding area was performed on August 6, 2019 to identify uses and conditions with potential to have an adverse environmental impact on the subject property. Accessible interior areas and structures, if any, and the exterior of the Site were inspected. Visual reconnaissance of adjoining properties was limited to areas and facilities that were readily observable from the subject property or from public access areas. Limitations to the site reconnaissance are discussed in Section 10. A Site Diagram is provided as Figure 2.0, and photographic documentation of the inspection is included in Appendix F. The following personnel participated in the Site inspection:

- Ms. Nicole Lounsberry, EWI
- Mr. Rory Knight, Manager at Price Chopper

### 6.1 General Site Use Information

The Site is currently occupied by a Price Chopper grocery store on the east portion of the Site. The Price Chopper includes a barber shop, pharmacy, bakery and meat department with a vacant tenant space on the southwest corner. A loading dock and stock storage area is present in the southeast portion of the structure. The remaining area consists of asphalt-paved parking.

Site utilities are provided as follows:

- Potable Water Supply — City of Leavenworth, Kansas

### 6.2 Hazardous Substances or Petroleum Products

The following table summarizes the chemical containers/storage and disposal areas observed during the Site reconnaissance:

Location	Chemical and Quantity	Condition and Notes
Area of the Hydraulic Trash Compactor - North Side of Structure	5-gallon bucket of grease release and two (2) 5-gallon buckets of porta plus	No evidence of release was noted.

### 6.3 Underground Storage Tanks (USTs) and Above Ground Storage Tanks (ASTs)

A Casey's gas station with active USTs was observed west of the Site across South 4th Street.

A nitrogen AST and an argon AST were observed at the Great Western Manufacturing facility adjoining the Site to the north.

No USTs or ASTs were observed at the Site.

## 6.4 Site Observations

The following table summarizes the observations made during the Site reconnaissance. Details are provided for uses or conditions identified at the Site or adjoining properties as follows:

Description	Observed or Identified	Details/Comments
Oil/water separators, clarifiers, or sand traps	Yes	EWI observed three (3) underground grease traps present in the kitchen areas at the Site. According to Site Manager, Mr. Knight, these grease traps are maintained by a third party on a regular basis. No issues were noted with the grease traps.
Odors	No	
Pools of liquid	No	
Electrical or Mechanical Equipment With Potential To Contain Polychlorinated Biphenyls (PCBs)	Yes	EWI observed a hydraulic box compactor in the back storage/stock area in the southeast corner of the structure. According to Mr. Knight, the machinery is maintained by a third party and he was not aware of any leaks or issues with the compactor.  EWI observed a trash compactor on the north side of the structure. EWI observed de minimis staining on the equipment and asphalt beneath.
Transformers - According to federal guidelines, transformers manufactured after July 1979 are required to contain less than 50 parts per million (ppm) PCBs	Yes	EWI observed pole-mounted transformers throughout the Site. Three (3) pole-mounted transformers were observed on the northern property boundary, one (1) pole-mounted transformer was observed in the southwest corner of the Site, and four (4) pole-mounted transformers were observed south of the Price Chopper structure. No decals were noted indicating PCB contents. No evidence of release was identified on the casings or ground beneath.  In addition, EWI observed three (3) transformers on a platform east of the structure. EWI observed de minimis staining on the platform beneath the transformers. No evidence of release was observed on the ground beneath.
Heating/cooling petroleum fuel source	No	
Drains or sumps	Yes	EWI observed floor drains throughout kitchen areas at the Price Chopper.
Pits, ponds or lagoons	No	
Stained soil or pavement	No	
Stressed vegetation	No	
Solid waste disposal or fill material on site	Yes	A receptacle labeled "used cooking oil" was located in the back storage/stock area in the southeast corner of the structure. According to Mr. Knight, the used cooking oil is picked up by a third party contractor on a regular basis.
Wastewater (Process water or Treatment System)	No	
Wells	No	
Septic systems or cesspools	No	
Other	Yes	EWI observed a forklift and associated charger/battery in the back storage/stock area in the southeast corner of the structure.

## 7.0 SITE USE INTERVIEWS

Ms. Nicole Lounsberry interviewed individuals knowledgeable of the uses of the Site and surrounding area. The following individuals were interviewed:

Name:	Title/Role, Company	Interview Type, Contact Information	Date Interviewed
Mr. Rory Knight	Night Manager at Price Chopper	In-person	August 6, 2019

**Mr. Knight** stated that he has been with Price Chopper since approximately 2004. Mr. Knight stated that at least three (3) underground grease traps were present in the kitchen areas at the Site. To his knowledge, the grease traps are cleaned out by a third party on a regular basis. He was not aware of any issues.

Mr. Knight also stated that a hydraulic box compactor was present in the back storage/stock area. The compactor is maintained by a third party and he was not aware of any spills or issues with the compactor.

Mr. Knight was questioned about the used cooking oil dumpster located in the back storage/stock area. He stated that the used cooking oil is picked up by a third party on a regular basis.

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



## 8.0 VAPOR ENCROACHMENT SCREENING

The goal of conducting a VES is to identify if a VEC may be present at the Site. A VEC is the presence or likely presence of COC vapors in the sub-surface of the property caused by the release of vapors from contaminated soil or groundwater either on or near the subject property.

The VES practices were conducted in general accordance with ASTM E 2600-15. The guidance includes Tier 1 and Tier 2 screening procedures to identify VECs. The Tier 1 screening starts by assessing the default area of concern (AOC) defined by the approximate minimum search distance or critical distance and then determining if known or suspected contaminated properties with COC vapors exist within the established AOC. The minimum search distance (critical distance) is the upper limit distance a vapor can reasonably be expected to migrate in relatively permeable soil assuming the path of least resistance is directly from the nearest edge of the contaminated media to the nearest subject property boundary.

The default approximate minimum search distance for non-petroleum hydrocarbon COCs (i.e. volatile organic compounds) is identified as 1,760 feet (1/3-mile) from the source to the subject property boundary and the AOC for petroleum hydrocarbons is 528 feet (1/10-mile) from the source to the subject property boundary. The default search distances may be expanded or reduced in the up-gradient, down-gradient, or cross-gradient directions based on the environmental professional's experience in the local area and applying professional judgment to factors such as of physical setting characteristics, estimated regional groundwater flow direction, or hydrogeologic boundaries such as rivers or streams exist which would tend to limit the potential for migration of groundwater or vapors in a particular direction.

The guidance indicates that when groundwater flow direction can be estimated or determined, the cross-gradient or down-gradient search distances can be reduced by utilizing the following default distances, which were determined using the Buonicore Methodology: for non-petroleum hydrocarbon COC vapors 1,760 feet in the up-gradient direction, 365 feet in the cross-gradient direction, and 100 feet in the down-gradient direction; and for petroleum hydrocarbon COCs 528 feet in the up-gradient direction, 165 feet in the cross-gradient direction if Light Non-Aqueous Phase Liquid (LNAPL i.e. floating product) is suspected and 95 feet in the cross-gradient direction if no LNAPL is suspected, 100 feet in the down-gradient direction if LNAPL is suspected and 30 feet in the down-gradient position if LNAPL not suspected.

To identify if a VEC exists, EWI conducted a Tier 1 Screening utilizing information collected during the course of the Phase I ESA including an evaluation of the current and historical usage of the property, the physical setting, and the review of the potential sources of subsurface vapor migration through the review of the regulatory agency database summarized in Section 5.1. EWI adjusted the AOC based on the inferred groundwater flow direction in the area of the Site. The Tier 2 Level Screening is a more comprehensive review of existing files and reports to better understand the proximity of impacts and



can be non-invasive or invasive and include sampling. EWI conducted limited Tier 2 screening where non-invasive information was readily available during the course of the Phase I ESA.

The long-term east adjoining automotive salvage yard, former landfill located north/northeast of the Site, north adjoining Great Western Manufacturing Co. and former northeast adjoining City Garage could be potential vapor sources and are considered VECs to the Site.

## **9.0 ADDITIONAL SERVICES**

No additional services outside of the scope of the ASTM E 1527-13 Standard were requested or provided in this assessment.

## 10.0 DEVIATIONS, LIMITING CONDITIONS, AND DATA GAPS

This Phase I ESA did not deviate from the ASTM E 1527-13 Standard.

As defined in ASTM E 1527-13 a data gap is "a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information." Data gaps are only significant if "other information and/or professional experience raise reasonable concerns involving the data gap" which affects the ability to identify RECs. Data gaps may result from incompleteness in any of the activities required by this practice.

A data failure is "a failure to achieve the historical research objectives" of the ASTM E 1527-13 Standard "even after reviewing the standard historical sources that are reasonably ascertainable and likely to be useful". The uses of the subject property must be identified at five year intervals, as available, from the present back to the subject property's first developed use, or back to 1940, whichever is earlier. Data failure is a type of data gap.

The following data gaps were identified:

- Site Inspection Limitations: EWI was unable to view all office areas including the vacant tenant space located on the southwest corner of the Price Chopper during the Site reconnaissance.
- Interviews: Current owner contact information was not provided. In addition, EWI was unable to interview the previous owner(s)/operator(s) of the Site because contact information was not readily available.
- Recorded Land Title Records or Environmental Lien Searches: Neither title paperwork or an environmental lien search was provided for the Site by the Client. At the direction of the client, performance of a review for these records was not included as part of the scope of services for this assessment, and EWI assumes the user is evaluating this information outside the scope of this report.
- Data Failure: Intervals greater than five years were encountered during the review of the historical sources. EWI was unable to determine the Site's uses back to first development; however, our historical research extended to the early 1900s. The first use of the Site appears to have been residential. Due to limited interviews and historical information, EWI also could not confirm all uses of the Site, including the vacant tenant space located on the southwest corner of the Price Chopper structure.
- Outstanding Information Requests: None.

- Other: EWI was not provided a copy of the previous Phase I ESA reportedly completed on the subject property in 1989.

An evaluation of the significance of these limitations and missing information with respect to our findings has been conducted, and where appropriate, significant data gaps are identified and discussed in the text of the report.

Based on the review of the available record sources and reasonably ascertainable information including regulatory database information, historical information and Site observations, it is unlikely these data gaps or limitations, affected EWI's ability to determine REC(s) for this report. No significant data gaps were identified during this Phase I ESA.

## **11.0 FINDINGS**

The subject property is 4.0 acres of commercial land located in an area of commercial and residential development. The Site is developed with an approximately 50,000 square foot (ft<sup>2</sup>) commercial structure developed in approximately 1991 and currently occupied by a grocery store, Price Chopper, which includes a barber shop, pharmacy, bakery, florist, and deli. A vacant tenant space is present on the southwest corner. The remaining areas of the Site are improved with asphalt-paved parking lots and associated landscaping. The subject property is owned by Four D Company LLC.

### **11.1 Historical Records Review Summary**

According to historical documentation, the subject property was developed with various structures, likely residential, with railroad tracks intersecting the Site from north to south as early as 1910. The first available aerial photograph in 1947 indicates the Site was developed with various residential structures, railroad tracks, and Fivemile Creek (in the northeast corner). By 1966, the Site remains the same except for a portion of the east adjoining salvage yard present on the east portion of the Site. Exterior material storage associated with the north adjoining property is also present on the north portion of the Site.

The northeast corner of the Site was cleared for development and improved with storage trailers by 1970. In addition, it appears that Fivemile Creek was redirected to the east during this time. By 1975, the northeast corner was developed with a paved lot and vehicle storage associated with adjoining properties. The remaining area of the Site consisted of residential and commercial structures along the west portion (including a furniture store in 1989) and railroad tracks/access roads through the central portion of the Site.

Railroad tracks and former structures were demolished by 1991 when the current Price Chopper structure with tenant spaces was developed on the east portion of the Site with paved parking to the west. Due to limited interviews and historical information, EWI also could not confirm all uses of the Site, including the vacant tenant space located on the southwest corner of the Price Chopper structure.

The adjoining properties have historically consisted of a landfill to the north/northeast prior to 1970, auto salvage adjoining to the east and various automotive repair facilities to the northeast (City of Leavenworth Garage/Leavenworth Service Center) and south across Marion Street.

EWI requested documentation for the Site and surrounding properties from the City of Leavenworth. The City provided a copy of a Phase II Environmental Site Assessment dated December 1989 conducted for the Site prior to construction of the current Price Chopper. The Phase II ESA was performed in response to a previous Phase I ESA dated October 27, 1989 which identified potential off-site contaminant sources to the "north, east and southeast". Adjacent properties to the north were identified as Great Western Manufacturing, GNB Batteries and the Leavenworth Service Center (also identified as the City Garage)/former landfill and properties to the east and southeast were identified as auto salvage

yards with automotive repair shops to the south. EWI was not provided a copy of the previous Phase I ESA for review.

At the time of the Phase II investigation, two residences, a furniture store and small sheds were located on the subject property. The remaining area consisted of undeveloped land with an unimproved road (Third Street) and railroad line intersecting the Site.

Three (3) discrete shallow soil samples (B-1, B-2 and B-3) were collected from 2 feet below ground surface (bgs) along the east property line and two (2) discrete soil samples (MW-3 and MW-4) were collected from 3 feet bgs near the northeast corner of the Site in order to identify "possible lead and/or petroleum contamination" associated with former underground storage tanks (USTs) on the adjoining Leavenworth Service Center property that previously leaked "an undetermined amount of gasoline" and the adjoining auto salvage yard. Concentrations of lead were detected at approximately 20 parts per million (ppm) in each of the samples which was reportedly within typical background levels for the area. The samples at MW-3 and MW-4 identified total petroleum hydrocarbons (TPH) at concentrations of 140 ppm and 260 ppm respectively.

Six (6) monitoring wells were also installed at the subject property during the Phase II ESA. Three wells were installed along the northern property boundary (MW-1, MW-2 and MW-3), two wells along the eastern property boundary (MW-4 and MW-5) and one well (MW-6) in the southwest corner. No detectable concentrations of benzene, toluene, xylene or total lead were identified in groundwater at MW-1, MW-2, MW-3 or MW-5. No volatile or semi-volatile compounds were detected above 5 parts per billion (ppb) at MW-3, MW-5 or MW-6. Analytical results at MW-4 (along the northeast portion of the Site) identified elevated concentrations of metals in groundwater that were above National Drinking Water Standards for the time. In addition, a concentration of 18 ppb was detected for an unidentified semi-volatile compound in groundwater at MW-4. According to the Phase II narrative, the groundwater impacts at MW-4 are potentially attributed to the former landfill and/or auto salvage facility to the east.

Based on a review of results from the Phase II ESA, petroleum impacts were detected in shallow soil and concentrations of metals and semi-volatile compounds were detected in groundwater along the northeast portion of the Site. These impacts were potentially attributed to nearby industrial uses including the former landfill, auto salvage and Leavenworth Service Center (also identified as the City Garage).

A Subsurface Exploration Report was also conducted for the proposed Price Chopper at Fourth & Marion Streets in October 1989. Miscellaneous rubble fill including gravel, brick, concrete, wood, metal and cinders were identified in borings advanced in the area of the proposed Price Chopper (north/northeast portion of the Site).

## 11.2 Regulated Sites Summary

The Site was not identified in the regulatory database searched by Environmental Data Resources, Inc. (EDR). The following facilities were identified within the approximate minimum search distance with potential for impact to the subject property:

A former landfill (City of Leavenworth Old City Landfill, City of Leavenworth 2nd & Limit Dump) was identified in the CITY DUMPS and SOLID WASTE FACILITY (SWF) databases and historically located north/northeast and cross-gradient to down-gradient of the Site. EWI interviewed Mr. Mike Gordon and Mr. Mike Hooper from the Public Works Department at the City of Leavenworth regarding their knowledge of the former landfill. Mr. Gordon and Mr. Hooper stated that to their knowledge the landfill was previously located north/northeast of the Site and was closed by approximately 1970 when the City Garage was developed in its place. Mr. Gordon and Mr. Hooper could not recall any sampling activities or investigation conducted at the landfill; although they could recall evidence of waste observed during construction activities onsite and the surrounding area. EWI submitted a records request to Kansas Department of Health and Environment (KDHE) for additional information on the former adjoining landfill. KDHE provided an inspection form for the landfill dated August 15, 2018. According to the inspection, the former landfill was in acceptable condition with no visible wastes. No violations were found. No information was available regarding sampling or investigation of the former landfill. Based on close proximity and the landfill's operation prior to environmental regulation, the facility is considered a REC and VEC to the Site.

Leavenworth, City of, Garage/City Garage/Leavenworth Municipal Garage Area was identified in the Superfund Enterprise Management System - Archive (SEMS-ARCHIVE), leaking underground storage tank (LUST), UST, Resource Conservation Recovery Act - Non Generator/No Longer Listed (RCRA-NONGEN/NLR) databases and was previously located northeast and cross-gradient to down-gradient of the Site at South 3rd and Marion Street. EWI requested documentation from KDHE and the City of Leavenworth regarding former operations and investigations at the facility. A LUST incident was reported for the facility in February 1991 in response to the removal of a 6,000-gallon fuel oil UST. A LUST incident was also reported in November 1992 when a 300-gallon waste oil UST and associated lines were removed from the facility. KDHE provided Buried Tank Leak Assessments (BTLAs) for both incidents and no leaking or contamination surrounding the USTs were reported; however, no sampling was conducted to confirm or deny impact to the subsurface. These incidents are closed. No information was provided regarding location of the former USTs. The facility has been listed as a non-generator since 2003 but was historically a small-quantity generator (SQG) in 1987 for benzene, tetrachloroethylene, spent non-halogenated solvents and ignitable waste. EWI reviewed a compliance inspection conducted at the facility in September 1991. The inspection identified employees disposing of paint waste and paint contaminated thinner by dumping the material on the ground north of the sign shop. Visibly contaminated soil was observed in this area. Evidence of waste paint and paint thinner was also observed being dumped into a storm drain near the sign shop which discharges to the east adjoining Fivemile Creek. In December 1991, soil samples were collected from 6 inches bgs and 18-24

inches bgs from six locations north of the sign shop. Based on a sampling map provided by KDHE, EWI determined that the sign shop was located approximately 135 feet northeast of the Site. The samples were composited into two samples (one 6 inch and one 18-24 inch sample) and analyzed for RCRA 8 metals, toxicity characteristic leaching procedure (TCLP) Organic Compounds and volatile organic compounds (VOCs). 1,1,2,2-tetrachloroethane, chlorobenzene and xylenes were detected at 19,000 parts per billion (ppb), 12 ppb and 28 ppb respectively in the composite sample collected from 6 inches bgs. No detections were identified in the sample from 18-24 inches bgs. KDHE determined that although contamination was present at the facility, it did not meet the definition of hazardous waste; therefore, areas of visible contamination was recommended to be removed and disposed. As of April 1992, approximately 60 cubic yards of contaminated soil was reportedly removed from the adjoining property and disposed of at the Leavenworth Landfill. No confirmation sampling appears to have been conducted following the soil removal from the facility. In addition, groundwater was not evaluated during the assessment. An additional complaint was issued for the facility in 1991 which noted oil contamination in the area of the vehicle maintenance garage. Based on a review of aerial photographs, the vehicle maintenance garage likely adjoined the Site to the northeast from at least 1970 to 1991. Vehicle storage is also depicted on the east portion of the Site in the 1985 aerial. Based on close proximity and a history of non-compliance, the City Garage formerly located on the northeast of the Site is considered a REC and VEC.

EWI also reviewed the following documentation for the Leavenworth Animal Control facility located northeast of the Site:

The City of Leavenworth provided a Field Report dated July 8, 2013 associated with the construction of the Leavenworth Animal Control (developed on the previous Leavenworth City Garage property). The report indicates that "tanks" were removed from the facility on July 2, 2013. Two of the tanks were reportedly "relocated to the northeast of the site", still on the City of Leavenworth's property. During this relocation, tank contents were reportedly spilled on the ground surface. The Field Report includes a photograph (on Page 4) that identifies "spillage" from the tank removal. The spillage appears to be northeast of the Price Chopper structure located on the subject property. A Field Report dated August 14, 2013 indicates that the tank spillage had not been cleaned up to date. In addition, tank spillage had previously been observed on standing water "north of the Price Chopper parking lot". The tanks removed during the construction of the Leavenworth Animal Control are potentially attributed to the former City Garage.

Great Western Manufacturing Co. adjoins the Site to the north and is located cross-gradient of the Site at 2017 South 4th Street and was listed as a SQG in 1993, 2000, 2003 and from 2005-2018. The facility was also listed as a large quantity generator (LQG) in 1994. The facility generates ignitable waste, chromium, benzene, methyl ethyl ketone, tetrachloroethylene, trichlorethylene and spent non-halogenated solvents. No violations have been reported. According to documentation provided, the facility manufacturers sieves and sifters used in the flour industry. KDHE provided documentation associated with a Hazardous Waste Compliance Assistance Visit (CAV) in 2012. Various deficiencies were



cited during the visit; however, these do not appear to have impact on the subject property. EWI also reviewed historical inspections dated 1987 which indicate that waste paint and spent paint booth filters were historically being disposed of in the dumpster. At the time of the inspection, Safety-Kleen was disposing of waste solvent associated with onsite parts washing; however, correspondence states that the facility previously dumped waste solvent on the ground or in the trash. The timeframe associated with the practice of improper solvent dumping is unknown. Based on the close proximity of the facility and history of solvent dumping, the facility has potential to impact the subject property and is considered a REC and VEC.

Casey's General Store - #2826, located 100 feet west and up-gradient of the Site at 2100 South 4th Street currently utilizes a 20,000-gallon gasoline UST, a 12,000-gallon gasoline UST and a 8,000-gallon diesel UST installed in 2009. EWI submitted a request for additional information from KDHE and received documentation including registration and installation of the USTs. In addition, EWI reviewed correspondence dated June 29, 2010, August 3, 2010, July 12, 2011 in which KDHE noted that they had not received satisfactory inventory control records and/or monthly monitoring reports for release detection. Additional correspondence dated May 13, 2014, June 25, 2014, March 21, 2018, March 19, 2019, April 29, 2019 and May 20, 2019 indicate missing function tests for onsite USTs. EWI also reviewed UST inspections conducted by KDHE on November 4, 2011, March 28, 2013, April 18, 2017 and April 1, 2019 which indicated excess fluid in spill bucket. No other violations noted except for minor repairs. Although the facility has a history of missing compliance records, no releases or significant violations have been identified. Based on lack of identified releases, the facility does not pose a REC to the Site.

### **11.3 Site Reconnaissance Summary**

The Site is currently occupied by a Price Chopper grocery store.

EWI observed three (3) underground grease traps present in the kitchen areas at the Site. According to Site Manager, Mr. Rory Knight, these grease traps are maintained by a third party on a regular basis. No issues were noted with the grease traps.

EWI observed a hydraulic box compactor in the back storage/stock area in the southeast corner of the structure. According to Mr. Knight, the machinery is maintained by a third party and he was not aware of any leaks or issues with the compactor. EWI also observed a trash compactor on the north side of the structure with oil staining on the equipment and asphalt beneath the compactor. The staining appeared to be minimal and no cracks in the asphalt or drains were observed in the area; on this basis, the staining is considered a de minimis condition.

EWI observed pole-mounted transformers throughout the Site. Three (3) pole-mounted transformers were observed on the northern property boundary, one (1) pole-mounted transformer was observed in the southwest corner of the Site, and four (4) pole-mounted transformers were observed south of the

Price Chopper structure. No decals were noted indicating PCB contents. No evidence of release was identified on the casings or ground beneath. In addition, EWI observed three (3) transformers on a platform east of the structure. EWI observed minor staining on the platform beneath the transformers. No evidence of release was observed on the ground beneath.

A receptacle labeled "used cooking oil" was located in the back storage/stock area in the southeast corner of the structure. According to Mr. Knight, the used cooking oil is picked up by a third party contractor on a regular basis.

During the Site reconnaissance, EWI observed an automotive salvage yard east of the Site. According to historical documentation, the automotive salvage yard, identified in the city directories as Lakes Auto Salvage, has adjoined the Site to the east since as early as 1963. Vehicle storage is also visible onsite in the 1966 and 1985 aerial photographs. Based on close proximity in addition to potential operation onsite, the automotive salvage yard is a REC and VEC to the Site.

## 12.0 CONCLUSIONS AND OPINIONS

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM E 1527-13 of the Price Chopper Property located at 2107 South 4th Street in Leavenworth, Leavenworth County, Kansas (the subject property or Site). The Vapor Encroachment Screening practices were conducted in accordance with ASTM E 2600-15. Any exceptions to, or deletions from, this standard are described in Section 10.0 of this report.

The following RECs and VECs were identified for the subject property during this assessment:

1. An automotive salvage yard, identified in the city directories as Lakes Auto Salvage, has adjoined the Site to the east since as early as 1963. Vehicle storage is also visible onsite in the 1966 and 1985 aerial photographs. Based on the close proximity in addition to potential operation onsite, the automotive salvage yard is considered a REC and VEC to the Site.
2. A former landfill (City of Leavenworth Old City Landfill, City of Leavenworth 2nd & Limit Dump) was previously located north/northeast of the Site and was closed by approximately 1970. No information was available regarding sampling or investigation of the former landfill. Based on close proximity and the landfill's operation prior to environmental regulation, the facility is considered a REC and VEC to the Site.
3. Leavenworth City Garage was previously located northeast of the Site at South 3rd and Marion Street. Various USTs have been removed from the facility with no information regarding location or sampling to confirm or deny impact to the subsurface. In addition, a history of non-compliance has been identified at the facility including visible oil contamination and disposing of paint waste and paint contaminated thinner on the ground and into a storm drain which discharges to the east adjoining Fivemile Creek. Although visibly contaminated soil was reportedly removed and disposed, no confirmation sampling appears to have been conducted following the removal of the contaminated soil. In addition, groundwater was not evaluated during the assessment. The area is currently occupied by Leavenworth Animal Control. A Field Report dated July 8, 2013 provided by the City of Leavenworth indicates that "tanks" were removed from the facility on July 2, 2013. Two of the tanks were reportedly "relocated to the northeast of the site", still on the City of Leavenworth's property. During this relocation, tank contents were reportedly spilled on the ground surface. Tank spillage had previously been observed on standing water "north of the Price Chopper parking lot". The tanks removed during the construction of the Leavenworth Animal Control are potentially attributed to the former City Garage. Based on close proximity and a history of non-compliance, the City Garage poses a REC and VEC to the Site.
4. Great Western Manufacturing Co. adjoins the Site to the north at 2017 South 4th Street. A historical inspection dated 1987 indicates that waste paint and spent paint booth filters were historically being disposed of in the dumpster at the facility. The facility also previously dumped

waste solvent on the ground or in the trash. The timeframe associated with the practice of improper solvent dumping is unknown. Based on the close proximity of the facility and history of solvent dumping, the facility has potential to impact the subject property and is considered a REC and VEC.

Based on a review of results from the 1989 Phase II ESA, petroleum impacts were detected in shallow soil and concentrations of metals and semi-volatile compounds were detected in groundwater along the northeast portion of the Site. These impacts were potentially attributed to nearby industrial uses including the former landfill, auto salvage and Leavenworth Service Center (also identified as the City Garage). In our opinion, additional investigation is recommended to evaluate the Site for subsurface impacts as a result of the RECs and VECs identified during this Phase I ESA.

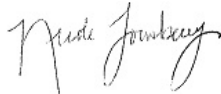
### **13.0 QUALIFICATIONS OF THE PERSONNEL PARTICIPATING IN THIS PHASE I ESA**

An environmental professional, according to ASTM E 1527-13, is a person meeting the education, training, and experience requirements as set forth in 40 CFR 312.10(b). All personnel assisting in the research, Site reconnaissance and composition of this Phase I ESA, who do not meet the definition of an environmental profession, worked under the direct supervision of the environmental professional.

We declare that, to the best of our professional knowledge and belief, we meet the definition of an Environmental Professional as defined in 312.10 of 40 CFR Part 312. 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.

## **14.0 SIGNATURES AND CERTIFICATIONS OF THE PERSONNEL RESPONSIBLE FOR THIS REPORT**

We certify, by our signatures, the information submitted in this report to be true and accurate to the best of our knowledge. Resumes for these individuals are included as Appendix G of this report.



---

Nicole Lounsberry  
Associate Scientist



---

Mandy Flageolle  
Environmental Professional

## 15.0 REFERENCES

ASTM International, Standard E 1527-13, Standard Practice for Phase I Environmental Site Assessments: Phase I Environmental Site Assessment Process.

ASTM International, Standard E2600-15, Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions.

City of Leavenworth City Clerk, Ms. Carla Williamson, [cwilliamson@firstcity.org](mailto:cwilliamson@firstcity.org)

City of Leavenworth GIS, <https://gis.firstcity.org/>

Environmental Data Resources (EDR), <https://www.web.edrnet.com/ordering/switchboard/login.aspx>

GoogleEarth®, <https://www.google.com/earth>

KDHE - Bureau of Air, Ms. Cindy Moon, [cmoon@kdheks.gov](mailto:cmoon@kdheks.gov)

KDHE - Bureau of Environmental Remediation, Ms. Anna Hernandez, [AMHernandez@kdheks.gov](mailto:AMHernandez@kdheks.gov)

KDHE - Bureau of Waste Management, Ms. Linda Dale, [Debbie.Lusby@ks.gov](mailto:Debbie.Lusby@ks.gov)

KDHE - Bureau of Water, Ms. Chris Seeds, [CSeeds@kdheks.gov](mailto:CSeeds@kdheks.gov)

KDHE Environmental Interest Finder, <https://maps.kdhe.state.ks.us/keif/>

KDHE Identified Sites List, [http://kansas.kdhe.state.ks.us/plsISL/ISL\\_Pub\\_Search](http://kansas.kdhe.state.ks.us/plsISL/ISL_Pub_Search)

KDHE Open Records Request Website, [http://www.kdheks.gov/open\\_records.html](http://www.kdheks.gov/open_records.html)

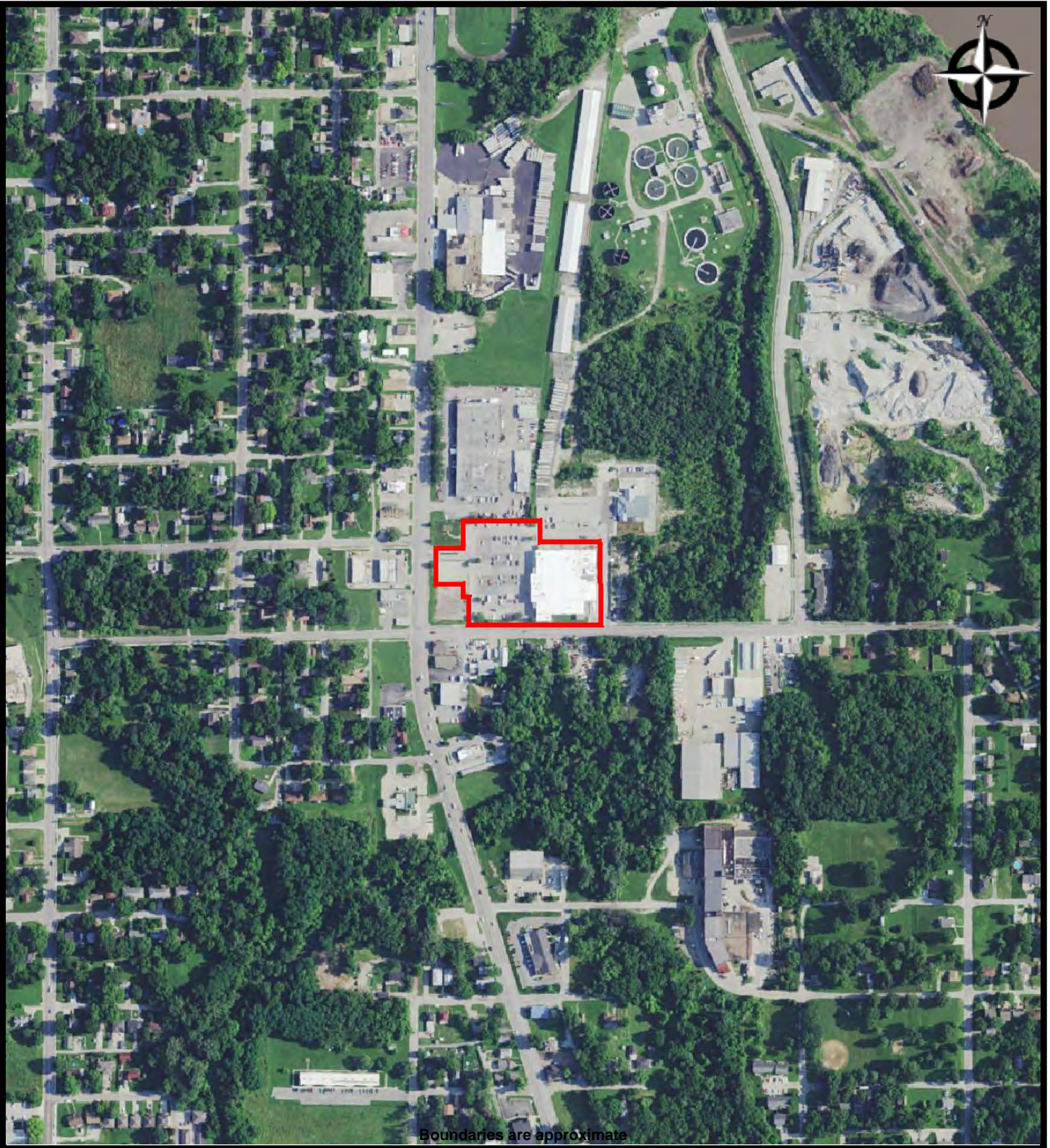
KDHE Spill Database, <http://maps.kdhe.state.ks.us/ksberspill/>

Leavenworth County GIS, <https://leavenworthgis.integritygis.com/H5/Index.html?viewer=leavenworth>

United States Environmental Protection Agency Enforcement and Compliance History Online (ECHO), <http://echo.epa.gov/?redirect=echo>

## **List of Figures**





Boundaries are approximate



**ENVIRONMENTAL WORKS**

**SITE LOCATION MAP  
PRICE CHOPPER PROPERTY  
2107 South 4th Street  
Leavenworth, Kansas 66048**

**PREPARED FOR: Associated Wholesale Grocers**

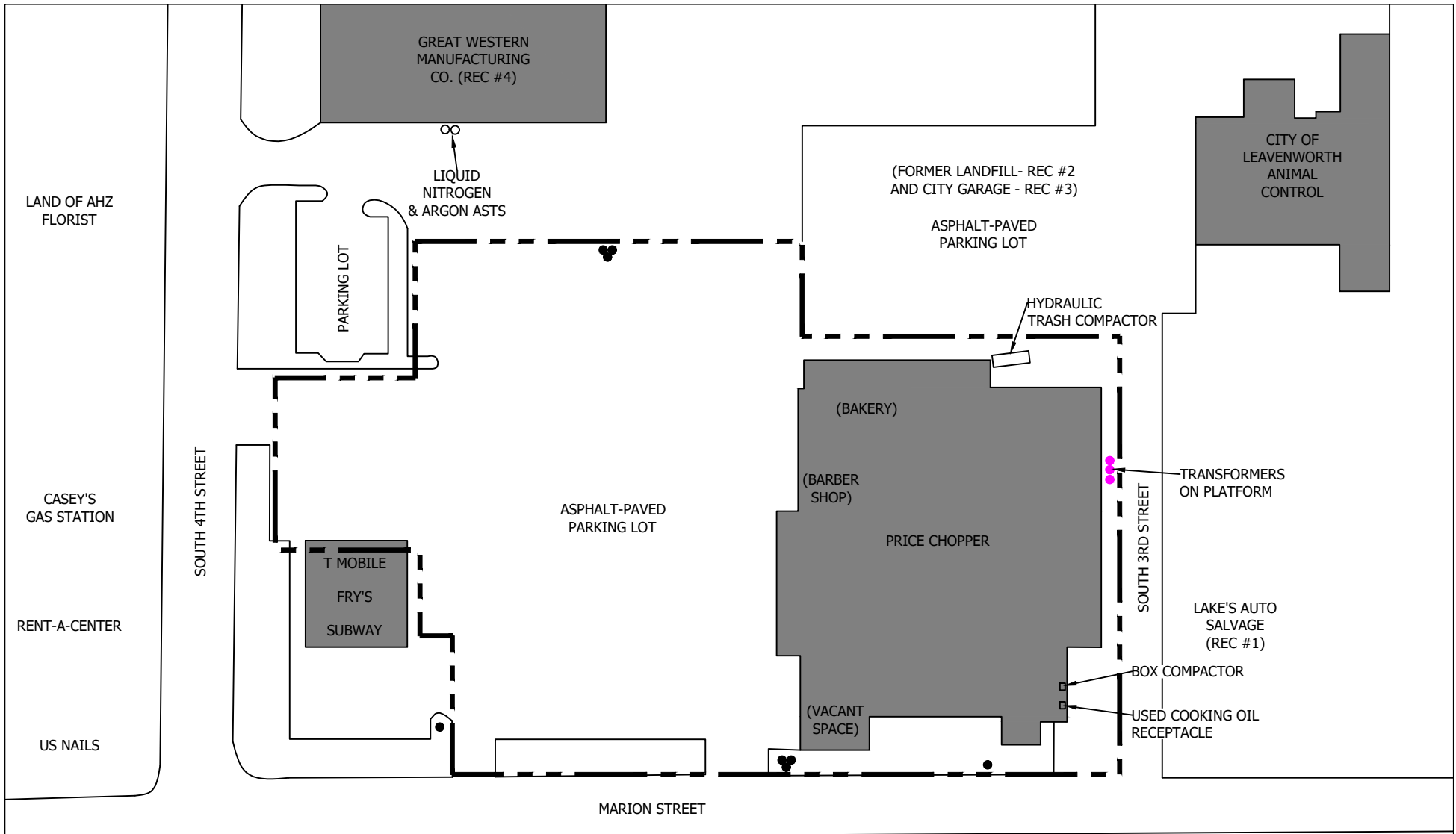
**PROJ. MGR: Gracie Tiffany**

**DRAWN BY: Nicole Lounsberry**

**DATE: 8/8/2019**

**PROJ. #: 9068**





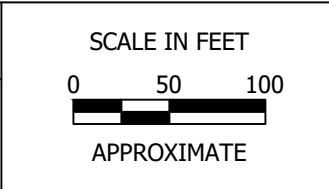
LEGEND	
●	= POLE-MOUNTED TRANSFORMER

A&R RENTALS      ADVANCED AUTO & TRUCK      WAGE'S REPAIR SERVICE      LAKE'S AUTO SALVAGE



CHECKED BY:  
N. LOUNSBERRY

E.W.I. # 9068  
DRAWN BY: NML  
Aug. 5, 2019



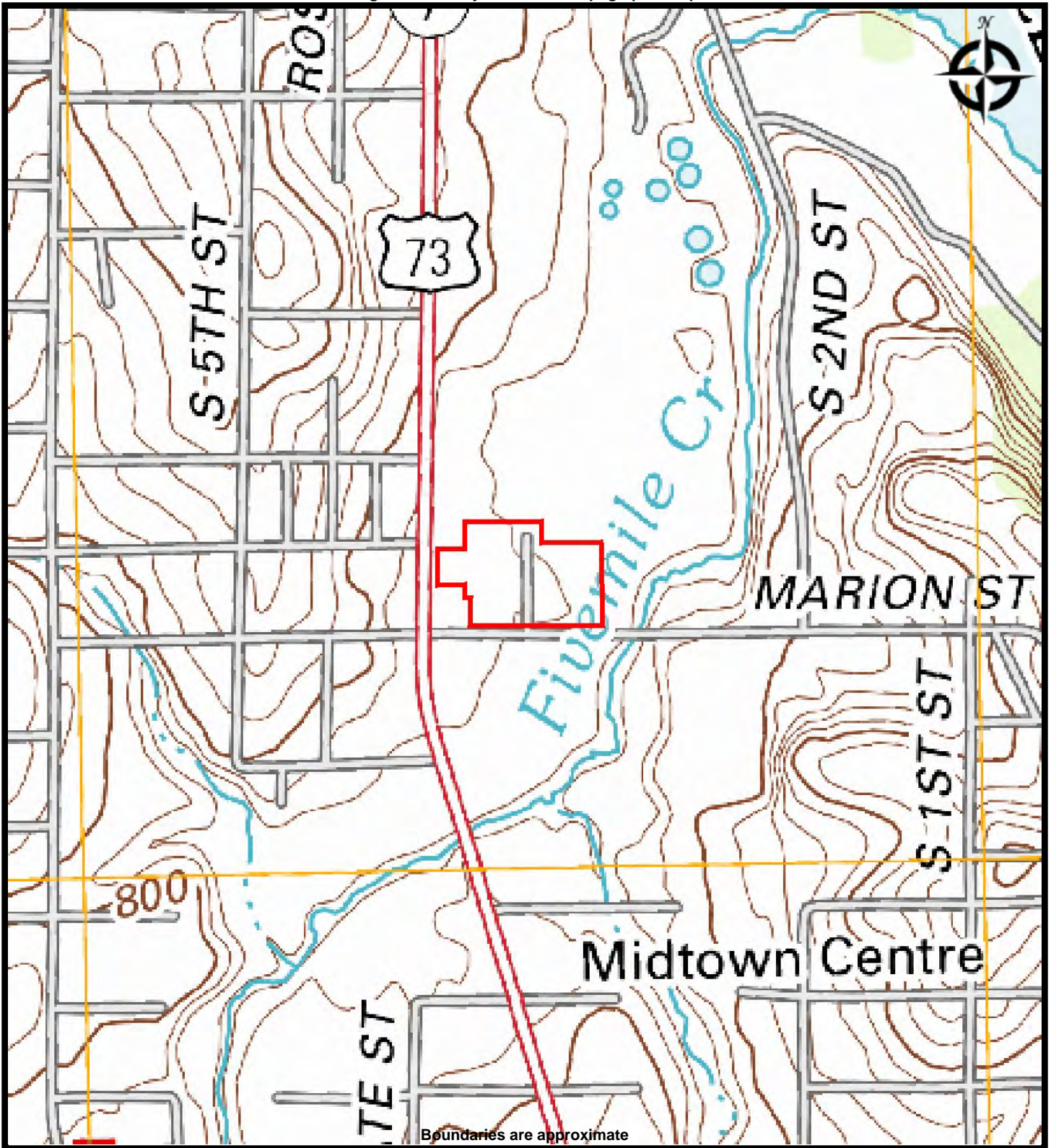
**ENVIRONMENTAL WORKS**

Kansas City Office Location:  
1731 Locust Street  
Kansas City, MO 64108  
Phone: (816) 285-8410

**SITE DIAGRAM**

PRICE CHOPPER PROPERTY  
2107 SOUTH 4TH STREET  
LEAVENWORTH, LEAVENWORTH COUNTY, KANSAS

FIGURE  
**2.0**



**ENVIRONMENTAL WORKS**

AREA TOPOGRAPHIC MAP  
PRICE CHOPPER PROPERTY  
2107 South 4th Street  
Leavenworth, Kansas 66048

PREPARED FOR: Associated Wholesale Grocers

PROJ. MGR: Gracie Tiffany

DRAWN BY: Nicole Lounsberry

DATE: 8/8/2019

PROJ. #: 9068

# **Appendix A**

## **Scope of Work**

**ENVIRONMENTAL WORKS, INC.**  
**SCOPE OF WORK FOR PHASE I ENVIRONMENTAL ASSESSMENT (ASTM E 1527-13)**

**I. USER RESPONSIBILITIES**

The user(s)/client(s) will be responsible for providing the following information:

- a. Title records for information regarding past ownership, a legal description for the Site, environmental liens, land use limitations, site diagram, site contact information, completed client checklist, any environmentally related valuation reductions for the property, and reason for performing the Phase I ESA.

**II. SITE RECONNAISSANCE**

The site reconnaissance will include a visual survey of the accessible areas of the Site. The client will arrange for permission to enter and view the Site. The following activities are included:

- a. Attempt to interview persons familiar with the historical and current uses of the Site, including the current and/or previous owner, occupants, and potentially past and present employees and/or neighbors.
- b. Review of design drawings, as-built drawings, and site surveys, if available, for septic systems, storage tanks (underground and aboveground), storm drains, and sewer drains.
- c. Visual observations on the Site for evidence of historical and present use that may contribute to environmental risk. Observe conditions that suggest a past or potential release of hazardous substances and any chemical use, storage, treatment, or disposal practices which may have impacted the environment. Identify stressed vegetation, stained soils, surface impoundments, maintenance area, storage tanks, and other materials storage areas.
- d. Visual identification of equipment and structures that are commonly known to contain polychlorinated biphenyls (PCB's) including electrical and hydraulic equipment.
- e. Observation and description of current land uses on adjoining properties to assess potential environmental impacts to the Site.
- f. Observe adjacent properties for any items or actions which may adversely affect the Site.
- g. Photographs documenting the site reconnaissance will be included.

**III. HISTORICAL RESEARCH**

This task is intended to identify past ownership and land use that may be relevant in identifying potential environmental risks associated with the Site. The following may be included:

- a. Review of available aerial photographs that reflect prior uses of the Site and surroundings.
- b. Review of as many of the following sources as is necessary, available, and/or reasonably ascertainable: Sanborn Fire Insurance Maps, city directories, property tax files, USGS 7.5 minute Topographic Maps, building department records, zoning/land use records, recorded land title records or other historical resources for evidence of previous land use.
- c. Review of facility operational records to identify materials used, stored, and disposed during operations for the Site and at times the adjoining properties.



#### IV. AGENCY RECORDS REVIEW

- a. Review of available pertinent federal, state and local government agency records which include, but are not limited to, these agencies:

Federal lists for the NPL, CERCLIS, RCRA CORRACTS, RCRA TSD, RCRA generators, UST, LUST, SPL, and ERNS (and their state equivalents)  
Missouri Department of Natural Resources (including Hazardous Waste and UST Offices) or their equivalents for other states  
Weights and Measures for aboveground storage tanks (for Missouri facilities) and its equivalent for other states  
Local Public Works, as applicable  
Local Fire Department  
Local Health Department (city and/or county offices), as applicable  
Local Utilities  
Other applicable agencies

- b. Items researched for the subject property will include:

Storage tank registrations  
Hazardous waste generators  
Locations of abandoned and existing solid and hazardous waste landfills/dumps  
Pending or past enforcement actions against the Site  
Spills that have occurred on or near the Site  
Permits issued to the Site regarding environmental activities  
Wastewater discharge activities  
Water well locations/status

#### V. FINAL REPORT

A formal report will be prepared to address the following items:

- a. An executive summary, opinions, findings, conclusions, and recommendations of the study and applicable results.
- b. Complete description of activities conducted.
- c. A summary of information gathered from the site reconnaissance, historical research, and agency records review including past and present owners/operators/occupants; interview findings, and record findings.
- d. A summary of potential environmental risks discovered during the assessment. These may include recognized environmental conditions (RECs), controlled recognized environmental conditions (CRECs), historical recognized environmental conditions (HRECs), vapor encroachment conditions (VECs), and business environmental risks.

Phase I report content shall remain consistent with the ASTM E 1527-13 requirements. The Phase I report content will be updated in compliance with the latest standard of ASTM E 1527 as new versions are released and as applies to information dissemination.

EWI will provide the report electronically via Internet delivery unless other arrangements are made prior to the project deadline. EWI can also provide hard copies and/or copies on a compact disk (CD) of the report. Standard report delivery is through US Mail; additional fees may apply for alternate delivery means. Hard copies of the report will be available to the client for a fee of \$35 per copy.

## **Appendix B**

### **User-Provided Information**



ASTM E 1527-13 defines a *user* as a person seeking an environmental site assessment (ESA) of the subject property. A user may include, without limitation, a potential purchaser of the subject property, a potential tenant of the subject property, an owner of the subject property, a lender, or a Site manager.

The user has specific obligations for having an ESA completed as set forth in ASTM E 1527-13, Section 6. In accordance with that Section, this form requests information the client/user must provide to the environmental professional/consultant. **Note: if additional space is needed see page 3 and/or include separate documents.**

1. Please provide information regarding the reason the Phase I ESA will be performed (may include due diligence, innocent landowner defense, business environmental risk, etc.).

**Due Diligence**

2. Please describe the current use(s) of the subject property.

**Grocery store**

3. Please describe the type of property transaction involved (refinance, purchase, sale, exchange, etc.).

**Sale**

4. Please provide the complete and correct address of the subject property. If an address is not available for the subject property, please provide a map or other documentation showing the location and boundaries of the Site. A legal description of the property is also required.

**2107 S 4th St, Leavenworth, KS 66048**

5. Please provide information regarding any title search information, liens, and/or environmental cleanup liens on the subject property. If there are none, please state so.

**Unknown**

6. Please provide information regarding any activity and/or land use limitations (such as engineering or institutional controls) in place at the subject property. If there are none, please state so.

**Unknown**

7. Has the value of the subject property reduced below the price of comparable properties? If yes, please provide information regarding this reduction. Is the reason due to an environmental condition of the subject property? If so, please disclose any environmental information you have regarding the Site. This information may be important to the Environmental Professional/Consultant.

**Unknown**

8. Please review the attached Scope of Work for the Phase I ESA, should any additions or deletions be required to meet your needs, provide the necessary information and the amendment(s) can be made. This Scope of Work, including any additions or deletions you require, will be included in the Phase I ESA report.

**noted**





9. Please identify all parties who will rely on/use the Phase I ESA and their (past, current, and future) relationship with the subject property. Please provide proper names and complete company names, etc.

**Super market Developers, Inc**

10. Please provide information regarding Site contact, owner information, and how each party can be reached.

**Unknown**

11. Please provide any special terms and conditions you require for the Phase I ESA. These terms and conditions must be agreed upon by the environmental professional/consultant and the client, prior to project initiation.

**none**

12. Please provide any and all knowledge or experience you have regarding the subject property. This may include past uses of the property, previous Environmental Assessments, documents, correspondence, chemicals currently or previously present at the site, and chemical spills or cleanups that have taken place at the subject property or its neighbors, or any other information regarding the Site and/or its environmental condition.

**No knowledge of property**

13. As the Phase I ESA User, based on your knowledge and experience related to the subject property, are there any obvious indicators that point to the presence or likely presence of contamination on the Site?

**Unknown**

14. EWI will provide the report electronically via Internet delivery. EWI can also provide hard copies of the final report. Hard copies are available at \$35.00 each. Please tell us how many copies of the report you prefer.

In addition, I would like  Hard Copies, at \$35 each.

I would like copies of the report in another format, as stated in the comments section on p 3.

15. **Please note:** Unless otherwise advised, EWI will include recommendations in the body of the text.

I would like:  recommendations included in the report.

recommendations separate from the report.

no recommendations.

Are additional documents attached to this Client Checklist?  Yes

No

Please describe the attachments:



Please describe any additional comments or further explanation to checklist questions:

**Respondent(s)**

Name: **Joel Riggs**

Title: **Executive Director**

Organization: **Super Market Developers, Inc**

Address: **5000 Kaunas Ave KCK 66106**

Telephone: **(913) 288-1004**

e-Mail: **joel.riggs@awginc.com**

Signature: ***Joel Riggs***

Note: typing your name into the signature field may serve as your signature on this form.

Date: **07/23/2019**

Please return to: Environmental Works, Inc.

Client Checklist

## **Appendix C**

### **EDR Radius Map Report with GeoCheck**

**2107 South 4th Street**  
2107 South 4th Street  
Leavenworth, KS 66048

Inquiry Number: 05723933.2r  
July 22, 2019

## The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://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 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

2107 SOUTH 4TH STREET  
LEAVENWORTH, KS 66048

#### COORDINATES

Latitude (North): 39.2956710 - 39° 17' 44.41"  
Longitude (West): 94.9076370 - 94° 54' 27.49"  
Universal Transverse Mercator: Zone 15  
UTM X (Meters): 335493.7  
UTM Y (Meters): 4351114.5  
Elevation: 779 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5687559 LEAVENWORTH, KS  
Version Date: 2012

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20150629, 20150712  
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:  
2107 SOUTH 4TH STREET  
LEAVENWORTH, KS 66048

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	LEAVENWORTH, CITY OF	2101 S 3RD	KS UST	Lower	1 ft.
A2	LEAVENWORTH MUNICIPA	3RD & MARION	SEMS-ARCHIVE, RCRA NonGen / NLR	Lower	1 ft.
3	CITY GARAGE	3RD & MARION (2101 S	KS LUST	Lower	61, 0.012, SE
B4	CASEY'S GENERAL STOR	2100 S. 4TH STREET	KS UST, KS Financial Assurance	Higher	117, 0.022, West
B5	CASEYS GENERAL STORE	2100 S 4TH ST	EDR Hist Auto	Higher	117, 0.022, West
6	ADVANCE AUTOMOTIVE	319 MARIAN	RCRA-CESQG, FINDS, ECHO	Higher	128, 0.024, SW
7	CENTURY VAN LINES IN	211 MARION	RCRA-CESQG, KS LUST, KS UST, FINDS, ECHO, KS...	Higher	392, 0.074, ESE
8	GREAT WESTERN MFG CO	2017 S 4TH	RCRA-SQG, US AIRS	Higher	406, 0.077, NNW
C9	CITY OF LEAVENWORTH		KS SWF/LF	Lower	624, 0.118, NNE
C10	CITY OF LEAVENWORTH		KS CITY DUMPS	Lower	624, 0.118, NNE
D11	CONOCO	1924 S FOURTH ST	EDR Hist Auto	Higher	634, 0.120, NNW
D12	SACO PETROLEUM	1924 S 4TH	KS UST	Higher	634, 0.120, NNW
D13	GNB INCORPORATED	1901 S 4TH ST	KS LUST, KS UST	Higher	758, 0.144, NNW
D14	TIRE TOWN, INC.	1850 S. 4TH STREET	KS SWF/LF	Higher	866, 0.164, NNW
D15	TIRE TOWN, INC.	1850 S. 4TH ST.	KS SWF/LF	Higher	866, 0.164, NNW
D16	SACO SERVICE STATION	1824 S 4TH	KS LUST	Higher	892, 0.169, NNW
D17	O'REILLY AUTO PARTS	1824 SOUTH FOURTH ST	RCRA-CESQG, FINDS, ECHO	Higher	892, 0.169, NNW
E18	LEAVENWORTH ASPHALT	1901 S. 2ND ST.	KS AST	Higher	925, 0.175, NE
E19	LEAVENWORTH EXCAVATI	1901 S 2ND ST.	KS AST	Higher	925, 0.175, NE
20	BESEL ROOFING & HEAT	300 SANTA FE	KS LUST, KS UST, KS Financial Assurance	Higher	966, 0.183, SSE
F21	GNB BATTERIES	1825 SOUTH FOURTH ST	KS SHWS, KS VCP	Higher	1184, 0.224, NNW
F22	GNB BATTERIES, INC.	1825 SOUTH FOURTH ST	KS SHWS, KS INST CONTROL	Higher	1184, 0.224, NNW
F23	GNB BATTERIES INC	1901 S 4TH ST	SEMS-ARCHIVE, RCRA-CESQG	Higher	1184, 0.224, NNW
F24	DGS, L.L.C.	1825 S. FOURTH	KS AST	Higher	1184, 0.224, NNW
G25	AMERICAN ROOFING	2500 S 2ND (B)	RCRA NonGen / NLR, FINDS, ECHO	Higher	1253, 0.237, SE
G26	PROPERTY MGMT & MAIN	2500 S 2ND (A)	RCRA NonGen / NLR, FINDS, ECHO	Higher	1253, 0.237, SE
H27	MISSOURI RIVER DISPO		KS CITY DUMPS	Higher	1274, 0.241, East
H28	MISSOURI RIVER DISPO		KS SWF/LF	Higher	1276, 0.242, East
I29	LEAVENWORTH WWTP	1800 S 2ND	RCRA NonGen / NLR	Lower	1296, 0.245, NE
30	CITY OF LEAVENWORTH-		KS CITY DUMPS	Higher	1368, 0.259, SSE
I31	CITY OF LEAVENWORTH	1803 SOUTH 2ND	KS SWF/LF	Lower	1449, 0.274, NE
I32	MIDLAND FUMIGANTS	1801 S. 2ND STREET	KS SHWS	Lower	1470, 0.278, NE
I33	MIDLAND FUMIGANTS IN	1801 S. 2ND ST	SEMS-ARCHIVE, PRP	Lower	1470, 0.278, NE
34	CITY OF LEAVENWORTH-		KS CITY DUMPS	Lower	1652, 0.313, NE
35	LEAVENWORTH SERVICE	1820 2ND AVE	KS LUST, KS UST	Higher	1896, 0.359, NW
36	CITY OF LEAVENWORTH		KS CITY DUMPS	Higher	2328, 0.441, SSE
J37	LEAVENWORTH COUNTY E	4TH & LIMIT STREETS	KS LUST, KS UST	Higher	2346, 0.444, South
J38	DAYLIGHT DONUTS	2906 S. 4TH ST.	KS LUST	Higher	2579, 0.488, South
K39	BLOCK PROPERTY #2		KS SHWS	Higher	4311, 0.816, SSE

MAPPED SITES SUMMARY

Target Property Address:  
2107 SOUTH 4TH STREET  
LEAVENWORTH, KS 66048

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">K40</a>	SONNY HILL JEEP EAGL	3501 S 4TH	KS SHWS, KS VCP	Higher	4312, 0.817, SSE



# EXECUTIVE SUMMARY

## TARGET PROPERTY SEARCH RESULTS

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

## DATABASES WITH NO MAPPED SITES

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

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal NPL site list***

NPL..... National Priority List  
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  
SEMS..... Superfund Enterprise Management System

### ***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

### ***Federal institutional controls / engineering controls registries***

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

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

### ***State- and tribal - equivalent CERCLIS***

MO SHWS..... Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites

## EXECUTIVE SUMMARY

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

MO SWF/LF..... Permitted Facility List

### ***State and tribal leaking storage tank lists***

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

### ***State and tribal registered storage tank lists***

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

### ***State and tribal voluntary cleanup sites***

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

### ***State and tribal Brownfields sites***

KS BROWNFIELDS..... Identified Sites List  
MO 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***

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands  
ODI..... Open Dump Inventory  
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations  
IHS OPEN DUMPS..... Open Dumps on Indian Land

### ***Local Lists of Hazardous waste / Contaminated Sites***

KS AOCONCERN..... Area of Concern  
US HIST CDL..... Delisted National Clandestine Laboratory Register  
KS CDL..... Clandestine Laboratory Data  
MO CDL..... Environmental Emergency Response System  
US CDL..... National Clandestine Laboratory Register

### ***Local Land Records***

LIENS 2..... CERCLA Lien Information

### ***Records of Emergency Release Reports***

HMIRS..... Hazardous Materials Information Reporting System

## EXECUTIVE SUMMARY

KS SPILLS..... Kansas Spills Database  
MO SPILLS..... Environmental Response Tracking Database

### ***Other Ascertainable Records***

FUDS..... Formerly Used Defense Sites  
DOD..... Department of Defense Sites  
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing  
US FIN ASSUR..... Financial Assurance Information  
EPA WATCH LIST..... EPA WATCH LIST  
2020 COR ACTION..... 2020 Corrective Action Program List  
TSCA..... Toxic Substances Control Act  
TRIS..... Toxic Chemical Release Inventory System  
SSTS..... Section 7 Tracking Systems  
ROD..... Records Of Decision  
RMP..... Risk Management Plans  
RAATS..... RCRA Administrative Action Tracking System  
PADS..... PCB Activity Database System  
ICIS..... Integrated Compliance Information System  
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)  
MLTS..... Material Licensing Tracking System  
COAL ASH DOE..... Steam-Electric Plant Operation Data  
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List  
PCB TRANSFORMER..... PCB Transformer Registration Database  
RADINFO..... Radiation Information Database  
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing  
DOT OPS..... Incident and Accident Data  
CONSENT..... Superfund (CERCLA) Consent Decrees  
INDIAN RESERV..... Indian Reservations  
FUSRAP..... Formerly Utilized Sites Remedial Action Program  
UMTRA..... Uranium Mill Tailings Sites  
LEAD SMELTERS..... Lead Smelter Sites  
US MINES..... Mines Master Index File  
ABANDONED MINES..... Abandoned Mines  
DOCKET HWC..... Hazardous Waste Compliance Docket Listing  
UXO..... Unexploded Ordnance Sites  
FUELS PROGRAM..... EPA Fuels Program Registered Listing  
KS AIRS..... Title V Source Information  
MO AIRS..... Permit Facility Listing  
KS COAL ASH..... Coal Ash Disposal Site Listing  
MO COAL ASH..... Coal Ash Disposal Sites  
KS DRYCLEANERS..... Registered Drycleaning Facilities  
MO DRYCLEANERS..... Drycleaners in Missouri Listing  
MO Financial Assurance..... Financial Assurance Information Listing  
KS NPDES..... Wastewater Permit Listing  
MO NPDES..... Permitted Facility Listing  
KS TIER 2..... Tier 2 Information Listing  
KS UIC..... Underground Injection Wells Database Listing  
MO UIC..... Underground Injection Wells Database

### **EDR HIGH RISK HISTORICAL RECORDS**

#### ***EDR Exclusive Records***

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

# EXECUTIVE SUMMARY

EDR Hist Cleaner..... EDR Exclusive Historical Cleaners

## EDR RECOVERED GOVERNMENT ARCHIVES

### ***Exclusive Recovered Govt. Archives***

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

## 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 NFRAP site list***

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS 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 the 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. The 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 potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 04/11/2019 has revealed that there are 3 SEMS-ARCHIVE sites 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>
<b><i>GNB BATTERIES INC</i></b> Site ID: 0700472 EPA Id: KSD007150477	<b><i>1901 S 4TH ST</i></b>	<b><i>NNW 1/8 - 1/4 (0.224 mi.)</i></b>	<b><i>F23</i></b>	<b><i>74</i></b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>LEAVENWORTH MUNICIPA</i></b>	<b><i>3RD &amp; MARION</i></b>	<b><i>0 - 1/8 (0.000 mi.)</i></b>	<b><i>A2</i></b>	<b><i>10</i></b>

## EXECUTIVE SUMMARY

Site ID: 0700623  
EPA Id: KSD980632210

**MIDLAND FUMIGANTS IN**

Site ID: 0705346  
EPA Id: KSN000705346

**1801 S. 2ND ST**

**NE 1/4 - 1/2 (0.278 mi.)**

**I33**

**95**

### ***Federal RCRA generators list***

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

A review of the RCRA-SQG list, as provided by EDR, and dated 03/25/2019 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>GREAT WESTERN MFG CO</b> EPA ID:: KSD007136872	<b>2017 S 4TH</b>	<b>NNW 0 - 1/8 (0.077 mi.)</b>	<b>8</b>	<b>28</b>

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 03/25/2019 has revealed that there are 4 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>
<b>ADVANCE AUTOMOTIVE</b> EPA ID:: KS0000792291	<b>319 MARIAN</b>	<b>SW 0 - 1/8 (0.024 mi.)</b>	<b>6</b>	<b>19</b>
<b>CENTURY VAN LINES IN</b> EPA ID:: KSD984993535	<b>211 MARION</b>	<b>ESE 0 - 1/8 (0.074 mi.)</b>	<b>7</b>	<b>23</b>
<b>O'REILLY AUTO PARTS</b> EPA ID:: KSR547338623	<b>1824 SOUTH FOURTH ST</b>	<b>NNW 1/8 - 1/4 (0.169 mi.)</b>	<b>D17</b>	<b>44</b>
<b>GNB BATTERIES INC</b> EPA ID:: KSD007150477	<b>1901 S 4TH ST</b>	<b>NNW 1/8 - 1/4 (0.224 mi.)</b>	<b>F23</b>	<b>74</b>

### ***State- and tribal - equivalent CERCLIS***

KS SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state

## EXECUTIVE SUMMARY

funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Health & Environment's list: Summary of Bureau of Environmental Remediation Sites in Kansas.

A review of the KS SHWS list, as provided by EDR, and dated 04/08/2019 has revealed that there are 5 KS SHWS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>GNB BATTERIES</b> Facility Status: Active Project code: C405270061 Activity Status: U	<b>1825 SOUTH FOURTH ST</b>	<b>NNW 1/8 - 1/4 (0.224 mi.)</b>	<b>F21</b>	<b>54</b>
<b>GNB BATTERIES, INC.</b> Facility Status: Resolved with restrictions Project code: C405200022 Activity Status: C	<b>1825 SOUTH FOURTH ST</b>	<b>NNW 1/8 - 1/4 (0.224 mi.)</b>	<b>F22</b>	<b>60</b>
BLOCK PROPERTY #2 Facility Status: Resolved Project code: C405272175 Activity Status: C		SSE 1/2 - 1 (0.816 mi.)	K39	104
<b>SONNY HILL JEEP EAGL</b> Facility Status: Active Project code: C405270229 Activity Status: P	<b>3501 S 4TH</b>	<b>SSE 1/2 - 1 (0.817 mi.)</b>	<b>K40</b>	<b>106</b>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MIDLAND FUMIGANTS Facility Status: Transferred out of the bureau Project code: C405272382 Activity Status: C	1801 S. 2ND STREET	NE 1/4 - 1/2 (0.278 mi.)	I32	93

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

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

A review of the KS SWF/LF list, as provided by EDR, and dated 04/01/2019 has revealed that there are 5 KS SWF/LF sites 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>
TIRE TOWN, INC. Facility Status: Active	1850 S. 4TH STREET	NNW 1/8 - 1/4 (0.164 mi.)	D14	42
TIRE TOWN, INC. Facility Status: Active	1850 S. 4TH ST.	NNW 1/8 - 1/4 (0.164 mi.)	D15	42
MISSOURI RIVER DISPO Facility Status: Closed: post-closure care completed/not required		E 1/8 - 1/4 (0.242 mi.)	H28	90
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CITY OF LEAVENWORTH		NNE 0 - 1/8 (0.118 mi.)	C9	32

## EXECUTIVE SUMMARY

Facility Status: Closed: post-closure care completed/not required

Facility Status: Closed: post-closure care

CITY OF LEAVENWORTH	1803 SOUTH 2ND	NE 1/4 - 1/2 (0.274 mi.)	I31	92
Facility Status: Active				

KS CITY DUMPS: The City Dump Cleanup Program provides funds to cities or counties for the repair of old, unused municipal dump sites. These sites primarily operated between the 1940s and the 1970s before many counties had landfills and prior to the current regulations for solid waste disposal.

A review of the KS CITY DUMPS list, as provided by EDR, and dated 02/26/2019 has revealed that there are 5 KS CITY DUMPS sites 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>
MISSOURI RIVER DISPO		E 1/8 - 1/4 (0.241 mi.)	H27	90
CITY OF LEAVENWORTH-		SSE 1/4 - 1/2 (0.259 mi.)	30	92
CITY OF LEAVENWORTH		SSE 1/4 - 1/2 (0.441 mi.)	36	100
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CITY OF LEAVENWORTH		NNE 0 - 1/8 (0.118 mi.)	C10	34
CITY OF LEAVENWORTH-		NE 1/4 - 1/2 (0.313 mi.)	34	97

### ***State and tribal leaking storage tank lists***

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

A review of the KS LUST list, as provided by EDR, and dated 04/01/2019 has revealed that there are 8 KS LUST sites 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>
<b><i>CENTURY VAN LINES IN</i></b> Facility Id: 26223 Facility Status: Closed	<b><i>211 MARION</i></b>	<b><i>ESE 0 - 1/8 (0.074 mi.)</i></b>	<b><i>7</i></b>	<b><i>23</i></b>
<b><i>GNB INCORPORATED</i></b> Facility Id: 25420 Facility Status: Closed	<b><i>1901 S 4TH ST</i></b>	<b><i>NNW 1/8 - 1/4 (0.144 mi.)</i></b>	<b><i>D13</i></b>	<b><i>38</i></b>
SACO SERVICE STATION Facility Id: 06464 Facility Status: Closed	1824 S 4TH	NNW 1/8 - 1/4 (0.169 mi.)	D16	43
<b><i>BESSEL ROOFING &amp; HEAT</i></b> Facility Id: 28116 Facility Status: Closed	<b><i>300 SANTA FE</i></b>	<b><i>SSE 1/8 - 1/4 (0.183 mi.)</i></b>	<b><i>20</i></b>	<b><i>52</i></b>
<b><i>LEAVENWORTH SERVICE</i></b> Facility Id: 25611 Facility Status: Closed	<b><i>1820 2ND AVE</i></b>	<b><i>NW 1/4 - 1/2 (0.359 mi.)</i></b>	<b><i>35</i></b>	<b><i>98</i></b>
<b><i>LEAVENWORTH COUNTY E</i></b>	<b><i>4TH &amp; LIMIT STREETS</i></b>	<b><i>S 1/4 - 1/2 (0.444 mi.)</i></b>	<b><i>J37</i></b>	<b><i>101</i></b>

## EXECUTIVE SUMMARY

Facility Id: 27533 Facility Status: Closed				
DAYLIGHT DONUTS Facility Id: 82436 Facility Status: Closed	2906 S. 4TH ST.	S 1/4 - 1/2 (0.488 mi.)	J38	103

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CITY GARAGE Facility Id: 08286 Facility Status: Closed	3RD & MARION (2101 S	SE 0 - 1/8 (0.012 mi.)	3	14

### **State and tribal registered storage tank lists**

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

A review of the KS UST list, as provided by EDR, and dated 04/01/2019 has revealed that there are 6 KS 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>
<b>CASEY'S GENERAL STOR</b> Facility Id: 30435 Tank Status: Current In Use	<b>2100 S. 4TH STREET</b>	<b>W 0 - 1/8 (0.022 mi.)</b>	<b>B4</b>	<b>16</b>
<b>CENTURY VAN LINES IN</b> Facility Id: 26223 Tank Status: Permanently Out Of Use	<b>211 MARION</b>	<b>ESE 0 - 1/8 (0.074 mi.)</b>	<b>7</b>	<b>23</b>
SACO PETROLEUM Facility Id: 06464 Tank Status: Permanently Out Of Use	1924 S 4TH	NNW 0 - 1/8 (0.120 mi.)	D12	34
<b>GNB INCORPORATED</b> Facility Id: 25420 Tank Status: Permanently Out Of Use	<b>1901 S 4TH ST</b>	<b>NNW 1/8 - 1/4 (0.144 mi.)</b>	<b>D13</b>	<b>38</b>
<b>BESSEL ROOFING &amp; HEAT</b> Facility Id: 28116 Tank Status: Permanently Out Of Use	<b>300 SANTA FE</b>	<b>SSE 1/8 - 1/4 (0.183 mi.)</b>	<b>20</b>	<b>52</b>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LEAVENWORTH, CITY OF Facility Id: 08286 Tank Status: Permanently Out Of Use	2101 S 3RD	0 - 1/8 (0.000 mi.)	A1	8



## EXECUTIVE SUMMARY

KS AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Health & Environment's AST (Report) Listing Including Names.

A review of the KS AST list, as provided by EDR, and dated 04/01/2019 has revealed that there are 3 KS AST 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>
LEAVENWORTH ASPHALT Facility Id: 44703 Tank Status: Current In Use	1901 S. 2ND ST.	NE 1/8 - 1/4 (0.175 mi.)	E18	47
LEAVENWORTH EXCAVATI Facility Id: 44692 Tank Status: Current In Use	1901 S 2ND ST.	NE 1/8 - 1/4 (0.175 mi.)	E19	51
DGS, L.L.C. Facility Id: 43356 Tank Status: Permanently Out Of Use	1825 S. FOURTH	NNW 1/8 - 1/4 (0.224 mi.)	F24	78

### ***State and tribal institutional control / engineering control registries***

KS INST CONTROL: Sites that have institutional control information entered into the Identified Sites List database.

A review of the KS INST CONTROL list, as provided by EDR, and dated 04/08/2019 has revealed that there is 1 KS INST CONTROL 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>
<b>GNB BATTERIES, INC.</b> Project Code: C405200022 Site ID: 1065	<b>1825 SOUTH FOURTH ST</b>	<b>NNW 1/8 - 1/4 (0.224 mi.)</b>	<b>F22</b>	<b>60</b>

### ***State and tribal voluntary cleanup sites***

KS VCP: Sites included in the Identified Sites List that are identified as Voluntary Cleanup sites.

A review of the KS VCP list, as provided by EDR, and dated 04/08/2019 has revealed that there is 1 KS 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>
<b>GNB BATTERIES</b> Site Status: A Project code: C405270061	<b>1825 SOUTH FOURTH ST</b>	<b>NNW 1/8 - 1/4 (0.224 mi.)</b>	<b>F21</b>	<b>54</b>

## EXECUTIVE SUMMARY

### ADDITIONAL ENVIRONMENTAL RECORDS

#### ***Other Ascertainable Records***

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

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/25/2019 has revealed that there are 4 RCRA NonGen / NLR 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>
<b>AMERICAN ROOFING</b> EPA ID:: KSR000009571	<b>2500 S 2ND (B)</b>	<b>SE 1/8 - 1/4 (0.237 mi.)</b>	<b>G25</b>	<b>84</b>
<b>PROPERTY MGMT &amp; MAIN</b> EPA ID:: KSD984993840	<b>2500 S 2ND (A)</b>	<b>SE 1/8 - 1/4 (0.237 mi.)</b>	<b>G26</b>	<b>87</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>LEAVENWORTH MUNICIPA</b> EPA ID:: KSD980632210	<b>3RD &amp; MARION</b>	<b>0 - 1/8 (0.000 mi.)</b>	<b>A2</b>	<b>10</b>
<b>LEAVENWORTH WWTP</b> EPA ID:: KSD000639542	<b>1800 S 2ND</b>	<b>NE 1/8 - 1/4 (0.245 mi.)</b>	<b>I29</b>	<b>91</b>

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

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

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 2 EDR Hist Auto sites within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CASEYS GENERAL STORE</b>	<b>2100 S 4TH ST</b>	<b>W 0 - 1/8 (0.022 mi.)</b>	<b>B5</b>	<b>19</b>
<b>CONOCO</b>	<b>1924 S FOURTH ST</b>	<b>NNW 0 - 1/8 (0.120 mi.)</b>	<b>D11</b>	<b>34</b>

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name

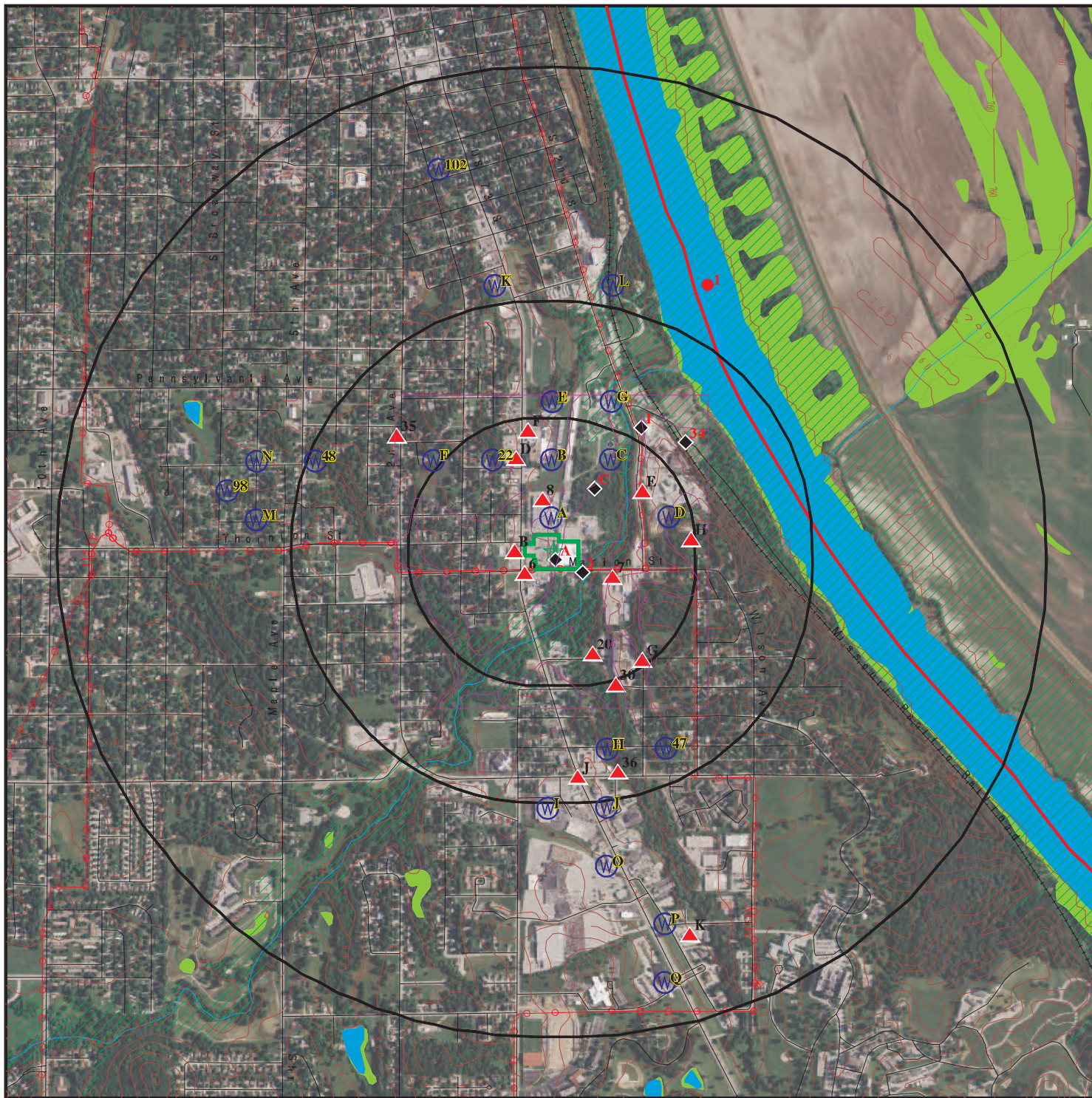
Database(s)

MISSOURI RIVER BRUSH & RUBBLE DSPL

SEMS-ARCHIVE



# OVERVIEW MAP - 05723933.2R



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

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Areas of Concern



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

SITE NAME: 2107 South 4th Street  
 ADDRESS: 2107 South 4th Street  
 Leavenworth KS 66048  
 LAT/LONG: 39.295671 / 94.907637

CLIENT: Environmental Works Inc.  
 CONTACT: Nicole Lounsberry  
 INQUIRY #: 05723933.2r  
 DATE: July 22, 2019 2:44 pm



# DETAIL MAP - 05723933.2R



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

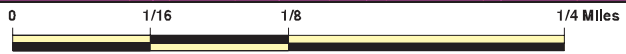
100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Areas of Concern



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

SITE NAME: 2107 South 4th Street  
 ADDRESS: 2107 South 4th Street  
 Leavenworth KS 66048  
 LAT/LONG: 39.295671 / 94.907637

CLIENT: Environmental Works Inc.  
 CONTACT: Nicole Lounsberry  
 INQUIRY #: 05723933.2r  
 DATE: July 22, 2019 2:49 pm

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<b><i>Federal CERCLIS NFRAP site list</i></b>								
SEMS-ARCHIVE	0.500		1	1	1	NR	NR	3
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		1	0	NR	NR	NR	1
RCRA-CESQG	0.250		2	2	NR	NR	NR	4
<b><i>Federal institutional controls / engineering controls registries</i></b>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
KS SHWS	1.000		0	2	1	2	NR	5
MO SHWS	1.000		0	0	0	0	NR	0
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
KS SWF/LF	0.500		1	3	1	NR	NR	5
MO SWF/LF	0.500		0	0	0	NR	NR	0
KS CITY DUMPS	0.500		1	1	3	NR	NR	5
<b><i>State and tribal leaking storage tank lists</i></b>								
KS LAST	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
KS LUST	0.500		2	3	3	NR	NR	8
MO LAST	0.500		0	0	0	NR	NR	0
MO LUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b>State and tribal registered storage tank lists</b>								
FEMA UST	0.250		0	0	NR	NR	NR	0
KS UST	0.250		4	2	NR	NR	NR	6
MO UST	0.250		0	0	NR	NR	NR	0
KS AST	0.250		0	3	NR	NR	NR	3
MO AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<b>State and tribal institutional control / engineering control registries</b>								
KS INST CONTROL	0.500		0	1	0	NR	NR	1
<b>State and tribal voluntary cleanup sites</b>								
KS VCP	0.500		0	1	0	NR	NR	1
INDIAN VCP	0.500		0	0	0	NR	NR	0
MO VCP	0.500		0	0	0	NR	NR	0
<b>State and tribal Brownfields sites</b>								
KS BROWNFIELDS	0.500		0	0	0	NR	NR	0
MO BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
KS AOCONCERN	1.000		0	0	0	0	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
KS CDL	TP		NR	NR	NR	NR	NR	0
MO CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
<b>Local Land Records</b>								
LIENS 2	TP		NR	NR	NR	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	TP		NR	NR	NR	NR	NR	0



## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
KS SPILLS	TP		NR	NR	NR	NR	NR	0
MO SPILLS	TP		NR	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250		1	3	NR	NR	NR	4
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
KS AIRS	TP		NR	NR	NR	NR	NR	0
MO AIRS	TP		NR	NR	NR	NR	NR	0
KS COAL ASH	0.500		0	0	0	NR	NR	0
MO COAL ASH	0.500		0	0	0	NR	NR	0
KS DRYCLEANERS	0.250		0	0	NR	NR	NR	0
MO DRYCLEANERS	0.250		0	0	NR	NR	NR	0
KS Financial Assurance	TP		NR	NR	NR	NR	NR	0
MO Financial Assurance	TP		NR	NR	NR	NR	NR	0
KS NPDES	TP		NR	NR	NR	NR	NR	0
MO NPDES	TP		NR	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
KS TIER 2	TP		NR	NR	NR	NR	NR	0
KS UIC	TP		NR	NR	NR	NR	NR	0
MO UIC	TP		NR	NR	NR	NR	NR	0
<b><u>EDR HIGH RISK HISTORICAL RECORDS</u></b>								
<b><i>EDR Exclusive Records</i></b>								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		2	NR	NR	NR	NR	2
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
<b><u>EDR RECOVERED GOVERNMENT ARCHIVES</u></b>								
<b><i>Exclusive Recovered Govt. Archives</i></b>								
KS RGA HWS	TP		NR	NR	NR	NR	NR	0
MO RGA HWS	TP		NR	NR	NR	NR	NR	0
KS RGA LF	TP		NR	NR	NR	NR	NR	0
MO RGA LF	TP		NR	NR	NR	NR	NR	0
KS RGA LUST	TP		NR	NR	NR	NR	NR	0
MO RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	15	22	9	2	0	48

**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 LEAVENWORTH, CITY OF, GARAGE  
2101 S 3RD

KS UST U000196730  
N/A

< 1/8 LEAVENWORTH, KS 66048  
1 ft.

Site 1 of 2 in cluster A

Relative:  
Lower

UST:

Actual:  
778 ft.

Facility ID: 08286  
Facility 911 Address: 2101 S 3RD  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: 1991-02-15 00:00:00  
Capacity (Gals): 6000  
Tank Internal Protection: None  
24 Hour Phone Num: 913-682-0650  
Tank External Protection: Painted  
Piping: Galv Steel  
Facility Location Method: GARMIN 3 PLUS  
Facility Feature: Facility Center  
Facility Phone: 913-682-0650  
Tank Empty: Not reported  
Contact Name: R D Rttzwald  
Contact Title: Maint Super  
Owner ID: 08286  
Owner Type: Current  
Owner Name: LEAVENWORTH, CITY OF  
Owner Address: 100 NORTH 5TH STREET  
Owner City: LEAVENWORTH  
Owner State: KS  
Owner Zip: 66048  
Owner County: LEAVENWORTH  
Owner Phone: 913-682-9201  
QTY Remaining in Tank: Not reported  
Facility District: NE  
Tank ID: 001  
Tank Status: Permanently Out Of Use  
Installation Year: 1981  
Last Permit Printed: Not reported  
Current Permit Printed: Not reported  
Facility Datum: WGS84  
Out of service Mo/Yr: 021991  
Material of Construction: Steel  
Petroleum Substance: Gas (Incl Alcohol)  
Owner Replacement Name: CITY OF LEAVENWORTH-MIKE HOOPE  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Fire, Chronic, Acute  
Principal CERCLA Substance/Chem Abstract Service Num: 8006-61-9  
Latitude: 39.29504  
Longitude: -94.90754  
  
Facility ID: 08286  
Facility 911 Address: 2101 S 3RD  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: 1991-02-15 00:00:00  
Capacity (Gals): 6000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

LEAVENWORTH, CITY OF, GARAGE (Continued)

U000196730

Tank Internal Protection: None  
24 Hour Phone Num: 913-682-0650  
Tank External Protection: Painted  
Piping: Galv Steel  
Facility Location Method: GARMIN 3 PLUS  
Facility Feature: Facility Center  
Facility Phone: 913-682-0650  
Tank Empty: Not reported  
Contact Name: R D Rttzwald  
Contact Title: Maint Super  
Owner ID: 08286  
Owner Type: Current  
Owner Name: LEAVENWORTH, CITY OF  
Owner Address: 100 NORTH 5TH STREET  
Owner City: LEAVENWORTH  
Owner State: KS  
Owner Zip: 66048  
Owner County: LEAVENWORTH  
Owner Phone: 913-682-9201  
QTY Remaining in Tank: Not reported  
Facility District: NE  
Tank ID: 002  
Tank Status: Permanently Out Of Use  
Installation Year: 1981  
Last Permit Printed: Not reported  
Current Permit Printed: Not reported  
Facility Datum: WGS84  
Out of service Mo/Yr: 021991  
Material of Construction: Steel  
Petroleum Substance: Gas (Incl Alcohol)  
Owner Replacement Name: CITY OF LEAVENWORTH-MIKE HOOPE  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Fire, Chronic, Acute  
Principal CERCLA Substance/Chem Abstract Service Num: 8006-61-9  
Latitude: 39.29504  
Longitude: -94.90754

Facility ID: 08286  
Facility 911 Address: 2101 S 3RD  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: 1991-02-15 00:00:00  
Capacity (Gals): 6000  
Tank Internal Protection: None  
24 Hour Phone Num: 913-682-0650  
Tank External Protection: Painted  
Piping: Galv Steel  
Facility Location Method: GARMIN 3 PLUS  
Facility Feature: Facility Center  
Facility Phone: 913-682-0650  
Tank Empty: Not reported  
Contact Name: R D Rttzwald  
Contact Title: Maint Super  
Owner ID: 08286  
Owner Type: Current

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

LEAVENWORTH, CITY OF, GARAGE (Continued)

U000196730

Owner Name: LEAVENWORTH, CITY OF  
Owner Address: 100 NORTH 5TH STREET  
Owner City: LEAVENWORTH  
Owner State: KS  
Owner Zip: 66048  
Owner County: LEAVENWORTH  
Owner Phone: 913-682-9201  
QTY Remaining in Tank: Not reported  
Facility District: NE  
Tank ID: 003  
Tank Status: Permanently Out Of Use  
Installation Year: 1981  
Last Permit Printed: Not reported  
Current Permit Printed: Not reported  
Facility Datum: WGS84  
Out of service Mo/Yr: 021991  
Material of Construction: Steel  
Petroleum Substance: Gas (Incl Alcohol)  
Owner Replacement Name: CITY OF LEAVENWORTH-MIKE HOOPE  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Fire, Chronic, Acute  
Principal CERCLA Substance/Chem Abstract Service Num: 8006-61-9  
Latitude: 39.29504  
Longitude: -94.90754

A2

LEAVENWORTH MUNICIPAL GARAGE AREA 2  
3RD & MARION  
LEAVENWORTH, KS 66048

SEMS-ARCHIVE 1015734058  
RCRA NonGen / NLR KSD980632210

< 1/8  
1 ft.

Site 2 of 2 in cluster A

Relative:  
Lower  
Actual:  
778 ft.

SEMS Archive:  
Site ID: 0700623  
EPA ID: KSD980632210  
Cong District: 02  
FIPS Code: 20103  
FF: N  
NPL: Not on the NPL  
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region: 07  
Site ID: 0700623  
EPA ID: KSD980632210  
Site Name: LEAVENWORTH MUNICIPAL GARAGE AREA 2  
NPL: N  
FF: N  
OU: 00  
Action Code: VS  
Action Name: ARCH SITE  
SEQ: 1  
Start Date: Not reported  
Finish Date: 1985-04-05 06:00:00  
Qual: Not reported  
Current Action Lead: EPA Perf In-Hse

Region: 07

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

LEAVENWORTH MUNICIPAL GARAGE AREA 2 (Continued)

1015734058

Site ID: 0700623  
EPA ID: KSD980632210  
Site Name: LEAVENWORTH MUNICIPAL GARAGE AREA 2  
NPL: N  
FF: N  
OU: 00  
Action Code: DS  
Action Name: DISCVRY  
SEQ: 1  
Start Date: 1981-06-01 04:00:00  
Finish Date: 1981-06-01 04:00:00  
Qual: Not reported  
Current Action Lead: EPA Perf

Region: 07  
Site ID: 0700623  
EPA ID: KSD980632210  
Site Name: LEAVENWORTH MUNICIPAL GARAGE AREA 2  
NPL: N  
FF: N  
OU: 00  
Action Code: PA  
Action Name: PA  
SEQ: 2  
Start Date: Not reported  
Finish Date: 1985-04-05 06:00:00  
Qual: L  
Current Action Lead: EPA Perf

Region: 07  
Site ID: 0700623  
EPA ID: KSD980632210  
Site Name: LEAVENWORTH MUNICIPAL GARAGE AREA 2  
NPL: N  
FF: N  
OU: 00  
Action Code: SI  
Action Name: SI  
SEQ: 1  
Start Date: Not reported  
Finish Date: 1985-04-05 06:00:00  
Qual: N  
Current Action Lead: EPA Perf

Region: 07  
Site ID: 0700623  
EPA ID: KSD980632210  
Site Name: LEAVENWORTH MUNICIPAL GARAGE AREA 2  
NPL: N  
FF: N  
OU: 00  
Action Code: PA  
Action Name: PA  
SEQ: 1  
Start Date: Not reported  
Finish Date: 1983-08-01 04:00:00  
Qual: L

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEAVENWORTH MUNICIPAL GARAGE AREA 2 (Continued)**

**1015734058**

Current Action Lead: EPA Perf

RCRA NonGen / NLR:

Date form received by agency: 02/11/2003  
Facility name: LEAVENWORTH CITY OF GARAGE  
Facility address: 2101 S 3RD  
LEAVENWORTH, KS 66048  
EPA ID: KSD980632210  
Mailing address: N 5TH ST  
LEAVENWORTH, KS 66048  
Contact: ROBERT PATZWALD  
Contact address: 100 N 5TH ST  
LEAVENWORTH, KS 66048  
Contact country: US  
Contact telephone: 913-682-0650  
Contact email: Not reported  
EPA Region: 07  
Land type: Municipal  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: LEAVENWORTH CITY OF  
Owner/operator address: CITY HALL 5TH & SHAWNEE  
LEAVENWORTH, KS 66048  
Owner/operator country: Not reported  
Owner/operator telephone: 913-682-9201  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Municipal  
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

Historical Generators:

Date form received by agency: 06/03/1987

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEAVENWORTH MUNICIPAL GARAGE AREA 2 (Continued)**

**1015734058**

Site name: LEAVENWORTH CITY OF GARAGE  
Classification: Small Quantity Generator

Hazardous Waste Summary:

- . Waste code: D001
- . Waste name: IGNITABLE WASTE
  
- . Waste code: D018
- . Waste name: BENZENE
  
- . Waste code: D039
- . Waste name: TETRACHLOROETHYLENE
  
- . Waste code: F005
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations:

Regulation violated: SS - KSA 64-3441  
Area of violation: Generators - General  
Date violation determined: 09/24/1991  
Date achieved compliance: 04/24/1992  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 02/18/1992  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SS - KAR 64-3441  
Area of violation: Generators - General  
Date violation determined: 09/24/1991  
Date achieved compliance: 04/24/1992  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 09/26/1991  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - KAR 28-34-4(C)(1)  
Area of violation: Generators - General  
Date violation determined: 09/24/1991  
Date achieved compliance: 04/24/1992



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEAVENWORTH MUNICIPAL GARAGE AREA 2 (Continued)**

**1015734058**

Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 09/26/1991  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - KAR 28-24-4(C)(1)  
Area of violation: Generators - General  
Date violation determined: 09/24/1991  
Date achieved compliance: 04/24/1992  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 02/18/1992  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:  
Evaluation date: 04/24/1992  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 02/18/1992  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: Generators - General  
Date achieved compliance: 04/24/1992  
Evaluation lead agency: State

Evaluation date: 09/24/1991  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 04/24/1992  
Evaluation lead agency: State

3  
SE  
< 1/8  
0.012 mi.  
61 ft.

**CITY GARAGE  
3RD & MARION (2101 S 3RD?)  
LEAVENWORTH, KS 66048**

**KS LUST S102688649  
N/A**

**Relative:  
Lower  
Actual:  
764 ft.**

LUST:  
Facility ID: 08286  
**Site Status: Closed**  
Release Date: Not reported  
Initial Report Date: 02/22/1991  
Project Number: U4-052-00868  
Project Name: Leavenworth, Garage  
Legal Desc Section: 36  
Legal Desc Township: 09S

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CITY GARAGE (Continued)**

**S102688649**

Legal Desc Range:	22E
Discover Date:	Not reported
substrels:	Not reported
Initial Ranking:	Not reported
Current Ranking:	Not reported
Facility Contact:	Bob Patzwald
Facility Phone Number:	913-682-0650
Facility Owner Identification number:	08626
Facility Owner:	Leavenworth, City Of
Owner Contact Person:	Not reported
Owner Address:	100 N 5th St
Owner City:	Leavenworth
Owner State:	KS
Owner Zip Code:	66048
Owner Phone number:	Not reported
Contractor license number:	Not reported
Contractor phone number:	816-921-5032
Leak duration (if known):	Not reported
Quantity released (if known):	Not reported
Quantity recorded:	Not reported
Leak Type:	Not reported
Reported By:	Not reported
Reported by persons phone number:	Not reported
Reported by person address:	Not reported
Ground water Impacted (yes/no):	Not reported
Static groundwater level:	Not reported
Groundwater flow direction:	Not reported
District staff names:	Not reported
Assessment of release:	they removed one 6000 gallon fuel oil no 2 ust, the tank was not leaking, and no contamination surrounding the tank.
Contamination assesement:	Not reported
Extent of contamination impact:	none
Updated information:	Not reported
Invoice initiated:	19912
Invoice on going:	Not reported
Invoice completetd:	19912
Release confirmed:	Not reported
Emergency contact:	Not reported
Enforcement action:	Not reported
Cost recovery:	Not reported
Cost recovery initiated:	Not reported
Cost recovery initiated by:	Not reported
Cost recovery completed:	Not reported
Cost recovery completed by:	Not reported
Application to trust fund:	Not reported
Facility ID:	08286
<b>Site Status:</b>	<b>Closed</b>
Release Date:	Not reported
Initial Report Date:	11/04/1992
Project Number:	U4-052-00868
Project Name:	Leavenworth, Garage
Legal Desc Section:	36
Legal Desc Township:	09S
Legal Desc Range:	22E
Discover Date:	Not reported
substrels:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CITY GARAGE (Continued)**

**S102688649**

Initial Ranking:	Not reported
Current Ranking:	Not reported
Facility Contact:	Bob Paswald
Facility Phone Number:	Not reported
Facility Owner Identification number:	08286
Facility Owner:	City Of Leavenworth
Owner Contact Person:	Not reported
Owner Address:	100 N 5th St
Owner City:	Leavenworth
Owner State:	KS
Owner Zip Code:	Not reported
Owner Phone number:	Not reported
Contractor license number:	Not reported
Contractor phone number:	Not reported
Leak duration (if known):	Not reported
Quantity released (if known):	Not reported
Quantity recorded:	Not reported
Leak Type:	Not reported
Reported By:	Not reported
Reported by persons phone number:	Not reported
Reported by person address:	Not reported
Ground water Impacted (yes/no):	clay, no groundwater enter excavation.
Static groundwater level:	Not reported
Groundwater flow direction:	Not reported
District staff names:	Not reported
Assessment of release:	1-300 gal waste oil ust & lines removed. no contaminated soil found at this time.
Contamination assessement:	Not reported
Extent of contamination impact:	unknown at this time.
Updated information:	Not reported
Invoice initiated:	19931
Invoice on going:	Not reported
Invoice completetd:	19931
Release confirmed:	Not reported
Emergency contact:	Not reported
Enforcement action:	Not reported
Cost recovery:	Not reported
Cost recovery initiated:	Not reported
Cost recovery initiated by:	Not reported
Cost recovery completed:	Not reported
Cost recovery completed by:	Not reported
Application to trust fund:	Not reported

**B4**  
**West**  
 < 1/8  
 0.022 mi.  
 117 ft.

**CASEY'S GENERAL STORE - #2826**  
**2100 S. 4TH STREET**  
**LEAVENWORTH, KS 66048**

**KS UST**    **U004139766**  
**KS Financial Assurance**    **N/A**

**Site 1 of 2 in cluster B**

**Relative:**  
**Higher**  
**Actual:**  
**795 ft.**

UST:  
 Facility ID: 30435  
 Facility 911 Address: 2100 S. 4TH STREET  
 Facility 911 City: LEAVENWORTH  
 Facility 911 State: KS  
 Facility 911 Zip: 66048  
 Date Removed: Not reported  
 Capacity (Gals): 20000  
 Tank Internal Protection: None

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CASEY'S GENERAL STORE - #2826 (Continued)**

**U004139766**

24 Hour Phone Num: 515-965-6238  
Tank External Protection: Fbr Ref Plstc Coat  
Piping: Double Wall, Nonmetallic  
Facility Location Method: Not reported  
Facility Feature: Not reported  
Facility Phone: 913-651-1303  
Tank Empty: Not reported  
Contact Name: JILL-REAMS-WIDDER  
Contact Title: CONTACT PERSON  
Owner ID: 06884  
Owner Type: Current  
Owner Name: CASEY'S RETAIL COMPANY  
Owner Address: PO BOX 3004, ONE CONVENIENCE BLVD  
Owner City: ANKENY  
Owner State: IA  
Owner Zip: 50021  
Owner County: POLK  
Owner Phone: 515-965-6100  
QTY Remaining in Tank: Not reported  
Facility District: NE  
Tank ID: 001  
Tank Status: Current In Use  
Installation Year: 2009  
Last Permit Printed: 2017-06-12 00:00:00  
Current Permit Printed: 2018-06-07 00:00:00  
Facility Datum: Not reported  
Out of service Mo/Yr: Not reported  
Material of Construction: Fbr Ref Plastic, Double Wall  
Petroleum Substance: Gas Unleaded Regular  
Owner Replacement Name: JILL REAMS-WIDDER  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Fire, Chronic, Acute  
Principal CERCLA Substance/Chem Abstract Service Num: 8006-61-9  
Latitude: Not reported  
Longitude: Not reported

Facility ID: 30435  
Facility 911 Address: 2100 S. 4TH STREET  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: Not reported  
Capacity (Gals): 12000  
Tank Internal Protection: None  
24 Hour Phone Num: 515-965-6238  
Tank External Protection: Fbr Ref Plstc Coat  
Piping: Double Wall, Nonmetallic  
Facility Location Method: Not reported  
Facility Feature: Not reported  
Facility Phone: 913-651-1303  
Tank Empty: Not reported  
Contact Name: JILL-REAMS-WIDDER  
Contact Title: CONTACT PERSON  
Owner ID: 06884  
Owner Type: Current  
Owner Name: CASEY'S RETAIL COMPANY

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CASEY'S GENERAL STORE - #2826 (Continued)**

**U004139766**

Owner Address: PO BOX 3004, ONE CONVENIENCE BLVD  
Owner City: ANKENY  
Owner State: IA  
Owner Zip: 50021  
Owner County: POLK  
Owner Phone: 515-965-6100  
QTY Remaining in Tank: Not reported  
Facility District: NE  
Tank ID: 002  
Tank Status: Current In Use  
Installation Year: 2009  
Last Permit Printed: 2017-06-12 00:00:00  
Current Permit Printed: 2018-06-07 00:00:00  
Facility Datum: Not reported  
Out of service Mo/Yr: Not reported  
Material of Construction: Fbr Ref Plastic, Double Wall  
Petroleum Substance: Gas Unleaded Premium  
Owner Replacement Name: JILL REAMS-WIDDER  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Fire, Chronic, Acute  
Principal CERCLA Substance/Chem Abstract Service Num: 8006-61-9  
Latitude: Not reported  
Longitude: Not reported

Facility ID: 30435  
Facility 911 Address: 2100 S. 4TH STREET  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: Not reported  
Capacity (Gals): 8000  
Tank Internal Protection: None  
24 Hour Phone Num: 515-965-6238  
Tank External Protection: Fbr Ref Plstc Coat  
Piping: Double Wall, Nonmetallic  
Facility Location Method: Not reported  
Facility Feature: Not reported  
Facility Phone: 913-651-1303  
Tank Empty: Not reported  
Contact Name: JILL-REAMS-WIDDER  
Contact Title: CONTACT PERSON  
Owner ID: 06884  
Owner Type: Current  
Owner Name: CASEY'S RETAIL COMPANY  
Owner Address: PO BOX 3004, ONE CONVENIENCE BLVD  
Owner City: ANKENY  
Owner State: IA  
Owner Zip: 50021  
Owner County: POLK  
Owner Phone: 515-965-6100  
QTY Remaining in Tank: Not reported  
Facility District: NE  
Tank ID: 003  
Tank Status: Current In Use  
Installation Year: 2009  
Last Permit Printed: 2017-06-12 00:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CASEY'S GENERAL STORE - #2826 (Continued)**

**U004139766**

Current Permit Printed: 2018-06-07 00:00:00  
Facility Datum: Not reported  
Out of service Mo/Yr: Not reported  
Material of Construction: Fbr Ref Plastic, Double Wall  
Petroleum Substance: Diesel Clear  
Owner Replacement Name: JILL REAMS-WIDDER  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Fire, Chronic, Acute  
Principal CERCLA Substance/Chem Abstract Service Num: 68476-34-6  
Latitude: Not reported  
Longitude: Not reported

KS Financial Assurance:

Facility ID: 30435  
Financial Responsibility: Self Insured

Facility ID: 30435  
Financial Responsibility: Self Insured

Facility ID: 30435  
Financial Responsibility: Self Insured

**B5**  
**West**  
**< 1/8**  
**0.022 mi.**  
**117 ft.**

**CASEYS GENERAL STORES INC**  
**2100 S 4TH ST**  
**LEAVENWORTH, KS 66048**

**EDR Hist Auto 1020212173**  
**N/A**

**Site 2 of 2 in cluster B**

**Relative:**  
**Higher**

EDR Hist Auto

**Actual:**  
**795 ft.**

Year:	Name:	Type:
2012	CASEYS GENERAL STORES INC	Gasoline Service Stations
2013	CASEYS GENERAL STORES INC	Gasoline Service Stations
2014	CASEYS GENERAL STORES INC	Gasoline Service Stations

**6**  
**SW**  
**< 1/8**  
**0.024 mi.**  
**128 ft.**

**ADVANCE AUTOMOTIVE**  
**319 MARIAN**  
**LEAVENWORTH, KS 66048**

**RCRA-CESQG 1000908012**  
**FINDS KS0000792291**  
**ECHO**

**Relative:**  
**Higher**

RCRA-CESQG:

Date form received by agency: 11/01/2017  
Facility name: ADVANCE AUTOMOTIVE  
Facility address: 319 MARIAN  
LEAVENWORTH, KS 66048  
EPA ID: KS0000792291  
Contact: RICK SAMMONS  
Contact address: 319 MARIAN  
LEAVENWORTH, KS 66048  
Contact country: US  
Contact telephone: 913-651-2079  
Contact email: ADVANCEREPAIR@YAHOO.COM  
EPA Region: 07  
Land type: Private

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ADVANCE AUTOMOTIVE (Continued)**

**1000908012**

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: RICK SAMMONS  
Owner/operator address: Not reported  
KS  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 05/01/2003  
Owner/Op end date: Not reported

Owner/operator name: RICK SAMMONS  
Owner/operator address: 319 MARIAN  
LEAVENWORTH, KS 66048  
Owner/operator country: Not reported  
Owner/operator telephone: 913-651-2079  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: RICK SAMMONS  
Owner/operator address: Not reported  
KS  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 05/01/2003  
Owner/Op end date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ADVANCE AUTOMOTIVE (Continued)**

**1000908012**

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

Historical Generators:

Date form received by agency: 02/06/2017  
Site name: ADVANCE AUTOMOTIVE  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/04/2016  
Site name: ADVANCE AUTOMOTIVE  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/04/2015  
Site name: ADVANCE AUTOMOTIVE  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/11/2014  
Site name: ADVANCE AUTOMOTIVE  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 01/23/2013  
Site name: ADVANCE AUTOMOTIVE  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 01/13/2012  
Site name: ADVANCE AUTOMOTIVE  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 01/14/2011  
Site name: ADVANCE AUTOMOTIVE  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 01/12/2010  
Site name: ADVANCE AUTOMOTIVE  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 01/21/2009  
Site name: ADVANCE AUTOMOTIVE  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 01/22/2008  
Site name: ADVANCE AUTOMOTIVE



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ADVANCE AUTOMOTIVE (Continued)**

**1000908012**

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 01/22/2007

Site name: ADVANCE AUTOMOTIVE

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 03/14/2006

Site name: ADVANCE AUTOMOTIVE

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 08/03/2005

Site name: ADVANCE AUTOMOTIVE

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 05/14/2003

Site name: ADVANCE AUTOMOTIVE

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 09/19/1994

Site name: ADVANCE AUTOMOTIVE

Classification: Small Quantity Generator

**Hazardous Waste Summary:**

. Waste code: D001  
. Waste name: IGNITABLE WASTE

. Waste code: D018  
. Waste name: BENZENE

. Waste code: D039  
. Waste name: TETRACHLOROETHYLENE

Violation Status: No violations found

**Evaluation Action Summary:**

Evaluation date: 11/01/2017  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

**FINDS:**

Registry ID: 110003143410

**Environmental Interest/Information System**

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.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ADVANCE AUTOMOTIVE (Continued)**

**1000908012**

ECHO:

Envid: 1000908012  
Registry ID: 110003143410  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110003143410>

7  
ESE  
< 1/8  
0.074 mi.  
392 ft.

**CENTURY VAN LINES INC**  
**211 MARION**  
**LEAVENWORTH, KS 66048**

**RCRA-CESQG** **1000618266**  
**KS LUST** **KSD984993535**  
**KS UST**  
**FINDS**  
**ECHO**  
**KS Financial Assurance**

Relative:  
Higher

RCRA-CESQG:

Actual:  
794 ft.

Date form received by agency: 04/01/2003  
Facility name: CENTURY VAN LINES INC  
Facility address: 211 MARION  
LEAVENWORTH, KS 66048  
EPA ID: KSD984993535  
Mailing address: MARION  
LEAVENWORTH, KS 66048  
Contact: TERRY SCHMIT  
Contact address: 211 MARION  
LEAVENWORTH, KS 66048  
Contact country: US  
Contact telephone: 913-651-3600  
Contact email: Not reported  
EPA Region: 07  
Classification: Conditionally Exempt Small Quantity Generator  
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: TERRY SCHMIT  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 03/28/2003  
Owner/Op end date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CENTURY VAN LINES INC (Continued)**

**1000618266**

Owner/operator name: TERRY SCHMIT  
Owner/operator address: Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 03/28/2003  
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  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 09/11/1991  
Site name: CENTURY VAN LINES INC  
Classification: Small Quantity Generator

Hazardous Waste Summary:

. Waste code: D001  
. Waste name: IGNITABLE WASTE  
  
. Waste code: D018  
. Waste name: BENZENE  
  
. Waste code: D039  
. Waste name: TETRACHLOROETHYLENE

Violation Status: No violations found

LUST:

Facility ID: 26223  
**Site Status: Closed**  
Release Date: Not reported  
Initial Report Date: 06/05/2012  
Project Number: U4-052-14479  
Project Name: Century Van Lines  
Legal Desc Section: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CENTURY VAN LINES INC (Continued)**

**1000618266**

Legal Desc Township:	Not reported
Legal Desc Range:	Not reported
Discover Date:	Not reported
substrels:	Not reported
Initial Ranking:	Not reported
Current Ranking:	Not reported
Facility Contact:	Terry Schmidt
Facility Phone Number:	913-651-3600
Facility Owner Identification number:	26223
Facility Owner:	SCHMIDT, TERRY L
Owner Contact Person:	Terry L Schmidt
Owner Address:	211 MARION
Owner City:	LEAVENWORTH
Owner State:	KS
Owner Zip Code:	66048
Owner Phone number:	913-651-3600
Contractor license number:	C0051
Contractor phone number:	913-438-1500
Leak duration (if known):	Not reported
Quantity released (if known):	Not reported
Quantity recorded:	Not reported
Leak Type:	Not reported
Reported By:	No release observed.
Reported by persons phone number:	Not reported
Reported by person address:	Not reported
Ground water Impacted (yes/no):	Silty clay grading into shale.
Static groundwater level:	Not reported
Groundwater flow direction:	Eas
District staff names:	Tom Winn
Assessment of release:	No leak observed.
Contamination assesement:	Yes.
Extent of contamination impact:	No groundwater encountered.
Updated information:	1 - 4,000 gallon diesel and 1 - 4,000 gallon gasoline USTs removed. No indication of releases observed during removal activities. Recent cathodic protection assessment indicates non detectible concentrations around tank basin. No additional action wil
Invoice initiated:	20123
Invoice on going:	Not reported
Invoice completetd:	20123
Release confirmed:	Not reported
Emergency contact:	Not reported
Enforcement action:	Not reported
Cost recovery:	Not reported
Cost recovery initiated:	Not reported
Cost recovery initiated by:	Not reported
Cost recovery completed:	Not reported
Cost recovery completed by:	Not reported
Application to trust fund:	Not reported

**UST:**

Facility ID:	26223
Facility 911 Address:	211 MARION
Facility 911 City:	LEAVENWORTH
Facility 911 State:	KS
Facility 911 Zip:	66048
Date Removed:	2012-06-05 00:00:00
Capacity (Gals):	4000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CENTURY VAN LINES INC (Continued)**

**1000618266**

Tank Internal Protection:	None
24 Hour Phone Num:	615-500-1743
Tank External Protection:	Painted
Piping:	Galv Steel
Facility Location Method:	GARMIN 3 PLUS
Facility Feature:	Facility Center
Facility Phone:	913-651-3600
Tank Empty:	Not reported
Contact Name:	JEFF KLEMP
Contact Title:	CONTACT PERSON
Owner ID:	26223
Owner Type:	Private Or Corp.
Owner Name:	SCHMIDT, TERRY L
Owner Address:	211 MARION
Owner City:	LEAVENWORTH
Owner State:	KS
Owner Zip:	66048
Owner County:	LEAVENWORTH
Owner Phone:	913-651-3600
QTY Remaining in Tank:	Not reported
Facility District:	NE
Tank ID:	001
Tank Status:	Permanently Out Of Use
Installation Year:	1979
Last Permit Printed:	2006-06-14 00:00:00
Current Permit Printed:	Not reported
Facility Datum:	WGS84
Out of service Mo/Yr:	06/05/
Material of Construction:	Steel
Petroleum Substance:	Diesel
Owner Replacement Name:	Terry L Schmidt
NonPetroleum Substance:	Not reported
Owner Replacement Title:	Not reported
Hazards:	Fire, Chronic, Acute
Principal CERCLA Substance/Chem Abstract Service Num:	68476-34-6
Latitude:	39.29476
Longitude:	-94.90517
Facility ID:	26223
Facility 911 Address:	211 MARION
Facility 911 City:	LEAVENWORTH
Facility 911 State:	KS
Facility 911 Zip:	66048
Date Removed:	2012-06-05 00:00:00
Capacity (Gals):	4000
Tank Internal Protection:	None
24 Hour Phone Num:	615-500-1743
Tank External Protection:	Painted
Piping:	Galv Steel
Facility Location Method:	GARMIN 3 PLUS
Facility Feature:	Facility Center
Facility Phone:	913-651-3600
Tank Empty:	Not reported
Contact Name:	JEFF KLEMP
Contact Title:	CONTACT PERSON
Owner ID:	26223
Owner Type:	Private Or Corp.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CENTURY VAN LINES INC (Continued)**

**1000618266**

Owner Name: SCHMIDT, TERRY L  
Owner Address: 211 MARION  
Owner City: LEAVENWORTH  
Owner State: KS  
Owner Zip: 66048  
Owner County: LEAVENWORTH  
Owner Phone: 913-651-3600  
QTY Remaining in Tank: Not reported  
Facility District: NE  
Tank ID: 002  
Tank Status: Permanently Out Of Use  
Installation Year: 1979  
Last Permit Printed: 2006-06-14 00:00:00  
Current Permit Printed: Not reported  
Facility Datum: WGS84  
Out of service Mo/Yr: 06/05/  
Material of Construction: Steel  
Petroleum Substance: Gas Unleaded Regular  
Owner Replacement Name: Terry L Schmidt  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Fire, Chronic, Acute  
Principal CERCLA Substance/Chem Abstract Service Num: 8006-61-9  
Latitude: 39.29476  
Longitude: -94.90517

**FINDS:**

Registry ID: 110003192606

**Environmental Interest/Information System**

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

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.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**ECHO:**

Envid: 1000618266  
Registry ID: 110003192606  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110003192606>

**KS Financial Assurance:**

Facility ID: 26223

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CENTURY VAN LINES INC (Continued)**

**1000618266**

Financial Responsibility: 3rd Party Liability Insurance  
Facility ID: 26223  
Financial Responsibility: 3rd Party Liability Insurance

**8  
NNW  
< 1/8  
0.077 mi.  
406 ft.**

**GREAT WESTERN MFG CO INC  
2017 S 4TH  
LEAVENWORTH, KS 66048**

**RCRA-SQG 1000158717  
US AIRS KSD007136872**

**Relative:  
Higher  
Actual:  
784 ft.**

RCRA-SQG:  
Date form received by agency: 03/12/2018  
Facility name: GREAT WESTERN MFG CO INC  
Facility address: 2017 S 4TH  
LEAVENWORTH, KS 66048  
EPA ID: KSD007136872  
Mailing address: PO BOX 149  
LEAVENWORTH, KS 66048  
Contact: DOUG PRICE  
Contact address: PO BOX 149  
LEAVENWORTH, KS 66048  
Contact country: US  
Contact telephone: 913-682-2291  
Contact email: DPRICE@GWMFG.COM  
EPA Region: 07  
Land type: Private  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:  
Owner/operator name: JAMES C SCHROEDER  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 01/28/2003  
Owner/Op end date: Not reported

Owner/operator name: JAMES C SCHROEDER  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GREAT WESTERN MFG CO INC (Continued)**

**1000158717**

Owner/Operator Type: Owner  
Owner/Op start date: 01/28/2003  
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  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 05/22/2017  
Site name: GREAT WESTERN MFG CO INC  
Classification: Small Quantity Generator

Date form received by agency: 03/02/2016  
Site name: GREAT WESTERN MFG CO INC  
Classification: Small Quantity Generator

Date form received by agency: 01/26/2015  
Site name: GREAT WESTERN MFG CO INC  
Classification: Small Quantity Generator

Date form received by agency: 03/17/2014  
Site name: GREAT WESTERN MFG CO INC  
Classification: Small Quantity Generator

Date form received by agency: 01/24/2013  
Site name: GREAT WESTERN MFG CO INC  
Classification: Small Quantity Generator

Date form received by agency: 02/01/2012  
Site name: GREAT WESTERN MFG CO INC  
Classification: Small Quantity Generator

Date form received by agency: 01/25/2011  
Site name: GREAT WESTERN MFG CO INC  
Classification: Small Quantity Generator

Date form received by agency: 02/17/2010  
Site name: GREAT WESTERN MFG CO INC  
Classification: Small Quantity Generator

Date form received by agency: 02/19/2009  
Site name: GREAT WESTERN MFG CO INC



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GREAT WESTERN MFG CO INC (Continued)**

**1000158717**

Classification: Small Quantity Generator

Date form received by agency: 03/20/2008

Site name: GREAT WESTERN MFG CO INC

Classification: Small Quantity Generator

Date form received by agency: 03/29/2007

Site name: GREAT WESTERN MFG CO INC

Classification: Small Quantity Generator

Date form received by agency: 03/16/2006

Site name: GREAT WESTERN MFG CO INC

Classification: Small Quantity Generator

Date form received by agency: 02/28/2005

Site name: GREAT WESTERN MFG CO INC

Classification: Small Quantity Generator

Date form received by agency: 01/28/2003

Site name: GREAT WESTERN MFG CO INC

Classification: Small Quantity Generator

Date form received by agency: 10/05/2000

Site name: GREAT WESTERN MFG CO INC

Classification: Small Quantity Generator

Date form received by agency: 02/10/1994

Site name: GREAT WESTERN MANUFACTURING COMPANY INC

Classification: Large Quantity Generator

Date form received by agency: 04/08/1993

Site name: GREAT WESTERN MFG CO INC

Classification: Small Quantity Generator

Hazardous Waste Summary:

. Waste code: D001  
. Waste name: IGNITABLE WASTE

. Waste code: D007  
. Waste name: CHROMIUM

. Waste code: D018  
. Waste name: BENZENE

. Waste code: D035  
. Waste name: METHYL ETHYL KETONE

. Waste code: D039  
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040  
. Waste name: TRICHLOROETHYLENE

. Waste code: F003  
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GREAT WESTERN MFG CO INC (Continued)**

**1000158717**

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005  
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 03/07/2012  
Evaluation: COMPLIANCE ASSISTANCE VISIT  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 08/28/1987  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

US AIRS MINOR:

Envid: 1000158717  
Region Code: 07  
Programmatic ID: AIR KS0000002010300126  
Facility Registry ID: 110001131631  
D and B Number: Not reported  
Primary SIC Code: 3569  
NAICS Code: 333999  
Default Air Classification Code: MIN  
Facility Type of Ownership Code: POF  
Air CMS Category Code: Not reported  
HPV Status: Not reported

US AIRS MINOR:

Envid: 1000158717  
Region Code: 07  
Programmatic ID: AIR KS0000002010300126  
Facility Registry ID: 110001131631  
D and B Number: Not reported  
Primary SIC Code: 3569  
NAICS Code: 333999  
Default Air Classification Code: MIN  
Facility Type of Ownership Code: POF  
Air CMS Category Code: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GREAT WESTERN MFG CO INC (Continued)**

1000158717

HPV Status: Not reported

**C9**  
**NNE**  
**< 1/8**  
**0.118 mi.**  
**624 ft.**

**CITY OF LEAVENWORTH 2ND & LIMIT DUMP (052-2ND-LIM)**

**KS SWF/LF** **S109088805**  
**N/A**

**LEAVENWORTH, KS**

**Site 1 of 2 in cluster C**

**Relative:**  
**Lower**  
**Actual:**  
**775 ft.**

**SWF/LF:**

Facility Status: Closed: post-closure care completed/not required  
Permit Number: Not reported  
Owner Type: City  
Owner Name: City of Leavenworth  
Facility Phone: Not reported  
Permit Type: Construction/Demolition  
Permit Code: D-dump  
Solid Waste Key: Not reported  
Permittee Name: Not reported  
BWM Permit Manager: Not reported  
Past Permit Types: Not reported  
BWM Hydrology Manager: Not reported  
BER Oversight: Construction/Demolition  
BER Project Manager: Not reported  
Special Facility/Waste Types: Not reported  
Industrial Waste Types: Not reported  
District: Not reported  
Hours of Operation: Not reported  
Comments: Not reported  
Directions: Not reported

Facility Status: Closed: post-closure care completed/not required  
Permit Number: Not reported  
Owner Type: City  
Owner Name: City of Leavenworth  
Facility Phone: Not reported  
Permit Type: City Dump  
Permit Code: D-dump  
Solid Waste Key: Not reported  
Permittee Name: Not reported  
BWM Permit Manager: Not reported  
Past Permit Types: Not reported  
BWM Hydrology Manager: Not reported  
BER Oversight: City Dump  
BER Project Manager: Not reported  
Special Facility/Waste Types: Not reported  
Industrial Waste Types: Not reported  
District: Not reported  
Hours of Operation: Not reported  
Comments: Not reported  
Directions: Not reported

Facility Status: Closed: post-closure care completed/not required  
Permit Number: Not reported  
Owner Type: City  
Owner Name: City of Leavenworth  
Facility Phone: Not reported  
Permit Type: Special Landfill  
Permit Code: D-dump

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CITY OF LEAVENWORTH 2ND & LIMIT DUMP (052-2ND-LIM) (Continued)**

**S109088805**

Solid Waste Key: Not reported  
Permittee Name: Not reported  
BWM Permit Manager: Not reported  
Past Permit Types: Not reported  
BWM Hydrology Manager: Not reported  
BER Oversight: Special Landfill  
BER Project Manager: Not reported  
Special Facility/Waste Types: Not reported  
Industrial Waste Types: Not reported  
District: Not reported  
Hours of Operation: Not reported  
Comments: Not reported  
Directions: Not reported

Facility Status: Closed: post-closure care  
Permit Number: 0155  
Owner Type: City  
Owner Name: Not reported  
Facility Phone: Not reported  
Permit Type: Municipal Solid Waste  
Permit Code: S-solid waste  
Solid Waste Key: Not reported  
Permittee Name: City of Leavenworth  
BWM Permit Manager: Not reported  
Past Permit Types: Not reported  
BWM Hydrology Manager: Not reported  
BER Oversight: Municipal Solid Waste  
BER Project Manager: Not reported  
Special Facility/Waste Types: Not reported  
Industrial Waste Types: Not reported  
District: Not reported  
Hours of Operation: N/A, Closed.  
Comments: Not reported  
Directions: Near US-73/K-7 and is north of Gilman Road. The landfill lies south of the Union Pacific Railroad (trending ~South 46 degrees West), and is south of the centerline of 9 Mile Creek. The Landfill is bounded on the east by the K.C.W. and N.W. Railroad (abandoned).

Facility Status: Closed: post-closure care completed/not required  
Permit Number: 0336  
Owner Type: City  
Owner Name: City of Leavenworth  
Facility Phone: Not reported  
Permit Type: Construction/Demolition  
Permit Code: S-solid waste  
Solid Waste Key: Not reported  
Permittee Name: Not reported  
BWM Permit Manager: Not reported  
Past Permit Types: Not reported  
BWM Hydrology Manager: Not reported  
BER Oversight: Not reported  
BER Project Manager: Not reported  
Special Facility/Waste Types: Not reported  
Industrial Waste Types: Not reported  
District: Not reported  
Hours of Operation: Not reported  
Comments: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CITY OF LEAVENWORTH 2ND & LIMIT DUMP (052-2ND-LIM) (Continued)**

**S109088805**

Directions: Not reported

**C10**  
**NNE**  
**< 1/8**  
**0.118 mi.**  
**624 ft.**

**CITY OF LEAVENWORTH OLD CITY LANDFILL (052-LEA#2)**

**KS CITY DUMPS**

**S121828504**  
**N/A**

**LEAVENWORTH (County), KS**

**Site 2 of 2 in cluster C**

**Relative:**  
**Lower**  
**Actual:**  
**775 ft.**

**CITY DUMPS:**  
1st Qtr: Not reported  
2nd Qtr: Not reported  
3rd Qtr: Not reported  
4th Qtr: Not reported  
Section: Not reported  
Township: Not reported  
Range: Not reported  
Latitude: 39.29766  
Longitude: -94.90599

**D11**  
**NNW**  
**< 1/8**  
**0.120 mi.**  
**634 ft.**

**CONOCO**  
**1924 S FOURTH ST**  
**LEAVENWORTH, KS 66048**

**EDR Hist Auto**

**1020973883**  
**N/A**

**Site 1 of 7 in cluster D**

**Relative:**  
**Higher**

**EDR Hist Auto**

**Actual:**  
**808 ft.**

Year:	Name:	Type:
1987	CONOCO	Gasoline Service Stations
1988	CONOCO	Gasoline Service Stations
1989	CONOCO	Gasoline Service Stations
1990	CONOCO	Gasoline Service Stations
1991	CONOCO	Gasoline Service Stations
1992	CONOCO	Gasoline Service Stations
1993	CONOCO	Gasoline Service Stations
1994	CONOCO	Gasoline Service Stations

**D12**  
**NNW**  
**< 1/8**  
**0.120 mi.**  
**634 ft.**

**SACO PETROLEUM**  
**1924 S 4TH**  
**LEAVENWORTH, KS 66048**

**KS UST**

**U000195644**  
**N/A**

**Site 2 of 7 in cluster D**

**Relative:**  
**Higher**

**UST:**

**Actual:**  
**808 ft.**

Facility ID:	06464
Facility 911 Address:	1824 S 4TH
Facility 911 City:	LEAVENWORTH
Facility 911 State:	KS
Facility 911 Zip:	66048
Date Removed:	1990-09-15 00:00:00
Capacity (Gals):	12000
Tank Internal Protection:	None
24 Hour Phone Num:	816-221-0755
Tank External Protection:	None
Piping:	Galv Steel

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SACO PETROLEUM (Continued)**

**U000195644**

Facility Location Method: GARMIN 3 PLUS  
Facility Feature: Facility Center  
Facility Phone: 816-221-0755  
Tank Empty: Not reported  
Contact Name: Kim Suter  
Contact Title: VP  
Owner ID: 02522  
Owner Type: Private Or Corp.  
Owner Name: SACO PETROLEUM INC  
Owner Address: 12836 POLFER RD  
Owner City: KANSAS CITY  
Owner State: KS  
Owner Zip: 66109  
Owner County: CLAY  
Owner Phone: 913-948-6220  
QTY Remaining in Tank: Not reported  
Facility District: NE  
Tank ID: 001  
Tank Status: Permanently Out Of Use  
Installation Year: 1978  
Last Permit Printed: Not reported  
Current Permit Printed: Not reported  
Facility Datum: WGS84  
Out of service Mo/Yr: 091990  
Material of Construction: Steel  
Petroleum Substance: Gas (Incl Alcohol)  
Owner Replacement Name: KEN SUTER  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Fire, Chronic, Acute  
Principal CERCLA Substance/Chem Abstract Service Num: 8006-61-9  
Latitude: 39.29683  
Longitude: -94.90949

Facility ID: 06464  
Facility 911 Address: 1824 S 4TH  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: 1990-09-15 00:00:00  
Capacity (Gals): 3000  
Tank Internal Protection: None  
24 Hour Phone Num: 816-221-0755  
Tank External Protection: None  
Piping: Galv Steel  
Facility Location Method: GARMIN 3 PLUS  
Facility Feature: Facility Center  
Facility Phone: 816-221-0755  
Tank Empty: Not reported  
Contact Name: Kim Suter  
Contact Title: VP  
Owner ID: 02522  
Owner Type: Private Or Corp.  
Owner Name: SACO PETROLEUM INC  
Owner Address: 12836 POLFER RD  
Owner City: KANSAS CITY  
Owner State: KS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SACO PETROLEUM (Continued)**

**U000195644**

Owner Zip: 66109  
Owner County: CLAY  
Owner Phone: 913-948-6220  
QTY Remaining in Tank: Not reported  
Facility District: NE  
Tank ID: 002  
Tank Status: Permanently Out Of Use  
Installation Year: 1966  
Last Permit Printed: Not reported  
Current Permit Printed: Not reported  
Facility Datum: WGS84  
Out of service Mo/Yr: 091990  
Material of Construction: Steel  
Petroleum Substance: Gas (Incl Alcohol)  
Owner Replacement Name: KEN SUTER  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Fire, Chronic, Acute  
Principal CERCLA Substance/Chem Abstract Service Num: 8006-61-9  
Latitude: 39.29683  
Longitude: -94.90949

Facility ID: 06464  
Facility 911 Address: 1824 S 4TH  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: 1990-09-15 00:00:00  
Capacity (Gals): 3000  
Tank Internal Protection: None  
24 Hour Phone Num: 816-221-0755  
Tank External Protection: None  
Piping: Galv Steel  
Facility Location Method: GARMIN 3 PLUS  
Facility Feature: Facility Center  
Facility Phone: 816-221-0755  
Tank Empty: Not reported  
Contact Name: Kim Suter  
Contact Title: VP  
Owner ID: 02522  
Owner Type: Private Or Corp.  
Owner Name: SACO PETROLEUM INC  
Owner Address: 12836 POLFER RD  
Owner City: KANSAS CITY  
Owner State: KS  
Owner Zip: 66109  
Owner County: CLAY  
Owner Phone: 913-948-6220  
QTY Remaining in Tank: Not reported  
Facility District: NE  
Tank ID: 003  
Tank Status: Permanently Out Of Use  
Installation Year: 1966  
Last Permit Printed: Not reported  
Current Permit Printed: Not reported  
Facility Datum: WGS84  
Out of service Mo/Yr: 091990

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SACO PETROLEUM (Continued)**

**U000195644**

Material of Construction: Steel  
Petroleum Substance: Gas (Incl Alcohol)  
Owner Replacement Name: KEN SUTER  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Fire, Chronic, Acute  
Principal CERCLA Substance/Chem Abstract Service Num: 8006-61-9  
Latitude: 39.29683  
Longitude: -94.90949

Facility ID: 06464  
Facility 911 Address: 1824 S 4TH  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: 1990-09-15 00:00:00  
Capacity (Gals): 3000  
Tank Internal Protection: None  
24 Hour Phone Num: 816-221-0755  
Tank External Protection: None  
Piping: Galv Steel  
Facility Location Method: GARMIN 3 PLUS  
Facility Feature: Facility Center  
Facility Phone: 816-221-0755  
Tank Empty: Not reported  
Contact Name: Kim Suter  
Contact Title: VP  
Owner ID: 02522  
Owner Type: Private Or Corp.  
Owner Name: SACO PETROLEUM INC  
Owner Address: 12836 POLFER RD  
Owner City: KANSAS CITY  
Owner State: KS  
Owner Zip: 66109  
Owner County: CLAY  
Owner Phone: 913-948-6220  
QTY Remaining in Tank: Not reported  
Facility District: NE  
Tank ID: 004  
Tank Status: Permanently Out Of Use  
Installation Year: 1966  
Last Permit Printed: Not reported  
Current Permit Printed: Not reported  
Facility Datum: WGS84  
Out of service Mo/Yr: 091990  
Material of Construction: Steel  
Petroleum Substance: Gas (Incl Alcohol)  
Owner Replacement Name: KEN SUTER  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Fire, Chronic, Acute  
Principal CERCLA Substance/Chem Abstract Service Num: 8006-61-9  
Latitude: 39.29683  
Longitude: -94.90949



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**D13**  
**NNW**  
**1/8-1/4**  
**0.144 mi.**  
**758 ft.**

**GNB INCORPORATED**  
**1901 S 4TH ST**  
**LEAVENWORTH, KS 66048**

**Site 3 of 7 in cluster D**

**KS LUST** **U001735780**  
**KS UST** **N/A**

**Relative:**  
**Higher**  
**Actual:**  
**805 ft.**

**LUST:**

Facility ID: 25420  
**Site Status: Closed**  
 Release Date: Not reported  
 Initial Report Date: 04/28/1989  
 Project Number: U4-052-00207  
 Project Name: Gnb Battery  
 Legal Desc Section: 01  
 Legal Desc Township: 09S  
 Legal Desc Range: 22E  
 Discover Date: Not reported  
 substrels: diesel fuel  
 Initial Ranking: Not reported  
 Current Ranking: Not reported  
 Facility Contact: Roger Seibold  
 Facility Phone Number: Not reported  
 Facility Owner Identification number: 23487  
 Facility Owner: Gnb Battery, Inc.  
 Owner Contact Person: Not reported  
 Owner Address: 1901 S. 4th  
 Owner City: Not reported  
 Owner State: KS  
 Owner Zip Code: Not reported  
 Owner Phone number: Not reported  
 Contractor license number: Not reported  
 Contractor phone number: 816-921-5032  
 Leak duration (if known): 0  
 Quantity released (if known): Not reported  
 Quantity recorded: Not reported  
 Leak Type: Tank  
 Reported By: Not reported  
 Reported by persons phone number: Not reported  
 Reported by person address: Not reported  
 Ground water Impacted (yes/no): Not reported  
 Static groundwater level: Not reported  
 Groundwater flow direction: Not reported  
 District staff names: Meredith Roth  
 Assessment of release: excv1:1-1000, 1-2000 gal diesel usts removed. soil surrounding diesel usts had strong diesel odor. contam soil removed & stockpiled until tested & transported to landfill. excv2:1-500 gal gas ust removed.tph=nd, dreger. site closed 4/5/89.

Contamination assesement: tanks removed  
 Extent of contamination impact: unknown  
 Updated information: Not reported  
 Invoice initiated: 19892  
 Invoice on going: Not reported  
 Invoice completetd: 19892  
 Release confirmed: 19892  
 Emergency contact: Not reported  
 Enforcement action: Not reported  
 Cost recovery: Not reported  
 Cost recovery initiated: 19892  
 Cost recovery initiated by: Responsible Party

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GNB INCORPORATED (Continued)**

**U001735780**

Cost recovery completed: 19893  
Cost recovery completed by: Responsible Party  
Application to trust fund: Not reported

UST:

Facility ID: 25420  
Facility 911 Address: 1901 S 4TH  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: 1989-03-15 00:00:00  
Capacity (Gals): 550  
Tank Internal Protection: Unknown  
24 Hour Phone Num: 913-682-1551  
Tank External Protection: Unknown  
Piping: Unknown  
Facility Location Method: GARMIN 3 PLUS  
Facility Feature: Facility Center  
Facility Phone: 913-682-1551  
Tank Empty: Not reported  
Contact Name: Don W Gray  
Contact Title: Plant Manager  
Owner ID: 23487  
Owner Type: Private Or Corp.  
Owner Name: GNB INCORPORATED  
Owner Address: 1110 HIGHWAY 110  
Owner City: MENDOTA HEIGHTS  
Owner State: MN  
Owner Zip: 55118  
Owner County: DAKOTA  
Owner Phone: 612-681-5000  
QTY Remaining in Tank: Not reported  
Facility District: NE  
Tank ID: 001  
Tank Status: Permanently Out Of Use  
Installation Year: 1978  
Last Permit Printed: Not reported  
Current Permit Printed: Not reported  
Facility Datum: WGS84  
Out of service Mo/Yr: 031989  
Material of Construction: Steel  
Petroleum Substance: Gas (Incl Alcohol)  
Owner Replacement Name: E C Milton  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Fire, Chronic, Acute  
Principal CERCLA Substance/Chem Abstract Service Num: 8006-61-9  
Latitude: 39.29897  
Longitude: -94.90871

Facility ID: 25420  
Facility 911 Address: 1901 S 4TH  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: 1989-03-15 00:00:00  
Capacity (Gals): 1000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GNB INCORPORATED (Continued)**

**U001735780**

Tank Internal Protection: Unknown  
24 Hour Phone Num: 913-682-1551  
Tank External Protection: Unknown  
Piping: Unknown  
Facility Location Method: GARMIN 3 PLUS  
Facility Feature: Facility Center  
Facility Phone: 913-682-1551  
Tank Empty: Not reported  
Contact Name: Don W Gray  
Contact Title: Plant Manager  
Owner ID: 23487  
Owner Type: Private Or Corp.  
Owner Name: GNB INCORPORATED  
Owner Address: 1110 HIGHWAY 110  
Owner City: MENDOTA HEIGHTS  
Owner State: MN  
Owner Zip: 55118  
Owner County: DAKOTA  
Owner Phone: 612-681-5000  
QTY Remaining in Tank: Not reported  
Facility District: NE  
Tank ID: 002  
Tank Status: Permanently Out Of Use  
Installation Year: 1961  
Last Permit Printed: Not reported  
Current Permit Printed: Not reported  
Facility Datum: WGS84  
Out of service Mo/Yr: 031989  
Material of Construction: Steel  
Petroleum Substance: Diesel  
Owner Replacement Name: E C Milton  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Not reported  
Principal CERCLA Substance/Chem Abstract Service Num: Not reported  
Latitude: 39.29897  
Longitude: -94.90871

Facility ID: 25420  
Facility 911 Address: 1901 S 4TH  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: 1989-03-15 00:00:00  
Capacity (Gals): 1000  
Tank Internal Protection: Unknown  
24 Hour Phone Num: 913-682-1551  
Tank External Protection: Unknown  
Piping: Unknown  
Facility Location Method: GARMIN 3 PLUS  
Facility Feature: Facility Center  
Facility Phone: 913-682-1551  
Tank Empty: Not reported  
Contact Name: Don W Gray  
Contact Title: Plant Manager  
Owner ID: 23487  
Owner Type: Private Or Corp.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GNB INCORPORATED (Continued)**

**U001735780**

Owner Name: GNB INCORPORATED  
Owner Address: 1110 HIGHWAY 110  
Owner City: MENDOTA HEIGHTS  
Owner State: MN  
Owner Zip: 55118  
Owner County: DAKOTA  
Owner Phone: 612-681-5000  
QTY Remaining in Tank: Not reported  
Facility District: NE  
Tank ID: 003  
Tank Status: Permanently Out Of Use  
Installation Year: 1961  
Last Permit Printed: Not reported  
Current Permit Printed: Not reported  
Facility Datum: WGS84  
Out of service Mo/Yr: 031989  
Material of Construction: Steel  
Petroleum Substance: Diesel  
Owner Replacement Name: E C Milton  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Not reported  
Principal CERCLA Substance/Chem Abstract Service Num: Not reported  
Latitude: 39.29897  
Longitude: -94.90871

Facility ID: 25420  
Facility 911 Address: 1901 S 4TH  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: Not reported  
Capacity (Gals): Not reported  
Tank Internal Protection: Unknown  
24 Hour Phone Num: 913-682-1551  
Tank External Protection: Unknown  
Piping: Unknown  
Facility Location Method: GARMIN 3 PLUS  
Facility Feature: Facility Center  
Facility Phone: 913-682-1551  
Tank Empty: Not reported  
Contact Name: Don W Gray  
Contact Title: Plant Manager  
Owner ID: 23487  
Owner Type: Private Or Corp.  
Owner Name: GNB INCORPORATED  
Owner Address: 1110 HIGHWAY 110  
Owner City: MENDOTA HEIGHTS  
Owner State: MN  
Owner Zip: 55118  
Owner County: DAKOTA  
Owner Phone: 612-681-5000  
QTY Remaining in Tank: Not reported  
Facility District: NE  
Tank ID: 004  
Tank Status: Permanently Out Of Use  
Installation Year: 1900

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**GNB INCORPORATED (Continued)**

**U001735780**

Last Permit Printed: Not reported  
 Current Permit Printed: Not reported  
 Facility Datum: WGS84  
 Out of service Mo/Yr: Not reported  
 Material of Construction: Unknown  
 Petroleum Substance: Empty  
 Owner Replacement Name: E C Milton  
 NonPetroleum Substance: Not reported  
 Owner Replacement Title: Not reported  
 Hazards: Not reported  
 Principal CERCLA Substance/Chem Abstract Service Num: Not reported  
 Latitude: 39.29897  
 Longitude: -94.90871

**D14**  
**NNW**  
**1/8-1/4**  
**0.164 mi.**  
**866 ft.**

**TIRE TOWN, INC.**  
**1850 S. 4TH STREET**  
**LEAVENWORTH, KS 66048**

**KS SWF/LF S123268930**  
**N/A**

**Site 4 of 7 in cluster D**

**Relative:**  
**Higher**  
**Actual:**  
**817 ft.**

SWF/LF:  
 Facility Status: Active  
 Permit Number: 2142  
 Owner Type: Privately Owned  
 Owner Name: Tire Town, Inc.  
 Facility Phone: 913-682-3201  
 Permit Type: Tire Processing Facility  
 Permit Code: T-tire  
 Solid Waste Key: Not reported  
 Permittee Name: Tire Town, Inc.  
 BWM Permit Manager: Not reported  
 Past Permit Types: Not reported  
 BWM Hydrology Manager: Not reported  
 BER Oversight: Not reported  
 BER Project Manager: Not reported  
 Special Facility/Waste Types: Not reported  
 Industrial Waste Types: Not reported  
 District: Not reported  
 Hours of Operation: 8-5 M-S  
 Comments: Not reported  
 Directions: South edge of Leavenworth on K-7

**D15**  
**NNW**  
**1/8-1/4**  
**0.164 mi.**  
**866 ft.**

**TIRE TOWN, INC.**  
**1850 S. 4TH ST.**  
**LEAVENWORTH, KS 66048**

**KS SWF/LF S123268929**  
**N/A**

**Site 5 of 7 in cluster D**

**Relative:**  
**Higher**  
**Actual:**  
**817 ft.**

SWF/LF:  
 Facility Status: Active  
 Permit Number: 2000  
 Owner Type: Privately Owned  
 Owner Name: Duane Becker  
 Facility Phone: Not reported  
 Permit Type: Tire Transporter  
 Permit Code: T-tire

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**TIRE TOWN, INC. (Continued)**

**S123268929**

Solid Waste Key: Not reported  
 Permittee Name: Not reported  
 BWM Permit Manager: Not reported  
 Past Permit Types: Tire Processing Facility  
 BWM Hydrology Manager: Not reported  
 BER Oversight: Not reported  
 BER Project Manager: Not reported  
 Special Facility/Waste Types: Not reported  
 Industrial Waste Types: Not reported  
 District: Not reported  
 Hours of Operation: Not reported  
 Comments: Not reported  
 Directions: Not reported

**D16**  
**NNW**  
**1/8-1/4**  
**0.169 mi.**  
**892 ft.**

**SACO SERVICE STATION**  
**1824 S 4TH**  
**LEAVENWORTH, KS**  
**Site 6 of 7 in cluster D**

**KS LUST** **S101835276**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**820 ft.**

**LUST:**  
 Facility ID: 06464  
**Site Status: Closed**  
 Release Date: Not reported  
 Initial Report Date: 09/04/1990  
 Project Number: U4-052-00638  
 Project Name: Saco Service  
 Legal Desc Section: 36  
 Legal Desc Township: 08S  
 Legal Desc Range: 22E  
 Discover Date: 09/04/1990  
 substrels: gasoline  
 Initial Ranking: Not reported  
 Current Ranking: Not reported  
 Facility Contact: Kenny Suter  
 Facility Phone Number: Not reported  
 Facility Owner Identification number: 02522  
 Facility Owner: Not reported  
 Owner Contact Person: Not reported  
 Owner Address: Not reported  
 Owner City: Not reported  
 Owner State: Not reported  
 Owner Zip Code: Not reported  
 Owner Phone number: Not reported  
 Contractor license number: Not reported  
 Contractor phone number: 785-727-3240  
 Leak duration (if known): Not reported  
 Quantity released (if known): Not reported  
 Quantity recorded: Not reported  
 Leak Type: Piping  
 Reported By: Not reported  
 Reported by persons phone number: Not reported  
 Reported by person address: Not reported  
 Ground water Impacted (yes/no): Not reported  
 Static groundwater level: Not reported  
 Groundwater flow direction: Not reported  
 District staff names: Not reported  
 Assessment of release: They remove three 3,000 gallon and one 12,000 gallon USTs. They

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SACO SERVICE STATION (Continued)**

**S101835276**

transported 100 yards of soil to Ottawa Co. landfill and 350 yards were land farmed.

Contamination assesement:	Not reported
Extent of contamination impact:	none
Updated information:	Not reported
Invoice initiated:	19904
Invoice on going:	Not reported
Invoice completeted:	19904
Release confirmed:	19904
Emergency contact:	Not reported
Enforcement action:	Not reported
Cost recovery:	Not reported
Cost recovery initiated:	19904
Cost recovery initiated by:	Responsible Party
Cost recovery completed:	19904
Cost recovery completed by:	Responsible Party
Application to trust fund:	Not reported

**D17  
NNW  
1/8-1/4  
0.169 mi.  
892 ft.**

**O'REILLY AUTO PARTS STORE 146  
1824 SOUTH FOURTH STREET  
LEAVENWORTH, KS 66048**

**RCRA-CESQG 1018274901  
FINDS KSR547338623  
ECHO**

**Site 7 of 7 in cluster D**

**Relative:  
Higher**

RCRA-CESQG:

**Actual:  
820 ft.**

Date form received by agency: 03/06/2017

Facility name:	O'REILLY AUTO PARTS STORE 146
Facility address:	1824 SOUTH FOURTH STREET LEAVENWORTH, KS 66048
EPA ID:	KSR547338623
Mailing address:	233 S PATTERSON AVE SPRINGFIELD, MO 65802
Contact:	JOHN BOUNDS
Contact address:	Not reported
Contact country:	Not reported
Contact telephone:	417-520-4589
Contact email:	JBOUNDS2@OREILLYAUTO.COM
EPA Region:	07
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: O'REILLY AUTO ENTERPRISES LLC

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**O'REILLY AUTO PARTS STORE 146 (Continued)**

**1018274901**

Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 01/01/1993  
Owner/Op end date: Not reported

Owner/operator name: JOHN BOUNDS  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 01/01/1993  
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

Historical Generators:

Date form received by agency: 01/20/2017  
Site name: O'REILLY AUTO PARTS STORE 146  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 04/11/2016  
Site name: O'REILLY AUTO PARTS STORE 146  
Classification: Small Quantity Generator

Hazardous Waste Summary:

. Waste code: D001  
. Waste name: IGNITABLE WASTE



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**O'REILLY AUTO PARTS STORE 146 (Continued)**

**1018274901**

- . Waste code: D035
- . Waste name: METHYL ETHYL KETONE
  
- . Waste code: F001
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F002
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
  
- . Waste code: F005
- . Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

**FINDS:**

Registry ID: 110067679612

**Environmental Interest/Information System**

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

**O'REILLY AUTO PARTS STORE 146 (Continued)**

**1018274901**

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1018274901  
Registry ID: 110067679612  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110067679612>

**E18  
NE  
1/8-1/4  
0.175 mi.  
925 ft.**

**LEAVENWORTH ASPHALT MATERIALS,  
1901 S. 2ND ST.  
LEAVENWORTH, KS 66048**

**KS AST A100336146  
N/A**

**Site 1 of 2 in cluster E**

**Relative:  
Higher  
Actual:  
785 ft.**

AST:  
Facility ID: 44703  
Facility 911 Address: 1901 S. 2ND ST.  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: Not reported  
Capacity (Gals): 12000  
Tank Internal Protection: Not reported  
24 Hour Phone Num: Not reported  
Tank External Protection: Painted  
Piping: Bare Steel  
Facility Location Method: Not reported  
Facility Feature: Not reported  
Facility Phone: 913-682-1917  
Tank Empty: Not reported  
Contact Name: GREG KAAZ  
Contact Title: Not reported  
Owner ID: 44703  
Owner Type: Private Or Corp.  
Owner Name: LEAVENWORTH ASPHALT MATERIALS,  
Owner Address: 5037 S 4TH ST  
Owner City: LEAVENWORTH  
Owner State: KS  
Owner Zip: 66048-5030  
Owner County: 052  
Owner Phone: 913-682-1917  
QTY Remaining in Tank: Not reported  
Facility District: NE  
Tank ID: 001  
Tank Status: Current In Use  
Installation Year: 2008  
Last Permit Printed: 2017-06-12 00:00:00  
Current Permit Printed: 2018-06-11 00:00:00  
Facility Datum: Not reported  
Out of service Mo/Yr: Not reported  
Material of Construction: Not reported  
Petroleum Substance: Used Oil  
Owner Replacement Name: GREG KAAZ  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Fire, Chronic

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEAVENWORTH ASPHALT MATERIALS, (Continued)**

**A100336146**

Principal CERCLA Substance/Chem Abstract Service Num: 68334-30-5  
Latitude: Not reported  
Longitude: Not reported

Facility ID: 44703  
Facility 911 Address: 1901 S. 2ND ST.  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: Not reported  
Capacity (Gals): 10000  
Tank Internal Protection: Not reported  
24 Hour Phone Num: Not reported  
Tank External Protection: Painted  
Piping: Bare Steel  
Facility Location Method: Not reported  
Facility Feature: Not reported  
Facility Phone: 913-682-1917  
Tank Empty: Not reported  
Contact Name: GREG KAAZ  
Contact Title: Not reported  
Owner ID: 44703  
Owner Type: Private Or Corp.  
Owner Name: LEAVENWORTH ASPHALT MATERIALS,  
Owner Address: 5037 S 4TH ST  
Owner City: LEAVENWORTH  
Owner State: KS  
Owner Zip: 66048-5030  
Owner County: 052  
Owner Phone: 913-682-1917  
QTY Remaining in Tank: Not reported  
Facility District: NE  
Tank ID: 002  
Tank Status: Current In Use  
Installation Year: 2008  
Last Permit Printed: 2017-06-12 00:00:00  
Current Permit Printed: 2018-06-11 00:00:00  
Facility Datum: Not reported  
Out of service Mo/Yr: Not reported  
Material of Construction: Not reported  
Petroleum Substance: Used Oil  
Owner Replacement Name: GREG KAAZ  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Fire, Chronic  
Principal CERCLA Substance/Chem Abstract Service Num: 68334-30-5  
Latitude: Not reported  
Longitude: Not reported

Facility ID: 44703  
Facility 911 Address: 1901 S. 2ND ST.  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: Not reported  
Capacity (Gals): 10000  
Tank Internal Protection: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEAVENWORTH ASPHALT MATERIALS, (Continued)**

**A100336146**

24 Hour Phone Num:	Not reported
Tank External Protection:	Painted
Piping:	Bare Steel
Facility Location Method:	Not reported
Facility Feature:	Not reported
Facility Phone:	913-682-1917
Tank Empty:	Not reported
Contact Name:	GREG KAAZ
Contact Title:	Not reported
Owner ID:	44703
Owner Type:	Private Or Corp.
Owner Name:	LEAVENWORTH ASPHALT MATERIALS,
Owner Address:	5037 S 4TH ST
Owner City:	LEAVENWORTH
Owner State:	KS
Owner Zip:	66048-5030
Owner County:	052
Owner Phone:	913-682-1917
QTY Remaining in Tank:	Not reported
Facility District:	NE
Tank ID:	003
Tank Status:	Current In Use
Installation Year:	2008
Last Permit Printed:	2017-06-12 00:00:00
Current Permit Printed:	2018-06-11 00:00:00
Facility Datum:	Not reported
Out of service Mo/Yr:	Not reported
Material of Construction:	Not reported
Petroleum Substance:	Used Oil
Owner Replacement Name:	GREG KAAZ
NonPetroleum Substance:	Not reported
Owner Replacement Title:	Not reported
Hazards:	Fire, Chronic
Principal CERCLA Substance/Chem Abstract Service Num:	68334-30-5
Latitude:	Not reported
Longitude:	Not reported
Facility ID:	44703
Facility 911 Address:	1901 S. 2ND ST.
Facility 911 City:	LEAVENWORTH
Facility 911 State:	KS
Facility 911 Zip:	66048
Date Removed:	Not reported
Capacity (Gals):	15000
Tank Internal Protection:	Not reported
24 Hour Phone Num:	Not reported
Tank External Protection:	Painted
Piping:	Bare Steel
Facility Location Method:	Not reported
Facility Feature:	Not reported
Facility Phone:	913-682-1917
Tank Empty:	Not reported
Contact Name:	GREG KAAZ
Contact Title:	Not reported
Owner ID:	44703
Owner Type:	Private Or Corp.
Owner Name:	LEAVENWORTH ASPHALT MATERIALS,

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEAVENWORTH ASPHALT MATERIALS, (Continued)**

**A100336146**

Owner Address: 5037 S 4TH ST  
Owner City: LEAVENWORTH  
Owner State: KS  
Owner Zip: 66048-5030  
Owner County: 052  
Owner Phone: 913-682-1917  
QTY Remaining in Tank: Not reported  
Facility District: NE  
Tank ID: 004  
Tank Status: Current In Use  
Installation Year: 2008  
Last Permit Printed: 2017-06-12 00:00:00  
Current Permit Printed: 2018-06-11 00:00:00  
Facility Datum: Not reported  
Out of service Mo/Yr: Not reported  
Material of Construction: Not reported  
Petroleum Substance: Used Oil  
Owner Replacement Name: GREG KAAZ  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Fire, Chronic  
Principal CERCLA Substance/Chem Abstract Service Num: 68334-30-5  
Latitude: Not reported  
Longitude: Not reported

Facility ID: 44703  
Facility 911 Address: 1901 S. 2ND ST.  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: Not reported  
Capacity (Gals): 1000  
Tank Internal Protection: Not reported  
24 Hour Phone Num: Not reported  
Tank External Protection: Painted  
Piping: Bare Steel  
Facility Location Method: Not reported  
Facility Feature: Not reported  
Facility Phone: 913-682-1917  
Tank Empty: Not reported  
Contact Name: GREG KAAZ  
Contact Title: Not reported  
Owner ID: 44703  
Owner Type: Private Or Corp.  
Owner Name: LEAVENWORTH ASPHALT MATERIALS,  
Owner Address: 5037 S 4TH ST  
Owner City: LEAVENWORTH  
Owner State: KS  
Owner Zip: 66048-5030  
Owner County: 052  
Owner Phone: 913-682-1917  
QTY Remaining in Tank: Not reported  
Facility District: NE  
Tank ID: 005  
Tank Status: Current In Use  
Installation Year: 2008  
Last Permit Printed: 2017-06-12 00:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEAVENWORTH ASPHALT MATERIALS, (Continued)**

**A100336146**

Current Permit Printed: 2018-06-11 00:00:00  
Facility Datum: Not reported  
Out of service Mo/Yr: Not reported  
Material of Construction: Not reported  
Petroleum Substance: Diesel Clear  
Owner Replacement Name: GREG KAAZ  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Fire, Chronic, Acute  
Principal CERCLA Substance/Chem Abstract Service Num: 68476-34-6  
Latitude: Not reported  
Longitude: Not reported

**E19  
NE  
1/8-1/4  
0.175 mi.  
925 ft.**

**LEAVENWORTH EXCAVATING & EQUIP  
1901 S 2ND ST.  
LEAVENWORTH, KS 66048**

**KS AST A100411193  
N/A**

**Site 2 of 2 in cluster E**

**Relative:  
Higher**

AST:

**Actual:  
785 ft.**

Facility ID: 44692  
Facility 911 Address: 1901 S 2ND ST.  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: Not reported  
Capacity (Gals): 10000  
Tank Internal Protection: Not reported  
24 Hour Phone Num: Not reported  
Tank External Protection: Painted  
Piping: Bare Steel  
Facility Location Method: Not reported  
Facility Feature: Not reported  
Facility Phone: 913-727-1234  
Tank Empty: Not reported  
Contact Name: GREG KAAZ  
Contact Title: Not reported  
Owner ID: 27842  
Owner Type: Private Or Corp.  
Owner Name: LEAVENWORTH EXCAVATING & EQUIP  
Owner Address: 5037 S 4TH  
Owner City: LEAVENWORTH  
Owner State: KS  
Owner Zip: 66048  
Owner County: LEAVENWORTH  
Owner Phone: 913-682-3584  
QTY Remaining in Tank: Not reported  
Facility District: NE  
Tank ID: 001  
Tank Status: Current In Use  
Installation Year: 2009  
Last Permit Printed: 2017-06-12 00:00:00  
Current Permit Printed: 2018-06-11 00:00:00  
Facility Datum: Not reported  
Out of service Mo/Yr: Not reported  
Material of Construction: Double Wall  
Petroleum Substance: Diesel Clear  
Owner Replacement Name: Greg D Kaaz

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**LEAVENWORTH EXCAVATING & EQUIP (Continued)**

**A100411193**

NonPetroleum Substance: Not reported  
 Owner Replacement Title: Vice-president  
 Hazards: Fire, Chronic, Acute  
 Principal CERCLA Substance/Chem Abstract Service Num: 68476-34-6  
 Latitude: Not reported  
 Longitude: Not reported

**20**  
**SSE**  
**1/8-1/4**  
**0.183 mi.**  
**966 ft.**

**BESEL ROOFING & HEATING INC.**  
**300 SANTA FE**  
**LEAVENWORTH, KS 66048**

**KS LUST**  
**KS UST**  
**KS Financial Assurance**

**U000198698**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**780 ft.**

**LUST:**

Facility ID: 28116  
**Site Status: Closed**  
 Release Date: Not reported  
 Initial Report Date: 10/26/2017  
 Project Number: U4-052-15073  
 Project Name: Besel Roofing & Heating, Inc.  
 Legal Desc Section: 01  
 Legal Desc Township: 09S  
 Legal Desc Range: 22E  
 Discover Date: Not reported  
 substrels: Not reported  
 Initial Ranking: Not reported  
 Current Ranking: Not reported  
 Facility Contact: LARRY LANSING  
 Facility Phone Number: 913-772-0434  
 Facility Owner Identification number: 28116  
 Facility Owner: GREENAMYRE, DAVID %LARRY LANSING  
 Owner Contact Person: DAVID Greenamyre  
 Owner Address: 300 SANTA FE  
 Owner City: LEAVENWORTH  
 Owner State: KS  
 Owner Zip Code: 66048  
 Owner Phone number: 913-682-7000  
 Contractor license number: C0603  
 Contractor phone number: 913-685-2928  
 Leak duration (if known): Not reported  
 Quantity released (if known): Not reported  
 Quantity recorded: Not reported  
 Leak Type: Not reported  
 Reported By: Not reported  
 Reported by persons phone number: Not reported  
 Reported by person address: Not reported  
 Ground water Impacted (yes/no): Not reported  
 Static groundwater level: Not reported  
 Groundwater flow direction: Not reported  
 District staff names: Michael Law  
 Assessment of release: Not reported  
 Contamination assesement: Not reported  
 Extent of contamination impact: Not reported  
 Updated information: One steel UST & copper lines were removed for off-site disposal (scrap metal). Both tank & copper lines were in good condition & no evidence of release was noted (odor, staining, etc.). Sample T-1 collected from floor of tank pit below STP sump & Spill  
 Invoice initiated: 20181

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BESSEL ROOFING & HEATING INC. (Continued)**

**U000198698**

Invoice on going:	Not reported
Invoice completed:	20181
Release confirmed:	Not reported
Emergency contact:	Not reported
Enforcement action:	Not reported
Cost recovery:	Not reported
Cost recovery initiated:	Not reported
Cost recovery initiated by:	Not reported
Cost recovery completed:	Not reported
Cost recovery completed by:	Not reported
Application to trust fund:	Not reported

UST:

Facility ID:	28116
Facility 911 Address:	300 SANTA FE
Facility 911 City:	LEAVENWORTH
Facility 911 State:	KS
Facility 911 Zip:	66048
Date Removed:	2017-10-26 00:00:00
Capacity (Gals):	10000
Tank Internal Protection:	Unknown
24 Hour Phone Num:	913-772-0347
Tank External Protection:	Unknown
Piping:	Other
Facility Location Method:	GARMIN 3 PLUS
Facility Feature:	Facility Center
Facility Phone:	913-772-0434
Tank Empty:	Not reported
Contact Name:	LARRY LANSING
Contact Title:	MANAGER
Owner ID:	28116
Owner Type:	Current
Owner Name:	GREENAMYRE, DAVID %LARRY LANSI
Owner Address:	300 SANTA FE
Owner City:	LEAVENWORTH
Owner State:	KS
Owner Zip:	66048
Owner County:	LEAVENWORTH
Owner Phone:	913-682-7000
QTY Remaining in Tank:	Not reported
Facility District:	NE
Tank ID:	001
Tank Status:	Permanently Out Of Use
Installation Year:	1985
Last Permit Printed:	2012-06-22 00:00:00
Current Permit Printed:	Not reported
Facility Datum:	WGS84
Out of service Mo/Yr:	10/26/
Material of Construction:	Steel
Petroleum Substance:	Gas (Incl Alcohol)
Owner Replacement Name:	DAVID Greenamyre
NonPetroleum Substance:	Not reported
Owner Replacement Title:	Not reported
Hazards:	Fire, Chronic, Acute
Principal CERCLA Substance/Chem Abstract Service Num:	8006-61-9
Latitude:	39.29222
Longitude:	-94.90605



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**BESEL ROOFING & HEATING INC. (Continued)**

**U000198698**

KS Financial Assurance:  
 Facility ID: 28116  
 Financial Responsibility: 3rd Party Liability Insurance

**F21  
 NNW  
 1/8-1/4  
 0.224 mi.  
 1184 ft.**

**GNB BATTERIES  
 1825 SOUTH FOURTH STREET  
 LEAVENWORTH, KS 66048**

**KS SHWS S109412327  
 KS VCP N/A**

**Site 1 of 4 in cluster F**

**Relative:  
 Higher  
 Actual:  
 810 ft.**

SHWS:  
 Site ID: 1073  
 Has Env Use Control: No  
 Project code: C405270061  
 PM Name: ROSS, D.  
**Site Status: Active**  
 District Office: NEDO  
 Lat/Long: 39.29907 / -94.90761  
 River Basin: Missouri  
 Aquifer Yield: Alluvial  
 Other Aquifers: Not reported  
 Parent PC: Not reported  
 Parent Name: Not reported  
 CERCLIS ID: Not reported  
 Discovery Date: 04/27/1995  
 Depth To GW: 21-30 feet  
 Depth To Bedrock: 31-50 feet  
 Aquifer Yield: 0-10 gpm  
 GW Flow Direction: E-SE  
 Acres Affected: 26-500 acres  
 Waste Present: No  
 Product Present: No  
 Program: Voluntary Cleanup  
 Lead Agency: BER - Redevelopment  
 Contaminants: Heavy Metal, Refined Petroleum, VOC  
 Media Act: Ground Water, Soil  
 Media Pot: Not reported  
 Source: Facility Operations, Underground Tank/Piping  
 Land Use: Commercial, Industrial  
 Private well: Monitoring  
 Waste Present: Not reported  
 Product: Not reported  
 Receptor Act: Not reported  
 Receptor Pot: Not reported  
 Remed Air: Not reported  
 Remed Soil: Not reported  
 Remed Water: Not reported  
 Remedir: Not reported  
 Alias: DGS, LLC.  
 Eucan Number: Not reported  
 Date: Not reported  
 Activity Type: Interim Remedial Measure - downgradient  
 Activity Status: Underway  
 Activity Start Date: 07/12/2010  
 Activity End Date: Not reported  
 Narrative: The property was owned by GNB (now Exide Technologies) to manufacture carnival equipment from 1923 to 1939. The facility was then

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GNB BATTERIES (Continued)**

**S109412327**

purchased by Gould, Inc. and batteries were manufactured until 1984. GNB purchased Gould and continued battery manufacture until 1989 when the facility became a battery distribution center. In 1990 a Phase I Environmental Assessment was conducted and several potential contaminant sources were identified. Additional investigations detected VOCs and metals, primarily lead, contamination. The lead issue was addressed through the State Cooperative Program (C4-052-00022). The ground water impacts were addressed through the pilot Voluntary Cleanup Program. Additional ground water investigations have been conducted to delineate the extent of contamination. Exide Corporation purchased GNB Technologies on September 29, 2000. Exide submitted an application to the VCPRP on March 5, 2002 to complete investigation activities and initiate a remedial strategy.

Exide sold the GNB property to Tire Town in October 2002. A Voluntary Agreement under the name DGS, LLC. (02VCP0037) was executed on December 12, 2002.

DGS submitted a Voluntary Cleanup Proposal to address the ground water contamination on October 24, 2003. KDHE requested revisions and discussions followed. KDHE, DGS and the City of Leavenworth explored the possibility of placing an Environmental Use Control on down gradient City property and conducting long term monitoring once an adequate monitoring well network is installed. To that effect, the City of Leavenworth submitted an EUC application in December 2005.

As of late 2010, the construction activities that previously postponed well installation were completed and a round of sampling was conducted of the existing wells in October 2010 to determine the need for and correct placement of additional wells. Results indicated the existing potential for contamination to impact the nearby Five Mile Creek. DGS planned to install an additional well cluster to evaluate this and KDHE would collect surface water samples from Five Mile Creek, per the VCI Work Plan approved on February 28, 2011. Surface water samples did not identify any contaminants above the laboratory detection limit.

Access to the downgradient City property in order to install the additional well cluster was agreed upon in 2012. In a June 2013 meeting, The wells were installed and the monitoring network was sampled in January 2013. DGS agreed to one year of quarterly static water level measurements of the monitoring well network.

On March 19, 2015, KDHE approved a change to a monitoring frequency of every four years.

Site ID:	1073
Has Env Use Control:	No
Project code:	C405270061
PM Name:	ROSS, D.
<b>Site Status:</b>	<b>Active</b>
District Office:	NEDO
Lat/Long:	39.29907 / -94.90761
River Basin:	Missouri
Aquifer Yield:	Alluvial
Other Aquifers:	Not reported
Parent PC:	Not reported
Parent Name:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GNB BATTERIES (Continued)**

**S109412327**

CERCLIS ID: Not reported  
Discovery Date: 04/27/1995  
Depth To GW: 21-30 feet  
Depth To Bedrock: 31-50 feet  
Aquifer Yield: 0-10 gpm  
GW Flow Direction: E-SE  
Acres Affected: 26-500 acres  
Waste Present: No  
Product Present: No  
Program: Voluntary Cleanup  
Lead Agency: BER - Redevelopment  
Contaminants: Heavy Metal, Refined Petroleum, VOC  
Media Act: Ground Water, Soil  
Media Pot: Not reported  
Source: Facility Operations, Underground Tank/Piping  
Land Use: Commercial, Industrial  
Private well: Monitoring  
Waste Present: Not reported  
Product: Not reported  
Receptor Act: Not reported  
Receptor Pot: Not reported  
Remed Air: Not reported  
Remed Soil: Not reported  
Remed Water: Not reported  
Remedir: Not reported  
Alias: DGS, LLC.  
Eucan Number: Not reported  
Date: Not reported  
Activity Type: Interim Remedial Measure - downgradient  
Activity Status: Underway  
Activity Start Date: 07/12/2010  
Activity End Date: Not reported  
Narrative: The property was owned by GNB (now Exide Technologies) to manufacture carnival equipment from 1923 to 1939. The facility was then purchased by Gould, Inc. and batteries were manufactured until 1984. GNB purchased Gould and continued battery manufacture until 1989 when the facility became a battery distribution center. In 1990 a Phase I Environmental Assessment was conducted and several potential contaminant sources were identified. Additional investigations detected VOCs and metals, primarily lead, contamination. The lead issue was addressed through the State Cooperative Program (C4-052-00022). The ground water impacts were addressed through the pilot Voluntary Cleanup Program. Additional ground water investigations have been conducted to delineate the extent of contamination. Exide Corporation purchased GNB Technologies on September 29, 2000. Exide submitted an application to the VCPRP on March 5, 2002 to complete investigation activities and initiate a remedial strategy.  
Exide sold the GNB property to Tire Town in October 2002. A Voluntary Agreement under the name DGS, LLC. (02VCP0037) was executed on December 12, 2002.  
DGS submitted a Voluntary Cleanup Proposal to address the ground water contamination on October 24, 2003. KDHE requested revisions and discussions followed. KDHE, DGS and the City of Leavenworth explored the possibility of placing an Environmental Use Control on down

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GNB BATTERIES (Continued)**

**S109412327**

gradient City property and conducting long term monitoring once an adequate monitoring well network is installed. To that effect, the City of Leavenworth submitted an EUC application in December 2005.

As of late 2010, the construction activities that previously postponed well installation were completed and a round of sampling was conducted of the existing wells in October 2010 to determine the need for and correct placement of additional wells. Results indicated the existing potential for contamination to impact the nearby Five Mile Creek. DGS planned to install an additional well cluster to evaluate this and KDHE would collect surface water samples from Five Mile Creek, per the VCI Work Plan approved on February 28, 2011. Surface water samples did not identify any contaminants above the laboratory detection limit.

Access to the downgradient City property in order to install the additional well cluster was agreed upon in 2012. In a June 2013 meeting, The wells were installed and the monitoring network was sampled in January 2013. DGS agreed to one year of quarterly static water level measurements of the monitoring well network.

On March 19, 2015, KDHE approved a change to a monitoring frequency of every four years.

Site ID: 1073  
Has Env Use Control: No  
Project code: C405270061  
PM Name: ROSS, D.  
**Site Status: Active**  
District Office: NEDO  
Lat/Long: 39.29907 / -94.90761  
River Basin: Missouri  
Aquifer Yield: Alluvial  
Other Aquifers: Not reported  
Parent PC: Not reported  
Parent Name: Not reported  
CERCLIS ID: Not reported  
Discovery Date: 04/27/1995  
Depth To GW: 21-30 feet  
Depth To Bedrock: 31-50 feet  
Aquifer Yield: 0-10 gpm  
GW Flow Direction: E-SE  
Acres Affected: 26-500 acres  
Waste Present: No  
Product Present: No  
Program: Voluntary Cleanup  
Lead Agency: BER - Redevelopment  
Contaminants: Heavy Metal, Refined Petroleum, VOC  
Media Act: Ground Water, Soil  
Media Pot: Not reported  
Source: Facility Operations, Underground Tank/Piping  
Land Use: Commercial, Industrial  
Private well: Monitoring  
Waste Present: Not reported  
Product: Not reported  
Receptor Act: Not reported  
Receptor Pot: Not reported  
Remed Air: Not reported  
Remed Soil: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GNB BATTERIES (Continued)**

**S109412327**

Remed Water: Not reported  
Remedir: Not reported  
Alias: DGS, LLC.  
Eucan Number: Not reported  
Date: Not reported  
Activity Type: Interim Remedial Measure - downgradient  
Activity Status: Underway  
Activity Start Date: 07/12/2010  
Activity End Date: Not reported  
Narrative:

The property was owned by GNB (now Exide Technologies) to manufacture carnival equipment from 1923 to 1939. The facility was then purchased by Gould, Inc. and batteries were manufactured until 1984. GNB purchased Gould and continued battery manufacture until 1989 when the facility became a battery distribution center. In 1990 a Phase I Environmental Assessment was conducted and several potential contaminant sources were identified. Additional investigations detected VOCs and metals, primarily lead, contamination. The lead issue was addressed through the State Cooperative Program (C4-052-00022). The ground water impacts were addressed through the pilot Voluntary Cleanup Program. Additional ground water investigations have been conducted to delineate the extent of contamination. Exide Corporation purchased GNB Technologies on September 29, 2000. Exide submitted an application to the VCPRP on March 5, 2002 to complete investigation activities and initiate a remedial strategy.

Exide sold the GNB property to Tire Town in October 2002. A Voluntary Agreement under the name DGS, LLC. (02VCP0037) was executed on December 12, 2002.

DGS submitted a Voluntary Cleanup Proposal to address the ground water contamination on October 24, 2003. KDHE requested revisions and discussions followed. KDHE, DGS and the City of Leavenworth explored the possibility of placing an Environmental Use Control on down gradient City property and conducting long term monitoring once an adequate monitoring well network is installed. To that effect, the City of Leavenworth submitted an EUC application in December 2005.

As of late 2010, the construction activities that previously postponed well installation were completed and a round of sampling was conducted of the existing wells in October 2010 to determine the need for and correct placement of additional wells. Results indicated the existing potential for contamination to impact the nearby Five Mile Creek. DGS planned to install an additional well cluster to evaluate this and KDHE would collect surface water samples from Five Mile Creek, per the VCI Work Plan approved on February 28, 2011. Surface water samples did not identify any contaminants above the laboratory detection limit.

Access to the downgradient City property in order to install the additional well cluster was agreed upon in 2012. In a June 2013 meeting, The wells were installed and the monitoring network was sampled in January 2013. DGS agreed to one year of quarterly static water level measurements of the monitoring well network.

On March 19, 2015, KDHE approved a change to a monitoring frequency of every four years.

Site ID: 1073

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GNB BATTERIES (Continued)**

**S109412327**

Has Env Use Control: No  
Project code: C405270061  
PM Name: ROSS, D.  
**Site Status: Active**  
District Office: NEDO  
Lat/Long: 39.29907 / -94.90761  
River Basin: Missouri  
Aquifer Yield: Alluvial  
Other Aquifers: Not reported  
Parent PC: Not reported  
Parent Name: Not reported  
CERCLIS ID: Not reported  
Discovery Date: 04/27/1995  
Depth To GW: 21-30 feet  
Depth To Bedrock: 31-50 feet  
Aquifer Yield: 0-10 gpm  
GW Flow Direction: E-SE  
Acres Affected: 26-500 acres  
Waste Present: No  
Product Present: No  
Program: Voluntary Cleanup  
Lead Agency: BER - Redevelopment  
Contaminants: Heavy Metal, Refined Petroleum, VOC  
Media Act: Ground Water, Soil  
Media Pot: Not reported  
Source: Facility Operations, Underground Tank/Piping  
Land Use: Commercial, Industrial  
Private well: Monitoring  
Waste Present: Not reported  
Product: Not reported  
Receptor Act: Not reported  
Receptor Pot: Not reported  
Remed Air: Not reported  
Remed Soil: Not reported  
Remed Water: Not reported  
Remedir: Not reported  
Alias: DGS, LLC.  
Eucan Number: Not reported  
Date: Not reported  
Activity Type: Interim Remedial Measure - downgradient  
Activity Status: Underway  
Activity Start Date: 07/12/2010  
Activity End Date: Not reported  
Narrative: The property was owned by GNB (now Exide Technologies) to manufacture carnival equipment from 1923 to 1939. The facility was then purchased by Gould, Inc. and batteries were manufactured until 1984. GNB purchased Gould and continued battery manufacture until 1989 when the facility became a battery distribution center. In 1990 a Phase I Environmental Assessment was conducted and several potential contaminant sources were identified. Additional investigations detected VOCs and metals, primarily lead, contamination. The lead issue was addressed through the State Cooperative Program (C4-052-00022). The ground water impacts were addressed through the pilot Voluntary Cleanup Program. Additional ground water investigations have been conducted to delineate the extent of contamination. Exide Corporation purchased GNB Technologies on September 29, 2000. Exide submitted an application to the VCPRP on

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**GNB BATTERIES (Continued)**

**S109412327**

March 5, 2002 to complete investigation activities and initiate a remedial strategy.

Exide sold the GNB property to Tire Town in October 2002. A Voluntary Agreement under the name DGS, LLC. (02VCP0037) was executed on December 12, 2002.

DGS submitted a Voluntary Cleanup Proposal to address the ground water contamination on October 24, 2003. KDHE requested revisions and discussions followed. KDHE, DGS and the City of Leavenworth explored the possibility of placing an Environmental Use Control on down gradient City property and conducting long term monitoring once an adequate monitoring well network is installed. To that effect, the City of Leavenworth submitted an EUC application in December 2005.

As of late 2010, the construction activities that previously postponed well installation were completed and a round of sampling was conducted of the existing wells in October 2010 to determine the need for and correct placement of additional wells. Results indicated the existing potential for contamination to impact the nearby Five Mile Creek. DGS planned to install an additional well cluster to evaluate this and KDHE would collect surface water samples from Five Mile Creek, per the VCI Work Plan approved on February 28, 2011. Surface water samples did not identify any contaminants above the laboratory detection limit.

Access to the downgradient City property in order to install the additional well cluster was agreed upon in 2012. In a June 2013 meeting, The wells were installed and the monitoring network was sampled in January 2013. DGS agreed to one year of quarterly static water level measurements of the monitoring well network.

On March 19, 2015, KDHE approved a change to a monitoring frequency of every four years.

VCP:

Site ID: 1073  
 Project code: C405270061  
 PM Name: ROSS, D.  
**Site Status: Active**  
 Lat/Long: 39.29907 / -94.90761  
 Program: Voluntary Cleanup

**F22**  
**NNW**  
**1/8-1/4**  
**0.224 mi.**  
**1184 ft.**

**GNB BATTERIES, INC.**  
**1825 SOUTH FOURTH STREET**  
**LEAVENWORTH, KS 66048**

**KS SHWS S109981277**  
**KS INST CONTROL N/A**

**Site 2 of 4 in cluster F**

**Relative:**  
**Higher**  
**Actual:**  
**810 ft.**

SHWS:  
 Site ID: 1065  
 Has Env Use Control: Yes  
 Project code: C405200022  
 PM Name: STITES, S.  
**Site Status: Resolved with restrictions**  
 District Office: NEDO  
 Lat/Long: 39.29691 / -94.90821  
 River Basin: Missouri  
 Aquifer Yield: Alluvial

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GNB BATTERIES, INC. (Continued)**

**S109981277**

Other Aquifers: Not reported  
Parent PC: Not reported  
Parent Name: Not reported  
CERCLIS ID: KSD007150477  
Discovery Date: Not reported  
Depth To GW: 21-30 feet  
Depth To Bedrock: 31-50 feet  
Aquifer Yield: 0-10 gpm  
GW Flow Direction: E-SE  
Acres Affected: <5 acres  
Waste Present: No  
Product Present: No  
Program: Environmental Use Control  
Lead Agency: BER - Redevelopment  
Contaminants: Heavy Metal, Refined Petroleum, SVOC, VOC, Other (see Site Narrative)  
Media Act: Ground Water, Soil  
Media Pot: Ground Water, Surface Water  
Source: Facility Operations, Underground Tank/Piping, Other (see Site Narrative)  
Land Use: Commercial, Industrial  
Private well: Not reported  
Waste Present: Not reported  
Product: Not reported  
Receptor Act: Not reported  
Receptor Pot: Not reported  
Remed Air: Not reported  
Remed Soil: Other Waste Destructive, Capping  
Remed Water: Not reported  
Remedir: Not reported  
Alias: Not reported  
Eucan Number: 03-EUC-0001  
Date: 12/17/2004  
Activity Type: Corrective Action Report  
Activity Status: Completed  
Activity Start Date: 09/22/1999  
Activity End Date: 10/07/1999

Narrative: Facility manufactured lead batteries at this site since 1939. Facility produced approximately 3000 batteries per day. Plant employs 150 people who work three shifts five days/week. Max 450 lbs of elemental lead disposed over 9.5 acres. Lead is present adhering to hard rubber battery casings buried as fill under the parking area onsite during late 1950s/early 1960s. Sulfuric acid stored in tanks on site and motor fuel also stored petroleum fuels in 4 underground tanks. A process wastewater discharge lagoon was also onsite.  
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Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GNB BATTERIES, INC. (Continued)**

**S109981277**

liter (ug/l); beryllium, 22ug/l; and cadmium, 80 ug/l), VOC's (trichloroethylene (TCE), 3000 ug/l; 1,2-dichloroethane, 160 ug/l; and tetrachloroethylene (PCE), 8 ug/l ) in groundwater. (10/93) KDHE has contacted GNB management requesting that all further investigative and remedial work be performed through a Consent Order with KDHE.

(10/93)

GNB submitted a work plan to remediate lead-contaminated surficial soils by excavating and fixating. Certain on-site and off-site soils impacted by lead (>500 milligrams per kilogram (mg/kg)) will be remediated in order to facilitate a plant expansion behind (east) of the plant. Fixated soil will be used as fill material to build a level parking area accomodating tractor-trailer parking and on/off-loading of inventory (3/95). A Letter Agreement was signed on January 11, 1995 for remediation of lead contaminated soils. Soil fixation approximately 80% completed (11/95).

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Project code: C405200022  
PM Name: STITES, S.  
**Site Status: Resolved with restrictions**  
District Office: NEDO  
Lat/Long: 39.29691 / -94.90821  
River Basin: Missouri  
Aquifer Yield: Alluvial  
Other Aquifers: Not reported  
Parent PC: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GNB BATTERIES, INC. (Continued)**

**S109981277**

Parent Name: Not reported  
CERCLIS ID: KSD007150477  
Discovery Date: Not reported  
Depth To GW: 21-30 feet  
Depth To Bedrock: 31-50 feet  
Aquifer Yield: 0-10 gpm  
GW Flow Direction: E-SE  
Acres Affected: <5 acres  
Waste Present: No  
Product Present: No  
Program: Environmental Use Control  
Lead Agency: BER - Redevelopment  
Contaminants: Heavy Metal, Refined Petroleum, SVOC, VOC, Other (see Site Narrative)  
Media Act: Ground Water, Soil  
Media Pot: Ground Water, Surface Water  
Source: Facility Operations, Underground Tank/Piping, Other (see Site Narrative)  
Land Use: Commercial, Industrial  
Private well: Not reported  
Waste Present: Not reported  
Product: Not reported  
Receptor Act: Not reported  
Receptor Pot: Not reported  
Remed Air: Not reported  
Remed Soil: Other Waste Destructive, Capping  
Remed Water: Not reported  
Remedir: Not reported  
Alias: Not reported  
Eucan Number: 03-EUC-0001  
Date: 12/17/2004  
Activity Type: Corrective Action Report  
Activity Status: Completed  
Activity Start Date: 09/22/1999  
Activity End Date: 10/07/1999  
Narrative: Facility manufactured lead batteries at this site since 1939. Facility produced approximately 3000 batteries per day. Plant employs 150 people who work three shifts five days/week. Max 450 lbs of elemental lead disposed over 9.5 acres. Lead is present adhering to hard rubber battery casings buried as fill under the parking area onsite during late 1950s/early 1960s. Sulfuric acid stored in tanks on site and motor fuel also stored petroleum fuels in 4 underground tanks. A process wastewater discharge lagoon was also onsite.  
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Map ID  
Direction  
Distance  
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Database(s)

EDR ID Number  
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**GNB BATTERIES, INC. (Continued)**

**S109981277**

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(10/93)

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River Basin: Missouri  
Aquifer Yield: Alluvial  
Other Aquifers: Not reported  
Parent PC: Not reported  
Parent Name: Not reported  
CERCLIS ID: KSD007150477

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GNB BATTERIES, INC. (Continued)**

**S109981277**

Discovery Date: Not reported  
Depth To GW: 21-30 feet  
Depth To Bedrock: 31-50 feet  
Aquifer Yield: 0-10 gpm  
GW Flow Direction: E-SE  
Acres Affected: <5 acres  
Waste Present: No  
Product Present: No  
Program: Environmental Use Control  
Lead Agency: BER - Redevelopment  
Contaminants: Heavy Metal, Refined Petroleum, SVOC, VOC, Other (see Site Narrative)  
Media Act: Ground Water, Soil  
Media Pot: Ground Water, Surface Water  
Source: Facility Operations, Underground Tank/Piping, Other (see Site Narrative)  
Land Use: Commercial, Industrial  
Private well: Not reported  
Waste Present: Not reported  
Product: Not reported  
Receptor Act: Not reported  
Receptor Pot: Not reported  
Remed Air: Not reported  
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Remed Water: Not reported  
Remedir: Not reported  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
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**GNB BATTERIES, INC. (Continued)**

**S109981277**

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(10/93)

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**Site Status: Resolved with restrictions**  
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River Basin: Missouri  
Aquifer Yield: Alluvial  
Other Aquifers: Not reported  
Parent PC: Not reported  
Parent Name: Not reported  
CERCLIS ID: KSD007150477  
Discovery Date: Not reported  
Depth To GW: 21-30 feet

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GNB BATTERIES, INC. (Continued)**

**S109981277**

Depth To Bedrock: 31-50 feet  
Aquifer Yield: 0-10 gpm  
GW Flow Direction: E-SE  
Acres Affected: <5 acres  
Waste Present: No  
Product Present: No  
Program: Environmental Use Control  
Lead Agency: BER - Redevelopment  
Contaminants: Heavy Metal, Refined Petroleum, SVOC, VOC, Other (see Site Narrative)  
Media Act: Ground Water, Soil  
Media Pot: Ground Water, Surface Water  
Source: Facility Operations, Underground Tank/Piping, Other (see Site Narrative)  
Land Use: Commercial, Industrial  
Private well: Not reported  
Waste Present: Not reported  
Product: Not reported  
Receptor Act: Not reported  
Receptor Pot: Not reported  
Remed Air: Not reported  
Remed Soil: Other Waste Destructive, Capping  
Remed Water: Not reported  
Remedir: Not reported  
Alias: Not reported  
Eucan Number: 03-EUC-0001  
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Activity Type: Corrective Action Report  
Activity Status: Completed  
Activity Start Date: 09/22/1999  
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Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
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**GNB BATTERIES, INC. (Continued)**

**S109981277**

(10/93)

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River Basin: Missouri  
Aquifer Yield: Alluvial  
Other Aquifers: Not reported  
Parent PC: Not reported  
Parent Name: Not reported  
CERCLIS ID: KSD007150477  
Discovery Date: Not reported  
Depth To GW: 21-30 feet  
Depth To Bedrock: 31-50 feet  
Aquifer Yield: 0-10 gpm

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GNB BATTERIES, INC. (Continued)**

**S109981277**

GW Flow Direction: E-SE  
Acres Affected: <5 acres  
Waste Present: No  
Product Present: No  
Program: Environmental Use Control  
Lead Agency: BER - Redevelopment  
Contaminants: Heavy Metal, Refined Petroleum, SVOC, VOC, Other (see Site Narrative)  
Media Act: Ground Water, Soil  
Media Pot: Ground Water, Surface Water  
Source: Facility Operations, Underground Tank/Piping, Other (see Site Narrative)  
Land Use: Commercial, Industrial  
Private well: Not reported  
Waste Present: Not reported  
Product: Not reported  
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Receptor Pot: Not reported  
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(10/93)  
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MAP FINDINGS

**GNB BATTERIES, INC. (Continued)**

**S109981277**

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 Acres Affected: <5 acres

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Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GNB BATTERIES, INC. (Continued)**

**S109981277**

Waste Present: No  
Product Present: No  
Program: Environmental Use Control  
Lead Agency: BER - Redevelopment  
Contaminants: Heavy Metal, Refined Petroleum, SVOC, VOC, Other (see Site Narrative)  
Media Act: Ground Water, Soil  
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**GNB BATTERIES, INC. (Continued)**

**S109981277**

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Site management of groundwater issues only has been transferred to KDHE's pilot Voluntary Clean-up Program (VCP) (KDHE Project No. C4-052-70061). The pilot Voluntary Agreement is 95-V-0002 and was executed on April 27, 1995. The pilot Voluntary Agreement was terminated when DGS, LLC assumed environmental responsibility for existing groundwater impacts (KDHE Project No. C4-052-70061).

On June 20, 1997, KDHE approved soil remediation/stabilization and asphalt cap and soil/vegetation cover over treated soils. June 30, 1999, the grading, capping, and paving at the site was completed. KDHE approved lead affected soil remediation and site restoration closure report of September 13, 1999. On January 3, 2000, KDHE terminated the letter agreement for lead contaminated soil remediation/stabilization activities.

As agreed, the second component of the approved remedial strategy was the enactment of deed restrictions to address the lead contamination remaining on the property. The deed restriction component was never enacted; therefore, this project is being re-opened via a September 8, 2003, letter to DGS, LLC, the current property owner and the entity that assumed environmental liability for this project.

DGS will participate in the EUC Program to address soil contamination remaining at the property. The EUC application was submitted to KDHE on October 2, 2003 and the EUC Agreement executed on November 17, 2004. The latest inspection in March 2012 noted general compliance with the EUC Agreement noting the need to address animal burrowing into the cap.

**INST CONTROL:**

Site ID: 1065  
Project Code: C405200022  
Date Signed: 12/17/2004  
Restriction Text: Not reported  
EUCA Number: 52  
EUC Group: Specific Restrictions  
EUC Type: Land Use Restrictions  
EUC Restriction: no residential uses  
EUCA Number Date: 03-EUC-0001  
EUCA Signed: Not reported

Site ID: 1065  
Project Code: C405200022  
Date Signed: 12/17/2004  
Restriction Text: Not reported  
EUCA Number: 52  
EUC Group: Specific Restrictions  
EUC Type: Land Use Restrictions  
EUC Restriction: Preserve survey markers and/or monitoring stations  
EUCA Number Date: 03-EUC-0001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GNB BATTERIES, INC. (Continued)**

**S109981277**

EUCA Signed: Not reported

Site ID: 1065  
Project Code: C405200022  
Date Signed: 12/17/2004  
Restriction Text: Not reported  
EUCA Number: 52  
EUC Group: Specific Restrictions  
EUC Type: Land Use Restrictions  
EUC Restriction: no agricultural uses  
EUCA Number Date: 03-EUC-0001  
EUCA Signed: Not reported

Site ID: 1065  
Project Code: C405200022  
Date Signed: 12/17/2004  
Restriction Text: Not reported  
EUCA Number: 52  
EUC Group: Specific Restrictions  
EUC Type: Water Use Restrictions  
EUC Restriction: no drinking water wells  
EUCA Number Date: 03-EUC-0001  
EUCA Signed: Not reported

Site ID: 1065  
Project Code: C405200022  
Date Signed: 12/17/2004  
Restriction Text: no use which involves or may involve possible human consumption/contact.  
EUCA Number: 52  
EUC Group: Specific Restrictions  
EUC Type: Water Use Restrictions  
EUC Restriction: Other water use restriction:  
EUCA Number Date: 03-EUC-0001  
EUCA Signed: Not reported

Site ID: 1065  
Project Code: C405200022  
Date Signed: 12/17/2004  
Restriction Text: Not reported  
EUCA Number: 52  
EUC Group: Specific Restrictions  
EUC Type: Water Use Restrictions  
EUC Restriction: no lawn and garden wells  
EUCA Number Date: 03-EUC-0001  
EUCA Signed: Not reported

Site ID: 1065  
Project Code: C405200022  
Date Signed: 12/17/2004  
Restriction Text: Not reported  
EUCA Number: 52  
EUC Group: Specific Restrictions  
EUC Type: Notification to the Agency Prior to the Following Activities  
EUC Restriction: excavation  
EUCA Number Date: 03-EUC-0001  
EUCA Signed: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GNB BATTERIES, INC. (Continued)**

**S109981277**

Site ID: 1065  
Project Code: C405200022  
Date Signed: 12/17/2004  
Restriction Text: Not reported  
EUCA Number: 52  
EUC Group: Specific Restrictions  
EUC Type: Notification to the Agency Prior to the Following Activities  
EUC Restriction: Notification to workers prior to excavation  
EUCA Number Date: 03-EUC-0001  
EUCA Signed: Not reported

Site ID: 1065  
Project Code: C405200022  
Date Signed: 12/17/2004  
Restriction Text: Not reported  
EUCA Number: 52  
EUC Group: Specific Restrictions  
EUC Type: Notification to the Agency Prior to the Following Activities  
EUC Restriction: Notification prior to property transfer  
EUCA Number Date: 03-EUC-0001  
EUCA Signed: Not reported

Site ID: 1065  
Project Code: C405200022  
Date Signed: 12/17/2004  
Restriction Text: Not reported  
EUCA Number: 52  
EUC Group: Local Ordinances and Zoning  
EUC Type: Zoned Property  
EUC Restriction: Heavy Industrial  
EUCA Number Date: 03-EUC-0001  
EUCA Signed: Not reported

**F23  
NNW  
1/8-1/4  
0.224 mi.  
1184 ft.**

**GNB BATTERIES INC  
1901 S 4TH ST  
LEAVENWORTH, KS 66048  
Site 3 of 4 in cluster F**

**SEMS-ARCHIVE 1015734030  
RCRA-CESQG KSD007150477**

**Relative:  
Higher  
Actual:  
810 ft.**

SEMS Archive:  
Site ID: 0700472  
EPA ID: KSD007150477  
Cong District: 02  
FIPS Code: 20103  
FF: N  
NPL: Not on the NPL  
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:  
Region: 07  
Site ID: 0700472  
EPA ID: KSD007150477  
Site Name: GNB BATTERIES INC  
NPL: N  
FF: N  
OU: 00  
Action Code: VS  
Action Name: ARCH SITE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GNB BATTERIES INC (Continued)**

**1015734030**

SEQ: 1  
Start Date: Not reported  
Finish Date: 1983-11-01 05:00:00  
Qual: Not reported  
Current Action Lead: EPA Perf In-Hse

Region: 07  
Site ID: 0700472  
EPA ID: KSD007150477  
Site Name: GNB BATTERIES INC  
NPL: N  
FF: N  
OU: 00  
Action Code: PA  
Action Name: PA  
SEQ: 1  
Start Date: 1983-11-01 05:00:00  
Finish Date: 1983-11-01 05:00:00  
Qual: N  
Current Action Lead: EPA Perf

Region: 07  
Site ID: 0700472  
EPA ID: KSD007150477  
Site Name: GNB BATTERIES INC  
NPL: N  
FF: N  
OU: 00  
Action Code: DS  
Action Name: DISCVRY  
SEQ: 1  
Start Date: 1983-09-01 04:00:00  
Finish Date: 1983-09-01 04:00:00  
Qual: Not reported  
Current Action Lead: EPA Perf

**RCRA-CESQG:**

Date form received by agency: 01/11/2002  
Facility name: EXIDE TECHNOLOGIES  
Facility address: 1825 S 4TH  
LEAVENWORTH, KS 66048  
EPA ID: KSD007150477  
Mailing address: S 4TH  
LEAVENWORTH, KS 66048  
Contact: MATT LOVE  
Contact address: 3000 MONTROSE AVE  
READING, PA 19605  
Contact country: US  
Contact telephone: 610-921-4015  
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

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GNB BATTERIES INC (Continued)**

**1015734030**

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: EXIDE TECHNOLOGIES  
Owner/operator address: 210 CARNEGIE CTR STE 500  
PRINCETON, NJ 08540  
Owner/operator country: Not reported  
Owner/operator telephone: 610-921-4015  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 01/11/2002  
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

Historical Generators:

Date form received by agency: 08/11/2000  
Site name: EXIDE TECHNOLOGIES  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/24/1994  
Site name: GNB INCORPORATED  
Classification: Large Quantity Generator

Date form received by agency: 02/12/1992  
Site name: GNB INC  
Classification: Large Quantity Generator

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GNB BATTERIES INC (Continued)**

**1015734030**

Date form received by agency: 03/05/1990  
Site name: GNB, INC.  
Classification: Large Quantity Generator

Date form received by agency: 01/01/1979  
Site name: EXIDE TECHNOLOGIES  
Classification: Not a generator, verified

Hazardous Waste Summary:

- . Waste code: D002
- . Waste name: CORROSIVE WASTE
  
- . Waste code: D008
- . Waste name: LEAD

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 01/18/1989  
Date achieved compliance: 03/30/1989  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 02/16/1989  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 01/18/1989  
Date achieved compliance: 03/30/1989  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 01/31/1989  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 09/09/1997  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 09/09/1997  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GNB BATTERIES INC (Continued)**

**1015734030**

Evaluation lead agency: EPA-Initiated Oversight/Observation/Training Actions

Evaluation date: 03/30/1989  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 02/15/1989  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 01/18/1989  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 03/30/1989  
Evaluation lead agency: State

**F24  
NNW  
1/8-1/4  
0.224 mi.  
1184 ft.**

**DGS, L.L.C.  
1825 S. FOURTH  
LEAVENWORTH, KS 66048**

**KS AST A100225308  
N/A**

**Site 4 of 4 in cluster F**

**Relative:  
Higher**

AST:

**Actual:  
810 ft.**

Facility ID: 43356  
Facility 911 Address: 1825 S. FOURTH  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: 2006-12-12 00:00:00  
Capacity (Gals): 7000  
Tank Internal Protection: Not reported  
24 Hour Phone Num: 913-682-3201  
Tank External Protection: Not reported  
Piping: Not reported  
Facility Location Method: GARMIN 3 PLUS  
Facility Feature: Facility Center  
Facility Phone: 913-682-3201  
Tank Empty: Not reported  
Contact Name: D.J. BECKER  
Contact Title: Contact Person  
Owner ID: 43356  
Owner Type: Private Or Corp.  
Owner Name: DGS, L.L.C.  
Owner Address: 401 S. 2ND  
Owner City: LEAVENWORTH  
Owner State: KS  
Owner Zip: 66048  
Owner County: LEAVENWORTH  
Owner Phone: 913-682-3201  
QTY Remaining in Tank: 7000  
Facility District: NE  
Tank ID: 001  
Tank Status: Permanently Out Of Use  
Installation Year: 1981  
Last Permit Printed: 2000-10-30 00:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DGS, L.L.C. (Continued)**

**A100225308**

Current Permit Printed: Not reported  
Facility Datum: WGS84  
Out of service Mo/Yr: 12/200  
Material of Construction: Steel  
Petroleum Substance: Empty  
Owner Replacement Name: D.J. BECKER  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Not reported  
Principal CERCLA Substance/Chem Abstract Service Num: Not reported  
Latitude: 39.29900  
Longitude: -94.90873

Facility ID: 43356  
Facility 911 Address: 1825 S. FOURTH  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: 2006-12-12 00:00:00  
Capacity (Gals): 7000  
Tank Internal Protection: Not reported  
24 Hour Phone Num: 913-682-3201  
Tank External Protection: Not reported  
Piping: Not reported  
Facility Location Method: GARMIN 3 PLUS  
Facility Feature: Facility Center  
Facility Phone: 913-682-3201  
Tank Empty: Not reported  
Contact Name: D.J. BECKER  
Contact Title: Contact Person  
Owner ID: 43356  
Owner Type: Private Or Corp.  
Owner Name: DGS, L.L.C.  
Owner Address: 401 S. 2ND  
Owner City: LEAVENWORTH  
Owner State: KS  
Owner Zip: 66048  
Owner County: LEAVENWORTH  
Owner Phone: 913-682-3201  
QTY Remaining in Tank: 7000  
Facility District: NE  
Tank ID: 002  
Tank Status: Permanently Out Of Use  
Installation Year: 1981  
Last Permit Printed: 2000-10-30 00:00:00  
Current Permit Printed: Not reported  
Facility Datum: WGS84  
Out of service Mo/Yr: 12/200  
Material of Construction: Steel  
Petroleum Substance: Empty  
Owner Replacement Name: D.J. BECKER  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Not reported  
Principal CERCLA Substance/Chem Abstract Service Num: Not reported  
Latitude: 39.29900  
Longitude: -94.90873

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DGS, L.L.C. (Continued)**

**A100225308**

Facility ID: 43356  
Facility 911 Address: 1825 S. FOURTH  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: 2006-12-12 00:00:00  
Capacity (Gals): 1500  
Tank Internal Protection: Not reported  
24 Hour Phone Num: 913-682-3201  
Tank External Protection: Not reported  
Piping: Not reported  
Facility Location Method: GARMIN 3 PLUS  
Facility Feature: Facility Center  
Facility Phone: 913-682-3201  
Tank Empty: Not reported  
Contact Name: D.J. BECKER  
Contact Title: Contact Person  
Owner ID: 43356  
Owner Type: Private Or Corp.  
Owner Name: DGS, L.L.C.  
Owner Address: 401 S. 2ND  
Owner City: LEAVENWORTH  
Owner State: KS  
Owner Zip: 66048  
Owner County: LEAVENWORTH  
Owner Phone: 913-682-3201  
QTY Remaining in Tank: 1500  
Facility District: NE  
Tank ID: 003  
Tank Status: Permanently Out Of Use  
Installation Year: 1980  
Last Permit Printed: 2000-10-30 00:00:00  
Current Permit Printed: Not reported  
Facility Datum: WGS84  
Out of service Mo/Yr: 12/200  
Material of Construction: Fbr Ref Plastic  
Petroleum Substance: Empty  
Owner Replacement Name: D.J. BECKER  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Not reported  
Principal CERCLA Substance/Chem Abstract Service Num: Not reported  
Latitude: 39.29900  
Longitude: -94.90873

Facility ID: 43356  
Facility 911 Address: 1825 S. FOURTH  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: 2006-12-12 00:00:00  
Capacity (Gals): 1500  
Tank Internal Protection: Not reported  
24 Hour Phone Num: 913-682-3201  
Tank External Protection: Not reported  
Piping: Not reported  
Facility Location Method: GARMIN 3 PLUS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DGS, L.L.C. (Continued)**

**A100225308**

Facility Feature: Facility Center  
Facility Phone: 913-682-3201  
Tank Empty: Not reported  
Contact Name: D.J. BECKER  
Contact Title: Contact Person  
Owner ID: 43356  
Owner Type: Private Or Corp.  
Owner Name: DGS, L.L.C.  
Owner Address: 401 S. 2ND  
Owner City: LEAVENWORTH  
Owner State: KS  
Owner Zip: 66048  
Owner County: LEAVENWORTH  
Owner Phone: 913-682-3201  
QTY Remaining in Tank: 1500  
Facility District: NE  
Tank ID: 004  
Tank Status: Permanently Out Of Use  
Installation Year: 1980  
Last Permit Printed: 2000-10-30 00:00:00  
Current Permit Printed: Not reported  
Facility Datum: WGS84  
Out of service Mo/Yr: 12/200  
Material of Construction: Fbr Ref Plastic  
Petroleum Substance: Empty  
Owner Replacement Name: D.J. BECKER  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Not reported  
Principal CERCLA Substance/Chem Abstract Service Num: Not reported  
Latitude: 39.29900  
Longitude: -94.90873

Facility ID: 43356  
Facility 911 Address: 1825 S. FOURTH  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: 2007-11-30 00:00:00  
Capacity (Gals): 1500  
Tank Internal Protection: Not reported  
24 Hour Phone Num: 913-682-3201  
Tank External Protection: Not reported  
Piping: Not reported  
Facility Location Method: GARMIN 3 PLUS  
Facility Feature: Facility Center  
Facility Phone: 913-682-3201  
Tank Empty: Not reported  
Contact Name: D.J. BECKER  
Contact Title: Contact Person  
Owner ID: 43356  
Owner Type: Private Or Corp.  
Owner Name: DGS, L.L.C.  
Owner Address: 401 S. 2ND  
Owner City: LEAVENWORTH  
Owner State: KS  
Owner Zip: 66048

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DGS, L.L.C. (Continued)**

**A100225308**

Owner County: LEAVENWORTH  
Owner Phone: 913-682-3201  
QTY Remaining in Tank: 1,500  
Facility District: NE  
Tank ID: 005  
Tank Status: Permanently Out Of Use  
Installation Year: 1999  
Last Permit Printed: 2000-10-30 00:00:00  
Current Permit Printed: Not reported  
Facility Datum: WGS84  
Out of service Mo/Yr: 11/200  
Material of Construction: Fbr Ref Plastic  
Petroleum Substance: Not reported  
Owner Replacement Name: D.J. BECKER  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Not reported  
Principal CERCLA Substance/Chem Abstract Service Num: Not reported  
Latitude: 39.29900  
Longitude: -94.90873

Facility ID: 43356  
Facility 911 Address: 1825 S. FOURTH  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: 2007-11-30 00:00:00  
Capacity (Gals): 1500  
Tank Internal Protection: Not reported  
24 Hour Phone Num: 913-682-3201  
Tank External Protection: Not reported  
Piping: Not reported  
Facility Location Method: GARMIN 3 PLUS  
Facility Feature: Facility Center  
Facility Phone: 913-682-3201  
Tank Empty: Not reported  
Contact Name: D.J. BECKER  
Contact Title: Contact Person  
Owner ID: 43356  
Owner Type: Private Or Corp.  
Owner Name: DGS, L.L.C.  
Owner Address: 401 S. 2ND  
Owner City: LEAVENWORTH  
Owner State: KS  
Owner Zip: 66048  
Owner County: LEAVENWORTH  
Owner Phone: 913-682-3201  
QTY Remaining in Tank: 1,500  
Facility District: NE  
Tank ID: 006  
Tank Status: Permanently Out Of Use  
Installation Year: 1999  
Last Permit Printed: 2000-10-30 00:00:00  
Current Permit Printed: Not reported  
Facility Datum: WGS84  
Out of service Mo/Yr: 11/200  
Material of Construction: Fbr Ref Plastic

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DGS, L.L.C. (Continued)**

**A100225308**

Petroleum Substance: Not reported  
Owner Replacement Name: D.J. BECKER  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Not reported  
Principal CERCLA Substance/Chem Abstract Service Num: Not reported  
Latitude: 39.29900  
Longitude: -94.90873

Facility ID: 43356  
Facility 911 Address: 1825 S. FOURTH  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: 2007-11-30 00:00:00  
Capacity (Gals): 1500  
Tank Internal Protection: Not reported  
24 Hour Phone Num: 913-682-3201  
Tank External Protection: Not reported  
Piping: Not reported  
Facility Location Method: GARMIN 3 PLUS  
Facility Feature: Facility Center  
Facility Phone: 913-682-3201  
Tank Empty: Not reported  
Contact Name: D.J. BECKER  
Contact Title: Contact Person  
Owner ID: 43356  
Owner Type: Private Or Corp.  
Owner Name: DGS, L.L.C.  
Owner Address: 401 S. 2ND  
Owner City: LEAVENWORTH  
Owner State: KS  
Owner Zip: 66048  
Owner County: LEAVENWORTH  
Owner Phone: 913-682-3201  
QTY Remaining in Tank: 1,500  
Facility District: NE  
Tank ID: 007  
Tank Status: Permanently Out Of Use  
Installation Year: 1999  
Last Permit Printed: 2000-10-30 00:00:00  
Current Permit Printed: Not reported  
Facility Datum: WGS84  
Out of service Mo/Yr: 11/200  
Material of Construction: Other  
Petroleum Substance: Not reported  
Owner Replacement Name: D.J. BECKER  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Not reported  
Principal CERCLA Substance/Chem Abstract Service Num: Not reported  
Latitude: 39.29900  
Longitude: -94.90873

Facility ID: 43356  
Facility 911 Address: 1825 S. FOURTH  
Facility 911 City: LEAVENWORTH

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DGS, L.L.C. (Continued)**

**A100225308**

Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: 2007-11-30 00:00:00  
Capacity (Gals): 1500  
Tank Internal Protection: Not reported  
24 Hour Phone Num: 913-682-3201  
Tank External Protection: Not reported  
Piping: Not reported  
Facility Location Method: GARMIN 3 PLUS  
Facility Feature: Facility Center  
Facility Phone: 913-682-3201  
Tank Empty: Not reported  
Contact Name: D.J. BECKER  
Contact Title: Contact Person  
Owner ID: 43356  
Owner Type: Private Or Corp.  
Owner Name: DGS, L.L.C.  
Owner Address: 401 S. 2ND  
Owner City: LEAVENWORTH  
Owner State: KS  
Owner Zip: 66048  
Owner County: LEAVENWORTH  
Owner Phone: 913-682-3201  
QTY Remaining in Tank: 1,500  
Facility District: NE  
Tank ID: 008  
Tank Status: Permanently Out Of Use  
Installation Year: 1999  
Last Permit Printed: 2000-10-30 00:00:00  
Current Permit Printed: Not reported  
Facility Datum: WGS84  
Out of service Mo/Yr: 11/200  
Material of Construction: Other  
Petroleum Substance: Not reported  
Owner Replacement Name: D.J. BECKER  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Not reported  
Principal CERCLA Substance/Chem Abstract Service Num: Not reported  
Latitude: 39.29900  
Longitude: -94.90873

**G25**  
**SE**  
**1/8-1/4**  
**0.237 mi.**  
**1253 ft.**

**AMERICAN ROOFING**  
**2500 S 2ND (B)**  
**LEAVENWORTH, KS 66048**

**Site 1 of 2 in cluster G**

**RCRA NonGen / NLR** **1001219335**  
**FINDS** **KSR000009571**  
**ECHO**

**Relative:**  
**Higher**

RCRA NonGen / NLR:

**Actual:**  
**825 ft.**

Date form received by agency: 05/09/2016  
Facility name: AMERICAN ROOFING  
Facility address: 2500 S 2ND (B)  
LEAVENWORTH, KS 66048  
EPA ID: KSR000009571  
Mailing address: 2500 S 2ND  
LEAVENWORTH, KS 66048  
Contact: DALE MORRISON  
Contact address: 2500 S 2ND

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMERICAN ROOFING (Continued)**

**1001219335**

LEAVENWORTH, KS 66048  
Contact country: US  
Contact telephone: 913-651-9717  
Contact email: Not reported  
EPA Region: 07  
Land type: Private  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

**Owner/Operator Summary:**

Owner/operator name: MIKE GREENAMYRE  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 02/26/2003  
Owner/Op end date: Not reported

Owner/operator name: DALE MORRISON  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 02/26/2003  
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: 01/26/2015  
Site name: AMERICAN ROOFING



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMERICAN ROOFING (Continued)**

**1001219335**

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 04/18/2014

Site name: AMERICAN ROOFING

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/28/2012

Site name: AMERICAN ROOFING

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 03/17/2011

Site name: AMERICAN ROOFING

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/19/2010

Site name: AMERICAN ROOFING

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/23/2009

Site name: AMERICAN ROOFING

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 03/27/2008

Site name: AMERICAN ROOFING

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 01/29/2007

Site name: AMERICAN ROOFING

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/01/2006

Site name: AMERICAN ROOFING

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 07/22/2005

Site name: AMERICAN ROOFING

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 03/05/2004

Site name: AMERICAN ROOFING

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/26/2003

Site name: AMERICAN ROOFING

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/11/1998

Site name: AMERICAN ROOFING

Classification: Small Quantity Generator

**Hazardous Waste Summary:**

- . Waste code: D001
- . Waste name: IGNITABLE WASTE
  
- . Waste code: D006
- . Waste name: CADMIUM

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMERICAN ROOFING (Continued)**

**1001219335**

- . Waste code: D008
- . Waste name: LEAD
  
- . Waste code: D018
- . Waste name: BENZENE
  
- . Waste code: D027
- . Waste name: 1,4-DICHLOROBENZENE
  
- . Waste code: D039
- . Waste name: TETRACHLOROETHYLENE
  
- . Waste code: D040
- . Waste name: TRICHLORETHYLENE

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 10/26/2005  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

FINDS:

Registry ID: 110003210310

Environmental Interest/Information System

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.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1001219335  
Registry ID: 110003210310  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110003210310>

**G26**  
**SE**  
**1/8-1/4**  
**0.237 mi.**  
**1253 ft.**

**PROPERTY MGMT & MAINT INC**  
**2500 S 2ND (A)**  
**LEAVENWORTH, KS 66048**

**RCRA NonGen / NLR** **1000618297**  
**FINDS** **KSD984993840**  
**ECHO**

**Site 2 of 2 in cluster G**

**Relative:**  
**Higher**  
**Actual:**  
**825 ft.**

RCRA NonGen / NLR:  
Date form received by agency: 05/09/2016  
Facility name: PROPERTY MGMT & MAINT INC  
Facility address: 2500 S 2ND (A)  
LEAVENWORTH, KS 66048  
EPA ID: KSD984993840

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PROPERTY MGMT & MAINT INC (Continued)**

**1000618297**

Contact: DALE MORRISON  
Contact address: 2500 S 2ND (A)  
LEAVENWORTH, KS 66048  
Contact country: US  
Contact telephone: 913-772-1776  
Contact email: Not reported  
EPA Region: 07  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: DALE MORRISON  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 02/26/2003  
Owner/Op end date: Not reported  
Owner/operator name: MICHAEL GREENAMYRE  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 02/26/2003  
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: 01/26/2015

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PROPERTY MGMT & MAINT INC (Continued)**

**1000618297**

Site name: PROPERTY MGMT & MAINT INC  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 04/18/2014

Site name: PROPERTY MGMT & MAINT INC  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/28/2012

Site name: PROPERTY MGMT & MAINT INC  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 03/17/2011

Site name: PROPERTY MGMT & MAINT INC  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/19/2010

Site name: PROPERTY MGMT & MAINT INC  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/23/2009

Site name: PROPERTY MGMT & MAINT INC  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 03/27/2008

Site name: PROPERTY MGMT & MAINT INC  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 01/26/2007

Site name: PROPERTY MGMT & MAINT INC  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/01/2006

Site name: PROPERTY MGMT & MAINT INC  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 07/22/2005

Site name: PROPERTY MGMT & MAINT INC  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 03/05/2004

Site name: PROPERTY MGMT & MAINT INC  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/27/2003

Site name: PROPERTY MGMT & MAINT INC  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 06/22/1993

Site name: PROPERTY MGMT & MAINT INC  
Classification: Small Quantity Generator

Hazardous Waste Summary:

- . Waste code: D001
- . Waste name: IGNITABLE WASTE
  
- . Waste code: D018

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**PROPERTY MGMT & MAINT INC (Continued)**

**1000618297**

. Waste name: BENZENE  
 . Waste code: D039  
 . Waste name: TETRACHLOROETHYLENE

Violation Status: No violations found

**FINDS:**

Registry ID: 110003192740

**Environmental Interest/Information System**

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.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**ECHO:**

Envid: 1000618297  
 Registry ID: 110003192740  
 DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110003192740>

**H27**  
**East**  
**1/8-1/4**  
**0.241 mi.**  
**1274 ft.**

**MISSOURI RIVER DISPOSAL AREA (052-MIS)**

**KS CITY DUMPS** **S116405825**  
**N/A**

**LEAVENWORTH, KS**

**Site 1 of 2 in cluster H**

**Relative:**  
**Higher**  
**Actual:**  
**869 ft.**

**CITY DUMPS:**  
 1st Qtr: Not reported  
 2nd Qtr: Not reported  
 3rd Qtr: Not reported  
 4th Qtr: Not reported  
 Section: Not reported  
 Township: Not reported  
 Range: Not reported  
 Latitude: 39.2961  
 Longitude: -94.90215

**H28**  
**East**  
**1/8-1/4**  
**0.242 mi.**  
**1276 ft.**

**MISSOURI RIVER DISPOSAL AREA (052-MIS)**

**KS SWF/LF** **S106407693**  
**N/A**

**LEAVENWORTH, KS**

**Site 2 of 2 in cluster H**

**Relative:**  
**Higher**  
**Actual:**  
**869 ft.**

**SWF/LF:**  
 Facility Status: Closed: post-closure care completed/not required  
 Permit Number: Not reported  
 Owner Type: City  
 Owner Name: City of Leavenworth

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MISSOURI RIVER DISPOSAL AREA (052-MIS) (Continued)**

**S106407693**

Facility Phone: Not reported  
 Permit Type: City Dump  
 Permit Code: D-dump  
 Solid Waste Key: Not reported  
 Permittee Name: Not reported  
 BWM Permit Manager: Not reported  
 Past Permit Types: Not reported  
 BWM Hydrology Manager: Not reported  
 BER Oversight: City Dump  
 BER Project Manager: Not reported  
 Special Facility/Waste Types: Not reported  
 Industrial Waste Types: Not reported  
 District: Not reported  
 Hours of Operation: Not reported  
 Comments: Not reported  
 Directions: 1st & Thornton

**I29**  
**NE**  
**1/8-1/4**  
**0.245 mi.**  
**1296 ft.**

**LEAVENWORTH WWTP**  
**1800 S 2ND**  
**LEAVENWORTH, KS 66048**  
**Site 1 of 4 in cluster I**

**RCRA NonGen / NLR 1004501245**  
**KSD000639542**

**Relative:**  
**Lower**  
**Actual:**  
**765 ft.**

RCRA NonGen / NLR:  
 Date form received by agency: 08/25/1980  
 Facility name: LEAVENWORTH WWTP  
 Facility address: 1800 S 2ND  
 LEAVENWORTH, KS 66048  
 EPA ID: KSD000639542  
 Mailing address: CITY HALL  
 LEAVENWORTH, KS 66048  
 Contact: ROBERT TUCKER  
 Contact address: CITY HALL  
 LEAVENWORTH, KS 66048  
 Contact country: US  
 Contact telephone: 913-682-9201  
 Contact email: Not reported  
 EPA Region: 07  
 Classification: Non-Generator  
 Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:  
 Owner/operator name: LEAVENWORTH CITY OF  
 Owner/operator address: Not reported  
 Not reported  
 Owner/operator country: Not reported  
 Owner/operator telephone: Not reported  
 Owner/operator email: Not reported  
 Owner/operator fax: Not reported  
 Owner/operator extension: Not reported  
 Legal status: Municipal  
 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

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEAVENWORTH WWTP (Continued)**

1004501245

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

Violation Status: No violations found

30  
SSE  
1/4-1/2  
0.259 mi.  
1368 ft.

**CITY OF LEAVENWORTH-BESEL ROOFING (052-BEL)**

KS CITY DUMPS S121828505  
N/A

**LEAVENWORTH (County), KS**

Relative:  
Higher  
Actual:  
784 ft.

CITY DUMPS:  
1st Qtr: Not reported  
2nd Qtr: Not reported  
3rd Qtr: Not reported  
4th Qtr: Not reported  
Section: Not reported  
Township: Not reported  
Range: Not reported  
Latitude: 39.2916  
Longitude: -94.90515

I31  
NE  
1/4-1/2  
0.274 mi.  
1449 ft.

**CITY OF LEAVENWORTH  
1803 SOUTH 2ND  
LEAVENWORTH, KS 66048**

KS SWF/LF S109088807  
N/A

**Site 2 of 4 in cluster I**

Relative:  
Lower  
Actual:  
774 ft.

SWF/LF:  
Facility Status: Active  
Permit Number: Not reported  
Owner Type: City  
Owner Name: City of Leavenworth  
Facility Phone: Not reported  
Permit Type: Composting  
Permit Code: R-registered  
Solid Waste Key: Not reported  
Permittee Name: City of Leavenworth  
BWM Permit Manager: Not reported  
Past Permit Types: Not reported  
BWM Hydrology Manager: Not reported  
BER Oversight: Not reported  
BER Project Manager: Not reported  
Special Facility/Waste Types: Composting: yard waste  
Industrial Waste Types: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

CITY OF LEAVENWORTH (Continued)

S109088807

District: Not reported  
Hours of Operation: Not reported  
Comments: Not reported  
Directions: East of railroad track at end of 2nd street

I32  
NE  
1/4-1/2  
0.278 mi.  
1470 ft.

MIDLAND FUMIGANTS  
1801 S. 2ND STREET  
LEAVENWORTH, KS

KS SHWS S109149966  
N/A

Site 3 of 4 in cluster I

Relative:  
Lower

SHWS:

Actual:  
775 ft.

Site ID: 2327  
Has Env Use Control: No  
Project code: C405272382  
PM Name: TRANSFERRED  
**Site Status: Transferred out of the bureau**  
District Office: NEDO  
Lat/Long: 39.29957 / -94.903832  
River Basin: Not reported  
Aquifer Yield: Not reported  
Other Aquifers: Not reported  
Parent PC: Not reported  
Parent Name: Not reported  
CERCLIS ID: Not reported  
Discovery Date: Not reported  
Depth To GW: 11-20 feet  
Depth To Bedrock: 11-20 feet  
Aquifer Yield: 0-10 gpm  
GW Flow Direction: NE  
Acres Affected: <5 acres  
Waste Present: No  
Product Present: No  
Program: Site Assessment  
Lead Agency: BER - Assessment and Restoration  
Contaminants: Heavy Metal, Inorganic, VOC  
Media Act: Ground Water, Soil  
Media Pot: Not reported  
Source: Facility Operations  
Land Use: Commercial  
Private well: Industrial  
Waste Present: Not reported  
Product: Not reported  
Receptor Act: Human  
Receptor Pot: Not reported  
Remed Air: Not reported  
Remed Soil: Not reported  
Remed Water: Not reported  
Remedir: Not reported  
Alias: Not reported  
Eucan Number: Not reported  
Date: Not reported  
Activity Type: Preliminary Assessment (PA)  
Activity Status: Completed  
Activity Start Date: Not reported  
Activity End Date: 06/27/2008  
Narrative: The Midland Fumigants site is located at 1807 S. 2nd Street in Leavenworth, Leavenworth County, Kansas. Multiple inspections were



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MIDLAND FUMIGANTS (Continued)**

**S109149966**

conducted by EPA at Midland between 1999 and 2004. EPA issued a Unilateral Administrative Order (UAO) in April 2005 pursuant to CERCLA and RCRA to compel Midland to complete disposal of the fumigant products stored at the site that were not reusable. The final disposal occurred on December 27, 2007, of 34,827 pounds of aluminum phosphide. A joint EPA RCRA and CERCLA inspection was conducted during packaging of the final shipment in November 2007, that found site conditions to be satisfactory regarding the UAO.

During the PA, three ground water and eight soil samples were obtained at the site. Arsenic was identified in S-1 above residential RSK levels but within regional background levels. Phosphorus was identified above three times background in three samples but these did not have associated elevated detections of aluminum. Ground water indicated trace levels of volatile organic compounds (VOCs) both in the up- and down-gradient samples below RSK levels. The Midland site does not appear to be a significant source of contamination to soils or ground water.

Since removal action activities have been completed, and a significant release of hazardous substances, pollutants or contaminants was not identified at the Midland site, a qualifier of ?no further remedial action planned? (NFRAP) appears to be appropriate. The site is recommended to be entered with an ?N? qualifier. Additional RCRA documentation requirements may be present in the UAO that are the responsibility of Midland under the UAO.

Site ID: 2327  
Has Env Use Control: No  
Project code: C405272382  
PM Name: TRANSFERRED  
**Site Status: Transferred out of the bureau**  
District Office: NEDO  
Lat/Long: 39.29957 / -94.903832  
River Basin: Not reported  
Aquifer Yield: Not reported  
Other Aquifers: Not reported  
Parent PC: Not reported  
Parent Name: Not reported  
CERCLIS ID: Not reported  
Discovery Date: Not reported  
Depth To GW: 11-20 feet  
Depth To Bedrock: 11-20 feet  
Aquifer Yield: 0-10 gpm  
GW Flow Direction: NE  
Acres Affected: <5 acres  
Waste Present: No  
Product Present: No  
Program: Site Assessment  
Lead Agency: BER - Assessment and Restoration  
Contaminants: Heavy Metal, Inorganic, VOC  
Media Act: Ground Water, Soil  
Media Pot: Not reported  
Source: Facility Operations  
Land Use: Commercial  
Private well: Industrial  
Waste Present: Not reported  
Product: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MIDLAND FUMIGANTS (Continued)**

**S109149966**

Receptor Act: Human  
 Receptor Pot: Not reported  
 Remed Air: Not reported  
 Remed Soil: Not reported  
 Remed Water: Not reported  
 Remedir: Not reported  
 Alias: Not reported  
 Eucan Number: Not reported  
 Date: Not reported  
 Activity Type: Preliminary Assessment (PA)  
 Activity Status: Completed  
 Activity Start Date: Not reported  
 Activity End Date: 06/27/2008  
 Narrative:

The Midland Fumigants site is located at 1807 S. 2nd Street in Leavenworth, Leavenworth County, Kansas. Multiple inspections were conducted by EPA at Midland between 1999 and 2004. EPA issued a Unilateral Administrative Order (UAO) in April 2005 pursuant to CERCLA and RCRA to compel Midland to complete disposal of the fumigant products stored at the site that were not reusable. The final disposal occurred on December 27, 2007, of 34,827 pounds of aluminum phosphide. A joint EPA RCRA and CERCLA inspection was conducted during packaging of the final shipment in November 2007, that found site conditions to be satisfactory regarding the UAO.

During the PA, three ground water and eight soil samples were obtained at the site. Arsenic was identified in S-1 above residential RSK levels but within regional background levels. Phosphorus was identified above three times background in three samples but these did not have associated elevated detections of aluminum. Ground water indicated trace levels of volatile organic compounds (VOCs) both in the up- and down-gradient samples below RSK levels. The Midland site does not appear to be a significant source of contamination to soils or ground water.

Since removal action activities have been completed, and a significant release of hazardous substances, pollutants or contaminants was not identified at the Midland site, a qualifier of "no further remedial action planned" (NFRAP) appears to be appropriate. The site is recommended to be entered with an "N" qualifier. Additional RCRA documentation requirements may be present in the UAO that are the responsibility of Midland under the UAO.

**I33  
 NE  
 1/4-1/2  
 0.278 mi.  
 1470 ft.**

**MIDLAND FUMIGANTS INC.  
 1801 S. 2ND ST  
 LEAVENWORTH, KS 66048  
 Site 4 of 4 in cluster I**

**SEMS-ARCHIVE 1009396090  
 PRP KSN000705346**

**Relative:  
 Lower  
 Actual:  
 775 ft.**

SEMS Archive:  
 Site ID: 0705346  
 EPA ID: KSN000705346  
 Cong District: 02  
 FIPS Code: 20103  
 FF: N  
 NPL: Not on the NPL  
 Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:  
 Region: 07

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

MIDLAND FUMIGANTS INC. (Continued)

1009396090

Site ID: 0705346  
EPA ID: KSN000705346  
Site Name: MIDLAND FUMIGANTS INC.  
NPL: N  
FF: N  
OU: 00  
Action Code: VS  
Action Name: ARCH SITE  
SEQ: 1  
Start Date: Not reported  
Finish Date: 2012-04-04 04:00:00  
Qual: Not reported  
Current Action Lead: EPA Perf In-Hse

Region: 07  
Site ID: 0705346  
EPA ID: KSN000705346  
Site Name: MIDLAND FUMIGANTS INC.  
NPL: N  
FF: N  
OU: 00  
Action Code: CR  
Action Name: CI  
SEQ: 1  
Start Date: 2007-12-06 05:00:00  
Finish Date: 2007-12-27 05:00:00  
Qual: Not reported  
Current Action Lead: EPA Perf

Region: 07  
Site ID: 0705346  
EPA ID: KSN000705346  
Site Name: MIDLAND FUMIGANTS INC.  
NPL: N  
FF: N  
OU: 00  
Action Code: RS  
Action Name: RV ASSESS  
SEQ: 1  
Start Date: 2006-12-05 05:00:00  
Finish Date: 2007-02-06 05:00:00  
Qual: Not reported  
Current Action Lead: EPA Perf

Region: 07  
Site ID: 0705346  
EPA ID: KSN000705346  
Site Name: MIDLAND FUMIGANTS INC.  
NPL: N  
FF: N  
OU: 00  
Action Code: DS  
Action Name: DISCVRY  
SEQ: 1  
Start Date: 2005-01-01 05:00:00  
Finish Date: 2005-01-01 05:00:00  
Qual: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MIDLAND FUMIGANTS INC. (Continued)**

**1009396090**

Current Action Lead: EPA Perf

Region: 07  
Site ID: 0705346  
EPA ID: KSN000705346  
Site Name: MIDLAND FUMIGANTS INC.  
NPL: N  
FF: N  
OU: 00  
Action Code: BB  
Action Name: PRP RV  
SEQ: 1  
Start Date: 2007-02-06 05:00:00  
Finish Date: 2007-12-27 05:00:00  
Qual: C  
Current Action Lead: EPA Ovrsght

Region: 07  
Site ID: 0705346  
EPA ID: KSN000705346  
Site Name: MIDLAND FUMIGANTS INC.  
NPL: N  
FF: N  
OU: 00  
Action Code: PA  
Action Name: PA  
SEQ: 1  
Start Date: Not reported  
Finish Date: 2008-07-22 05:00:00  
Qual: N  
Current Action Lead: St Perf

PRP:  
PRP Name: MIDLAND FUMIGANTS INC

**34**  
**NE**  
**1/4-1/2**  
**0.313 mi.**  
**1652 ft.**

**CITY OF LEAVENWORTH-OLD CITY DUMP (052-LEA)**  
**LEAVENWORTH, KS**

**KS CITY DUMPS S116405426**  
**N/A**

**Relative:** CITY DUMPS:  
**Lower** 1st Qtr: NE  
**Actual:** 2nd Qtr: Not reported  
**767 ft.** 3rd Qtr: Not reported  
4th Qtr: Not reported  
Section: 01  
Township: 09S  
Range: 22E  
Latitude: 39.2991  
Longitude: -94.90236

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**35**  
**NW**  
**1/4-1/2**  
**0.359 mi.**  
**1896 ft.**

**LEAVENWORTH SERVICE CENTER**  
**1820 2ND AVE**  
**LEAVENWORTH, KS 66048**

**KS LUST**    **U000872821**  
**KS UST**     **N/A**

**Relative:**  
**Higher**  
  
**Actual:**  
**838 ft.**

LUST:

Facility ID:	25611
<b>Site Status:</b>	<b>Closed</b>
Release Date:	Not reported
Initial Report Date:	08/29/1994
Project Number:	U4-052-01708
Project Name:	Western Resources
Legal Desc Section:	36
Legal Desc Township:	08S
Legal Desc Range:	22E
Discover Date:	08/24/1994
substrels:	Not reported
Initial Ranking:	Not reported
Current Ranking:	Not reported
Facility Contact:	Not reported
Facility Phone Number:	Not reported
Facility Owner Identification number:	05556
Facility Owner:	Western Resources
Owner Contact Person:	Ross Mcdaniel
Owner Address:	818 Kansas, P.o. Box 889
Owner City:	Topeka
Owner State:	KS
Owner Zip Code:	66601
Owner Phone number:	785-575-6300
Contractor license number:	C0052
Contractor phone number:	816-625-7255
Leak duration (if known):	Not reported
Quantity released (if known):	Not reported
Quantity recorded:	Not reported
Leak Type:	Not reported
Reported By:	Not reported
Reported by persons phone number:	Not reported
Reported by person address:	Not reported
Ground water Impacted (yes/no):	clay
Static groundwater level:	Not reported
Groundwater flow direction:	Not reported
District staff names:	Meredith Roth
Assessment of release:	One 10,000 gallon gasoline and one 2,000 gallon diesel USTs were removed. The USTs were in separate excavations. There was no petroleum odor or discoloration. A small amount of backfill sand around the diesel fill pipe was discolored. Because it was
Contamination assesment:	Not reported
Extent of contamination impact:	no groundwater encountered.
Updated information:	Not reported
Invoice initiated:	19944
Invoice on going:	Not reported
Invoice completetd:	19944
Release confirmed:	Not reported
Emergency contact:	Not reported
Enforcement action:	Not reported
Cost recovery:	Not reported
Cost recovery initiated:	Not reported
Cost recovery initiated by:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEAVENWORTH SERVICE CENTER (Continued)**

**U000872821**

Cost recovery completed: Not reported  
Cost recovery completed by: Not reported  
Application to trust fund: Not reported

UST:

Facility ID: 25611  
Facility 911 Address: 1820 2ND  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: 1994-08-15 00:00:00  
Capacity (Gals): 10000  
Tank Internal Protection: Other  
24 Hour Phone Num: 913-682-4924  
Tank External Protection: Cat Prot  
Piping: Galv Steel, Cat Prot  
Facility Location Method: GARMIN 3 PLUS  
Facility Feature: Facility Center  
Facility Phone: 913-682-4924  
Tank Empty: Not reported  
Contact Name: F K Shumaker  
Contact Title: Division Superintend  
Owner ID: 05556  
Owner Type: Private Or Corp.  
Owner Name: WESTAR ENERGY %JARED MORRISON  
Owner Address: P.O. BOX 889  
Owner City: TOPEKA  
Owner State: KS  
Owner Zip: 66612  
Owner County: SHAWNEE  
Owner Phone: 785-575-8273  
QTY Remaining in Tank: Not reported  
Facility District: NE  
Tank ID: 001  
Tank Status: Permanently Out Of Use  
Installation Year: 1976  
Last Permit Printed: Not reported  
Current Permit Printed: Not reported  
Facility Datum: WGS84  
Out of service Mo/Yr: 081994  
Material of Construction: Steel  
Petroleum Substance: Gas (Incl Alcohol)  
Owner Replacement Name: JARED MORRISON  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Fire, Chronic, Acute  
Principal CERCLA Substance/Chem Abstract Service Num: 8006-61-9  
Latitude: 39.29915  
Longitude: -94.91410

Facility ID: 25611  
Facility 911 Address: 1820 2ND  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: 1994-08-15 00:00:00  
Capacity (Gals): 2000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LEAVENWORTH SERVICE CENTER (Continued)**

**U000872821**

Tank Internal Protection: Unknown  
 24 Hour Phone Num: 913-682-4924  
 Tank External Protection: Unknown  
 Piping: Unknown  
 Facility Location Method: GARMIN 3 PLUS  
 Facility Feature: Facility Center  
 Facility Phone: 913-682-4924  
 Tank Empty: Not reported  
 Contact Name: F K Shumaker  
 Contact Title: Division Superintend  
 Owner ID: 05556  
 Owner Type: Private Or Corp.  
 Owner Name: WESTAR ENERGY %JARED MORRISON  
 Owner Address: P.O. BOX 889  
 Owner City: TOPEKA  
 Owner State: KS  
 Owner Zip: 66612  
 Owner County: SHAWNEE  
 Owner Phone: 785-575-8273  
 QTY Remaining in Tank: Not reported  
 Facility District: NE  
 Tank ID: 002  
 Tank Status: Permanently Out Of Use  
 Installation Year: 1966  
 Last Permit Printed: Not reported  
 Current Permit Printed: Not reported  
 Facility Datum: WGS84  
 Out of service Mo/Yr: 081994  
 Material of Construction: Steel  
 Petroleum Substance: Diesel  
 Owner Replacement Name: JARED MORRISON  
 NonPetroleum Substance: Not reported  
 Owner Replacement Title: Not reported  
 Hazards: Not reported  
 Principal CERCLA Substance/Chem Abstract Service Num: Not reported  
 Latitude: 39.29915  
 Longitude: -94.91410

36  
SSE  
1/4-1/2  
0.441 mi.  
2328 ft.

**CITY OF LEAVENWORTH 2ND & LIMIT DUMP (052-2ND-LIM)**

**KS CITY DUMPS S121828503  
N/A**

**LEAVENWORTH (County), KS**

**Relative:  
Higher  
Actual:  
795 ft.**

CITY DUMPS:  
 1st Qtr: Not reported  
 2nd Qtr: Not reported  
 3rd Qtr: Not reported  
 4th Qtr: Not reported  
 Section: Not reported  
 Township: Not reported  
 Range: Not reported  
 Latitude: 39.2889  
 Longitude: -94.90506

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**J37**      **LEAVENWORTH COUNTY EMERGENCY M**  
**South**    **4TH & LIMIT STREETS**  
**1/4-1/2**   **LEAVENWORTH, KS 66048**  
**0.444 mi.**  
**2346 ft.**   **Site 1 of 2 in cluster J**

**KS LUST**   **U000873730**  
**KS UST**    **N/A**

**Relative:**  
**Higher**  
**Actual:**  
**823 ft.**

**LUST:**  
 Facility ID: 27533  
**Site Status: Closed**  
 Release Date: Not reported  
 Initial Report Date: 03/07/1997  
 Project Number: U4-052-11434  
 Project Name: Leavenworth Co, Emerg Medical  
 Legal Desc Section: 01  
 Legal Desc Township: 09S  
 Legal Desc Range: 22E  
 Discover Date: Not reported  
 substrels: Not reported  
 Initial Ranking: Not reported  
 Current Ranking: Not reported  
 Facility Contact: Not reported  
 Facility Phone Number: 913-682-6604  
 Facility Owner Identification number: 04477  
 Facility Owner: Leavenworth County  
 Owner Contact Person: Joe Daniels  
 Owner Address: Lv Co Courthouse 4th & Walnut  
 Owner City: Leavenworth  
 Owner State: KS  
 Owner Zip Code: 66048  
 Owner Phone number: Not reported  
 Contractor license number: C0112  
 Contractor phone number: Not reported  
 Leak duration (if known): Not reported  
 Quantity released (if known): Not reported  
 Quantity recorded: Not reported  
 Leak Type: Not reported  
 Reported By: Not reported  
 Reported by persons phone number: Not reported  
 Reported by person address: Not reported  
 Ground water Impacted (yes/no): brown clay  
 Static groundwater level: Not reported  
 Groundwater flow direction: Not reported  
 District staff names: Meredith Roth  
 Assessment of release: 1-8000 gal ust removed. no stain/odor. sample indicated soil is below kdhe action levels.  
 Contamination assesement: Not reported  
 Extent of contamination impact: Not reported  
 Updated information: Not reported  
 Invoice initiated: 19972  
 Invoice on going: Not reported  
 Invoice completetd: 19972  
 Release confirmed: Not reported  
 Emergency contact: Not reported  
 Enforcement action: Not reported  
 Cost recovery: Not reported  
 Cost recovery initiated: Not reported  
 Cost recovery initiated by: Not reported  
 Cost recovery completed: Not reported  
 Cost recovery completed by: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

LEAVENWORTH COUNTY EMERGENCY M (Continued)

U000873730

Application to trust fund: Not reported

UST:

Facility ID: 27533  
Facility 911 Address: 4TH & LIMIT  
Facility 911 City: LEAVENWORTH  
Facility 911 State: KS  
Facility 911 Zip: 66048  
Date Removed: 1997-03-15 00:00:00  
Capacity (Gals): 8000  
Tank Internal Protection: None  
24 Hour Phone Num: 913-682-6604  
Tank External Protection: Cat Prot, Painted  
Piping: Galv Steel  
Facility Location Method: GARMIN 3 PLUS  
Facility Feature: Facility Center  
Facility Phone: 913-682-6604  
Tank Empty: Not reported  
Contact Name: Dan Stateson  
Contact Title: Ems Director  
Owner ID: 04477  
Owner Type: State Or Local Govt.  
Owner Name: LEAVENWORTH COUNTY - COURTHOUS  
Owner Address: 300 WALNUT  
Owner City: LEAVENWORTH  
Owner State: KS  
Owner Zip: 66048  
Owner County: LEAVENWORTH  
Owner Phone: 913-684-0467  
QTY Remaining in Tank: Not reported  
Facility District: NE  
Tank ID: 001  
Tank Status: Permanently Out Of Use  
Installation Year: 1986  
Last Permit Printed: 1996-06-17 00:00:00  
Current Permit Printed: Not reported  
Facility Datum: WGS84  
Out of service Mo/Yr: 031997  
Material of Construction: Steel  
Petroleum Substance: Gas (Incl Alcohol)  
Owner Replacement Name: CHRIS COLLINS  
NonPetroleum Substance: Not reported  
Owner Replacement Title: Not reported  
Hazards: Fire, Chronic, Acute  
Principal CERCLA Substance/Chem Abstract Service Num: 8006-61-9  
Latitude: 39.28886  
Longitude: -94.90645

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**J38**  
**South**  
**1/4-1/2**  
**0.488 mi.**  
**2579 ft.**

**DAYLIGHT DONUTS**  
**2906 S. 4TH ST.**  
**LEAVENWORTH, KS 66048**

**KS LUST**    **S106531471**  
**N/A**

**Site 2 of 2 in cluster J**

**Relative:**  
**Higher**  
**Actual:**  
**830 ft.**

**LUST:**

Facility ID:	82436
<b>Site Status:</b>	<b>Closed</b>
Release Date:	Not reported
Initial Report Date:	09/16/2002
Project Number:	U4-052-13292
Project Name:	Daylight Donuts
Legal Desc Section:	12
Legal Desc Township:	09S
Legal Desc Range:	22E
Discover Date:	09/04/2002
substrels:	Gasoline
Initial Ranking:	31
Current Ranking:	31.00000
Facility Contact:	Not reported
Facility Phone Number:	Not reported
Facility Owner Identification number:	82436
Facility Owner:	Rottinghouse Real Estate
Owner Contact Person:	Cory Skinner
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Phone number:	816-809-1257
Contractor license number:	Not reported
Contractor phone number:	913-321-8100
Leak duration (if known):	Not reported
Quantity released (if known):	Not reported
Quantity recorded:	Not reported
Leak Type:	Other
Reported By:	Dennis Wike
Reported by persons phone number:	Not reported
Reported by person address:	Not reported
Ground water Impacted (yes/no):	Brown, tight, plastic clay.
Static groundwater level:	10
Groundwater flow direction:	NE
District staff names:	Danial Wells
Assessment of release:	No specific leakage incident has been reported to KDHE.
Contamination assesement:	A Lust site is present immediately south of this property. It appears some contamination has migrated onto this property.
Extent of contamination impact:	The extent of groundwater contamination, if present, has not been determined on this site.
Updated information:	Soil samples were collected as part of a geotechnical investigation conducted by Maxim in response to new development of this property. Two tanks were removed from this site in 1985 by Diversified Builders. It is unknown when the tanks were last used b
Invoice initiated:	20024
Invoice on going:	Not reported
Invoice completetd:	20024
Release confirmed:	20024
Emergency contact:	Not reported
Enforcement action:	Not reported
Cost recovery:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DAYLIGHT DONUTS (Continued)**

**S106531471**

Cost recovery initiated: 20031  
Cost recovery initiated by: State W. Fed. Trust Fund  
Cost recovery completed: 20032  
Cost recovery completed by: State W. Fed. Trust Fund  
Application to trust fund: Not reported

**K39**  
**SSE**  
**1/2-1**  
**0.816 mi.**  
**4311 ft.**

**BLOCK PROPERTY #2**

**KS SHWS S108047946**  
**N/A**

**LEAVENWORTH, KS**

**Site 1 of 2 in cluster K**

**Relative:**  
**Higher**

**SHWS:**

**Actual:**  
**822 ft.**

Site ID: 2117  
Has Env Use Control: No  
Project code: C405272175  
PM Name: BER - A&R  
**Site Status: Resolved**  
District Office: NEDO  
Lat/Long: 39.28385 / -94.90219  
River Basin: Not reported  
Aquifer Yield: Not reported  
Other Aquifers: Not reported  
Parent PC: Not reported  
Parent Name: Not reported  
CERCLIS ID: Not reported  
Discovery Date: Not reported  
Depth To GW: 21-30 feet  
Depth To Bedrock: 21-30 feet  
Aquifer Yield: 0-10 gpm  
GW Flow Direction: NE  
Acres Affected: <5 acres  
Waste Present: No  
Product Present: No  
Program: Site Assessment  
Lead Agency: BER - Assessment and Restoration  
Contaminants: Not reported  
Media Act: Not reported  
Media Pot: Not reported  
Source: Not reported  
Land Use: Not reported  
Private well: Not reported  
Waste Present: Not reported  
Product: Not reported  
Receptor Act: Not reported  
Receptor Pot: Not reported  
Remed Air: Not reported  
Remed Soil: Not reported  
Remed Water: Not reported  
Remedir: Not reported  
Alias: Not reported  
Eucan Number: Not reported  
Date: Not reported  
Activity Type: Initial Site Screening  
Activity Status: Completed  
Activity Start Date: Not reported  
Activity End Date: 06/26/2006  
Narrative: The Block Property #2 site is located in Leavenworth adjacent to the

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BLOCK PROPERTY #2 (Continued)**

**S108047946**

Sonny Hill car dealership. In 1989 KDHE sent a letter to the property owner, David Block, instructing him to address visible contamination at the site. The contamination appeared to be emanating from an old storm sewer or septic tank outfall into a nearby drainage ditch. Oil and petroleum wastes were being released from the storm/septic sewer pipe. At the time of the letter, the property was being leased by Sonny Hill Autos as a car lot and repair facility.

Upon a more detailed file review, this site area is presently included within the Sonny Hill Jeep/Eagle Voluntary Cleanup and Property Redevelopment Program (VCPRP) site. A phased Voluntary Cleanup Investigation (VCI) is underway at the site which includes addressing the surface water discharge.

Since this site is part of an existing active VCPRP site, it appears no further site assessment is necessary under the Comprehensive Environmental Response, Compensation and Liabilities Act (CERCLA). This site does not appear in the active or archived list of CERCLA sites.

Site ID: 2117  
Has Env Use Control: No  
Project code: C405272175  
PM Name: BER - A&R  
**Site Status: Resolved**  
District Office: NEDO  
Lat/Long: 39.28385 / -94.90219  
River Basin: Not reported  
Aquifer Yield: Not reported  
Other Aquifers: Not reported  
Parent PC: Not reported  
Parent Name: Not reported  
CERCLIS ID: Not reported  
Discovery Date: Not reported  
Depth To GW: 21-30 feet  
Depth To Bedrock: 21-30 feet  
Aquifer Yield: 0-10 gpm  
GW Flow Direction: NE  
Acres Affected: <5 acres  
Waste Present: No  
Product Present: No  
Program: Site Assessment  
Lead Agency: BER - Assessment and Restoration  
Contaminants: Not reported  
Media Act: Not reported  
Media Pot: Not reported  
Source: Not reported  
Land Use: Not reported  
Private well: Not reported  
Waste Present: Not reported  
Product: Not reported  
Receptor Act: Not reported  
Receptor Pot: Not reported  
Remed Air: Not reported  
Remed Soil: Not reported  
Remed Water: Not reported  
Remedir: Not reported  
Alias: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**BLOCK PROPERTY #2 (Continued)**

**S108047946**

Eucan Number: Not reported  
 Date: Not reported  
 Activity Type: Initial Site Screening  
 Activity Status: Completed  
 Activity Start Date: Not reported  
 Activity End Date: 06/26/2006  
 Narrative: The Block Property #2 site is located in Leavenworth adjacent to the Sonny Hill car dealership. In 1989 KDHE sent a letter to the property owner, David Block, instructing him to address visible contamination at the site. The contamination appeared to be emanating from an old storm sewer or septic tank outfall into a nearby drainage ditch. Oil and petroleum wastes were being released from the storm/septic sewer pipe. At the time of the letter, the property was being leased by Sonny Hill Autos as a car lot and repair facility.  
 Upon a more detailed file review, this site area is presently included within the Sonny Hill Jeep/Eagle Voluntary Cleanup and Property Redevelopment Program (VCPRP) site. A phased Voluntary Cleanup Investigation (VCI) is underway at the site which includes addressing the surface water discharge.  
 Since this site is part of an existing active VCPRP site, it appears no further site assessment is necessary under the Comprehensive Environmental Response, Compensation and Liabilities Act (CERCLA). This site does not appear in the active or archived list of CERCLA sites.

**K40**  
**SSE**  
 1/2-1  
 0.817 mi.  
 4312 ft.

**SONNY HILL JEEP EAGLE - LEAVENWORTH**  
**3501 S 4TH**  
**LEAVENWORTH, KS 66048**

**KS SHWS 1004347478**  
**KS VCP N/A**

**Site 2 of 2 in cluster K**

**Relative:**  
**Higher**  
**Actual:**  
**829 ft.**

SHWS:  
 Site ID: 1075  
 Has Env Use Control: No  
 Project code: C405270229  
 PM Name: ROSS, D.  
**Site Status: Active**  
 District Office: NEDO  
 Lat/Long: 39.28385 / -94.90219  
 River Basin: Missouri  
 Aquifer Yield: Not reported  
 Other Aquifers: Not reported  
 Parent PC: Not reported  
 Parent Name: Not reported  
 CERCLIS ID: Not reported  
 Discovery Date: Not reported  
 Depth To GW: 0-10 feet  
 Depth To Bedrock: 11-20 feet  
 Aquifer Yield: 0-10 gpm  
 GW Flow Direction: NE  
 Acres Affected: <5 acres  
 Waste Present: No  
 Product Present: No  
 Program: Voluntary Cleanup  
 Lead Agency: BER - Redevelopment  
 Contaminants: Refined Petroleum, VOC  
 Media Act: Ground Water, Soil, Surface Water

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SONNY HILL JEEP EAGLE - LEAVENWORTH (Continued)**

**1004347478**

Media Pot: Not reported  
Source: Septic Tank, Other (see Site Narrative)  
Land Use: Commercial, Industrial  
Private well: Not reported  
Waste Present: Not reported  
Product: Not reported  
Receptor Act: Not reported  
Receptor Pot: Not reported  
Remed Air: Not reported  
Remed Soil: Not reported  
Remed Water: Not reported  
Remedir: Not reported  
Alias: BMD PROPERTY; SONNY HILL MOTORS - LEAVENWORTH  
Eucan Number: Not reported  
Date: Not reported  
Activity Type: Voluntary Cleanup Proposal  
Activity Status: Proposed  
Activity Start Date: 05/24/2006  
Activity End Date: Not reported  
Narrative: Mr. Bob Mitchell, the Managing Partner with JDM Properties, LLC, submitted an application to the VCPRP on April 3, 2002. The future use of the property will be equipment rental. At the time of VCPRP application, the property was vacant.  
The contamination on the site was discovered during a site investigation conducted in 1990. Petroleum hydrocarbons and chlorinated volatile organic compounds (VOC?s) were found in soils and groundwater. Additionally, there is a storm drain inlet point near the northeast corner of the site which ultimately discharges into a nearby creek. Oil was found in the creek which resulted in the installation of a low flow oil/water separator and a multiple baffled weir in the sewer inlet and outlet. The contamination source was an improperly used septic tank which has been removed from the property.  
Property was accepted into VCPRP on 05/08/02. Additional subsurface investigation was conducted in September 2002 for delineation of contamination in groundwater and soil. Report of investigation results received by KDHE 11/19/02. Requests were made by KDHE for additional delineation efforts in January and May of 2003. In June of 2003, the voluntary party sent documentation to KDHE requesting an extension for the work requested by KDHE due to financial hardship. In October of 2003, KDHE contacted the Voluntary Party for a status on the property.  
The demonstration of financial hardship is pending. The results that were received in Feb. 2006 for the latest groundwater sampling indicated that contaminants are decreasing and are not leaving the property. The site is ready to enter into the cleanup phase.  
Delineation of groundwater and soil contamination has been achieved and KDHE has requested a VC Proposal.  
A new voluntary agreement was executed 4/4/2012. Additional groundwater sampling conducted. Latest groundwater monitoring report approved December 2013.  
The Voluntary Party has requested to terminate the Voluntary Agreement. Terminated agreement on 09/10/2015.

Site ID: 1075

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SONNY HILL JEEP EAGLE - LEAVENWORTH (Continued)**

**1004347478**

Has Env Use Control: No  
Project code: C405270229  
PM Name: ROSS, D.  
**Site Status: Active**  
District Office: NEDO  
Lat/Long: 39.28385 / -94.90219  
River Basin: Missouri  
Aquifer Yield: Not reported  
Other Aquifers: Not reported  
Parent PC: Not reported  
Parent Name: Not reported  
CERCLIS ID: Not reported  
Discovery Date: Not reported  
Depth To GW: 0-10 feet  
Depth To Bedrock: 11-20 feet  
Aquifer Yield: 0-10 gpm  
GW Flow Direction: NE  
Acres Affected: <5 acres  
Waste Present: No  
Product Present: No  
Program: Voluntary Cleanup  
Lead Agency: BER - Redevelopment  
Contaminants: Refined Petroleum, VOC  
Media Act: Ground Water, Soil, Surface Water  
Media Pot: Not reported  
Source: Septic Tank, Other (see Site Narrative)  
Land Use: Commercial, Industrial  
Private well: Not reported  
Waste Present: Not reported  
Product: Not reported  
Receptor Act: Not reported  
Receptor Pot: Not reported  
Remed Air: Not reported  
Remed Soil: Not reported  
Remed Water: Not reported  
Remedir: Not reported  
Alias: BMD PROPERTY; SONNY HILL MOTORS - LEAVENWORTH  
Eucan Number: Not reported  
Date: Not reported  
Activity Type: Voluntary Cleanup Proposal  
Activity Status: Proposed  
Activity Start Date: 05/24/2006  
Activity End Date: Not reported  
Narrative:

Mr. Bob Mitchell, the Managing Partner with JDM Properties, LLC, submitted an application to the VCPRP on April 3, 2002. The future use of the property will be equipment rental. At the time of VCPRP application, the property was vacant.

The contamination on the site was discovered during a site investigation conducted in 1990. Petroleum hydrocarbons and chlorinated volatile organic compounds (VOC?s) were found in soils and groundwater. Additionally, there is a storm drain inlet point near the northeast corner of the site which ultimately discharges into a nearby creek. Oil was found in the creek which resulted in the installation of a low flow oil/water separator and a multiple baffled weir in the sewer inlet and outlet. The contamination source was an improperly used septic tank which has been removed from the property.

Property was accepted into VCPRP on 05/08/02. Additional subsurface

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SONNY HILL JEEP EAGLE - LEAVENWORTH (Continued)**

**1004347478**

investigation was conducted in September 2002 for delineation of contamination in groundwater and soil. Report of investigation results received by KDHE 11/19/02. Requests were made by KDHE for additional delineation efforts in January and May of 2003. In June of 2003, the voluntary party sent documentation to KDHE requesting an extension for the work requested by KDHE due to financial hardship. In October of 2003, KDHE contacted the Voluntary Party for a status on the property.

The demonstration of financial hardship is pending. The results that were received in Feb. 2006 for the latest groundwater sampling indicated that contaminants are decreasing and are not leaving the property. The site is ready to enter into the cleanup phase.

Delineation of groundwater and soil contamination has been achieved and KDHE has requested a VC Proposal.

A new voluntary agreement was executed 4/4/2012. Additional groundwater sampling conducted. Latest groundwater monitoring report approved December 2013.

The Voluntary Party has requested to terminate the Voluntary Agreement. Terminated agreement on 09/10/2015.

Site ID: 1075  
Has Env Use Control: No  
Project code: C405270229  
PM Name: ROSS, D.  
**Site Status: Active**  
District Office: NEDO  
Lat/Long: 39.28385 / -94.90219  
River Basin: Missouri  
Aquifer Yield: Not reported  
Other Aquifers: Not reported  
Parent PC: Not reported  
Parent Name: Not reported  
CERCLIS ID: Not reported  
Discovery Date: Not reported  
Depth To GW: 0-10 feet  
Depth To Bedrock: 11-20 feet  
Aquifer Yield: 0-10 gpm  
GW Flow Direction: NE  
Acres Affected: <5 acres  
Waste Present: No  
Product Present: No  
Program: Voluntary Cleanup  
Lead Agency: BER - Redevelopment  
Contaminants: Refined Petroleum, VOC  
Media Act: Ground Water, Soil, Surface Water  
Media Pot: Not reported  
Source: Septic Tank, Other (see Site Narrative)  
Land Use: Commercial, Industrial  
Private well: Not reported  
Waste Present: Not reported  
Product: Not reported  
Receptor Act: Not reported  
Receptor Pot: Not reported  
Remed Air: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SONNY HILL JEEP EAGLE - LEAVENWORTH (Continued)**

**1004347478**

Remed Soil: Not reported  
Remed Water: Not reported  
Remedir: Not reported  
Alias: BMD PROPERTY; SONNY HILL MOTORS - LEAVENWORTH  
Eucan Number: Not reported  
Date: Not reported  
Activity Type: Voluntary Cleanup Proposal  
Activity Status: Proposed  
Activity Start Date: 05/24/2006  
Activity End Date: Not reported  
Narrative: Mr. Bob Mitchell, the Managing Partner with JDM Properties, LLC, submitted an application to the VCPRP on April 3, 2002. The future use of the property will be equipment rental. At the time of VCPRP application, the property was vacant.  
The contamination on the site was discovered during a site investigation conducted in 1990. Petroleum hydrocarbons and chlorinated volatile organic compounds (VOC?s) were found in soils and groundwater. Additionally, there is a storm drain inlet point near the northeast corner of the site which ultimately discharges into a nearby creek. Oil was found in the creek which resulted in the installation of a low flow oil/water separator and a multiple baffled weir in the sewer inlet and outlet. The contamination source was an improperly used septic tank which has been removed from the property.  
Property was accepted into VCPRP on 05/08/02. Additional subsurface investigation was conducted in September 2002 for delineation of contamination in groundwater and soil. Report of investigation results received by KDHE 11/19/02. Requests were made by KDHE for additional delineation efforts in January and May of 2003. In June of 2003, the voluntary party sent documentation to KDHE requesting an extension for the work requested by KDHE due to financial hardship. In October of 2003, KDHE contacted the Voluntary Party for a status on the property.  
The demonstration of financial hardship is pending. The results that were received in Feb. 2006 for the latest groundwater sampling indicated that contaminants are decreasing and are not leaving the property. The site is ready to enter into the cleanup phase.  
Delineation of groundwater and soil contamination has been achieved and KDHE has requested a VC Proposal.  
A new voluntary agreement was executed 4/4/2012. Additional groundwater sampling conducted. Latest groundwater monitoring report approved December 2013.  
The Voluntary Party has requested to terminate the Voluntary Agreement. Terminated agreement on 09/10/2015.

Site ID: 1075  
Has Env Use Control: No  
Project code: C405270229  
PM Name: ROSS, D.  
**Site Status: Active**  
District Office: NEDO  
Lat/Long: 39.28385 / -94.90219  
River Basin: Missouri  
Aquifer Yield: Not reported  
Other Aquifers: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SONNY HILL JEEP EAGLE - LEAVENWORTH (Continued)**

**1004347478**

Parent PC: Not reported  
Parent Name: Not reported  
CERCLIS ID: Not reported  
Discovery Date: Not reported  
Depth To GW: 0-10 feet  
Depth To Bedrock: 11-20 feet  
Aquifer Yield: 0-10 gpm  
GW Flow Direction: NE  
Acres Affected: <5 acres  
Waste Present: No  
Product Present: No  
Program: Voluntary Cleanup  
Lead Agency: BER - Redevelopment  
Contaminants: Refined Petroleum, VOC  
Media Act: Ground Water, Soil, Surface Water  
Media Pot: Not reported  
Source: Septic Tank, Other (see Site Narrative)  
Land Use: Commercial, Industrial  
Private well: Not reported  
Waste Present: Not reported  
Product: Not reported  
Receptor Act: Not reported  
Receptor Pot: Not reported  
Remed Air: Not reported  
Remed Soil: Not reported  
Remed Water: Not reported  
Remedir: Not reported  
Alias: BMD PROPERTY; SONNY HILL MOTORS - LEAVENWORTH  
Eucan Number: Not reported  
Date: Not reported  
Activity Type: Voluntary Cleanup Proposal  
Activity Status: Proposed  
Activity Start Date: 05/24/2006  
Activity End Date: Not reported  
Narrative:

Mr. Bob Mitchell, the Managing Partner with JDM Properties, LLC, submitted an application to the VCPRP on April 3, 2002. The future use of the property will be equipment rental. At the time of VCPRP application, the property was vacant.

The contamination on the site was discovered during a site investigation conducted in 1990. Petroleum hydrocarbons and chlorinated volatile organic compounds (VOC?s) were found in soils and groundwater. Additionally, there is a storm drain inlet point near the northeast corner of the site which ultimately discharges into a nearby creek. Oil was found in the creek which resulted in the installation of a low flow oil/water separator and a multiple baffled weir in the sewer inlet and outlet. The contamination source was an improperly used septic tank which has been removed from the property.

Property was accepted into VCPRP on 05/08/02. Additional subsurface investigation was conducted in September 2002 for delineation of contamination in groundwater and soil. Report of investigation results received by KDHE 11/19/02. Requests were made by KDHE for additional delineation efforts in January and May of 2003. In June of 2003, the voluntary party sent documentation to KDHE requesting an extension for the work requested by KDHE due to financial hardship. In October of 2003, KDHE contacted the Voluntary Party for a status on the property.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SONNY HILL JEEP EAGLE - LEAVENWORTH (Continued)**

**1004347478**

The demonstration of financial hardship is pending. The results that were received in Feb. 2006 for the latest groundwater sampling indicated that contaminants are decreasing and are not leaving the property. The site is ready to enter into the cleanup phase.

Delineation of groundwater and soil contamination has been achieved and KDHE has requested a VC Proposal.

A new voluntary agreement was executed 4/4/2012. Additional groundwater sampling conducted. Latest groundwater monitoring report approved December 2013.

The Voluntary Party has requested to terminate the Voluntary Agreement. Terminated agreement on 09/10/2015.

Site ID: 1075  
Has Env Use Control: No  
Project code: C405270229  
PM Name: ROSS, D.  
**Site Status: Active**  
District Office: NEDO  
Lat/Long: 39.28385 / -94.90219  
River Basin: Missouri  
Aquifer Yield: Not reported  
Other Aquifers: Not reported  
Parent PC: Not reported  
Parent Name: Not reported  
CERCLIS ID: Not reported  
Discovery Date: Not reported  
Depth To GW: 0-10 feet  
Depth To Bedrock: 11-20 feet  
Aquifer Yield: 0-10 gpm  
GW Flow Direction: NE  
Acres Affected: <5 acres  
Waste Present: No  
Product Present: No  
Program: Voluntary Cleanup  
Lead Agency: BER - Redevelopment  
Contaminants: Refined Petroleum, VOC  
Media Act: Ground Water, Soil, Surface Water  
Media Pot: Not reported  
Source: Septic Tank, Other (see Site Narrative)  
Land Use: Commercial, Industrial  
Private well: Not reported  
Waste Present: Not reported  
Product: Not reported  
Receptor Act: Not reported  
Receptor Pot: Not reported  
Remed Air: Not reported  
Remed Soil: Not reported  
Remed Water: Not reported  
Remedir: Not reported  
Alias: BMD PROPERTY; SONNY HILL MOTORS - LEAVENWORTH  
Eucan Number: Not reported  
Date: Not reported  
Activity Type: Voluntary Cleanup Proposal  
Activity Status: Proposed  
Activity Start Date: 05/24/2006

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SONNY HILL JEEP EAGLE - LEAVENWORTH (Continued)**

**1004347478**

Activity End Date: Not reported

Narrative:

Mr. Bob Mitchell, the Managing Partner with JDM Properties, LLC, submitted an application to the VCPRP on April 3, 2002. The future use of the property will be equipment rental. At the time of VCPRP application, the property was vacant.

The contamination on the site was discovered during a site investigation conducted in 1990. Petroleum hydrocarbons and chlorinated volatile organic compounds (VOC?s) were found in soils and groundwater. Additionally, there is a storm drain inlet point near the northeast corner of the site which ultimately discharges into a nearby creek. Oil was found in the creek which resulted in the installation of a low flow oil/water separator and a multiple baffled weir in the sewer inlet and outlet. The contamination source was an improperly used septic tank which has been removed from the property.

Property was accepted into VCPRP on 05/08/02. Additional subsurface investigation was conducted in September 2002 for delineation of contamination in groundwater and soil. Report of investigation results received by KDHE 11/19/02. Requests were made by KDHE for additional delineation efforts in January and May of 2003. In June of 2003, the voluntary party sent documentation to KDHE requesting an extension for the work requested by KDHE due to financial hardship. In October of 2003, KDHE contacted the Voluntary Party for a status on the property.

The demonstration of financial hardship is pending. The results that were received in Feb. 2006 for the latest groundwater sampling indicated that contaminants are decreasing and are not leaving the property. The site is ready to enter into the cleanup phase.

Delineation of groundwater and soil contamination has been achieved and KDHE has requested a VC Proposal.

A new voluntary agreement was executed 4/4/2012. Additional groundwater sampling conducted. Latest groundwater monitoring report approved December 2013.

The Voluntary Party has requested to terminate the Voluntary Agreement. Terminated agreement on 09/10/2015.

VCP:

Site ID: 1075  
Project code: C405270229  
PM Name: ROSS, D.  
**Site Status: Active**  
Lat/Long: 39.28385 / -94.90219  
Program: Voluntary Cleanup

Count: 1 records.

ORPHAN SUMMARY

<u>City</u>	<u>EDR ID</u>	<u>Site Name</u>	<u>Site Address</u>	<u>Zip</u>	<u>Database(s)</u>
LEAVENWORTH	1003876286	MISSOURI RIVER BRUSH & RUBBLE DSPL	1ST & THORNTON	66048	SEMS-ARCHIVE

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

## **STANDARD ENVIRONMENTAL RECORDS**

### ***Federal NPL site list***

#### **NPL: National Priority List**

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

Date of Government Version: 04/11/2019	Source: EPA
Date Data Arrived at EDR: 04/18/2019	Telephone: N/A
Date Made Active in Reports: 05/14/2019	Last EDR Contact: 07/02/2019
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/14/2019
	Data Release Frequency: Quarterly

#### **NPL Site Boundaries**

##### **Sources:**

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

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### **Proposed NPL: Proposed National Priority List Sites**

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

Date of Government Version: 04/11/2019	Source: EPA
Date Data Arrived at EDR: 04/18/2019	Telephone: N/A
Date Made Active in Reports: 05/14/2019	Last EDR Contact: 07/02/2019
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/14/2019
	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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991  
Date Data Arrived at EDR: 02/02/1994  
Date Made Active in Reports: 03/30/1994  
Number of Days to Update: 56

Source: EPA  
Telephone: 202-564-4267  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

## ***Federal Delisted NPL site list***

Delisted NPL: National Priority List Deletions

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

Date of Government Version: 04/11/2019  
Date Data Arrived at EDR: 04/18/2019  
Date Made Active in Reports: 05/14/2019  
Number of Days to Update: 26

Source: EPA  
Telephone: N/A  
Last EDR Contact: 07/02/2019  
Next Scheduled EDR Contact: 10/14/2019  
Data Release Frequency: Quarterly

## ***Federal CERCLIS list***

FEDERAL FACILITY: Federal Facility Site Information listing

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

Date of Government Version: 04/03/2019  
Date Data Arrived at EDR: 04/05/2019  
Date Made Active in Reports: 05/14/2019  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 703-603-8704  
Last EDR Contact: 07/03/2019  
Next Scheduled EDR Contact: 10/14/2019  
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list 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). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/11/2019  
Date Data Arrived at EDR: 04/18/2019  
Date Made Active in Reports: 05/23/2019  
Number of Days to Update: 35

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 07/02/2019  
Next Scheduled EDR Contact: 10/28/2019  
Data Release Frequency: Quarterly

## ***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS 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 the 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. The 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 potential NPL site.

Date of Government Version: 04/11/2019	Source: EPA
Date Data Arrived at EDR: 04/18/2019	Telephone: 800-424-9346
Date Made Active in Reports: 05/23/2019	Last EDR Contact: 07/02/2019
Number of Days to Update: 35	Next Scheduled EDR Contact: 10/28/2019
	Data Release Frequency: Quarterly

## ***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/25/2019	Source: EPA
Date Data Arrived at EDR: 03/27/2019	Telephone: 800-424-9346
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 06/26/2019
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/07/2019
	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: 03/25/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2019	Telephone: 913-551-7003
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 06/26/2019
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/07/2019
	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: 03/25/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2019	Telephone: 913-551-7003
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 06/26/2019
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/07/2019
	Data Release Frequency: Quarterly



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 03/25/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2019	Telephone: 913-551-7003
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 06/26/2019
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/07/2019
	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: 03/25/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2019	Telephone: 913-551-7003
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 06/26/2019
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/07/2019
	Data Release Frequency: Quarterly

## ***Federal institutional controls / engineering controls registries***

### 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: 02/22/2019	Source: Department of the Navy
Date Data Arrived at EDR: 03/07/2019	Telephone: 843-820-7326
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 05/10/2019
Number of Days to Update: 41	Next Scheduled EDR Contact: 08/26/2019
	Data Release Frequency: Varies

### 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: 01/31/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/04/2019	Telephone: 703-603-0695
Date Made Active in Reports: 03/08/2019	Last EDR Contact: 05/29/2019
Number of Days to Update: 32	Next Scheduled EDR Contact: 09/09/2019
	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: 01/31/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/04/2019	Telephone: 703-603-0695
Date Made Active in Reports: 03/08/2019	Last EDR Contact: 05/29/2019
Number of Days to Update: 32	Next Scheduled EDR Contact: 09/09/2019
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **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: 03/25/2019  
Date Data Arrived at EDR: 03/26/2019  
Date Made Active in Reports: 05/01/2019  
Number of Days to Update: 36

Source: National Response Center, United States Coast Guard  
Telephone: 202-267-2180  
Last EDR Contact: 06/26/2019  
Next Scheduled EDR Contact: 10/07/2019  
Data Release Frequency: Quarterly

## **State- and tribal - equivalent CERCLIS**

### KS SHWS: Identified Sites List

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

Date of Government Version: 04/08/2019  
Date Data Arrived at EDR: 04/11/2019  
Date Made Active in Reports: 05/06/2019  
Number of Days to Update: 25

Source: Department of Health and Environment  
Telephone: 785-296-1660  
Last EDR Contact: 07/03/2019  
Next Scheduled EDR Contact: 10/21/2019  
Data Release Frequency: Quarterly

### MO HWS DETAIL: Registry Annual Report

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

Date of Government Version: 06/30/2018  
Date Data Arrived at EDR: 02/28/2019  
Date Made Active in Reports: 05/14/2019  
Number of Days to Update: 75

Source: Department of Natural Resources  
Telephone: 573-751-3176  
Last EDR Contact: 05/31/2019  
Next Scheduled EDR Contact: 09/09/2019  
Data Release Frequency: Annually

### MO 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: 07/02/2018  
Date Data Arrived at EDR: 09/11/2018  
Date Made Active in Reports: 10/15/2018  
Number of Days to Update: 34

Source: Department of Natural Resources  
Telephone: 573-751-1990  
Last EDR Contact: 06/10/2019  
Next Scheduled EDR Contact: 09/23/2019  
Data Release Frequency: Annually

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

### KS SWF/LF: Directory of Sanitary Landfills, Solid Waste Transfer Stations and Collector in Kansas

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

Date of Government Version: 04/01/2019  
Date Data Arrived at EDR: 04/03/2019  
Date Made Active in Reports: 05/06/2019  
Number of Days to Update: 33

Source: Department of Health and Environment  
Telephone: 785-296-1590  
Last EDR Contact: 07/12/2019  
Next Scheduled EDR Contact: 10/28/2019  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## MO 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: 05/15/2018	Source: Department of Natural Resources
Date Data Arrived at EDR: 07/03/2018	Telephone: 573-751-5401
Date Made Active in Reports: 08/06/2018	Last EDR Contact: 05/13/2019
Number of Days to Update: 34	Next Scheduled EDR Contact: 08/26/2019
	Data Release Frequency: Varies

## KS CITY DUMPS: City Dump Listing

The City Dump Cleanup Program provides funds to cities or counties for the repair of old, unused municipal dump sites. These sites primarily operated between the 1940s and the 1970s before many counties had landfills and prior to the current regulations for solid waste disposal.

Date of Government Version: 02/26/2019	Source: Department of Health & Environment
Date Data Arrived at EDR: 02/27/2019	Telephone: 785-296-6377
Date Made Active in Reports: 05/06/2019	Last EDR Contact: 05/29/2019
Number of Days to Update: 68	Next Scheduled EDR Contact: 09/09/2019
	Data Release Frequency: Varies

### ***State and tribal leaking storage tank lists***

## KS LUST: Leaking Underground Storage Tank Data

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

Date of Government Version: 04/01/2019	Source: Department of Health and Environment
Date Data Arrived at EDR: 04/03/2019	Telephone: 785-296-1685
Date Made Active in Reports: 05/06/2019	Last EDR Contact: 07/19/2019
Number of Days to Update: 33	Next Scheduled EDR Contact: 10/14/2019
	Data Release Frequency: Quarterly

## KS LAST: Leaking Aboveground Storage Tanks

Leaking aboveground storage tank site locations.

Date of Government Version: 04/01/2019	Source: Department of Health & Environment
Date Data Arrived at EDR: 04/03/2019	Telephone: 785-296-1685
Date Made Active in Reports: 05/06/2019	Last EDR Contact: 07/19/2019
Number of Days to Update: 33	Next Scheduled EDR Contact: 10/14/2019
	Data Release Frequency: Quarterly

## MO 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: 03/07/2019	Source: Department of Natural Resources
Date Data Arrived at EDR: 03/13/2019	Telephone: 573-751-0135
Date Made Active in Reports: 05/13/2019	Last EDR Contact: 06/12/2019
Number of Days to Update: 61	Next Scheduled EDR Contact: 09/23/2019
	Data Release Frequency: Quarterly

## MO LAST: Leaking Aboveground Storage Tanks

A listing of leaking aboveground storage tanks.

Date of Government Version: 03/07/2019	Source: Department of Natural Resources
Date Data Arrived at EDR: 03/13/2019	Telephone: 573-751-6822
Date Made Active in Reports: 05/13/2019	Last EDR Contact: 06/12/2019
Number of Days to Update: 61	Next Scheduled EDR Contact: 09/23/2019
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/12/2018	Source: EPA, Region 5
Date Data Arrived at EDR: 03/07/2019	Telephone: 312-886-7439
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 04/26/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 08/05/2019
	Data Release Frequency: Varies

## 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: 10/13/2018	Source: EPA Region 1
Date Data Arrived at EDR: 03/07/2019	Telephone: 617-918-1313
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 04/26/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 08/05/2019
	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: 09/24/2018	Source: EPA Region 4
Date Data Arrived at EDR: 03/12/2019	Telephone: 404-562-8677
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 04/26/2019
Number of Days to Update: 50	Next Scheduled EDR Contact: 08/05/2019
	Data Release Frequency: Varies

## INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 11/01/2018	Source: EPA Region 6
Date Data Arrived at EDR: 03/07/2019	Telephone: 214-665-6597
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 04/26/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 08/05/2019
	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: 02/19/2019	Source: EPA Region 7
Date Data Arrived at EDR: 03/07/2019	Telephone: 913-551-7003
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 04/26/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 08/05/2019
	Data Release Frequency: Varies

## INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/16/2018	Source: EPA Region 8
Date Data Arrived at EDR: 03/07/2019	Telephone: 303-312-6271
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 04/26/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 08/05/2019
	Data Release Frequency: Varies

## INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/17/2018	Source: EPA Region 10
Date Data Arrived at EDR: 03/07/2019	Telephone: 206-553-2857
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 04/26/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 08/05/2019
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Government Version: 10/10/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/08/2019	Telephone: 415-972-3372
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 04/26/2019
Number of Days to Update: 54	Next Scheduled EDR Contact: 08/05/2019
	Data Release Frequency: Varies

## **State and tribal registered storage tank lists**

FEMA UST: Underground Storage Tank Listing  
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017	Source: FEMA
Date Data Arrived at EDR: 05/30/2017	Telephone: 202-646-5797
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 07/10/2019
Number of Days to Update: 136	Next Scheduled EDR Contact: 10/21/2019
	Data Release Frequency: Varies

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

Date of Government Version: 04/01/2019	Source: Department of Health and Environment
Date Data Arrived at EDR: 04/03/2019	Telephone: 785-296-1685
Date Made Active in Reports: 05/03/2019	Last EDR Contact: 06/26/2019
Number of Days to Update: 30	Next Scheduled EDR Contact: 10/14/2019
	Data Release Frequency: Quarterly

MO 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: 03/07/2019	Source: Department of Natural Resources
Date Data Arrived at EDR: 03/13/2019	Telephone: 573-751-0135
Date Made Active in Reports: 05/13/2019	Last EDR Contact: 06/12/2019
Number of Days to Update: 61	Next Scheduled EDR Contact: 09/23/2019
	Data Release Frequency: Quarterly

KS AST: Aboveground Storage Tank Data  
Registered Aboveground Storage Tanks.

Date of Government Version: 04/01/2019	Source: Department of Health and Environment
Date Data Arrived at EDR: 04/03/2019	Telephone: 785-296-1685
Date Made Active in Reports: 05/03/2019	Last EDR Contact: 06/26/2019
Number of Days to Update: 30	Next Scheduled EDR Contact: 10/14/2019
	Data Release Frequency: Quarterly

MO AST: Aboveground Petroleum Storage Tanks  
Registered Aboveground Storage Tanks.

Date of Government Version: 11/30/2018	Source: Department of Agriculture
Date Data Arrived at EDR: 12/04/2018	Telephone: 573-751-7062
Date Made Active in Reports: 01/16/2019	Last EDR Contact: 06/03/2019
Number of Days to Update: 43	Next Scheduled EDR Contact: 09/16/2019
	Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 10/17/2018	Source: EPA Region 10
Date Data Arrived at EDR: 03/07/2019	Telephone: 206-553-2857
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 04/26/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 08/05/2019
	Data Release Frequency: Varies

## 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: 10/10/2018	Source: EPA Region 9
Date Data Arrived at EDR: 03/08/2019	Telephone: 415-972-3368
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 04/26/2019
Number of Days to Update: 54	Next Scheduled EDR Contact: 08/05/2019
	Data Release Frequency: Varies

## INDIAN UST R8: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/16/2018	Source: EPA Region 8
Date Data Arrived at EDR: 03/07/2019	Telephone: 303-312-6137
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 04/26/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 08/05/2019
	Data Release Frequency: Varies

## 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: 11/07/2018	Source: EPA Region 7
Date Data Arrived at EDR: 03/07/2019	Telephone: 913-551-7003
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 04/26/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 08/05/2019
	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: 11/01/2018	Source: EPA Region 6
Date Data Arrived at EDR: 03/07/2019	Telephone: 214-665-7591
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 04/26/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 08/05/2019
	Data Release Frequency: Varies

## 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: 10/12/2018	Source: EPA Region 5
Date Data Arrived at EDR: 03/07/2019	Telephone: 312-886-6136
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 04/26/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 08/05/2019
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 09/24/2018	Source: EPA Region 4
Date Data Arrived at EDR: 03/12/2019	Telephone: 404-562-9424
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 04/26/2019
Number of Days to Update: 50	Next Scheduled EDR Contact: 08/05/2019
	Data Release Frequency: Varies

## INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/03/2018	Source: EPA, Region 1
Date Data Arrived at EDR: 03/07/2019	Telephone: 617-918-1313
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 04/26/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 08/05/2019
	Data Release Frequency: Varies

### ***State and tribal institutional control / engineering control registries***

#### KS INST CONTROL: Institutional Controls Information

Sites that have institutional control information entered into the Identified Sites List database.

Date of Government Version: 04/08/2019	Source: Department of Health & Environment
Date Data Arrived at EDR: 04/10/2019	Telephone: 785-296-8049
Date Made Active in Reports: 05/06/2019	Last EDR Contact: 07/03/2019
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/21/2019
	Data Release Frequency: Quarterly

### ***State and tribal voluntary cleanup sites***

#### KS VCP: Identified Sites List

Sites included in the Identified Sites List that are identified as Voluntary Cleanup sites.

Date of Government Version: 04/08/2019	Source: Department of Health & Environment
Date Data Arrived at EDR: 04/11/2019	Telephone: 785-296-8049
Date Made Active in Reports: 05/06/2019	Last EDR Contact: 07/03/2019
Number of Days to Update: 25	Next Scheduled EDR Contact: 10/21/2019
	Data Release Frequency: Quarterly

#### INDIAN VCP R1: Voluntary Cleanup Priority Listing

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

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 06/20/2019
Number of Days to Update: 142	Next Scheduled EDR Contact: 10/07/2019
	Data Release Frequency: Varies

#### INDIAN VCP R7: Voluntary Cleanup Priority Listing

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

Date of Government Version: 03/20/2008	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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MO VCP: Sites Participating in the Voluntary Cleanup Program  
Sites participating in the Voluntary Cleanup Program.

Date of Government Version: 04/02/2019	Source: Department of Natural Resources
Date Data Arrived at EDR: 05/14/2019	Telephone: 573-526-8913
Date Made Active in Reports: 07/18/2019	Last EDR Contact: 05/14/2019
Number of Days to Update: 65	Next Scheduled EDR Contact: 08/26/2019
	Data Release Frequency: Quarterly

## **State and tribal Brownfields sites**

KS BROWNFIELDS: Identified Sites List

Sites included in the Identified Sites List that are identified as Brownfields sites.

Date of Government Version: 04/08/2019	Source: Department of Health & Environment
Date Data Arrived at EDR: 04/11/2019	Telephone: 785-296-8049
Date Made Active in Reports: 05/06/2019	Last EDR Contact: 07/03/2019
Number of Days to Update: 25	Next Scheduled EDR Contact: 10/21/2019
	Data Release Frequency: Quarterly

MO 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: 04/02/2019	Source: Department of Natural Resources
Date Data Arrived at EDR: 05/14/2019	Telephone: 573-526-8913
Date Made Active in Reports: 07/18/2019	Last EDR Contact: 05/14/2019
Number of Days to Update: 65	Next Scheduled EDR Contact: 08/26/2019
	Data Release Frequency: Quarterly

## **ADDITIONAL ENVIRONMENTAL RECORDS**

### **Local Brownfield lists**

US BROWNFIELDS: A Listing of Brownfields Sites

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

Date of Government Version: 12/17/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/18/2018	Telephone: 202-566-2777
Date Made Active in Reports: 01/11/2019	Last EDR Contact: 06/04/2019
Number of Days to Update: 24	Next Scheduled EDR Contact: 09/30/2019
	Data Release Frequency: Semi-Annually

### **Local Lists of Landfill / Solid Waste Disposal Sites**

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: 04/26/2019
Number of Days to Update: 52	Next Scheduled EDR Contact: 08/12/2019
	Data Release Frequency: Varies



# 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

## 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: 07/19/2019
Number of Days to Update: 137	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: No Update Planned

## IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014	Source: Department of Health & Human Services, Indian Health Service
Date Data Arrived at EDR: 08/06/2014	Telephone: 301-443-1452
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 04/23/2019
Number of Days to Update: 176	Next Scheduled EDR Contact: 08/12/2019
	Data Release Frequency: Varies

## **Local Lists of Hazardous waste / Contaminated Sites**

### KS AOCONCERN: Area of Concern

The City of Wichita has taken the lead for the investigation and remediation efforts with the Kansas Department of Health & Environment, Bureau of Remediation. The primary contaminants of concern are chlorinated solvents and their degradation products.

Date of Government Version: N/A	Source: Department of Environmental Health
Date Data Arrived at EDR: 04/25/2002	Telephone: 315-268-8351
Date Made Active in Reports: 06/28/2002	Last EDR Contact: 03/13/2007
Number of Days to Update: 64	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/24/2019	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 02/26/2019	Telephone: 202-307-1000
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 05/24/2019
Number of Days to Update: 50	Next Scheduled EDR Contact: 09/09/2019
	Data Release Frequency: No Update Planned

### KS CDL: Clandestine Laboratory Data

Clandestine meth lab location

Date of Government Version: 08/09/2018	Source: Department of Health and Environment
Date Data Arrived at EDR: 08/09/2018	Telephone: 785-368-7301
Date Made Active in Reports: 09/12/2018	Last EDR Contact: 05/10/2019
Number of Days to Update: 34	Next Scheduled EDR Contact: 08/26/2019
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## MO CDL: Environmental Emergency Response System

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

Date of Government Version: 03/08/2019	Source: Department of Natural Resources
Date Data Arrived at EDR: 03/13/2019	Telephone: 573-751-3443
Date Made Active in Reports: 05/13/2019	Last EDR Contact: 06/12/2019
Number of Days to Update: 61	Next Scheduled EDR Contact: 09/23/2019
	Data Release Frequency: Quarterly

## 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: 02/24/2019	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 02/26/2019	Telephone: 202-307-1000
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 05/24/2019
Number of Days to Update: 50	Next Scheduled EDR Contact: 09/09/2019
	Data Release Frequency: Quarterly

## 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: 04/11/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/18/2019	Telephone: 202-564-6023
Date Made Active in Reports: 05/23/2019	Last EDR Contact: 07/02/2019
Number of Days to Update: 35	Next Scheduled EDR Contact: 10/14/2019
	Data Release Frequency: Semi-Annually

## 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: 03/25/2019	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 03/26/2019	Telephone: 202-366-4555
Date Made Active in Reports: 05/14/2019	Last EDR Contact: 06/26/2019
Number of Days to Update: 49	Next Scheduled EDR Contact: 10/07/2019
	Data Release Frequency: Quarterly

### KS SPILLS 2: Spills Database

All spills reported under the regulatory authority of the Kansas Corporation Commission.

Date of Government Version: 04/11/2019	Source: Kansas Corporation Commission
Date Data Arrived at EDR: 04/16/2019	Telephone: 316-337-6626
Date Made Active in Reports: 05/06/2019	Last EDR Contact: 07/03/2019
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/21/2019
	Data Release Frequency: Varies

### KS SPILLS: Kansas Spills Database

All spills reported under the regulatory authority of the Department of Health & Environment and the Kansas Corporation Commission.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/05/2019  
Date Data Arrived at EDR: 04/09/2019  
Date Made Active in Reports: 05/06/2019  
Number of Days to Update: 27

Source: Department of Health and Environment  
Telephone: 785-296-1660  
Last EDR Contact: 07/03/2019  
Next Scheduled EDR Contact: 10/21/2019  
Data Release Frequency: Semi-Annually

## MO SPILLS: Environmental Response Tracking Database

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

Date of Government Version: 03/08/2019  
Date Data Arrived at EDR: 03/13/2019  
Date Made Active in Reports: 05/13/2019  
Number of Days to Update: 61

Source: Department of Natural Resources  
Telephone: 573-526-3349  
Last EDR Contact: 06/12/2019  
Next Scheduled EDR Contact: 09/23/2019  
Data Release Frequency: Quarterly

## Other Ascertainable Records

### RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

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

Date of Government Version: 03/25/2019  
Date Data Arrived at EDR: 03/27/2019  
Date Made Active in Reports: 04/17/2019  
Number of Days to Update: 21

Source: Environmental Protection Agency  
Telephone: 913-551-7003  
Last EDR Contact: 06/26/2019  
Next Scheduled EDR Contact: 10/07/2019  
Data Release Frequency: Quarterly

### 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: 03/07/2019  
Date Data Arrived at EDR: 04/03/2019  
Date Made Active in Reports: 05/23/2019  
Number of Days to Update: 50

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 05/21/2019  
Next Scheduled EDR Contact: 09/02/2019  
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: 07/09/2019  
Next Scheduled EDR Contact: 10/21/2019  
Data Release Frequency: Semi-Annually

### 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  
Date Data Arrived at EDR: 02/06/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 339

Source: U.S. Geological Survey  
Telephone: 888-275-8747  
Last EDR Contact: 07/10/2019  
Next Scheduled EDR Contact: 10/21/2019  
Data Release Frequency: N/A

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### 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: 01/01/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/03/2017	Telephone: 615-532-8599
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 05/13/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 08/26/2019
	Data Release Frequency: Varies

### US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/25/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/26/2019	Telephone: 202-566-1917
Date Made Active in Reports: 05/07/2019	Last EDR Contact: 06/26/2019
Number of Days to Update: 42	Next Scheduled EDR Contact: 10/07/2019
	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: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 05/06/2019
Number of Days to Update: 88	Next Scheduled EDR Contact: 08/19/2019
	Data Release Frequency: Quarterly

### 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: 09/30/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/08/2018	Telephone: 703-308-4044
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 05/10/2019
Number of Days to Update: 73	Next Scheduled EDR Contact: 08/19/2019
	Data Release Frequency: Varies

### 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: 12/31/2016	Source: EPA
Date Data Arrived at EDR: 06/21/2017	Telephone: 202-260-5521
Date Made Active in Reports: 01/05/2018	Last EDR Contact: 06/18/2019
Number of Days to Update: 198	Next Scheduled EDR Contact: 09/30/2019
	Data Release Frequency: Every 4 Years

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016	Source: EPA
Date Data Arrived at EDR: 01/10/2018	Telephone: 202-566-0250
Date Made Active in Reports: 01/12/2018	Last EDR Contact: 05/24/2019
Number of Days to Update: 2	Next Scheduled EDR Contact: 09/02/2019
	Data Release Frequency: Annually

## 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	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 04/24/2019
Number of Days to Update: 77	Next Scheduled EDR Contact: 08/05/2019
	Data Release Frequency: Annually

## ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/11/2019	Source: EPA
Date Data Arrived at EDR: 04/18/2019	Telephone: 703-416-0223
Date Made Active in Reports: 05/23/2019	Last EDR Contact: 07/01/2019
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/16/2019
	Data Release Frequency: Annually

## RMP: Risk Management Plans

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

Date of Government Version: 04/25/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/02/2019	Telephone: 202-564-8600
Date Made Active in Reports: 05/23/2019	Last EDR Contact: 04/22/2019
Number of Days to Update: 21	Next Scheduled EDR Contact: 08/05/2019
	Data Release Frequency: Varies

## 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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 04/11/2019	Source: EPA
Date Data Arrived at EDR: 04/18/2019	Telephone: 202-564-6023
Date Made Active in Reports: 05/23/2019	Last EDR Contact: 07/01/2019
Number of Days to Update: 35	Next Scheduled EDR Contact: 08/19/2019
	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: 03/20/2019	Source: EPA
Date Data Arrived at EDR: 04/10/2019	Telephone: 202-566-0500
Date Made Active in Reports: 05/14/2019	Last EDR Contact: 07/12/2019
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/21/2019
	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: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 07/03/2019
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/21/2019
	Data Release Frequency: Quarterly

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

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

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

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

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

## 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: 08/30/2016	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 09/08/2016	Telephone: 301-415-7169
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 04/22/2019
Number of Days to Update: 43	Next Scheduled EDR Contact: 08/05/2019
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 06/07/2019
Number of Days to Update: 76	Next Scheduled EDR Contact: 09/16/2019
	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: 07/01/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2014	Telephone: N/A
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 06/07/2019
Number of Days to Update: 40	Next Scheduled EDR Contact: 09/16/2019
	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: 05/24/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/30/2017	Telephone: 202-566-0517
Date Made Active in Reports: 12/15/2017	Last EDR Contact: 04/26/2019
Number of Days to Update: 15	Next Scheduled EDR Contact: 08/05/2019
	Data Release Frequency: Varies

## 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: 04/02/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/02/2019	Telephone: 202-343-9775
Date Made Active in Reports: 05/14/2019	Last EDR Contact: 07/01/2019
Number of Days to Update: 42	Next Scheduled EDR Contact: 10/14/2019
	Data Release Frequency: Quarterly

## HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

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

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

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

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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

## DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 12/03/2018  
Date Data Arrived at EDR: 01/29/2019  
Date Made Active in Reports: 03/21/2019  
Number of Days to Update: 51

Source: Department of Transportation, Office of Pipeline Safety  
Telephone: 202-366-4595  
Last EDR Contact: 04/30/2019  
Next Scheduled EDR Contact: 08/12/2019  
Data Release Frequency: Quarterly

## 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: 03/31/2019  
Date Data Arrived at EDR: 04/23/2019  
Date Made Active in Reports: 05/23/2019  
Number of Days to Update: 30

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 07/08/2019  
Next Scheduled EDR Contact: 10/21/2019  
Data Release Frequency: Varies

## BRS: Biennial Reporting System

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

Date of Government Version: 12/31/2015  
Date Data Arrived at EDR: 02/22/2017  
Date Made Active in Reports: 09/28/2017  
Number of Days to Update: 218

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 06/26/2019  
Next Scheduled EDR Contact: 10/07/2019  
Data Release Frequency: Biennially

## 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: 12/31/2014  
Date Data Arrived at EDR: 07/14/2015  
Date Made Active in Reports: 01/10/2017  
Number of Days to Update: 546

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 07/10/2019  
Next Scheduled EDR Contact: 10/21/2019  
Data Release Frequency: Semi-Annually

## FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017  
Date Data Arrived at EDR: 09/11/2018  
Date Made Active in Reports: 09/14/2018  
Number of Days to Update: 3

Source: Department of Energy  
Telephone: 202-586-3559  
Last EDR Contact: 05/02/2019  
Next Scheduled EDR Contact: 08/19/2019  
Data Release Frequency: Varies

## 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: 06/23/2017  
Date Data Arrived at EDR: 10/11/2017  
Date Made Active in Reports: 11/03/2017  
Number of Days to Update: 23

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 05/24/2019  
Next Scheduled EDR Contact: 09/02/2019  
Data Release Frequency: Varies

## LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/11/2019  
Date Data Arrived at EDR: 04/18/2019  
Date Made Active in Reports: 05/14/2019  
Number of Days to Update: 26

Source: Environmental Protection Agency  
Telephone: 703-603-8787  
Last EDR Contact: 07/01/2019  
Next Scheduled EDR Contact: 10/14/2019  
Data Release Frequency: Varies

## LEAD SMELTER 2: Lead Smelter Sites

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

Date of Government Version: 04/05/2001  
Date Data Arrived at EDR: 10/27/2010  
Date Made Active in Reports: 12/02/2010  
Number of Days to Update: 36

Source: American Journal of Public Health  
Telephone: 703-305-6451  
Last EDR Contact: 12/02/2009  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

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

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

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Annually

## US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Annually

## US MINES: Mines Master Index File

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

Date of Government Version: 11/27/2018  
Date Data Arrived at EDR: 02/27/2019  
Date Made Active in Reports: 04/01/2019  
Number of Days to Update: 33

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 05/29/2019  
Next Scheduled EDR Contact: 09/09/2019  
Data Release Frequency: Semi-Annually

## US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/05/2005  
Date Data Arrived at EDR: 02/29/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 49

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 05/31/2019  
Next Scheduled EDR Contact: 09/09/2019  
Data Release Frequency: Varies

## US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011  
Date Data Arrived at EDR: 06/08/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 97

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 05/31/2019  
Next Scheduled EDR Contact: 09/09/2019  
Data Release Frequency: Varies

## ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/27/2019  
Date Data Arrived at EDR: 03/28/2019  
Date Made Active in Reports: 05/01/2019  
Number of Days to Update: 34

Source: Department of Interior  
Telephone: 202-208-2609  
Last EDR Contact: 06/19/2019  
Next Scheduled EDR Contact: 09/23/2019  
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: 02/15/2019  
Date Data Arrived at EDR: 03/05/2019  
Date Made Active in Reports: 03/15/2019  
Number of Days to Update: 10

Source: EPA  
Telephone: (913) 551-7003  
Last EDR Contact: 06/05/2019  
Next Scheduled EDR Contact: 09/16/2019  
Data Release Frequency: Quarterly

## ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/07/2019  
Date Data Arrived at EDR: 04/09/2019  
Date Made Active in Reports: 05/23/2019  
Number of Days to Update: 44

Source: Environmental Protection Agency  
Telephone: 202-564-2280  
Last EDR Contact: 07/09/2019  
Next Scheduled EDR Contact: 10/21/2019  
Data Release Frequency: Quarterly

## DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018  
Date Data Arrived at EDR: 07/26/2018  
Date Made Active in Reports: 10/05/2018  
Number of Days to Update: 71

Source: Environmental Protection Agency  
Telephone: 202-564-0527  
Last EDR Contact: 05/24/2019  
Next Scheduled EDR Contact: 09/09/2019  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017	Source: Department of Defense
Date Data Arrived at EDR: 01/17/2019	Telephone: 703-704-1564
Date Made Active in Reports: 04/01/2019	Last EDR Contact: 07/15/2019
Number of Days to Update: 74	Next Scheduled EDR Contact: 10/28/2019
	Data Release Frequency: Varies

## FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/19/2019	Source: EPA
Date Data Arrived at EDR: 02/21/2019	Telephone: 800-385-6164
Date Made Active in Reports: 04/01/2019	Last EDR Contact: 05/21/2019
Number of Days to Update: 39	Next Scheduled EDR Contact: 09/02/2019
	Data Release Frequency: Quarterly

## KS AIRS: Title V Source Information

A listing of title V sources, including emissions information.

Date of Government Version: 05/28/2018	Source: Department of Health & Environment
Date Data Arrived at EDR: 02/26/2019	Telephone: 785-296-6427
Date Made Active in Reports: 05/06/2019	Last EDR Contact: 06/20/2019
Number of Days to Update: 69	Next Scheduled EDR Contact: 10/07/2019
	Data Release Frequency: Annually

## MO AIRS: Permit Facility Listing

A listing of Air Pollution Control Program permits.

Date of Government Version: 11/21/2018	Source: Department of Natural Resources
Date Data Arrived at EDR: 12/11/2018	Telephone: 573-751-4817
Date Made Active in Reports: 01/17/2019	Last EDR Contact: 06/14/2019
Number of Days to Update: 37	Next Scheduled EDR Contact: 09/23/2019
	Data Release Frequency: Varies

## KS COAL ASH: Coal Ash Disposal Site Listing

A listing of coal combustion waste landfills.

Date of Government Version: 03/26/2018	Source: Department of Health & Environment
Date Data Arrived at EDR: 04/17/2018	Telephone: 785-296-1600
Date Made Active in Reports: 05/31/2018	Last EDR Contact: 07/12/2019
Number of Days to Update: 44	Next Scheduled EDR Contact: 10/28/2019
	Data Release Frequency: Varies

## MO COAL ASH: Coal Ash Disposal Sites

A listing of power plants with coal ash ponds.

Date of Government Version: 01/03/2018	Source: Department of Natural Resources
Date Data Arrived at EDR: 02/01/2018	Telephone: 573-526-1825
Date Made Active in Reports: 03/22/2018	Last EDR Contact: 06/26/2019
Number of Days to Update: 49	Next Scheduled EDR Contact: 10/14/2019
	Data Release Frequency: No Update Planned

## KS DRYCLEANERS: Registered Drycleaning Facilities

A listing of registered drycleaners.

Date of Government Version: 02/26/2019	Source: Department of Health & Environment
Date Data Arrived at EDR: 02/28/2019	Telephone: 785-291-3250
Date Made Active in Reports: 05/06/2019	Last EDR Contact: 05/28/2019
Number of Days to Update: 67	Next Scheduled EDR Contact: 09/09/2019
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## MO DRYCLEANERS: Drycleaners in Missouri Listing

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

Date of Government Version: 11/30/2017	Source: Department of Natural Resources
Date Data Arrived at EDR: 12/13/2017	Telephone: 573-526-8913
Date Made Active in Reports: 01/18/2018	Last EDR Contact: 06/14/2019
Number of Days to Update: 36	Next Scheduled EDR Contact: 09/23/2019
	Data Release Frequency: Quarterly

## KS Financial Assurance: Financial Assurance Information Listing

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

Date of Government Version: 04/01/2019	Source: Department of Health & Environment
Date Data Arrived at EDR: 04/03/2019	Telephone: 785-296-1685
Date Made Active in Reports: 05/03/2019	Last EDR Contact: 06/26/2019
Number of Days to Update: 30	Next Scheduled EDR Contact: 10/14/2019
	Data Release Frequency: Quarterly

## MO Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information.

Date of Government Version: 03/11/2019	Source: Department of Natural Resources
Date Data Arrived at EDR: 03/14/2019	Telephone: 573-751-3553
Date Made Active in Reports: 05/14/2019	Last EDR Contact: 06/03/2019
Number of Days to Update: 61	Next Scheduled EDR Contact: 09/16/2019
	Data Release Frequency: Annually

## MO Financial Assurance 2: Financial Assurance Information Listing

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

Date of Government Version: 10/31/2018	Source: Department of Natural Resources
Date Data Arrived at EDR: 12/07/2018	Telephone: 573-751-5401
Date Made Active in Reports: 01/02/2019	Last EDR Contact: 06/05/2019
Number of Days to Update: 26	Next Scheduled EDR Contact: 09/16/2019
	Data Release Frequency: Quarterly

## KS NPDES: Wastewater Permit Listing

A listing of facilities with wastewater permits.

Date of Government Version: 03/26/2019	Source: Department of Health & Environment
Date Data Arrived at EDR: 03/28/2019	Telephone: 785-296-5517
Date Made Active in Reports: 05/06/2019	Last EDR Contact: 06/17/2019
Number of Days to Update: 39	Next Scheduled EDR Contact: 09/30/2019
	Data Release Frequency: Varies

## MO NPDES: Permitted Facility Listing

A listing of permitted facilities from the Water Pollution Branch.

Date of Government Version: 04/01/2019	Source: Department of Natural Resources
Date Data Arrived at EDR: 04/03/2019	Telephone: 573-751-7023
Date Made Active in Reports: 05/14/2019	Last EDR Contact: 07/15/2019
Number of Days to Update: 41	Next Scheduled EDR Contact: 10/14/2019
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## KS TIER 2: Tier 2 Information Listing

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report.

Date of Government Version: 12/31/2017	Source: Department of Health & Environment
Date Data Arrived at EDR: 06/19/2018	Telephone: 785-296-1688
Date Made Active in Reports: 07/18/2018	Last EDR Contact: 07/11/2019
Number of Days to Update: 29	Next Scheduled EDR Contact: 09/30/2019
	Data Release Frequency: Annually

## KS UIC: Underground Injection Wells Database Listing

A listing of underground injection wells.

Date of Government Version: 03/15/2019	Source: Department of Health & Environment
Date Data Arrived at EDR: 03/19/2019	Telephone: 785-296-1367
Date Made Active in Reports: 05/06/2019	Last EDR Contact: 04/22/2019
Number of Days to Update: 48	Next Scheduled EDR Contact: 08/05/2019
	Data Release Frequency: Varies

## MO 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: 12/31/2018	Source: Department of Natural Resources
Date Data Arrived at EDR: 02/21/2019	Telephone: 573-368-2183
Date Made Active in Reports: 03/14/2019	Last EDR Contact: 05/24/2019
Number of Days to Update: 21	Next Scheduled EDR Contact: 09/02/2019
	Data Release Frequency: Semi-Annually

## EDR HIGH RISK HISTORICAL RECORDS

### *EDR Exclusive Records*

#### EDR MGP: EDR Proprietary Manufactured Gas Plants

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

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

#### EDR Hist Auto: EDR Exclusive Historical Auto Stations

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

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## EDR Hist Cleaner: EDR Exclusive Historical Cleaners

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

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

## EDR RECOVERED GOVERNMENT ARCHIVES

### *Exclusive Recovered Govt. Archives*

#### KS RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Health and Environment in Kansas.

Date of Government Version: N/A	Source: Department of Health and Environment
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/03/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 186	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

#### MO RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Natural Resources in Missouri.

Date of Government Version: N/A	Source: Department of Natural Resources
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/03/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 186	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

#### KS RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Health and Environment in Kansas.

Date of Government Version: N/A	Source: Department of Health and Environment
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/20/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 203	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

#### MO RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Natural Resources in Missouri.

Date of Government Version: N/A	Source: Department of Natural Resources
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/15/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 198	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## KS RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Health and Environment in Kansas.

Date of Government Version: N/A	Source: Department of Health and Environment
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/03/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 186	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

## MO RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Natural Resources in Missouri.

Date of Government Version: N/A	Source: Department of Natural Resources
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/03/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 186	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

## OTHER DATABASE(S)

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

## CT MANIFEST: Hazardous Waste Manifest Data

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

Date of Government Version: 02/11/2019	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 02/12/2019	Telephone: 860-424-3375
Date Made Active in Reports: 03/04/2019	Last EDR Contact: 05/14/2019
Number of Days to Update: 20	Next Scheduled EDR Contact: 08/26/2019
	Data Release Frequency: No Update Planned

## 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: 01/01/2019	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 05/01/2019	Telephone: 518-402-8651
Date Made Active in Reports: 06/21/2019	Last EDR Contact: 05/01/2019
Number of Days to Update: 51	Next Scheduled EDR Contact: 08/12/2019
	Data Release Frequency: Quarterly

## RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2017	Source: Department of Environmental Management
Date Data Arrived at EDR: 02/23/2018	Telephone: 401-222-2797
Date Made Active in Reports: 04/09/2018	Last EDR Contact: 05/17/2019
Number of Days to Update: 45	Next Scheduled EDR Contact: 09/02/2019
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017  
Date Data Arrived at EDR: 06/15/2018  
Date Made Active in Reports: 07/09/2018  
Number of Days to Update: 24

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 06/10/2019  
Next Scheduled EDR Contact: 09/23/2019  
Data Release Frequency: Annually

## Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

## Electric Power Transmission Line Data

Source: PennWell Corporation

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**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.

**Flood Zone Data:** This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA  
Telephone: 877-336-2627  
Date of Government Version: 2003, 2015

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

## State Wetlands Data: Wetland Inventory

Source: US Fish & Wildlife Service  
Telephone: 703-358-2171



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map  
Source: U.S. Geological Survey

## STREET AND ADDRESS INFORMATION

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## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

2107 SOUTH 4TH STREET  
2107 SOUTH 4TH STREET  
LEAVENWORTH, KS 66048

### TARGET PROPERTY COORDINATES

Latitude (North):	39.295671 - 39° 17' 44.42"
Longitude (West):	94.907637 - 94° 54' 27.49"
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	335493.7
UTM Y (Meters):	4351114.5
Elevation:	779 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map:	5687559 LEAVENWORTH, KS
Version Date:	2012

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

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

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

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

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

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

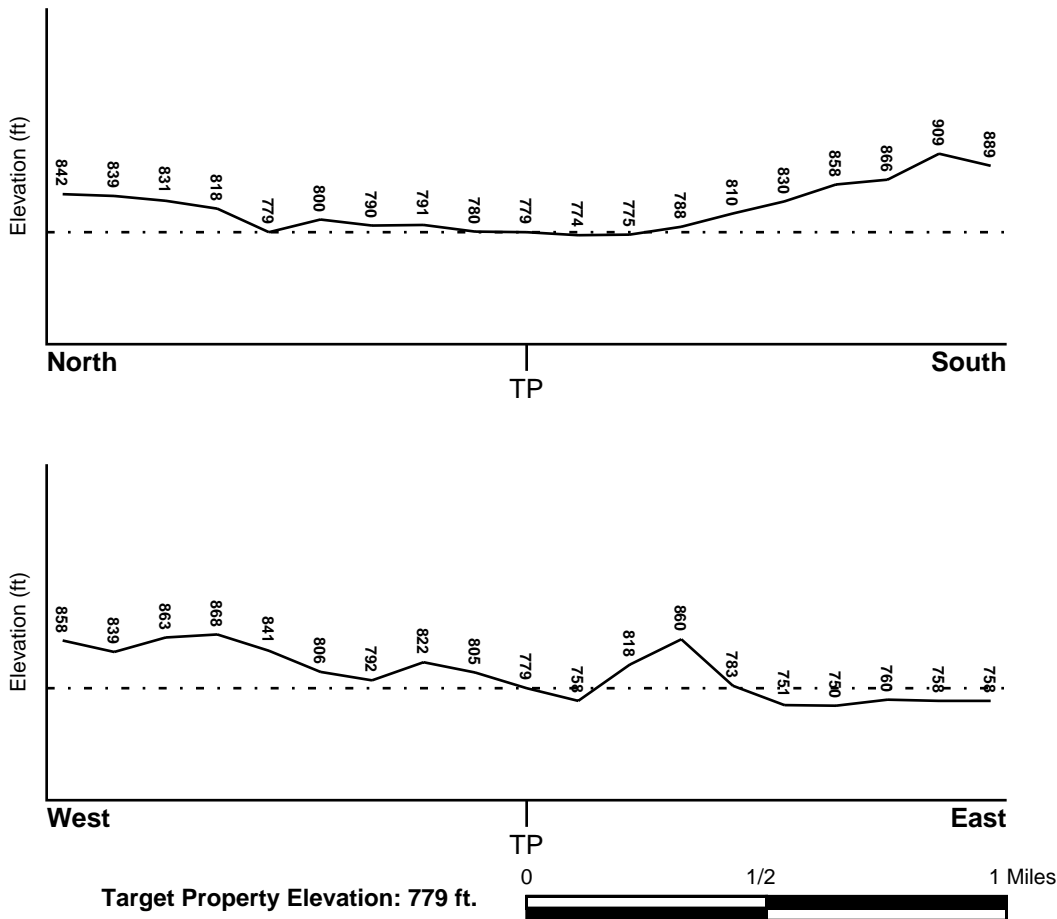
## TOPOGRAPHIC INFORMATION

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

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SW

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



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

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## HYDROLOGIC INFORMATION

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

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

## **FEMA FLOOD ZONE**

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
29165C0270D	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
Not Reported	

## **NATIONAL WETLAND INVENTORY**

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

## HYDROGEOLOGIC INFORMATION

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

## **AQUIFLOW®**

Search Radius: 1.000 Mile.

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

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

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### GROUNDWATER FLOW VELOCITY INFORMATION

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

### GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

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

#### **ROCK STRATIGRAPHIC UNIT**

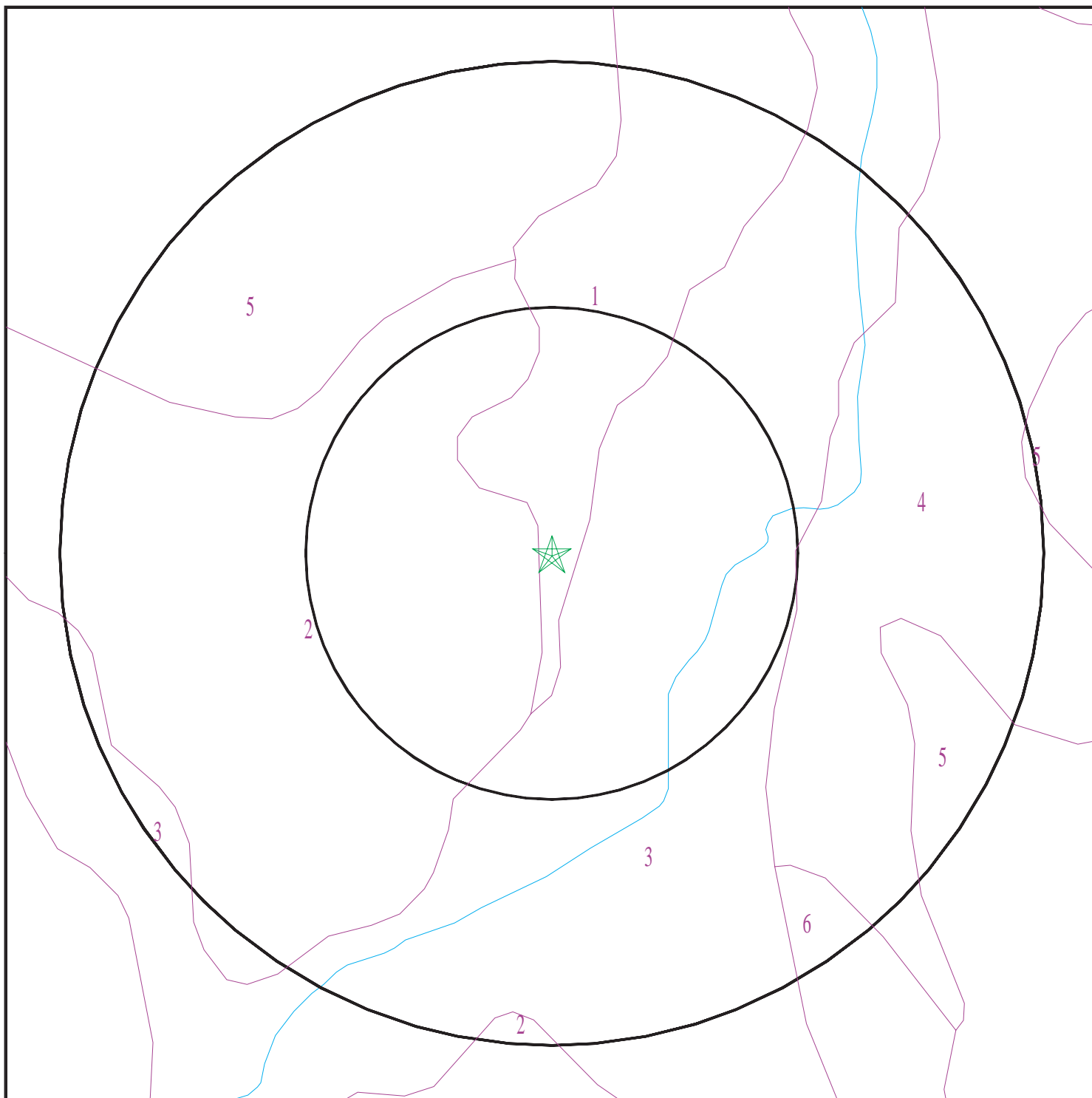
Era:	Paleozoic
System:	Pennsylvanian
Series:	Missourian Series
Code:	PP3 ( <i>decoded above as Era, System &amp; Series</i> )

#### **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 - 05723933.2r



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: 2107 South 4th Street  
ADDRESS: 2107 South 4th Street  
Leavenworth KS 66048  
LAT/LONG: 39.295671 / 94.907637

CLIENT: Environmental Works Inc.  
CONTACT: Nicole Lounsberry  
INQUIRY #: 05723933.2r  
DATE: July 22, 2019 2:50 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: Judson

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	7 inches	29 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 7.3 Min: 5.6
2	29 inches	50 inches	silty clay loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 7.3 Min: 5.6
3	50 inches	70 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 7.3 Min: 5.6
4	0 inches	7 inches	silt loam	Not reported	Not reported	Max: 14.11 Min: 4.233	Max: 7.3 Min: 5.6

#### Soil Map ID: 2

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

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 4.233 Min: 1.411	Max: 6 Min: 5.1
2	40 inches	48 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 4.233 Min: 1.411	Max: 6 Min: 5.1
3	48 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 4.233 Min: 1.411	Max: 6 Min: 5.1
4	7 inches	40 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 4.233 Min: 1.411	Max: 6 Min: 5.1

### Soil Map ID: 3

Soil Component Name: Kennebec

Soil Surface Texture: silt loam

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

Soil Drainage Class: Moderately well drained



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 107 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), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.233	Max: 7.3 Min: 6.1
2	7 inches	18 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.233	Max: 7.3 Min: 6.1
3	18 inches	31 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: 14.11 Min: 4.233	Max: 7.3 Min: 6.1
4	31 inches	40 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: 14.11 Min: 4.233	Max: 7.3 Min: 6.1
5	40 inches	53 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: 14.11 Min: 4.233	Max: 7.3 Min: 6.1
6	53 inches	59 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.233	Max: 7.3 Min: 6.1

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Soil Map ID: 4

Soil Component Name: Knox

Soil Surface Texture: silt loam

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

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 31 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14.11 Min: 4.233	Max: 7.3 Min: 5.6
2	5 inches	38 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14.11 Min: 4.233	Max: 7.3 Min: 5.6
3	38 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14.11 Min: 4.233	Max: 7.3 Min: 5.6

### Soil Map ID: 5

Soil Component Name: Knox

Soil Surface Texture: silt loam

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

Soil Drainage Class: Well drained

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.233	Max: 7.3 Min: 5.6
2	38 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: 14.11 Min: 4.233	Max: 7.3 Min: 5.6
3	5 inches	38 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.233	Max: 7.3 Min: 5.6

### Soil Map ID: 6

Soil Component Name: Marshall

Soil Surface Texture: silt loam

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

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14.11 Min: 4.233	Max: 7.3 Min: 5.6
2	5 inches	11 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14.11 Min: 4.233	Max: 7.3 Min: 5.6
3	11 inches	14 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14.11 Min: 4.233	Max: 7.3 Min: 5.6
4	14 inches	37 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14.11 Min: 4.233	Max: 7.3 Min: 5.6
5	37 inches	46 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14.11 Min: 4.233	Max: 7.3 Min: 5.6
6	46 inches	64 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14.11 Min: 4.233	Max: 7.3 Min: 5.6

### 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.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## 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>
No Wells Found		

## **FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

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

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

## **STATE DATABASE WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	KS9000000034677	0 - 1/8 Mile North
A2	KS9000000034678	0 - 1/8 Mile North
A3	KS9000000034675	0 - 1/8 Mile North
A4	KS9000000034676	0 - 1/8 Mile North
A5	KS9000000034679	0 - 1/8 Mile North
A6	KS9000000034682	0 - 1/8 Mile North
A7	KS9000000034683	0 - 1/8 Mile North
A8	KS9000000034680	0 - 1/8 Mile North
A9	KS9000000034681	0 - 1/8 Mile North
B10	KS9000000034687	1/8 - 1/4 Mile North
B11	KS9000000034688	1/8 - 1/4 Mile North
B12	KS9000000034686	1/8 - 1/4 Mile North
B13	KS9000000034684	1/8 - 1/4 Mile North
B14	KS9000000034685	1/8 - 1/4 Mile North
B15	KS9000000126092	1/8 - 1/4 Mile North
B16	KS9000000126093	1/8 - 1/4 Mile North
B17	KS9000000034691	1/8 - 1/4 Mile North
B18	KS9000000034689	1/8 - 1/4 Mile North
B19	KS9000000034690	1/8 - 1/4 Mile North
C20	KS9000000126090	1/8 - 1/4 Mile NNE
C21	KS9000000126091	1/8 - 1/4 Mile NNE
22	KS9000000126094	1/8 - 1/4 Mile NNW
D23	KS9000000235546	1/4 - 1/2 Mile ENE
D24	KS9000000235547	1/4 - 1/2 Mile ENE
E25	KS9000000124235	1/4 - 1/2 Mile North

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
E26	KS9000000124236	1/4 - 1/2 Mile North
E27	KS9000000124237	1/4 - 1/2 Mile North
F28	KS9000000093384	1/4 - 1/2 Mile NW
F29	KS9000000093386	1/4 - 1/2 Mile NW
F30	KS9000000096154	1/4 - 1/2 Mile NW
F31	KS9000000093382	1/4 - 1/2 Mile NW
F32	KS9000000093377	1/4 - 1/2 Mile NW
F33	KS9000000093379	1/4 - 1/2 Mile NW
F34	KS9000000093381	1/4 - 1/2 Mile NW
F35	KS9000000096163	1/4 - 1/2 Mile NW
F36	KS9000000096165	1/4 - 1/2 Mile NW
F37	KS9000000096166	1/4 - 1/2 Mile NW
F38	KS9000000096161	1/4 - 1/2 Mile NW
F39	KS9000000096155	1/4 - 1/2 Mile NW
F40	KS9000000096158	1/4 - 1/2 Mile NW
F41	KS9000000096159	1/4 - 1/2 Mile NW
G42	KS9000000126088	1/4 - 1/2 Mile NNE
G43	KS9000000126089	1/4 - 1/2 Mile NNE
H44	KS9000000190509	1/4 - 1/2 Mile SSE
H45	KS9000000190510	1/4 - 1/2 Mile SSE
H46	KS9000000190511	1/4 - 1/2 Mile SSE
47	KS9000000190516	1/4 - 1/2 Mile SSE
48	KS9000000034692	1/2 - 1 Mile WNW
I49	KS9000000133998	1/2 - 1 Mile South
I50	KS9000000104174	1/2 - 1 Mile South
I51	KS9000000134000	1/2 - 1 Mile South
I52	KS9000000133999	1/2 - 1 Mile South
J53	KS9000000181781	1/2 - 1 Mile SSE
J54	KS9000000181782	1/2 - 1 Mile SSE
J55	KS9000000181779	1/2 - 1 Mile SSE
J56	KS9000000181780	1/2 - 1 Mile SSE
J57	KS9000000190514	1/2 - 1 Mile SSE
J58	KS9000000190515	1/2 - 1 Mile SSE
J59	KS9000000190512	1/2 - 1 Mile SSE
J60	KS9000000190513	1/2 - 1 Mile SSE
K61	KS9000000180573	1/2 - 1 Mile NNW
K62	KS9000000180571	1/2 - 1 Mile NNW
K63	KS9000000140348	1/2 - 1 Mile NNW
K64	KS9000000180574	1/2 - 1 Mile NNW
K65	KS9000000180582	1/2 - 1 Mile NNW
K66	KS9000000180580	1/2 - 1 Mile NNW
K67	KS9000000180577	1/2 - 1 Mile NNW
L68	KS9000000117123	1/2 - 1 Mile NNE
L69	KS9000000117122	1/2 - 1 Mile NNE
L70	KS9000000117121	1/2 - 1 Mile NNE
L71	KS9000000117126	1/2 - 1 Mile NNE
L72	KS9000000117125	1/2 - 1 Mile NNE
L73	KS9000000117124	1/2 - 1 Mile NNE
M74	KS9000000034696	1/2 - 1 Mile West
M75	KS9000000034695	1/2 - 1 Mile West
M76	KS9000000034694	1/2 - 1 Mile West
M77	KS9000000034699	1/2 - 1 Mile West

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## STATE DATABASE WELL INFORMATION

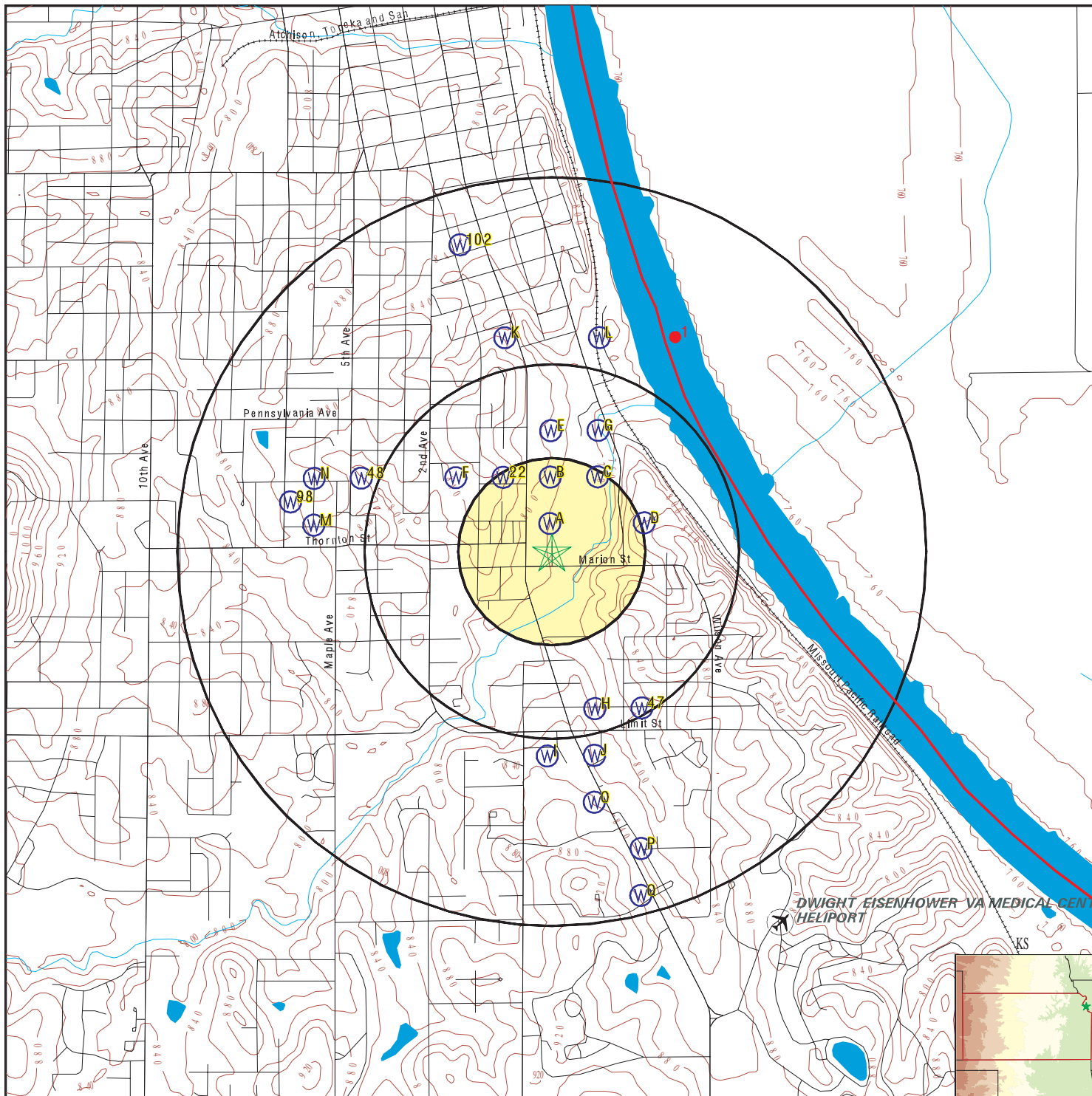
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
M78	KS9000000034698	1/2 - 1 Mile West
M79	KS9000000034697	1/2 - 1 Mile West
N80	KS90000000187237	1/2 - 1 Mile WNW
N81	KS90000000187238	1/2 - 1 Mile WNW
N82	KS90000000187239	1/2 - 1 Mile WNW
N83	KS90000000187236	1/2 - 1 Mile WNW
N84	KS9000000034693	1/2 - 1 Mile WNW
O85	KS9000000034718	1/2 - 1 Mile South
O86	KS9000000034719	1/2 - 1 Mile South
O87	KS9000000034720	1/2 - 1 Mile South
O88	KS9000000034715	1/2 - 1 Mile South
O89	KS9000000034716	1/2 - 1 Mile South
O90	KS9000000034717	1/2 - 1 Mile South
O91	KS9000000034721	1/2 - 1 Mile South
O92	KS90000000103956	1/2 - 1 Mile South
O93	KS90000000184336	1/2 - 1 Mile South
O94	KS90000000184337	1/2 - 1 Mile South
O95	KS9000000090883	1/2 - 1 Mile South
O96	KS9000000091091	1/2 - 1 Mile South
O97	KS90000000103683	1/2 - 1 Mile South
98	KS90000000121632	1/2 - 1 Mile West
P99	KS90000000146502	1/2 - 1 Mile SSE
P100	KS90000000146503	1/2 - 1 Mile SSE
P101	KS90000000149650	1/2 - 1 Mile SSE
102	KS90000000160102	1/2 - 1 Mile NNW
Q103	KS9000000034723	1/2 - 1 Mile SSE
Q104	KS9000000034722	1/2 - 1 Mile SSE
Q105	KS9000000034724	1/2 - 1 Mile SSE
Q106	KS9000000034726	1/2 - 1 Mile SSE
Q107	KS9000000034725	1/2 - 1 Mile SSE

## OTHER STATE DATABASE INFORMATION

### STATE OIL/GAS WELL INFORMATION

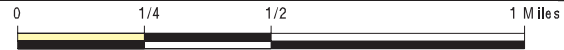
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	KSOG12000140936	1/2 - 1 Mile NNE

# PHYSICAL SETTING SOURCE MAP - 05723933.2r



- 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



<p>SITE NAME: 2107 South 4th Street                  ADDRESS: 2107 South 4th Street                  Leavenworth KS 66048                  LAT/LONG: 39.295671 / 94.907637</p>	<p>CLIENT: Environmental Works Inc.                  CONTACT: Nicole Lounsberry                  INQUIRY #: 05723933.2r                  DATE: July 22, 2019 2:50 pm</p>
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## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**A1**  
**North**  
**0 - 1/8 Mile**  
**Higher**

**KS WELLS      KS9000000034677**

Well ID:	35281	Owner:	Four B Corporation
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	20-Nov-1989
DWR #:	0	Well Depth:	29.5
Elevation:	0	Static Depth to Water:	17.6
Est Yield:	0	Driller:	Terracon Consultants, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35281">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35281</a>		

**A2**  
**North**  
**0 - 1/8 Mile**  
**Higher**

**KS WELLS      KS9000000034678**

Well ID:	35282	Owner:	Four B Corporation
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	10-Jan-1990
DWR #:	0	Well Depth:	24.5
Elevation:	0	Static Depth to Water:	9.5
Est Yield:	0	Driller:	Terracon Consultants, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35282">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35282</a>		

**A3**  
**North**  
**0 - 1/8 Mile**  
**Higher**

**KS WELLS      KS9000000034675**

Well ID:	35279	Owner:	Four B Corporation
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	27-Jun-1990
DWR #:	0	Well Depth:	24
Elevation:	0	Static Depth to Water:	11.2
Est Yield:	0	Driller:	Terracon Consultants, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35279">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35279</a>		

**A4**  
**North**  
**0 - 1/8 Mile**  
**Higher**

**KS WELLS      KS9000000034676**

Well ID:	35280	Owner:	Four B Corporation
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	20-Nov-1989
DWR #:	0	Well Depth:	24
Elevation:	0	Static Depth to Water:	10.85
Est Yield:	0	Driller:	Terracon Consultants, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35280">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35280</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**A5**  
**North**  
**0 - 1/8 Mile**  
**Higher**

**KS WELLS      KS9000000034679**

Well ID:	35283	Owner:	Four B Corporation
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	10-Jan-1990
DWR #:	0	Well Depth:	24
Elevation:	0	Static Depth to Water:	9.24
Est Yield:	0	Driller:	Terracon Consultants, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35283">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35283</a>		

**A6**  
**North**  
**0 - 1/8 Mile**  
**Higher**

**KS WELLS      KS9000000034682**

Well ID:	35286	Owner:	Four B Corporation
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	21-Nov-1989
DWR #:	0	Well Depth:	19.3
Elevation:	0	Static Depth to Water:	8.86
Est Yield:	0	Driller:	Terracon Consultants, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35286">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35286</a>		

**A7**  
**North**  
**0 - 1/8 Mile**  
**Higher**

**KS WELLS      KS9000000034683**

Well ID:	35287	Owner:	Four B Corporation
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	27-Jun-1990
DWR #:	0	Well Depth:	29.5
Elevation:	0	Static Depth to Water:	17.6
Est Yield:	0	Driller:	Terracon Consultants, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35287">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35287</a>		

**A8**  
**North**  
**0 - 1/8 Mile**  
**Higher**

**KS WELLS      KS9000000034680**

Well ID:	35284	Owner:	Four B Corporation
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	27-Jun-1990
DWR #:	0	Well Depth:	24
Elevation:	0	Static Depth to Water:	10.85
Est Yield:	0	Driller:	Terracon Consultants, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35284">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35284</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**A9**  
**North**  
**0 - 1/8 Mile**  
**Higher**

**KS WELLS      KS9000000034681**

Well ID:	35285	Owner:	Four B Corporation
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	27-Jun-1990
DWR #:	0	Well Depth:	24
Elevation:	0	Static Depth to Water:	11.2
Est Yield:	0	Driller:	Terracon Consultants, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35285">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35285</a>		

**B10**  
**North**  
**1/8 - 1/4 Mile**  
**Higher**

**KS WELLS      KS9000000034687**

Well ID:	35291	Owner:	GNB
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	03-Apr-1992
DWR #:	0	Well Depth:	40
Elevation:	787	Static Depth to Water:	15
Est Yield:	0	Driller:	West Hazmat Drilling Corp.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35291">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35291</a>		

**B11**  
**North**  
**1/8 - 1/4 Mile**  
**Higher**

**KS WELLS      KS9000000034688**

Well ID:	35292	Owner:	GNB
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	06-Apr-1992
DWR #:	0	Well Depth:	40
Elevation:	796	Static Depth to Water:	19.7
Est Yield:	0	Driller:	West Hazmat Drilling Corp.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35292">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35292</a>		

**B12**  
**North**  
**1/8 - 1/4 Mile**  
**Higher**

**KS WELLS      KS9000000034686**

Well ID:	35290	Owner:	GNB
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	03-Apr-1992
DWR #:	0	Well Depth:	28
Elevation:	788	Static Depth to Water:	14
Est Yield:	0	Driller:	West Hazmat Drilling Corp.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35290">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35290</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**B13**  
**North**  
**1/8 - 1/4 Mile**  
**Higher**

**KS WELLS      KS9000000034684**

Well ID:	35288	Owner:	GNB
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	22-Apr-1992
DWR #:	0	Well Depth:	29.6
Elevation:	785.5	Static Depth to Water:	8.6
Est Yield:	0	Driller:	West Hazmat Drilling Corp.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35288">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35288</a>		

**B14**  
**North**  
**1/8 - 1/4 Mile**  
**Higher**

**KS WELLS      KS9000000034685**

Well ID:	35289	Owner:	GNB
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	22-Apr-1992
DWR #:	0	Well Depth:	25
Elevation:	782.5	Static Depth to Water:	6
Est Yield:	0	Driller:	West Hazmat Drilling Corp.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35289">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35289</a>		

**B15**  
**North**  
**1/8 - 1/4 Mile**  
**Higher**

**KS WELLS      KS9000000126092**

Well ID:	309972	Owner:	GNB Battery Technologies
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	28-Aug-1999
DWR #:	0	Well Depth:	42
Elevation:	783.99	Static Depth to Water:	0
Est Yield:	0	Driller:	PSC Industrial Outsourcing, LP
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=309972">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=309972</a>		

**B16**  
**North**  
**1/8 - 1/4 Mile**  
**Higher**

**KS WELLS      KS9000000126093**

Well ID:	309973	Owner:	GNB Battery Technologies, Inc.
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	25-Aug-1999
DWR #:	0	Well Depth:	19.9
Elevation:	783.8	Static Depth to Water:	11.5
Est Yield:	0	Driller:	PSC Industrial Outsourcing, LP
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=309973">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=309973</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**B17**  
**North**  
**1/8 - 1/4 Mile**  
**Higher**

**KS WELLS      KS9000000034691**

Well ID:	35295	Owner:	GNB
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	05-Apr-1992
DWR #:	0	Well Depth:	45
Elevation:	798	Static Depth to Water:	24
Est Yield:	0	Driller:	West Hazmat Drilling Corp.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35295">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35295</a>		

**B18**  
**North**  
**1/8 - 1/4 Mile**  
**Higher**

**KS WELLS      KS9000000034689**

Well ID:	35293	Owner:	GNB
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	06-Apr-1992
DWR #:	0	Well Depth:	49
Elevation:	794	Static Depth to Water:	18
Est Yield:	0	Driller:	West Hazmat Drilling Corp.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35293">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35293</a>		

**B19**  
**North**  
**1/8 - 1/4 Mile**  
**Higher**

**KS WELLS      KS9000000034690**

Well ID:	35294	Owner:	GNB
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	04-Apr-1992
DWR #:	0	Well Depth:	54
Elevation:	800	Static Depth to Water:	22
Est Yield:	0	Driller:	West Hazmat Drilling Corp.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35294">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35294</a>		

**C20**  
**NNE**  
**1/8 - 1/4 Mile**  
**Lower**

**KS WELLS      KS9000000126090**

Well ID:	309970	Owner:	GNB Battery Technologies
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	26-Aug-1999
DWR #:	0	Well Depth:	17.94
Elevation:	771.3	Static Depth to Water:	0
Est Yield:	0	Driller:	PSC Industrial Outsourcing, LP
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=309970">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=309970</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**C21**  
**NNE**  
**1/8 - 1/4 Mile**  
**Lower**

**KS WELLS      KS9000000126091**

Well ID:	309971	Owner:	GNB Battery Technologies
Well Use:	Monitoring well/observation/piezometer	Status:	PLUGGED
Status:	CONSTRUCTED	Completion Date:	25-Aug-1999
DWR #:	0	Well Depth:	46.09
Elevation:	771.38	Static Depth to Water:	0
Est Yield:	0	Driller:	PSC Industrial Outsourcing, LP
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=309971">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=309971</a>		

**22**  
**NNW**  
**1/8 - 1/4 Mile**  
**Higher**

**KS WELLS      KS9000000126094**

Well ID:	309974	Owner:	GNB Battery Technologies
Well Use:	(unstated)/abandoned	Status:	PLUGGED
Completion Date:	26-Aug-1999	DWR #:	0
Well Depth:	47	Elevation:	815.42
Static Depth to Water:	36.58	Est Yield:	0
Driller:	PSC Industrial Outsourcing, LP		
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=309974">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=309974</a>		

**D23**  
**ENE**  
**1/4 - 1/2 Mile**  
**Higher**

**KS WELLS      KS9000000235546**

Well ID:	464536	Owner:	DGS LLC
Well Use:	Monitoring well/observation/piezometer	Status:	CONSTRUCTED
Status:	CONSTRUCTED	Completion Date:	17-Jan-2013
DWR #:	0	Well Depth:	45
Elevation:	0	Static Depth to Water:	0
Est Yield:	0	Driller:	Larsen and Associates, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=464536">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=464536</a>		

**D24**  
**ENE**  
**1/4 - 1/2 Mile**  
**Higher**

**KS WELLS      KS9000000235547**

Well ID:	464537	Owner:	DGS LLC
Well Use:	Monitoring well/observation/piezometer	Status:	CONSTRUCTED
Status:	CONSTRUCTED	Completion Date:	17-Jan-2013
DWR #:	0	Well Depth:	20
Elevation:	0	Static Depth to Water:	0
Est Yield:	0	Driller:	Larsen and Associates, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=464537">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=464537</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**E25**  
**North**  
**1/4 - 1/2 Mile**  
**Higher**

**KS WELLS      KS9000000124235**

Well ID:	308098	Owner:	GNB Battery Technologies
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	28-Oct-1998
DWR #:	0	Well Depth:	45
Elevation:	784.16	Static Depth to Water:	16
Est Yield:	0	Driller:	PSI
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=308098">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=308098</a>		

**E26**  
**North**  
**1/4 - 1/2 Mile**  
**Higher**

**KS WELLS      KS9000000124236**

Well ID:	308099	Owner:	GNB Battery Technologies
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	28-Oct-1998
DWR #:	0	Well Depth:	40
Elevation:	796	Static Depth to Water:	23
Est Yield:	0	Driller:	PSI
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=308099">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=308099</a>		

**E27**  
**North**  
**1/4 - 1/2 Mile**  
**Higher**

**KS WELLS      KS9000000124237**

Well ID:	308100	Owner:	GNB Battery Technologies
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	28-Oct-1998
DWR #:	0	Well Depth:	17
Elevation:	784.4	Static Depth to Water:	16
Est Yield:	0	Driller:	PSI
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=308100">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=308100</a>		

**F28**  
**NW**  
**1/4 - 1/2 Mile**  
**Higher**

**KS WELLS      KS9000000093384**

Well ID:	95597	Owner:	GNB, Inc.
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	01-Aug-1994
DWR #:	0	Well Depth:	45.2
Elevation:	0	Static Depth to Water:	13.18
Est Yield:	0	Driller:	Phillips Environmental
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=95597">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=95597</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**F29**  
**NW**  
**1/4 - 1/2 Mile**  
**Higher**

**KS WELLS      KS9000000093386**

Well ID:	95599	Owner:	GNB, Inc.
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	31-Jul-1994
DWR #:	0	Well Depth:	44.7
Elevation:	0	Static Depth to Water:	10.6
Est Yield:	0	Driller:	Phillips Environmental
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=95599">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=95599</a>		

**F30**  
**NW**  
**1/4 - 1/2 Mile**  
**Higher**

**KS WELLS      KS9000000096154**

Well ID:	98410	Owner:	GNB, Inc.
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	28-Mar-1995
DWR #:	0	Well Depth:	25
Elevation:	782.4	Static Depth to Water:	9.66
Est Yield:	0	Driller:	Schaal Drilling Co.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=98410">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=98410</a>		

**F31**  
**NW**  
**1/4 - 1/2 Mile**  
**Higher**

**KS WELLS      KS9000000093382**

Well ID:	95595	Owner:	GNB, Inc.
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	01-Aug-1994
DWR #:	0	Well Depth:	43.5
Elevation:	0	Static Depth to Water:	17.85
Est Yield:	0	Driller:	Phillips Environmental
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=95595">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=95595</a>		

**F32**  
**NW**  
**1/4 - 1/2 Mile**  
**Higher**

**KS WELLS      KS9000000093377**

Well ID:	95590	Owner:	GNB, Inc.
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	29-Jul-1994
DWR #:	0	Well Depth:	16.8
Elevation:	0	Static Depth to Water:	9.2
Est Yield:	0	Driller:	Phillips Environmental
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=95590">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=95590</a>		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**F33**  
**NW**  
**1/4 - 1/2 Mile**  
**Higher**

**KS WELLS      KS9000000093379**

Well ID:	95592	Owner:	GNB, Inc.
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	27-Jul-1994
DWR #:	0	Well Depth:	28.3
Elevation:	0	Static Depth to Water:	20.38
Est Yield:	0	Driller:	Phillips Environmental
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=95592">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=95592</a>		

**F34**  
**NW**  
**1/4 - 1/2 Mile**  
**Higher**

**KS WELLS      KS9000000093381**

Well ID:	95594	Owner:	GNB, Inc.
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	27-Jul-1994
DWR #:	0	Well Depth:	30
Elevation:	0	Static Depth to Water:	28.76
Est Yield:	0	Driller:	Phillips Environmental
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=95594">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=95594</a>		

**F35**  
**NW**  
**1/4 - 1/2 Mile**  
**Higher**

**KS WELLS      KS9000000096163**

Well ID:	98419	Owner:	GNB, Inc.
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	30-Mar-1995
DWR #:	0	Well Depth:	49
Elevation:	793.33	Static Depth to Water:	21.48
Est Yield:	0	Driller:	Phillips Environmental
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=98419">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=98419</a>		

**F36**  
**NW**  
**1/4 - 1/2 Mile**  
**Higher**

**KS WELLS      KS9000000096165**

Well ID:	98421	Owner:	GNB, Inc.
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	30-Mar-1995
DWR #:	0	Well Depth:	26
Elevation:	793	Static Depth to Water:	20.76
Est Yield:	0	Driller:	Phillips Environmental
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=98421">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=98421</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**F37**  
**NW**  
**1/4 - 1/2 Mile**  
**Higher**

**KS WELLS      KS9000000096166**

Well ID:	98422	Owner:	GNB, Inc.
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	28-Mar-1995
DWR #:	0	Well Depth:	44.7
Elevation:	783	Static Depth to Water:	20
Est Yield:	0	Driller:	Phillips Environmental
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=98422">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=98422</a>		

**F38**  
**NW**  
**1/4 - 1/2 Mile**  
**Higher**

**KS WELLS      KS9000000096161**

Well ID:	98417	Owner:	GNB, Inc.
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	29-Mar-1995
DWR #:	0	Well Depth:	40
Elevation:	786.47	Static Depth to Water:	18.12
Est Yield:	0	Driller:	Phillips Environmental
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=98417">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=98417</a>		

**F39**  
**NW**  
**1/4 - 1/2 Mile**  
**Higher**

**KS WELLS      KS9000000096155**

Well ID:	98411	Owner:	GNB, Inc.
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	30-Mar-1995
DWR #:	0	Well Depth:	43.5
Elevation:	787	Static Depth to Water:	18.09
Est Yield:	0	Driller:	Phillips Environmental
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=98411">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=98411</a>		

**F40**  
**NW**  
**1/4 - 1/2 Mile**  
**Higher**

**KS WELLS      KS9000000096158**

Well ID:	98414	Owner:	GNB, Inc.
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	28-Mar-1995
DWR #:	0	Well Depth:	30
Elevation:	785.4	Static Depth to Water:	14.74
Est Yield:	0	Driller:	Phillips Environmental
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=98414">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=98414</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**F41**  
**NW**  
**1/4 - 1/2 Mile**  
**Higher**

**KS WELLS      KS9000000096159**

Well ID:	98415	Owner:	GNB, Inc.
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	29-Mar-1995
DWR #:	0	Well Depth:	30
Elevation:	787.21	Static Depth to Water:	17.52
Est Yield:	0	Driller:	Phillips Environmental
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=98415">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=98415</a>		

**G42**  
**NNE**  
**1/4 - 1/2 Mile**  
**Lower**

**KS WELLS      KS9000000126088**

Well ID:	309968	Owner:	GNB Battery Technologies
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	27-Aug-1999
DWR #:	0	Well Depth:	16.14
Elevation:	770.49	Static Depth to Water:	0
Est Yield:	0	Driller:	PSC Industrial Outsourcing, LP
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=309968">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=309968</a>		

**G43**  
**NNE**  
**1/4 - 1/2 Mile**  
**Lower**

**KS WELLS      KS9000000126089**

Well ID:	309969	Owner:	GNB Battery Technologies
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	27-Aug-1999
DWR #:	0	Well Depth:	53.55
Elevation:	770.43	Static Depth to Water:	0
Est Yield:	0	Driller:	PSC Industrial Outsourcing, LP
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=309969">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=309969</a>		

**H44**  
**SSE**  
**1/4 - 1/2 Mile**  
**Higher**

**KS WELLS      KS9000000190509**

Well ID:	402343	Owner:	Kansas Dept. of Health and Environment
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	03-Apr-2007
DWR #:	0	Well Depth:	25
Elevation:	817.43	Static Depth to Water:	18.3
Est Yield:	0	Driller:	Larsen and Associates, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=402343">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=402343</a>		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**H45**  
**SSE**  
**1/4 - 1/2 Mile**  
**Higher**

**KS WELLS      KS9000000190510**

Well ID:	402344		
Owner:	Kansas Dept. of Health and Environment		
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	14-Mar-2007
DWR #:	41419	Well Depth:	20
Elevation:	801.38	Static Depth to Water:	14.78
Est Yield:	0	Driller:	Larsen and Associates, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=402344">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=402344</a>		

**H46**  
**SSE**  
**1/4 - 1/2 Mile**  
**Higher**

**KS WELLS      KS9000000190511**

Well ID:	402345		
Owner:	Kansas Dept. of Health and Environment		
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	14-Mar-2007
DWR #:	41420	Well Depth:	20
Elevation:	800.46	Static Depth to Water:	13.17
Est Yield:	0	Driller:	Larsen and Associates, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=402345">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=402345</a>		

**47**  
**SSE**  
**1/4 - 1/2 Mile**  
**Higher**

**KS WELLS      KS9000000190516**

Well ID:	402365		
Owner:	Kansas Dept. of Health and Environment		
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	14-Mar-2007
DWR #:	41422	Well Depth:	18
Elevation:	794.97	Static Depth to Water:	7
Est Yield:	0	Driller:	Larsen and Associates, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=402365">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=402365</a>		

**48**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000034692**

Well ID:	35296	Owner:	Steve's Apco
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	02-Apr-1992
DWR #:	0	Well Depth:	15
Elevation:	0	Static Depth to Water:	11.8
Est Yield:	0	Driller:	JB Environmental Drilling
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35296">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35296</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**I49**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000133998**

Well ID:	318016	Owner:	KDHE/Adams Standard Service
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	08-Jan-2001
DWR #:	0	Well Depth:	19
Elevation:	0	Static Depth to Water:	7.26
Est Yield:	0	Driller:	Associated Environmental, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=318016">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=318016</a>		

**I50**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000104174**

Well ID:	106646	Owner:	KDHE/Storage Tank Section
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	17-Apr-1996
DWR #:	0	Well Depth:	39.5
Elevation:	0	Static Depth to Water:	13.6
Est Yield:	0	Driller:	MIKON Corporation
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=106646">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=106646</a>		

**I51**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000134000**

Well ID:	318018	Owner:	KDHE/Adams Standard Service
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	08-Jan-2001
DWR #:	0	Well Depth:	19
Elevation:	0	Static Depth to Water:	4.59
Est Yield:	0	Driller:	Associated Environmental, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=318018">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=318018</a>		

**I52**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000133999**

Well ID:	318017	Owner:	KDHE/Adams Standard Service
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	08-Jan-2001
DWR #:	0	Well Depth:	19
Elevation:	0	Static Depth to Water:	11.3
Est Yield:	0	Driller:	Associated Environmental, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=318017">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=318017</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**J53**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000181781**

Well ID:	387582	Owner:	KDHE-BER/Adams Standard Service
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	06-Mar-2006
DWR #:	0	Well Depth:	15
Elevation:	0	Static Depth to Water:	0
Est Yield:	0	Driller:	Larsen and Associates, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=387582">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=387582</a>		

**J54**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000181782**

Well ID:	387583	Owner:	KDHE-BER/Adams Standard Service
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	06-Mar-2006
DWR #:	0	Well Depth:	20
Elevation:	828.44	Static Depth to Water:	18.91
Est Yield:	0	Driller:	Larsen and Associates, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=387583">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=387583</a>		

**J55**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000181779**

Well ID:	387580	Owner:	KDHE-BER/Adams Standard Service
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	06-Mar-2006
DWR #:	0	Well Depth:	15
Elevation:	0	Static Depth to Water:	10.53
Est Yield:	0	Driller:	Larsen and Associates, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=387580">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=387580</a>		

**J56**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000181780**

Well ID:	387581	Owner:	KDHE-BER/Adams Standard Service
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	06-Mar-2006
DWR #:	0	Well Depth:	15
Elevation:	0	Static Depth to Water:	0
Est Yield:	0	Driller:	Larsen and Associates, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=387581">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=387581</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**J57**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000190514**

Well ID:	402348		
Owner:	Kansas Dept. of Health and Environment		
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	15-Mar-2007
DWR #:	0	Well Depth:	32
Elevation:	817.57	Static Depth to Water:	20.49
Est Yield:	0	Driller:	Larsen and Associates, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=402348">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=402348</a>		

**J58**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000190515**

Well ID:	402361		
Owner:	Kansas Dept. of Health and Environment		
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	15-Mar-2007
DWR #:	0	Well Depth:	15
Elevation:	797.67	Static Depth to Water:	6.71
Est Yield:	0	Driller:	Larsen and Associates, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=402361">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=402361</a>		

**J59**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000190512**

Well ID:	402346		
Owner:	Kansas Dept. of Health and Environment		
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	15-Mar-2007
DWR #:	41417	Well Depth:	29
Elevation:	813.08	Static Depth to Water:	18.23
Est Yield:	0	Driller:	Larsen and Associates, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=402346">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=402346</a>		

**J60**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000190513**

Well ID:	402347		
Owner:	Kansas Dept. of Health and Environment		
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	15-Mar-2007
DWR #:	0	Well Depth:	25
Elevation:	814.34	Static Depth to Water:	22.26
Est Yield:	0	Driller:	Larsen and Associates, Inc.

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

URL: [http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well\\_details?well\\_id=402347](http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=402347)

**K61  
NNW  
1/2 - 1 Mile  
Higher**

**KS WELLS      KS9000000180573**

Well ID:	385516	Owner:	Ochs, Raymond
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	16-May-2006
DWR #:	0	Well Depth:	10
Elevation:	0	Static Depth to Water:	6.7
Est Yield:	0	Driller:	Coranco Great Plains, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=385516">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=385516</a>		

**K62  
NNW  
1/2 - 1 Mile  
Higher**

**KS WELLS      KS9000000180571**

Well ID:	385514	Owner:	Ochs, Raymond
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	16-May-2006
DWR #:	0	Well Depth:	30
Elevation:	0	Static Depth to Water:	24
Est Yield:	0	Driller:	Coranco Great Plains, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=385514">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=385514</a>		

**K63  
NNW  
1/2 - 1 Mile  
Higher**

**KS WELLS      KS9000000140348**

Well ID:	324912	Owner:	Ochs, Raymond
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	24-Oct-2001
DWR #:	0	Well Depth:	12
Elevation:	0	Static Depth to Water:	0
Est Yield:	0	Driller:	Quad State Services, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=324912">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=324912</a>		

**K64  
NNW  
1/2 - 1 Mile  
Higher**

**KS WELLS      KS9000000180574**

Well ID:	385517	Owner:	Ochs, Raymond
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	16-May-2006
DWR #:	0	Well Depth:	9
Elevation:	0	Static Depth to Water:	6.65
Est Yield:	0	Driller:	Coranco Great Plains, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=385517">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=385517</a>		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**K65**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000180582**

Well ID:	385525	Owner:	Ochs, Raymond
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	16-May-2006
DWR #:	0	Well Depth:	25
Elevation:	0	Static Depth to Water:	18.28
Est Yield:	0	Driller:	Coranco Great Plains, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=385525">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=385525</a>		

**K66**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000180580**

Well ID:	385523	Owner:	Ochs, Raymond
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	16-May-2006
DWR #:	0	Well Depth:	30
Elevation:	0	Static Depth to Water:	27.12
Est Yield:	0	Driller:	Coranco Great Plains, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=385523">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=385523</a>		

**K67**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000180577**

Well ID:	385520	Owner:	Ochs, Raymond
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	16-May-2006
DWR #:	0	Well Depth:	31
Elevation:	0	Static Depth to Water:	24.49
Est Yield:	0	Driller:	Coranco Great Plains, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=385520">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=385520</a>		

**L68**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**KS WELLS      KS9000000117123**

Well ID:	300793	Owner:	Ochs, Raymond
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	10-Jun-1998
DWR #:	0	Well Depth:	32
Elevation:	0	Static Depth to Water:	24.65
Est Yield:	0	Driller:	JB Environmental Drilling
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=300793">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=300793</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**L69**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**KS WELLS      KS9000000117122**

Well ID:	300792	Owner:	Ray's Apco
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	09-Oct-1998
DWR #:	0	Well Depth:	30
Elevation:	0	Static Depth to Water:	24.89
Est Yield:	0	Driller:	JB Environmental Drilling
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=300792">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=300792</a>		

**L70**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**KS WELLS      KS9000000117121**

Well ID:	300791	Owner:	Ray's Apco
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	09-Oct-1998
DWR #:	0	Well Depth:	25
Elevation:	0	Static Depth to Water:	18.47
Est Yield:	0	Driller:	JB Environmental Drilling
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=300791">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=300791</a>		

**L71**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**KS WELLS      KS9000000117126**

Well ID:	300796	Owner:	Ochs, Raymond
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	11-Jun-1998
DWR #:	0	Well Depth:	10
Elevation:	0	Static Depth to Water:	0
Est Yield:	0	Driller:	JB Environmental Drilling
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=300796">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=300796</a>		

**L72**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**KS WELLS      KS9000000117125**

Well ID:	300795	Owner:	Ochs, Raymond
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	10-Jun-1998
DWR #:	0	Well Depth:	12
Elevation:	0	Static Depth to Water:	6.58
Est Yield:	0	Driller:	JB Environmental Drilling
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=300795">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=300795</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**L73**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**KS WELLS      KS9000000117124**

Well ID:	300794	Owner:	Raymond Ochs
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	10-Jun-1998
DWR #:	0	Well Depth:	11
Elevation:	0	Static Depth to Water:	5.52
Est Yield:	0	Driller:	JB Environmental Drilling
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=300794">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=300794</a>		

**M74**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000034696**

Well ID:	35300	Owner:	Steve's Apco
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	01-Jul-1992
DWR #:	0	Well Depth:	15
Elevation:	0	Static Depth to Water:	12.5
Est Yield:	0	Driller:	JB Environmental Drilling
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35300">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35300</a>		

**M75**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000034695**

Well ID:	35299	Owner:	Steve's Apco
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	01-Jul-1992
DWR #:	0	Well Depth:	15
Elevation:	0	Static Depth to Water:	12.4
Est Yield:	0	Driller:	JB Environmental Drilling
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35299">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35299</a>		

**M76**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000034694**

Well ID:	35298	Owner:	Steve's Apco
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	01-Jul-1992
DWR #:	0	Well Depth:	15
Elevation:	0	Static Depth to Water:	12
Est Yield:	0	Driller:	JB Environmental Drilling
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35298">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35298</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**M77**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000034699**

Well ID:	35303	Owner:	Steve's Apco
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	29-Jun-1992
DWR #:	0	Well Depth:	18.5
Elevation:	0	Static Depth to Water:	11.5
Est Yield:	0	Driller:	JB Environmental Drilling
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35303">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35303</a>		

**M78**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000034698**

Well ID:	35302	Owner:	Steve's Apco
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	29-Jun-1992
DWR #:	0	Well Depth:	12.7
Elevation:	0	Static Depth to Water:	10.8
Est Yield:	0	Driller:	JB Environmental Drilling
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35302">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35302</a>		

**M79**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000034697**

Well ID:	35301	Owner:	Steve's Apco
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	29-Jun-1992
DWR #:	0	Well Depth:	15
Elevation:	0	Static Depth to Water:	11.9
Est Yield:	0	Driller:	JB Environmental Drilling
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35301">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35301</a>		

**N80**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000187237**

Well ID:	397643	Owner:	Steve's Apco
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	22-Nov-2006
DWR #:	0	Well Depth:	12
Elevation:	0	Static Depth to Water:	9.25
Est Yield:	0	Driller:	Associated Environmental, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=397643">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=397643</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**N81**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000187238**

Well ID:	397644	Owner:	Steve's Apco
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	22-Nov-2006
DWR #:	0	Well Depth:	15
Elevation:	0	Static Depth to Water:	7.8
Est Yield:	0	Driller:	Associated Environmental, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=397644">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=397644</a>		

**N82**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000187239**

Well ID:	397645	Owner:	Steve's Apco
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	22-Nov-2006
DWR #:	0	Well Depth:	19
Elevation:	0	Static Depth to Water:	8.91
Est Yield:	0	Driller:	Associated Environmental, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=397645">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=397645</a>		

**N83**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000187236**

Well ID:	397642	Owner:	Steve's Apco
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	22-Nov-2006
DWR #:	0	Well Depth:	16
Elevation:	0	Static Depth to Water:	7.1
Est Yield:	0	Driller:	Associated Environmental, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=397642">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=397642</a>		

**N84**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000034693**

Well ID:	35297	Owner:	Steve's Apco
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	02-Jul-1992
DWR #:	0	Well Depth:	15
Elevation:	0	Static Depth to Water:	12.7
Est Yield:	0	Driller:	JB Environmental Drilling
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35297">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35297</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**O85**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000034718**

Well ID:	35322	Owner:	Olympic Car Wash
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	20-Jun-1994
DWR #:	0	Well Depth:	15
Elevation:	0	Static Depth to Water:	6.82
Est Yield:	0	Driller:	Grogan Ebberts Drilling
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35322">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35322</a>		

**O86**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000034719**

Well ID:	35323	Owner:	Carl's Gas Service
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	20-Jun-1994
DWR #:	0	Well Depth:	15
Elevation:	0	Static Depth to Water:	4.13
Est Yield:	0	Driller:	Grogan Ebberts Drilling
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35323">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35323</a>		

**O87**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000034720**

Well ID:	35324	Owner:	Carl's Gas Service
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	20-Jun-1994
DWR #:	0	Well Depth:	17
Elevation:	0	Static Depth to Water:	5.49
Est Yield:	0	Driller:	Grogan Ebberts Drilling
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35324">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35324</a>		

**O88**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000034715**

Well ID:	35319	Owner:	Olympic Car Wash
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	20-Jun-1994
DWR #:	0	Well Depth:	15
Elevation:	0	Static Depth to Water:	10.16
Est Yield:	0	Driller:	Grogan Ebberts Drilling
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35319">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35319</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**O89**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000034716**

Well ID:	35320	Owner:	City of Leavenworth
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	21-Jun-1994
DWR #:	0	Well Depth:	20
Elevation:	0	Static Depth to Water:	6.68
Est Yield:	0	Driller:	Grogan Ebberts Drilling
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35320">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35320</a>		

**O90**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000034717**

Well ID:	35321	Owner:	City of Leavenworth
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	21-Jun-1994
DWR #:	0	Well Depth:	20
Elevation:	0	Static Depth to Water:	11.04
Est Yield:	0	Driller:	Grogan Ebberts Drilling
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35321">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35321</a>		

**O91**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000034721**

Well ID:	35325	Owner:	Carl's Gas Service
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	20-Jun-1994
DWR #:	0	Well Depth:	16
Elevation:	0	Static Depth to Water:	4.6
Est Yield:	0	Driller:	Grogan Ebberts Drilling
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35325">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35325</a>		

**O92**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000103956**

Well ID:	106423	Owner:	Leavenworth Plaza
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	03-Apr-1996
DWR #:	0	Well Depth:	20
Elevation:	0	Static Depth to Water:	4.25
Est Yield:	0	Driller:	Grogan Ebberts Drilling
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=106423">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=106423</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**O93**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000184336**

Well ID:	392008	Owner:	Zoch, Fred/Carl's Gas Service
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	13-Jul-2006
DWR #:	0	Well Depth:	16
Elevation:	0	Static Depth to Water:	6.41
Est Yield:	0	Driller:	Associated Environmental, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=392008">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=392008</a>		

**O94**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000184337**

Well ID:	392009	Owner:	Zoch, Fred/Carl's Gas Service
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	13-Jul-2006
DWR #:	0	Well Depth:	20
Elevation:	0	Static Depth to Water:	7.65
Est Yield:	0	Driller:	Associated Environmental, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=392009">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=392009</a>		

**O95**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000090883**

Well ID:	93049	Owner:	Olympic Car Wash
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	21-Jun-1994
DWR #:	0	Well Depth:	15.5
Elevation:	0	Static Depth to Water:	9.23
Est Yield:	0	Driller:	Grogan Ebberts Drilling
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=93049">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=93049</a>		

**O96**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000091091**

Well ID:	93262	Owner:	Leavenworth Plaza
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	07-Jul-1994
DWR #:	0	Well Depth:	20
Elevation:	0	Static Depth to Water:	8
Est Yield:	0	Driller:	Grogan Ebberts Drilling
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=93262">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=93262</a>		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**O97**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000103683**

Well ID:	106140	Owner:	Carl's Gas Service
Well Use:	Monitoring well/observation/piezometer		
Status:	PLUGGED	Completion Date:	03-Apr-1996
DWR #:	0	Well Depth:	20
Elevation:	0	Static Depth to Water:	8.15
Est Yield:	0		
Driller:	Charles W. Roberts Environmental Drilling, Inc.		
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=106140">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=106140</a>		

**98**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000121632**

Well ID:	305424	Owner:	Young, Chris
Well Use:	(unstated)/abandoned	Status:	PLUGGED
Completion Date:	09-Jun-1999	DWR #:	0
Well Depth:	3	Elevation:	0
Static Depth to Water:	0	Est Yield:	0
Driller:	Young, Christopher		
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=305424">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=305424</a>		

**P99**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000146502**

Well ID:	332181	Owner:	BMD Properties, LLC
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	11-Sep-2002
DWR #:	0	Well Depth:	15
Elevation:	820	Static Depth to Water:	6.19
Est Yield:	0	Driller:	Quad State Services, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=332181">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=332181</a>		

**P100**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000146503**

Well ID:	332183	Owner:	BMD Properties, LLC
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	11-Sep-2002
DWR #:	0	Well Depth:	15
Elevation:	820	Static Depth to Water:	5.8
Est Yield:	0	Driller:	Quad State Services, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=332183">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=332183</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**P101**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000149650**

Well ID:	335744	Owner:	BMD Properties, LLC
Well Use:	Monitoring well/observation/piezometer	Status:	CONSTRUCTED
Status:	CONSTRUCTED	Completion Date:	11-Sep-2002
DWR #:	0	Well Depth:	15
Elevation:	820	Static Depth to Water:	3.42
Est Yield:	0	Driller:	Quad State Services, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=335744">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=335744</a>		

**102**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000160102**

Well ID:	347406	Owner:	Geiger Ready Mix Co, Inc.
Well Use:	Industrial	Status:	PLUGGED
Completion Date:	21-May-2004	DWR #:	0
Well Depth:	0	Elevation:	0
Static Depth to Water:	0	Est Yield:	0
Driller:	Jesse Yoakum Well Drilling		
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=347406">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=347406</a>		

**Q103**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000034723**

Well ID:	35327	Owner:	Block and Company
Well Use:	Monitoring well/observation/piezometer	Status:	CONSTRUCTED
Status:	CONSTRUCTED	Completion Date:	04-Jan-1990
DWR #:	0	Well Depth:	23.4
Elevation:	799.71	Static Depth to Water:	7.15
Est Yield:	0	Driller:	Terracon Consultants, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35327">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35327</a>		

**Q104**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000034722**

Well ID:	35326	Owner:	Block and Company
Well Use:	Monitoring well/observation/piezometer	Status:	CONSTRUCTED
Status:	CONSTRUCTED	Completion Date:	04-Jan-1990
DWR #:	0	Well Depth:	23
Elevation:	800.52	Static Depth to Water:	5.81
Est Yield:	0	Driller:	Terracon Consultants, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35326">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35326</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**Q105**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000034724**

Well ID:	35328	Owner:	Block and Company
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	04-Jan-1990
DWR #:	0	Well Depth:	23
Elevation:	799.33	Static Depth to Water:	6.39
Est Yield:	0	Driller:	Terracon Consultants, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35328">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35328</a>		

**Q106**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000034726**

Well ID:	35330	Owner:	Block and Company
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	03-Jan-1990
DWR #:	0	Well Depth:	24.4
Elevation:	802.04	Static Depth to Water:	8.11
Est Yield:	0	Driller:	Terracon Consultants, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35330">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35330</a>		

**Q107**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**KS WELLS      KS9000000034725**

Well ID:	35329	Owner:	Block and Company
Well Use:	Monitoring well/observation/piezometer		
Status:	CONSTRUCTED	Completion Date:	05-Jan-1990
DWR #:	0	Well Depth:	13.5
Elevation:	803.95	Static Depth to Water:	2.17
Est Yield:	0	Driller:	Terracon Consultants, Inc.
URL:	<a href="http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35329">http://chasm.kgs.ku.edu/ords/wwc5.wwc5d2.well_details?well_id=35329</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance

Database EDR ID Number

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**1**  
**NNE**  
**1/2 - 1 Mile**

**OIL\_GAS KSOG12000140936**

API Well #:	21083	Well Type:	Oil
Horizontal Leg and Workover #:	Not Reported	Field Name:	Not Reported
Field ID:	0	Lease Name:	Kaw Corp
Well #:	2	Well Class:	Approved Intent to Drill
Original Well Operator:	KAW CORP.	Curr Operator ID:	0
Well Depth (ft):	0	Status:	Produced oil.
Spud Date:	0	Permit Date:	198812 9
Completion Date:	0	Plug Date:	0
Bushing Elevation:	0	Surface Elevation:	0
Derrick Floor Elevation:	0	Producing Formation:	Not Reported

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: KS Radon

### Radon Test Results

Zipcode	Avg Radon	Max Radon	Num Tests
66048	4.4	62.0	362

Federal EPA Radon Zone for LEAVENWORTH 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.

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Federal Area Radon Information for Zip Code: 66048

Number of sites tested: 14

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.875 pCi/L	75%	25%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.307 pCi/L	86%	14%	0%

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

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

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Wetland Inventory

Source: US Fish & Wildlife Service

Telephone: 703-358-2171

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

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

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

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

### STATSGO: State Soil Geographic Database

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

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

### SSURGO: Soil Survey Geographic Database

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

Telephone: 800-672-5559

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

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

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

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

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

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

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

### STATE RECORDS

#### Kansas Water Well Completion Records Database

Source: Kansas Geological Survey

Telephone: 913-864-3965

## OTHER STATE DATABASE INFORMATION

#### Oil and Gas Well Location Database Listing

Source: Kansas Geological Survey

Telephone: 785-864-3965

### RADON

#### State Database: KS Radon

Source: Department of Health & Environment

Telephone: 785-296-1500

Kansas Indoor Radon Measurements

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

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

#### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

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

### OTHER

#### Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

#### Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## STREET AND ADDRESS INFORMATION

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## **Appendix D**

### **Agency Documentation**

# Leavenworth County, KS

## Property Report Card

Parcel Number: 1010104002003020

Quick Ref ID: R10334

Owner Name FOUR D COMPANY LLC

Property Address: 2107 S 4TH ST, Leavenworth, KS 66048

Owner Address: 5300 SPEAKER RD  
KANSAS CITY, KS 66106

School District: USD453

Sq. Ft.:

Acres: 4.0 Ac.

Tax Unit: 1.00

Legal Description: LT 1 BALLS SUB RPLT LESS TR BEG NW COR LT 2, N10'(S), E147.7', S160'(S), W30', N100'(S), W20'(S), N50'(S), W TO POB

Section: 1

Block

Township: 9

Lot: 0

Range: 22E

Sub Lot Range:

Plat: B47

Subdivision Plat: BALL'S SUB REPLAT

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**The Parcel Number for this Property is 052-101-01-0-40-02-003.02-0**  
**Quick Ref ID: 10334**

### Owner Information

<b>Owner Name</b>	FOUR D COMPANY LLC
<b>Address</b>	5300 SPEAKER RD KANSAS CITY, KS 66106

### Property Situs Address

<b>Address</b>	2107 S 4TH ST, Leavenworth, KS 66048
----------------	--------------------------------------

### Land Based Classification System

<b>Function</b>	Grocery store / supermarket
<b>Activity</b>	Goods-oriented shopping
<b>Ownership</b>	Private-fee simple
<b>Site</b>	Developed site - with buildings

### General Property Information

<b>Prop Class</b>	Commercial & Industrial - C
<b>Living Units</b>	
<b>Zoning</b>	
<b>Neighborhood</b>	161.0
<b>Tax Unit Group</b>	001

### Property Factors

<b>Topography</b>	Level - 1
<b>Utilities</b>	All Public - 1
<b>Access</b>	Paved Road - 1
<b>Fronting</b>	Major Strip or CBD - 1
<b>Location</b>	Major Strip - 4
<b>Parking Type</b>	Off Street - 1
<b>Parking Quantity</b>	Adequate - 2
<b>Parking Proximity</b>	On Site - 3
<b>Parking Covered</b>	
<b>Parking Uncovered</b>	

### 2019 Appraised Value

Class	Land	Building	Total
Commercial & Industrial - C	972,840	1,274,160	2,247,000
<b>Total</b>	<b>972,840</b>	<b>1,274,160</b>	<b>2,247,000</b>

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Total	1,013,130	1,233,870	2,247,000
-------	-----------	-----------	-----------

**Tract Description**

BALL'S SUB REPLAT, S01, T09, R22E, ACRES 4.02, LT 1 BALLS SUB RPLT LESS TR BEG NW COR LT 2, N10'(S), E147.7', S160'(S), W30', N100'(S), W20'(S), N50'(S), W TO POB Plat Book/Page 12 /16 Deed Book/Page 0689/0729 0656/1409 0640/0804 0640/0803 0640/0558 0640/0556 0640/0555 0586/1967 0586/1592 0586/0771

**Building Permit Information**

Permit Number	Amount	Issue Date	Description
3693	80,000	11/27/2017	OTHER-SEE COMMENT
3589	1	11/9/2017	OTHER-SEE COMMENT
24546	8,000	3/2/2009	
12904	10,000	6/1/1995	

**Deed Information**

Book1	Page1	Book2	Page2	Book3	Page3	Book4	Page4
0689	0729	0656	1409	0640	0804	0640	0803

**Market Land Information**

Method	Type	AC/SF	Eff FF	Depth	D-Fact	Inf1	Fact1	Inf2	Fact2	Ovrd	Class	Value Est
Sqft	Primary Site - 1	176452										972,840

**General Commercial Building Information**

General Building Information	
LBCS Structure Code	Supermarket
Bldg No.	1
Building Name	PRICE CHOPPER
Identical units	1
No. of Units	2
Unit Type	
MS Mult	
MS Zip	

Apartment Data								
	1	2	3	4	5	6	7	8
Units								
BR Type								
Baths								

Commercial Building Sections & Basements																		
Sec	Occupancy	MSCIs	Rank	Yr Blt	Eff Yr	Levels	Stories	Area	Perim	Hgt	Phys	Func	Econ	OVR%	Rsn	Inc Use	Net Area	Cls
1	Supermarket	C	2.00	1990		01/01		49,780	930	20	3	3				033		
2	Supermarket	C	2.00	1990		01/01		1,250	100	10	3	3				034		

**Commercial Building Section Components**

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1	Porch, Open Slab	3382					
1	Canopy, Retail Wood Frame	392					
1	Loading Dock, Concrete	3766					
1	Dock Levelers, Hydraulic	3					
2	Warmed and Cooled Air		100				
2	Concrete, Tilt-up		100				

**Other Building Improvements**

<b>ID</b>	<b>Occupancy</b>	<b>MSCIs</b>	<b>Rank</b>	<b>Qty</b>	<b>Yr Blt</b>	<b>Eff Yr</b>	<b>LBCS</b>	<b>Area</b>	<b>Perim</b>	<b>Hgt</b>	<b>Dimensions</b>	<b>Stories</b>	<b>Phys</b>	<b>Func</b>	<b>Econ</b>	<b>OVR%</b>	<b>Rsn</b>	<b>Clis</b>
67	Site Improvements	C	2.00	1	1990			10		8		1	3	3				
68	Site Improvements	C	2.00	1	1990			10		8	270 X 6	1	3	3				
69	Site Improvements	C	2.00	1	1990			10		8		1	3	3				
70	Site Improvements	C	2.00	1	1990			10		8		1	3	3				

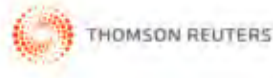
**Other Building Improvement Components**

<b>ID</b>	<b>Code</b>	<b>Units</b>	<b>Pct</b>	<b>Size</b>	<b>Other</b>	<b>Rank</b>	<b>Year</b>
67	Paving, Asphalt w/Base	106,050					
68	Fence, Chain Link	1,620		10			
69	Pole Light, Incandescent 24 ft.	9		10			
70	Storage Bldg, Steel	3,542		10			

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**ENVIRONMENTAL ASSESSMENT - PHASE II  
PROPOSED SUPERMARKET SITE  
LEAVENWORTH, KANSAS**

**PROJECT NO. 50895161**

**DECEMBER 26, 1989**

**Terracon**

# Terracon

ENVIRONMENTAL, INC.

7810 N. W. 100th  
PO Box 901541  
Kansas City, Missouri 64190-1541  
(816) 891-7717

December 26, 1989

Mr. Bill White  
Four B Corporation  
5300 Speaker Road  
Kansas City, Kansas 66106

James A. Cunningham, PE  
John F. Hartwell, PE  
Robert L. Shokir  
Stephen F. Loostbrock  
Robert L. Fine II  
Michael S. Kukuk  
David M. Beem, GH  
Thomas E. Harvey

RE: Environmental Assessment - Phase II  
Proposed Supermarket Site  
Leavenworth, Kansas  
Project No. 50895161

Dear Mr. White:

Enclosed herein is Terracon Environmental's report on the shallow soils and groundwater assessment performed at the proposed Supermarket site located in Leavenworth, Kansas. This limited intrusive assessment was performed as a result of information obtained during a previous Phase I assessment of the site. The primary focus of this work was to assess subsurface conditions to help determine whether potential off-site contaminant sources may have adversely impacted the area of study.

We appreciate the opportunity to be of service to Four B Corporation on this project. If there are any questions concerning this report, or if we may be of further service to you, please do not hesitate to contact us at 816/891-7717.

Sincerely,

TERRACON ENVIRONMENTAL, INC.

*Melinda A. Tumbleson*

Melinda A. Tumbleson  
Project Geologist

*Robert L. Fine II*

Robert L. Fine II  
Project Manager

MAT/RLF:ro  
MT(28)B3

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Colorado: Ft. Collins ■ Iowa: Cedar Falls, Cedar Rapids, Davenport, Des Moines, Storm Lake ■ Illinois: Bloomington, Naperville, Rock Island  
Kansas: Lenexa, (Greater Kansas City), Topeka, Wichita ■ Minnesota: St. Paul ■ Missouri: Kansas City ■ Nebraska: Omaha  
Oklahoma: Oklahoma City, Tulsa

Environmental Engineers and Scientists

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## FIGURES

- Figure 1. Well Location Diagram
- Figure 2. Monitor Well Design

## APPENDICES

- Appendix I Boring Logs
- Appendix II Analytical Data



ENVIRONMENTAL ASSESSMENT - PHASE II  
PROPOSED SUPERMARKET SITE  
LEAVENWORTH, KANSAS  
PROJECT NO. 50895161

Terracon

## 1.0 INTRODUCTION

### 1.1 Background

This report presents the results of an intrusive environmental assessment of the tract of land located at the northeast corner of 4th and Marion Street in Leavenworth, Kansas. The assessment was completed in accordance with our proposal dated November 14, 1989.

### 1.2 Project Objective and Scope of Services

Information obtained during a Phase I environmental assessment of the subject property revealed that potential contaminant sources exist to the north, east and southeast of the site. As such, the intrusive assessment activities were designed to assess for potential shallow soil and groundwater contamination on the site as a result of possible migration from these off-site sources. The scope of work for this assessment included the following activities:

- ° installation of six groundwater monitor wells located along the perimeter of the property;
- ° field characterization of soil samples collected from each of the six monitor well boring locations;
- ° laboratory analysis of shallow soil samples collected from two monitor well boring locations;
- ° laboratory analysis of groundwater collected from the monitor well locations;
- ° collection of three discrete shallow soil samples along the east property line for total petroleum hydrocarbon and lead analysis; and,
- ° a final report detailing the work performed and summarizing the results.

## 2.0 SITE DESCRIPTION

Two houses, a furniture store and two small sheds are located on the site. However, the subject property is primarily undeveloped with a majority of the site being tree and grass covered. An unimproved road, referred to as Third Street, runs through the center of the site allowing access to properties to the north. An abandoned railroad line is evident running along the east side of Third Street. Attached as Figure 1 is a site diagram.

The property slopes very gradually from the west to the east with approximately a six foot drop in elevation across the site. Surface drainage is generally to the east toward Five Mile Creek. Where the site is divided by 3rd Street, drainage is directed south toward Marion Street.

### 2.1 General Area

Adjacent properties to the north of the site include Great Western Manufacturing, GNB Batteries, and the Leavenworth Service Center (former landfill). Property to the east and the southeast is occupied by an auto salvage yard, and automobile repair shops are located south of the property. To the west of the site, across Fourth Street, are light commercial and residential properties. A more detailed discussion of the surrounding area, including a review of historical site ownership, environmental regulatory correspondence and site photographs are contained in the initial Phase I assessment report issued on October 27, 1989.

### 3.0 SOILS EXPLORATION

Based on the information obtained during the Phase I assessment of the property regarding potential off-site contaminant sources, Terracon Environmental conducted a limited scope soils exploration along the east property line and near the northeast corner of the site. This was performed in an effort to identify possible lead and/or petroleum contamination. As was reported in the Phase I assessment dated October 27, 1989, it is Terracon's understanding that underground fuel storage tanks on the Leavenworth Service Center property previously leaked an undetermined amount of gasoline. For this reason, and due to the long history of auto salvage activities east of the property, the soils exploration was conducted in this area.

#### 3.1 Shallow Soils Sampling and Analysis

Three discrete shallow soil samples were collected on November 20, 1989, near what is considered the eastern property line. The samples were collected from a depth of approximately 2 feet below surface at three discrete locations along the east side of the fence bordering the auto salvage yard.

The samples were collected using a hand auger sampler which was cleaned with an Alconox detergent wash and rinse between borings to help prevent cross contamination. Laboratory analysis did not reveal total petroleum hydrocarbon levels in either of the three samples above a detection limit of 50 parts per million (ppm). Total lead was detected at concentrations of approximately 20 ppm in each of the three samples. Typical background levels for lead

in this area are between 15 and 70 ppm<sup>1</sup>; therefore, these concentrations can be considered in the typically observed range.

### 3.2 MW-3 and MW-4 Soils Sampling and Analysis

In an effort to identify shallow petroleum hydrocarbon contamination near the location of the underground fuel storage tanks on the Leavenworth Service Center property, soil samples were collected from the MW-3 and MW-4 boring locations. A discrete soil sample was collected from each boring at the 3 foot below surface depth and submitted to the laboratory for total petroleum hydrocarbon (TPH) analysis.

The results indicate TPH at a concentration of 140 ppm in the 3 foot depth sample from MW-3, and 260 ppm in the 3 foot depth sample from MW-4. These elevated levels in the shallow soils may be the result of previous gasoline spillage associated with fuel loading practices, and in part may be attributed to degradation of organic matter contained in the fill material in this boring. It is important to note that no volatile organic constituents of gasoline (i.e. benzene, toluene, and ethylbenzene) were detected in a previous composite soil sample collected from this area during the Phase I assessment. Also, the results of the groundwater sample collected from MW-3 and MW-4 did not detect the presence of benzene, toluene or xylene. Although the concentrations of TPH detected in the 3 foot soil samples from MW-3 and MW-4 are above what would be considered typical background concentrations, an evaluation of all the data does not suggest that this is indicative of a serious or widespread environmental concern.

<sup>1</sup> Jon J. Connor and Hansford T. Shacklette, Background Geochemistry of Some Rocks, Soils, Plants and Vegetables in the Conterminous United States, (Washington, 1975) p. F84.

#### 4.0 GROUNDWATER EXPLORATION

To assess groundwater quality at the site, Terracon conducted an intrusive exploration along the perimeter of the property. The intrusive assessment consisted of the drilling and installation of six monitor wells along the perimeter of the site to better determine whether potential off-site contaminant sources may have impacted the subject property. Three wells were installed along the north property line, two wells were installed along the east property line and one well was installed near the southwest corner of the property. See Figure 1 for monitor well locations.

#### 4.1 Drilling Activities

Terracon Environmental installed six groundwater monitor wells at the site on November 20 and 21, 1989. Field operations for the drilling phase of the monitor well installation was performed by a three-man drill crew using hollow stem augers and a rotary drill rig. Prior to the exploration, the working end of the rig was detergent washed using a high pressure, hot water sprayer. During drilling, lead augers and downhole sampling equipment were cleaned between borings to reduce the potential for cross contamination.

The strata was field logged based upon visual classification. The soils encountered in the boreholes consisted primarily of clay and silty clay, with fill material noted in borings MW-3, MW-4 and MW-5. The fill material was presumably used to backfill the former Five Mile Creek channel which, prior to 1968, looped to the west of its present course and across the northeast portion of the

property. At the time of drilling, water was observed in all six borings. In MW-1 and MW-5, water was detected at approximately 18 feet below surface. In MW-2, MW-3, MW-4 and MW-6 water was detected at approximately 13 feet below surface. Boring logs are attached as Appendix I.

#### 4.2 Field Characterization

During drilling, soil samples were collected from each boring at approximately the 3 foot and 10 foot depth, where possible, for field screening. Samples were placed in one-quart glass jars approximately one-half full, covered with aluminum foil, and allowed to volatilize at ambient conditions for a minimum of fifteen minutes. A photoionization detector (PID) was then used to analyze air contained in the headspace of the jar for chemical contamination. The PID is an instrument used to provide field characterization for the limited quantitative identification of a broad range of organic vapors based upon a relative instrument standard.

Readings from the PID for samples across the site did not exceed 0.7 ppm, except for the 3 foot sample collected from MW-3 which registered a level of just less than 200 ppm. No sample was recovered at the 10 foot depth while drilling MW-3 due to fill material which plugged the continuous sampling equipment. The elevated headspace reading in this boring is consistent with an organic odor noted during drilling. No other elevated readings were detected with the PID during field characterization of the soils.

It is also important to note that field characterization did not reveal elevated volatiles contamination (benzene, toluene, xylene) in any of the samples collected from this general area during the previous Phase I assessment work.



#### 4.3 Well Installation and Development

The well materials consist of two-inch nominal diameter, Schedule 40 PVC, flush-jointed, threaded pipe. Factory slotted 0.01 inch well screen was installed at the bottom of each borehole and extended to intersect the water table based upon water levels encountered during drilling. A 15 foot section of slotted screen was used for MW-2 and MW-5, and a 20 foot section of slotted screen was used for MW-1, MW-3, MW-4 and MW-6. Solid stem PVC riser pipe was attached to each of the screened sections and extended approximately 2.5 feet above ground surface.

The borehole annulus was packed with a fine sand from the bottom of the borehole to a point approximately one foot above the slotted well screen. An approximate one to two foot thick layer of hydrated bentonite pellets was installed in the borehole annulus above the sand pack. The remaining annulus was filled to ground surface with a cement/bentonite grout mixture. Upon completion, the well heads were secured within protective metal casings which rise approximately 3 feet above ground surface, and locked with keyed-alike padlocks. Figure 2 shows a typical monitor well design. Specific well diagrams for MW-1 through MW-6 are included on the boring logs in Appendix II.

Well development was performed by Terracon Environmental personnel using individual disposable bailers. The wells were considered developed when approximately three standing water volumes were removed from each casing. Development fluids were not collected.

#### 4.4 Sampling Procedures and Analysis

Groundwater samples were collected from the monitor wells on November 24, 1989. The samples were obtained using individual disposable bailers and placed in preserved sample containers. The samples were cooled, packaged, and shipped via Federal Express to Continental Analytical Services in Salina, Kansas. Samples obtained from monitor wells 1 through 5 were analyzed for benzene, toluene and xylene (BTX). Additionally, samples collected from monitor wells MW-1, MW-2, MW-3 and MW-5 were analyzed for total lead.

The BTX and lead analyses were designed to identify potential migration of petroleum products and/or lead from sources to the north and east (i.e. GNB Batteries, City Maintenance Garage, Auto Salvage Yard). Samples collected from monitor wells MW-3, MW-4, MW-5 and MW-6 were subjected to a survey search for extractable compounds (semi-volatile compounds) and volatile organic compounds. This analysis is designed to identify organic compounds present as a result of former landfill activities adjacent to the site and fill material on the property. Finally, samples collected from monitor wells MW-4 and MW-6 were analyzed for the 13 priority pollutant metals. Elevated metals concentrations could be expected due to landfill and salvage yard activities, as well as other nearby industrial sites.

#### 4.5 Analytical Results

Analytical results for MW-1, MW-2, MW-3 and MW-5 revealed no detectable concentrations of benzene, toluene, xylene or total lead. Also, results for MW-3, MW-5 and MW-6 identified no volatile or semi-volatile compounds above a detection limit of approximately 5 parts per billion (ppb).



The concentrations of metals detected in MW-6 were either at the detection limit or below detection limits. However, the analytical results for MW-4 revealed elevated levels of some metals, compared to the results for MW-6, and a concentration of 18 ppb for an unidentified semi-volatile compound found to be present during the survey search analyses. In some instances, the concentrations of metals are above those established as maximums for drinking water standards. The table below lists the metals concentrations in mg/l or part per million (ppm) for MW-4 and MW-6, and includes their respective National Drinking Water Standard.

	<u>MW-4</u>	<u>MW-6</u>	<u>*National Drinking Water Standards</u>
Arsenic	0.06	<0.01	0.05
Cadmium	0.97	<0.01	0.010
Chromium	0.17	<0.04	0.05
Copper	0.52	<0.05	1.0
Lead	3.0	<0.003	0.05
Nickel	0.28	<0.05	---
Zinc	7.45	0.01	5.0

\* Reference: 40 CFR 141 and 143

The metals results from MW-4 suggest that there has been some impact to the groundwater in this vicinity. The probable source or sources are the former landfill to the north of the site and the auto salvage yard to the east. An EPA study conducted in 1984 of the former landfill site involved analytical testing of water from nearby Five Mile Creek. (The creek runs to the east of the former landfill and the salvage yard.) Results of the EPA study found that elevated metals concentrations were present in Five Mile Creek, and that this may be due in part to the former

landfill, the auto salvage yard and/or other industrial properties in the area. EPA concluded in their study of 1984, that the former landfill site 'poses no threat to the surrounding environment.'

The metals concentrations detected during our assessment were found to be less than those reported by EPA during their nearby study. Although the metals concentrations from MW-4 are elevated with respect to what may be considered typical of groundwater in the area (as indicated by the analytical results from MW-6), the groundwater at this location is not utilized as a drinking water source.

#### 5.0 SUMMARY AND CONCLUSIONS

No indication of petroleum-based contamination was detected in the shallow groundwater as a result of sampling for benzene, toluene and xylene. Additionally, the results of screening for a broad range of volatile and extractable compounds via a mass spectral survey search found nothing which would indicate a serious or widespread environmental contamination problem exists in the shallow groundwater at this site.

Analysis of shallow soils from MW-3 and MW-4 indicate that a localized area of relatively low-level petroleum hydrocarbon contamination may exist near the northeast portion of the property. However, the concentrations detected do not suggest that a serious or widespread environmental concern exists.

Based upon a review of the analytical data which has been collected by both EPA and Terracon, it appears that off-site contaminant sources may have impacted the shallow groundwater

near the northeast portion of the subject property. Elevated levels of certain metals detected in MW-4 are above National Drinking Water Standards; however, at this time the groundwater at this location is not utilized as a drinking water source. An EPA study performed in 1984, found elevated levels of aluminum, barium, copper, iron, lead magnesium, manganese, mercury, nickel and vanadium in the Five Mile Creek samples downstream of the former landfill and auto salvage yard properties. The EPA study concluded that based on the analytical results from samples collected from Five Mile Creek, no threat to the surrounding environment is expected. Terracon recommends that the monitor wells be retained at this site to provide sampling points should future groundwater monitoring be desired.

#### 6.0 GENERAL COMMENTS

The analysis and comments presented in this final report are based upon data obtained from the shallow soil and groundwater assessment activities performed as part of the work scope, and other information collected by Terracon as described herein. Please note that this report does not reflect any variations of subsurface stratigraphy or environmental contamination which may exist between borings or across the site. Actual subsurface conditions may vary, and the extent of such variations may not become evident without further investigation. If variations appear evident, it will be necessary to reevaluate the comments contained in this report.

This report is prepared in accordance with generally accepted engineering practices within the constraints of the client's directives. The report is intended for the

exclusive use of the client for specific application to the assessed property. No other warranty is expressed or implied.

December 26, 1989  
Proposed Supermarket Site  
Project No. 50895161

Terracon

**FIGURES**

**MT(28)B3**

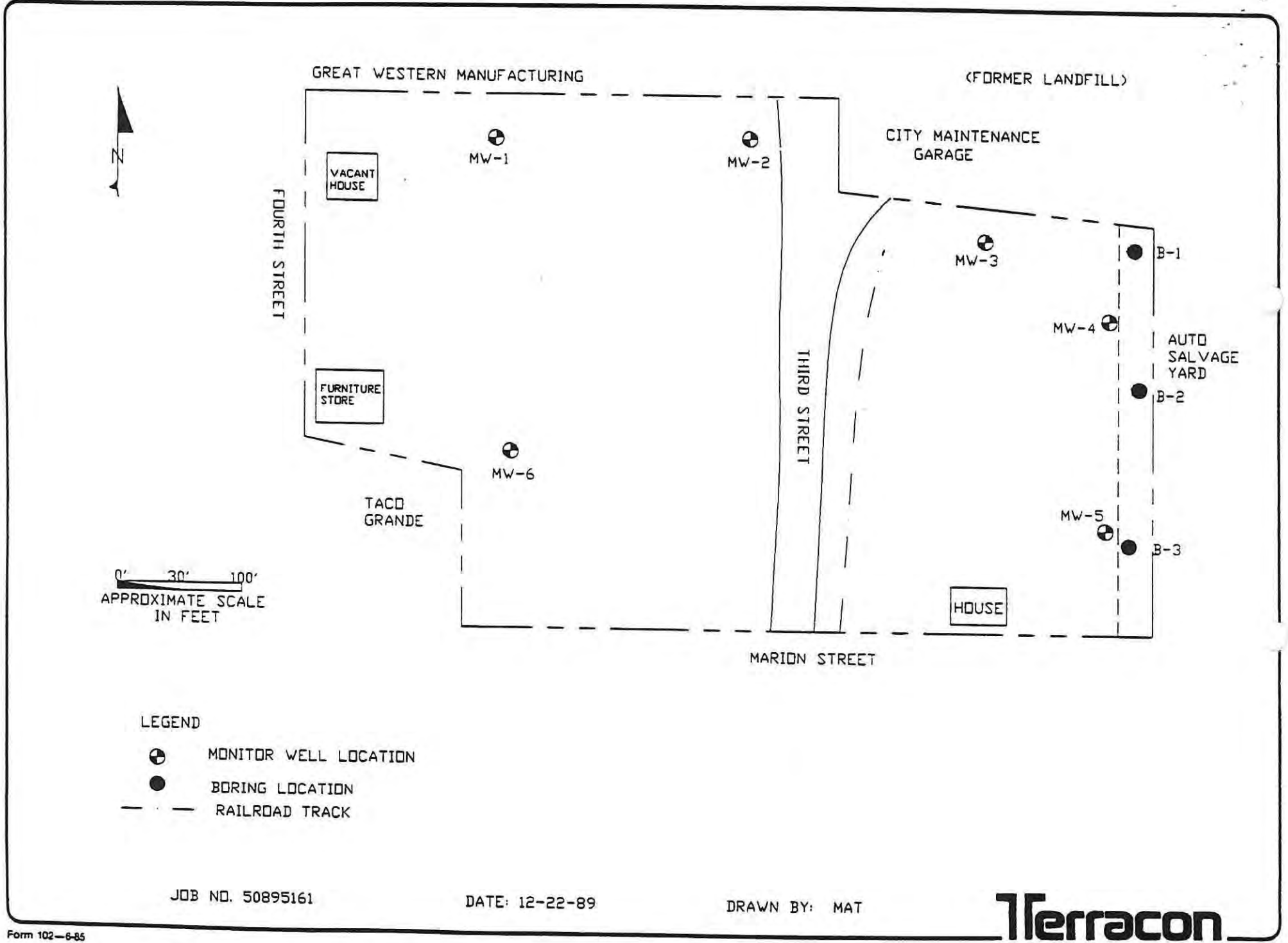
December 26, 1989  
Proposed Supermarket Site  
Project No. 50895161

Terracon

**FIGURE 1**

**Well Location Diagram**

**MT(28)B3**



0' 30' 100'  
 APPROXIMATE SCALE  
 IN FEET

LEGEND

- ⊕ MONITOR WELL LOCATION
- BORING LOCATION
- - - RAILROAD TRACK

JOB NO. 50895161

DATE: 12-22-89

DRAWN BY: MAT

**Terracon**

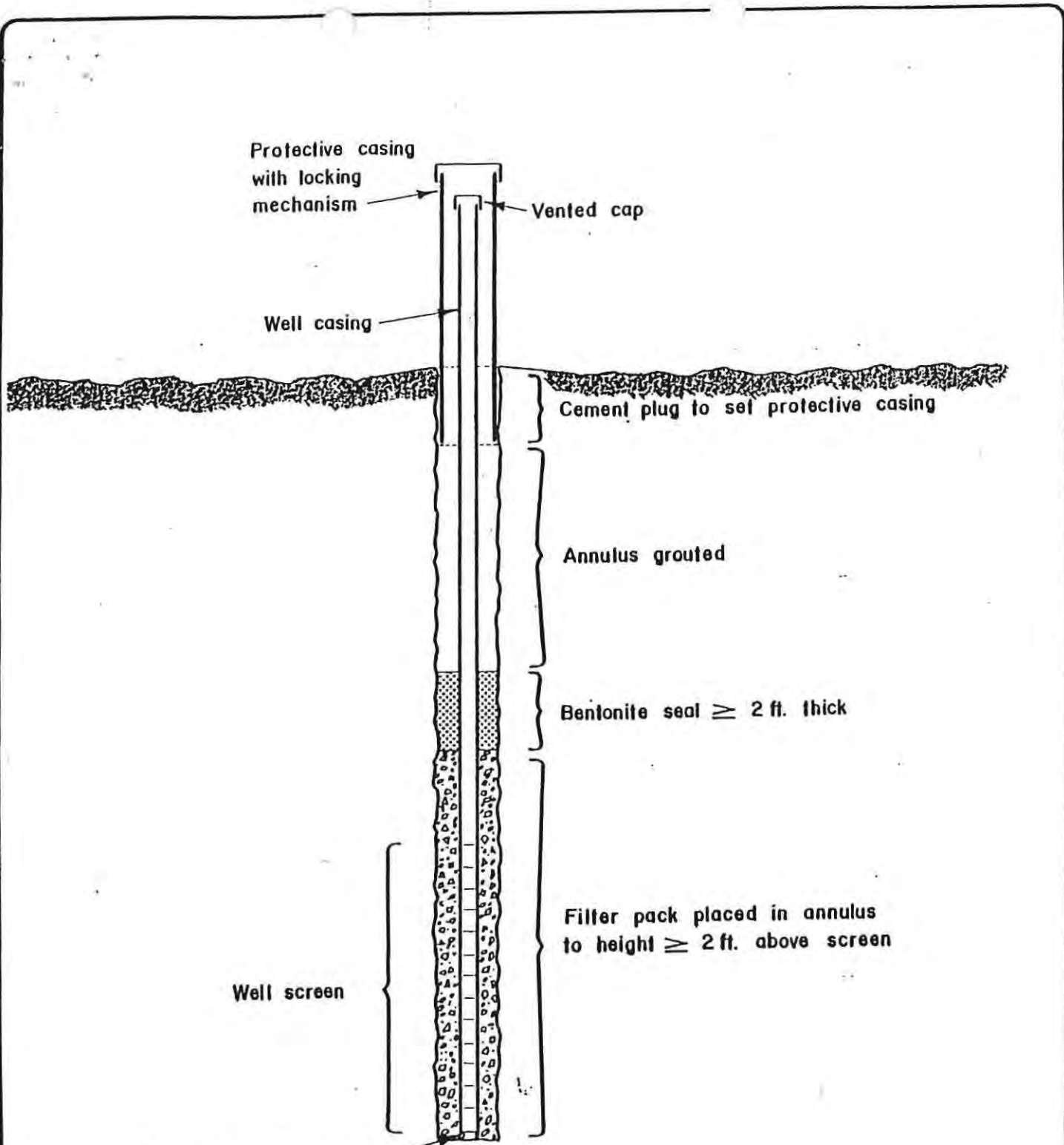
December 26, 1989  
Proposed Supermarket Site  
Project No. 50895161

Terracon

**FIGURE 2**

**Monitor Well Design**





Protective casing  
with locking  
mechanism

Vented cap

Well casing

Cement plug to set protective casing

Annulus grouted

Bentonite seal  $\geq$  2 ft. thick

Filter pack placed in annulus  
to height  $\geq$  2 ft. above screen

Well screen

Cap on bottom of well screen

NOT TO SCALE

**Terracon**

December 26, 1989  
Proposed Supermarket Site  
Project No. 50895161

Terracon

APPENDIX I

Boring Logs

# LOG OF BORING NO. MW-1

OWNER		ARCHITECT/ENGINEER							
SITE <b>4th and Marlon Leavenworth, Kansas</b>		PROJECT <b>Supermarket</b>							
GRAPHIC LOG	DESCRIPTION	WELL DETAIL	DEPTH (FT.)	SAMPLES			TESTS		
	TOP OF PROTECTOR PIPE: 784.9 ft TOP OF CASING: ft GROUND SURFACE ELEV.: 782.0 ft			USCS SYMBOL	NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %
0.2	Topsoil	781.8	5	1	CS	3.0			Boring advanced with 4 1/4" HSA
5.4	VERY SILTY CLAY, weak thread, low plasticity, black, no odor, dry, to moist, medium to stiff, blocky very stiff at 4.8'	776.6	10	2	CS	5.0			
	SILTY CLAY, medium thread, medium plasticity, brown to yellow brown, no odor, damp, soft, blocky becoming moist, high plasticity, mottled red, black	▽	15	3	CS	5.0			
	becoming wet at 18', soft, high plasticity, no odor becoming gray, wet, medium to stiff saturated at 22'	▽	20	4	CS	5.0			
24.2		757.8		5	CS	5.0			
BOTTOM OF BORING									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

BOREHOLE DIA.: 4.2 in  
WELL DIA.: 2 in      Lock Provided

WATER LEVEL OBSERVATIONS			
WL	▽ 18.5	WS	▽ 11.74 AB
WL			
WL			

## Terracon

BORING STARTED	11-21-89
BORING COMPLETED	11-21-89
RIG	FOREMAN MAT
APPROVED	JOB # 50895161



# LOG OF BORING NO. MW-2

OWNER		ARCHITECT/ENGINEER								
SITE <b>4th and Marlon Leavenworth, Kansas</b>		PROJECT <b>Supermarket</b>								
GRAPHIC LOG	DESCRIPTION	WELL DETAIL	DEPTH (FT.)	SAMPLES			TESTS			
				USCS SYMBOL	NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %	FIELD VAPOR TESTS
	TOP OF PROTECTOR PIPE: 781.87 ft TOP OF CASING: _____ ft GROUND SURFACE ELEV.: 778.9 ft									
	0.2 Topsoil 778.7				1	CS	1.0			Boring advanced with 4 1/4" HSA
	5.5 VERY SILTY CLAY, weak thread, low plasticity, black, no odor, dry, soft, blocky 773.4		5		2	CS	5.0			
	SILTY CLAY, medium thread, low plasticity, brown, no odor, damp, stiff to very stiff, blocky becoming yellow-brown at 10' with $\nabla$ black and red staining, medium to high plasticity wet to saturated at 13.5' becoming gray $\nabla$		10		3	CS	4.3			
	19.3 759.6		15		4	CS	5.0			
	BOTTOM OF BORING									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.


BOREHOLE DIA.: 4.2 in  
WELL DIA.: 2 in      Lock Provided

WATER LEVEL OBSERVATIONS			
WL $\nabla$ 13.5	WS $\nabla$ 11.36	AD	
WL			
WL			

Terracon

BORING STARTED		11-21-89
BORING COMPLETED		11-21-89
RIG	FOREMAN	MAT
APPROVED	JOB # 50895161	

# LOG OF BORING NO. MW-3

OWNER		ARCHITECT/ENGINEER								
SITE <b>4th and Marlon Leavenworth, Kansas</b>		PROJECT <b>Supermarket</b>								
GRAPHIC LOG	DESCRIPTION	WELL DETAIL	DEPTH (FT.)	SAMPLES			TESTS			
				USCS SYMBOL	NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %	FIELD VAPOR TESTS
	TOP OF PROTECTOR PIPE: 779.1 ft TOP OF CASING: _____ ft GROUND SURFACE ELEV.: 776.0 ft									
	<b>FILL</b> , silty clay, red-brown to brown, no odor, dry, firm, trace bricks, gravel, roots, glass				1	CS	1.2			Boring advanced with 4 1/4" HSA
	olive-brown to red brown		5		2	CS	1.4			
			10		3	CS	0.0			
	black, wet, organic odor		15		4	CS	3.0			
	17.0 759.0									
	<b>SILTY CLAY</b> , medium thread, green-brown, organic odor, wet, soft, trace sand		20		5	CS	3.1			
	24.3 751.7									
	becoming firm to stiff, black with yellow staining, no odor									
	<b>BOTTOM OF BORING</b>									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

BOREHOLE DIA.: 4.2 in  
WELL DIA.: 2 in      Lock Provided


WATER LEVEL OBSERVATIONS			
WL	▽ 13.0	WS	▽ 13.78 AB
WL			
WL			



BORING STARTED	11-21-89
BORING COMPLETED	11-21-89
RIG	FOREMAN MAT
APPROVED	JOB # 50895161



# LOG OF BORING NO. MW-4

OWNER		ARCHITECT/ENGINEER								
SITE <b>4th and Marlon Leavenworth, Kansas</b>		PROJECT <b>Supermarket</b>								
GRAPHIC LOG	DESCRIPTION	WELL DETAIL	DEPTH (FT.)	SAMPLES		TESTS				
				USCS SYMBOL	NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %	FIELD VAPOR TESTS
	TOP OF PROTECTOR PIPE: 778.6 ft TOP OF CASING: _____ ft GROUND SURFACE ELEV.: 775.6 ft									
█	FILL, silty clay, stiff, yellow-brown, no odor, dry, trace stone, brick		5		1	CS	1.2			Boring advanced with 4 1/4" HSA
	becoming moist at 8.5'				2	CS	0.5			
	▽ saturated at 12', black, no odor, weak thread, soft		10		3	CS	1.5			
	▽ trace sand, plastic, metal wire, brick, stone		15		4	CS	2.0			
			20		5	CS	1.3			
█	23.0 752.6 24.0 751.6									
	SILTY CLAY, trace sand, medium thread, olive green, wet to saturated									
	BOTTOM OF BORING									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

BOREHOLE DIA.: 4.2 in  
WELL DIA.: 2 in      Lock Provided

WATER LEVEL OBSERVATIONS			
WL	▽ 12.0	WS	▽ 13.5      AB
WL			
WL			



BORING STARTED	11-20-89
BORING COMPLETED	11-20-89
RIG	FOREMAN      MAT
APPROVED	JOB # 50895161

# LOG OF BORING NO. MW

OWNER		ARCHITECT/ENGINEER					
SITE <b>4th and Marlon Leavenworth, Kansas</b>		PROJECT <b>Supermarket</b>					
GRAPHIC LOG	DESCRIPTION	WELL DETAIL	DEPTH (FT.)	SAMPLES			TESTS
	TOP OF PROTECTOR PIPE: 779.44 ft TOP OF CASING: ft GROUND SURFACE ELEV.: 776.7 ft	USCS SYMBOL	NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %  FIELD VAPOR TESTS
12.0	764.7	5	1	CS	1.8		Boring advanced with 4 1/4" HSA
		10	2	CS	0.0		
		15	3	CS	2.5		
		20	4	CS	4.5		
		25	5	CS	4.5		
			6	CS	5.0		
29.5	747.2						
BOTTOM OF BORING							

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

BOREHOLE DIA.: 4.2 in  
WELL DIA.: 2 in      Lock Provided

WATER LEVEL OBSERVATIONS			
WL	▽ 17.0	WS	▽ 17.64 AB
WL			
WL			

## Terracon

BORING STARTED	11-20-89
BORING COMPLETED	11-20-89
RIG	FOREMAN    MAT
APPROVED	JOB # 50895161



# LOG OF BORING NO. MW-3

OWNER		ARCHITECT/ENGINEER							
SITE <b>4th and Marlon Leavenworth, Kansas</b>		PROJECT <b>Supermarket</b>							
GRAPHIC LOG	DESCRIPTION	WELL DETAIL	DEPTH (FT.)	SAMPLES			TESTS		
				USCS SYMBOL	NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %
	TOP OF PROTECTOR PIPE: 783.9 ft TOP OF CASING: _____ ft GROUND SURFACE ELEV.: 781.0 ft								
	0.3 Topsoil 780.7			1	CS	1.0			Boring advanced with 4 1/4" HSA
	VERY SILTY CLAY, stiff, brown, blocky structure, no odor, low plasticity		5	2	CS	5.0			
	becoming to olive to gray-brown		10	3	CS	5.0			
	12.0 769.0		15	4	CS	0.0			
	SILTY CLAY, gray-brown with yellow and black staining, moist to damp		20	5	CS	5.0			
	saturated at 20.5', olive-green								
	becomes stiff to very stiff at 23.5' moist to wet, blocky								
	24.6 756.4								
	BOTTOM OF BORING								

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

BOREHOLE DIA: 4.2 in  
WELL DIA: 2 in      Lock Provided

WATER LEVEL OBSERVATIONS		
WL	▽ 12.5	WS ▽ 11.9      AB
WL		
WL		



BORING STARTED	11-21-89
BORING COMPLETED	11-21-89
RIG	FOREMAN      MAT
APPROVED	JOB # 50895161



December 26, 1989  
Proposed Supermarket Site  
Project No. 50895161

Terracon

**APPENDIX II**

**Analytical Data**

**MT(28)B3**

CONTINENTAL ANALYTICAL SERVICES, INC.

1804 GLENDALE - SALINA, KANSAS 67401 - (913)827-1273

LABORATORY REPORT

PAGE: 1

CLIENT; TERRACON CONSULTANTS INC.  
 ATTN;MELINDA TUMBLESON  
 P.O. BOX 901541  
 KANSAS CITY, MO 64190-1541

DATE SAMPLE RPTD: 12/13/89  
 DATE SAMPLE RECD: 11/25/89  
 CAS FILE NO: 89-5018  
 CAS ORDER NO: 2660  
 CLIENT P.O.: 50895161

LAB NUMBER: 89110861  
 SAMPLED DESCRIPTION: MW-1

DATE SAMPLED: 11/24/89  
 TIME SAMPLED: 1500

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
BENZENE, TOLUENE, XYLENE			/
XYLENE	ND(1.0)	UG/L	150/18
TOLUENE	ND(1.0)	UG/L	150/18
BENZENE	ND(1.0)	UG/L	150/18
LEAD, TOTAL	ND(0.003)	MG/L	109/97

CONCLUSION OF LAB NUMBER: 89110861

LAB NUMBER: 89110862  
 SAMPLE DESCRIPTION: MW-2

DATE SAMPLED: 11/24/89  
 TIME SAMPLED: 1500

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
BENZENE, TOLUENE, XYLENE			/
XYLENE	ND(1.0)	UG/L	150/19
TOLUENE	ND(1.0)	UG/L	150/19
BENZENE	ND(1.0)	UG/L	150/19
LEAD, TOTAL	ND(0.003)	MG/L	109/97

CONCLUSION OF LAB NUMBER: 89110862

LAB NUMBER: 89110863  
 SAMPLE DESCRIPTION: MW-3

DATE SAMPLED: 11/24/89  
 TIME SAMPLED: 1500

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
BENZENE, TOLUENE, XYLENE			/
XYLENE	ND(1.0)	UG/L	150/21

-CONTINUED-

CONTINENTAL ANALYTICAL SERVICES, INC.

LABORATORY REPORT

PAGE: 2

CLIENT: TERRACON CONSULTANTS INC.  
LAB NUMBER: 89110863

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
TOLUENE	ND(1.0)	UG/L	150/21
BENZENE	ND(1.0)	UG/L	150/21
VOLATILE SURVEY SEARCH	*SEE NOTE		145/11
EXTRACTABLE SURVEY SEARCH	**SEE NOTE		119/54
LEAD, TOTAL	ND(0.0030)	MG/L	109/97

\*NO VOLATILE COMPOUNDS DETECTED GREATER THAN APPROXIMATELY 5 UG/L.

\*\*NO SEMIVOLATILE COMPOUNDS DETECTED GREATER THAN APPROXIMATELY 5 UG/L.

CONCLUSION OF LAB NUMBER: 89110863

LAB NUMBER: 89110864  
SAMPLE DESCRIPTION: MW-4

DATE SAMPLED: 11/24/89  
TIME SAMPLED: 1500

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
BENZENE, TOLUENE, XYLENE			/
XYLENE	ND(1.0)	UG/L	150/23
TOLUENE	ND(1.0)	UG/L	150/23
BENZENE	ND(1.0)	UG/L	150/23
VOLATILE SURVEY SEARCH	*SEE NOTE		145/11
EXTRACTABLE SURVEY SEARCH	**SEE NOTE		119/54
ANTIMONY, TOTAL	ND(0.05)	MG/L	85 /46
ARSENIC, TOTAL	0.06	MG/L	120/72
BERYLLIUM, TOTAL	ND(0.01)	MG/L	106/20
CADMIUM, TOTAL	0.07	MG/L	142/38
CHROMIUM, TOTAL	0.17	MG/L	138/51
COPPER, TOTAL	0.52	MG/L	83 /61
LEAD, TOTAL	3.0	MG/L	109/98
MERCURY, TOTAL	ND(0.0002)	MG/L	125/50
NICKEL, TOTAL	0.28	MG/L	79 /70
SELENIUM, TOTAL	ND(0.005)	MG/L	139/38
SILVER, TOTAL	ND(0.02)	MG/L	134/47
THALLIUM, TOTAL	ND(0.01)	MG/L	84 /37
ZINC, TOTAL	7.45	MG/L	82 /67

-CONTINUED-

CONTINENTAL ANALYTICAL SERVICES, INC.

LABORATORY REPORT

PAGE: 3

CLIENT: TERRACON CONSULTANTS INC.  
LAB NUMBER: 89110864

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
----------	---------------	-------	-----------

\*NO VOLATILE COMPOUNDS DETECTED GREATER THAN APPROXIMATELY 5 UG/L.

\*\*THE SAMPLE CONTAINED ONE SEMI-VOLATILE COMPOUND WHICH THE NBS MASS SPECTRAL LIBRARY COULD NOT IDENTIFY AT AN APPROXIMATE CONCENTRATION OF 18 UG/L. SEE ATTACHED MASS SPECTRA AND LIBRARY SEARCH RESULTS FOR THIS COMPOUND.

CONCLUSION OF LAB NUMBER: 89110864

LAB NUMBER: 89110865  
SAMPLE DESCRIPTION: MW-5

DATE SAMPLED: 11/24/89  
TIME SAMPLED: 1500

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
BENZENE, TOLUENE, XYLENE			/
XYLENE	ND(1.0)	UG/L	150/25
TOLUENE	ND(1.0)	UG/L	150/25
BENZENE	ND(1.0)	UG/L	150/25
VOLATILE SURVEY SEARCH	*SEE NOTE		145/11
EXTRACTABLE SURVEY SEARCH	**SEE NOTE		119/54
LEAD, TOTAL	ND(0.003)	MG/L	109/97

\*NO VOLATILE COMPOUNDS DETECTED GREATER THAN APPROXIMATELY 5 UG/L.

\*\*NO SEMIVOLATILE COMPOUNDS DETECTED GREATER THAN APPROXIMATELY 5 UG/L.

CONCLUSION OF LAB NUMBER: 89110865

LAB NUMBER: 89110866  
SAMPLE DESCRIPTION: MW-6

DATE SAMPLED: 11/24/89  
TIME SAMPLED: 1500

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
VOLATILE SURVEY SEARCH	*SEE NOTE		145/11
EXTRACTABLE SURVEY SEARCH	**SEE NOTE		119/54
ANTIMONY, TOTAL	ND(0.05)	MG/L	85 /46

-CONTINUED-

CONTINENTAL ANALYTICAL SERVICES, INC.

LABORATORY REPORT

PAGE: 4

CLIENT: TERRACON CONSULTANTS INC.  
 LAB NUMBER: 89110866

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
ARSENIC, TOTAL	ND(0.01)	MG/L	120/71
BERYLLIUM, TOTAL	ND(0.01)	MG/L	106/20
CADMIUM, TOTAL	ND(0.01)	MG/L	142/38
CHROMIUM, TOTAL	ND(0.04)	MG/L	138/51
COPPER, TOTAL	ND(0.05)	MG/L	83 /61
LEAD, TOTAL	ND(0.003)	MG/L	109/97
MERCURY, TOTAL	ND(0.0002)	MG/L	125/50
NICKEL, TOTAL	ND(0.05)	MG/L	79 /70
SELENIUM, TOTAL	ND(0.005)	MG/L	139/38
SILVER, TOTAL	ND(0.02)	MG/L	134/37
THALLIUM, TOTAL	ND(0.01)	MG/L	84 /37
ZINC, TOTAL	0.02	MG/L	82 /67

\*NO VOLATILE COMPOUNDS DETECTED GREATER THAN APPROXIMATELY 5 UG/L.

\*\*NO SEMIVOLATILE COMPOUNDS DETECTED GREATER THAN APPROXIMATELY 5 UG/L.

CONCLUSION OF LAB NUMBER: 89110866

ND(), WHERE NOTED, INDICATES NONE DETECTED WITH THE DETECTION LIMIT IN PARENTHESES. % REC INDICATES % RECOVERED AT THE INDICATED CONCENTRATION.

QUALITY CONTROL ANALYSES WERE PERFORMED ON SAMPLES AT TIME OF ANALYSIS IN ACCORDANCE WITH PROCEDURES PUBLISHED IN THE CODE OF FEDERAL REGULATIONS PART 136, JULY 1, 1986 OR IN EPA PUBLICATION, SW-846, 3RD EDITION, NOV. 1986.

SAMPLES WILL BE RETAINED FOR 30 DAYS UNLESS OTHERWISE NOTIFIED.

CONTINENTAL ANALYTICAL SERVICES, INC.



CLIFFORD J. BAKER  
 LABORATORY DIRECTOR

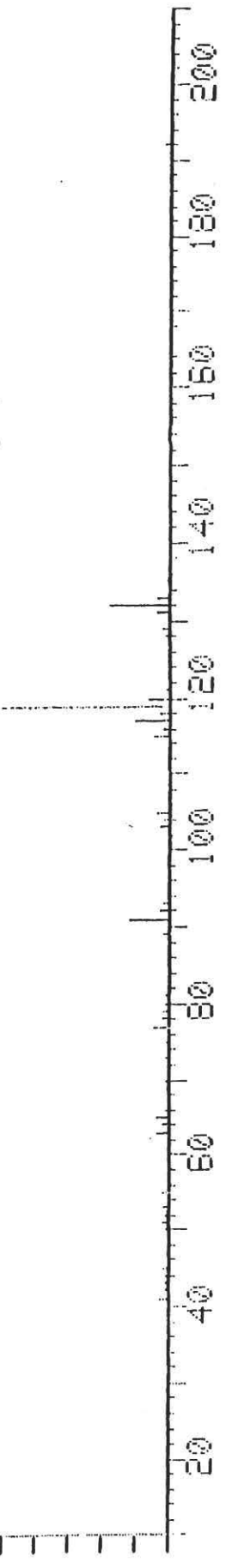


NIH/EPP Forward Library Search  
Injection Date: 11-DEC-89 Time: 15:48:55  
Filename: AEN11A03  
Comments:

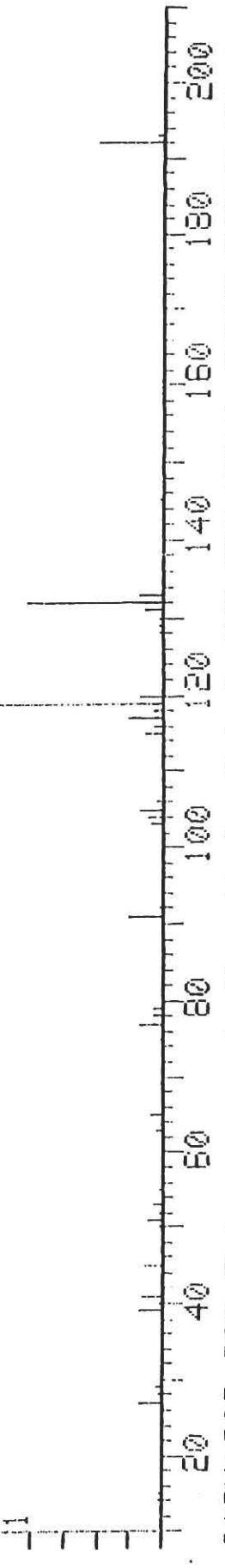
IIC = 147781  
100% = 47851

RUN # 03 USING METHOD SY:AEN.MTH

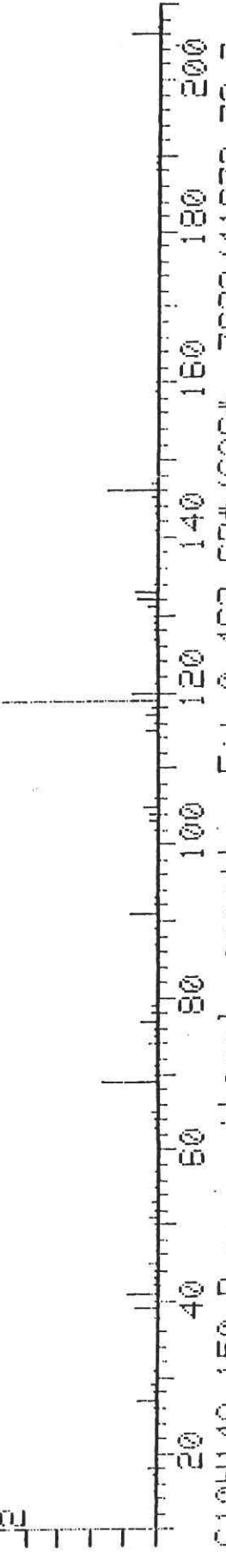
SCANS: 837-837 BKG \* 1.00 829 831 832



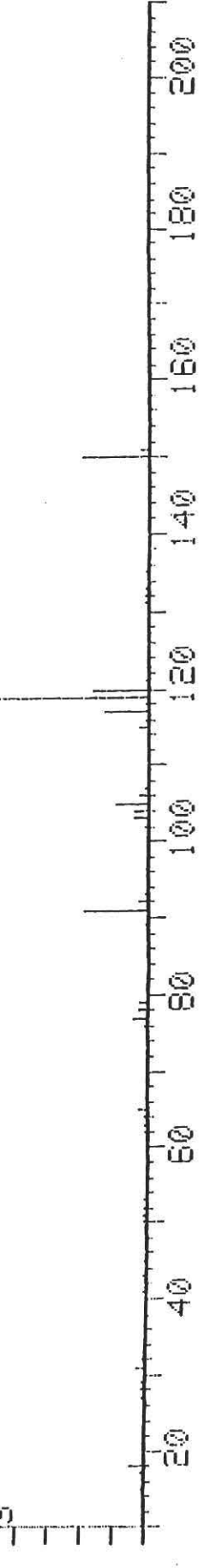
1



2



3





File name: ABN11A03

Comments: RUN # 03 USING METHOD SY:ABN.NTH

Scan Number: 837

Background Scans \* 1.00 829 831 832

Retention time: 19.08 min.

Date: 11-DEC-89 Time: 15:48:55

## Forward Search

Rank 1 Spectrum 15418

C.A.S 1453-06-1

Fit 0.536

C12H16O2 192 Benzenebutanoic acid, 2,5-dimethyl-

Rank 2 Spectrum 17923

C.A.S 30275-76-4

Fit 0.467

C13H18O2 206 Butyric acid, 3-methyl-4-(2,5-xyllyl)-

Rank 3 Spectrum 7633

C.A.S 41673-72-7

Fit 0.462

C10H14O 150 Benzeneethanol, ar-ethyl-

Rank 4 Spectrum 4861

C.A.S 488-23-3

Fit 0.450

C10H14 134 Benzene, 1,2,3,4-tetramethyl-

Rank 5 Spectrum 19561

C.A.S 54815-16-6

Fit 0.438

C16H24 216 Benzene, 1-(3-cyclopropylpropyl)-2,4-dimethyl-

Rank 6 Spectrum 17297

C.A.S 644-30-4

Fit 0.434

C15H22 202 Benzene, 1-(1,5-dimethyl-4-hexenyl)-4-methyl-

Rank 7 Spectrum 4873

C.A.S 1758-88-9

Fit 0.425

C10H14 134 Benzene, 2-ethyl-1,4-dimethyl-

Rank 8 Spectrum 4864

C.A.S 535-77-3

Fit 0.419

C10H14 134 Benzene, 1-methyl-3-(1-methylethyl)-

Rank 9 Spectrum 12984

C.A.S 1010-48-6

Fit 0.417

C11H14O2 178 Benzenepropanoic acid, .beta.,.beta.-dimethyl-

Rank 10 Spectrum 8647

C.A.S 102-46-5

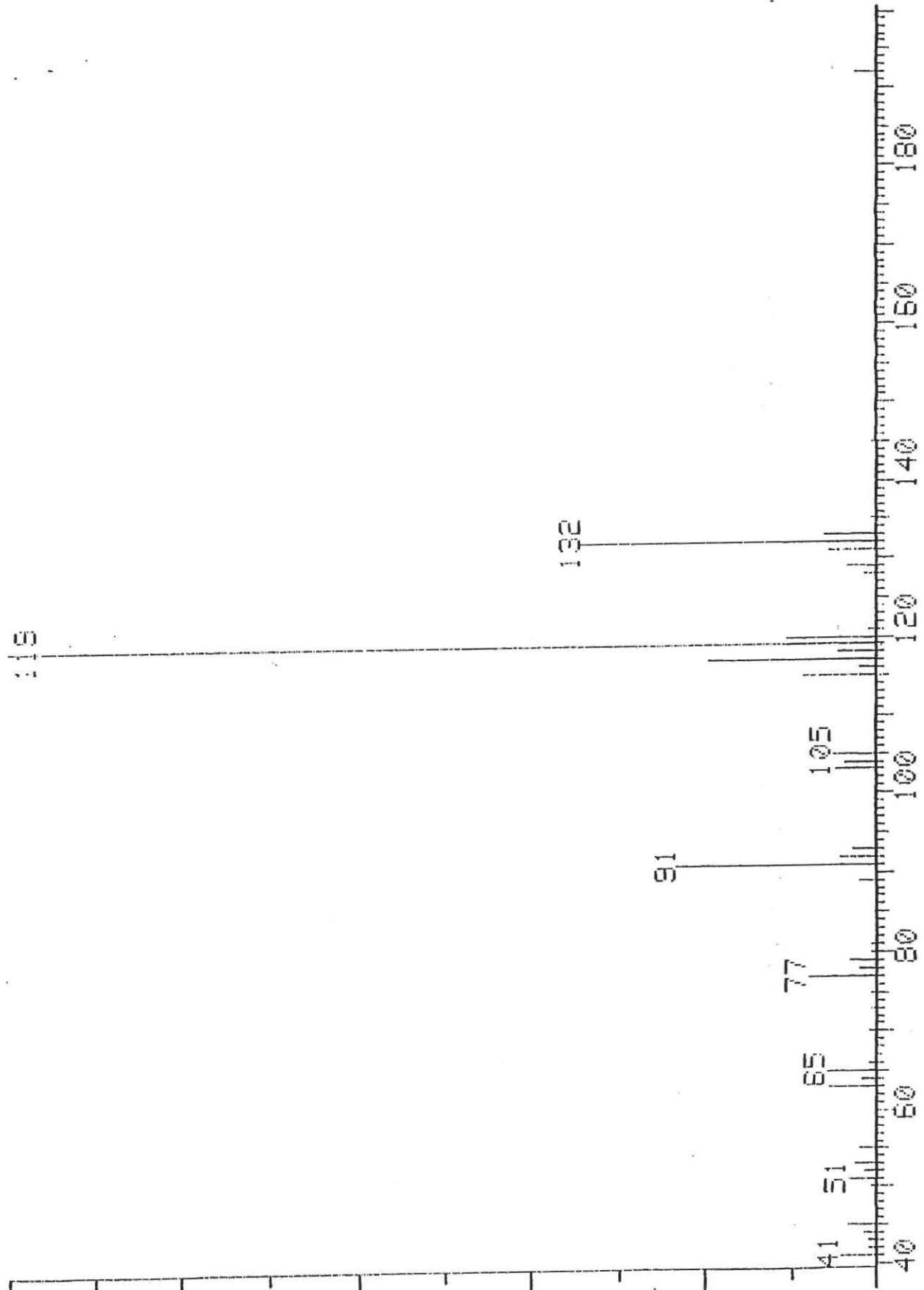
Fit 0.413

C9H11Cl 154 Benzene, 4-(chloromethyl)-1,2-dimethyl-



Total Scale  
147985 1\*

ABN11A0 RUN # 03 USING METHOD SY: ABN. MTH. 89/10864  
11-DEC-89 15:48:55 Scan 837 Time 19.08 Min.  
Bke scans \* 1.00 829 831 832 100% = 47851



CONTINENTAL ANALYTICAL SERVICES, INC.

1804 GLENDALE - SALINA, KANSAS 67401 - (913)827-1273

LABORATORY REPORT

PAGE: 1

CLIENT: TERRACON CONSULTANTS INC.  
ATTN: MELINDA TUMBLESON  
P.O. BOX 901541  
KANSAS CITY, MO 64190-1541

DATE SAMPLE RPTD: 12/11/89  
DATE SAMPLE RECD: 11/22/89  
CAS FILE NO: 89-5018  
CAS ORDER NO: 2639  
CLIENT P.O.: 50895161

LAB NUMBER: 89110748  
SAMPLE DESCRIPTION: B-1

DATE SAMPLED: 11/20/89  
TIME SAMPLED: 1030

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
TOTAL PET. HYDROCARBONS, SOIL	ND(50 )	MG/KG	48 /86
LEAD, TOTAL	19	MG/KG	109/96

CONCLUSION OF LAB NUMBER: 89110748

LAB NUMBER: 89110749  
SAMPLE DESCRIPTION: B-2

DATE SAMPLED: 11/20/89  
TIME SAMPLED: 1020

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
TOTAL PET. HYDROCARBONS, SOIL	ND(50 )	MG/KG	48 /86
LEAD, TOTAL	17	MG/KG	109/96

CONCLUSION OF LAB NUMBER: 89110749

LAB NUMBER: 89110750  
SAMPLE DESCRIPTION: B-3

DATE SAMPLED: 11/20/89  
TIME SAMPLED: 1035

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
TOTAL PET. HYDROCARBONS, SOIL	ND(50 )	MG/KG	48 /86
LEAD, TOTAL	18	MG/KG	109/96

CONCLUSION OF LAB NUMBER: 89110750

CONTINENTAL ANALYTICAL SERVICES, INC.

LABORATORY REPORT

PAGE: 2

CLIENT: TERRACON CONSULTANTS INC.

LAB NUMBER: 89110751  
SAMPLE DESCRIPTION: MW-3

DATE SAMPLED: 11/20/89  
TIME SAMPLED: 1145

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
TOTAL PET. HYDROCARBONS, SOIL	140	MG/KG	48 /86

CONCLUSION OF LAB NUMBER: 89110751

LAB NUMBER: 89110752  
SAMPLE DESCRIPTION: MW-4

DATE SAMPLED: 11/20/89  
TIME SAMPLED: 1410

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
TOTAL PET. HYDROCARBONS, SOIL	260	MG/KG	48 /86

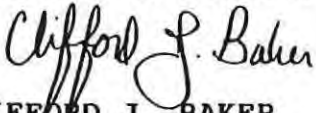
CONCLUSION OF LAB NUMBER: 89110752

ND(), WHERE NOTED, INDICATES NONE DETECTED WITH THE DETECTION LIMIT IN PARENTHESES. % REC INDICATES % RECOVERED AT THE INDICATED CONCENTRATION.

QUALITY CONTROL ANALYSES WERE PERFORMED ON SAMPLES AT TIME OF ANALYSIS IN ACCORDANCE WITH PROCEDURES PUBLISHED IN THE CODE OF FEDERAL REGULATIONS PART 136, JULY 1, 1986 OR IN EPA PUBLICATION, SW-846, 3RD EDITION, NOV. 1986.

SAMPLES WILL BE RETAINED FOR 30 DAYS UNLESS OTHERWISE NOTIFIED.

CONTINENTAL ANALYTICAL SERVICES, INC.



CLIFFORD J. BAKER  
LABORATORY DIRECTOR

PROJECT NO.		PROJECT NAME			SAMPLE PARAMETER							OTHER		NUMBER OF CONTAINERS	REMARKS
50895161		Supermarket Site (Leaw. Ks)			Total Lead	TPH									
SAMPLERS: (Signature)				STATION NUMBER										DATE	TIME
<i>Melinda Jumbleson</i>															
B-1	11/20	10:30	-	✓	✓									Soil	
B-2	11/20	10:20		✓	✓									Soil	
B-3	11/20	10:35		✓	✓									Soil	
MW-3	11/20	11:45	3'		✓									Soil	
MW-4	11/20	14:10	3'		✓									Soil	
TOTAL NUMBER OF CONTAINERS															
RELINQUISHED BY: (Signature)		DATE	TIME	RECEIVED BY: (Signature)		RELINQUISHED BY: (Signature)		DATE	TIME	RECEIVED BY: (Signature)					
<i>M Jumbleson</i>		11-21-89	8:30												
RELINQUISHED BY: (Signature)		DATE	TIME	RECEIVED BY: (Signature)		RELINQUISHED BY: (Signature)		DATE	TIME	RECEIVED BY: (Signature)					
METHOD OF SHIPMENT				SHIPPED BY: (Signature)		COURIER: (Signature)		RECEIVED FOR LAB BY: (Signature)			DATE/TIME				
								<i>Jo Peterson</i>			11/22/89				



**Vinyard Construction Co.**  
7270 W. 98th Terrace, Suite 210  
Overland Park, KS 66212  
(913)642-1000 • FAX (913)642-1080

May 1, 1990

City of Leavenworth  
Attention: Mike McDonald  
City Hall - 5th and Shawnee  
Leavenworth, Kansas 66048

RE: Leavenworth Price Chopper  
4th & Marion

Mike,

The following is information you requested from  
the Price Chopper site.

If you have any questions, please don't hesitate  
to give me a call.

Sincerely,

A handwritten signature in cursive script that reads "Jerry Ogren".

Jerry Ogren  
Project Manager  
Vinyard Construction Co., Inc.

5/7/90

cc: Suzanne Stephens, CDFM

*Using information to bring people and space together.*

**SUBSURFACE EXPLORATION REPORT**

**PROPOSED SUPERMARKET**

**FOURTH & MARION STREETS**

**LEAVENWORTH, KANSAS**



# Terracon

CONSULTANTS SE, INC.  
14700 W. 107th Street  
Lenexa, Kansas 66215  
(913) 492-7777

October 26, 1989

Four-B Corporation  
5300 Speaker Road  
Kansas City, KS 66106

ATTN: Mr. Bill White

7810 N W 100th  
PO Box 9015-11  
Kansas City, Missouri 64190-1541  
(816) 891 7717

RE: Subsurface Exploration Report  
Proposed Supermarket  
Fourth & Marlon Streets  
Leavenworth, Kansas  
Job No. 02897029

Gentlemen:

We have completed the subsurface exploration for the referenced project. The accompanying geotechnical report presents the findings of the subsurface exploration and our recommendations concerning the design and construction of foundations and pavements.

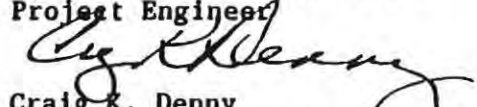
In summary, drilled pier foundations are recommended for support of the proposed supermarket; miscellaneous poorly compacted fill and soft, compressible native soils were encountered during the subsurface exploration. Recommendations for support of a future building to be constructed near the northwest corner of the site on footing foundations is also included. Results of the concurrent environmental study are being submitted under separate cover.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this report, or if we may be of further service to you in any way, please do not hesitate to contact us.

Sincerely,

TERRACON CONSULTANTS SE, INC.

  
Brett E. Bradfield, E.I.T.  
Project Engineer

  
Craig K. Denny  
Registered Professional Engineer  
Kansas: 10043

BEB/CKD:rs:2650R

Enclosures

2xc: Above

2cc: Franklin, Frieze, Boice - Architects, Inc. - Mr. Bill Boice

Offices of Terracon Companies:

Colorado: Ft. Collins ■ Iowa: Cedar Falls, Cedar Rapids, Davenport, Des Moines, Storm Lake ■ Illinois: Bloomington, Rock Island  
Kansas: Lenexa, (Greater Kansas City), Topeka, Wichita ■ Minnesota: St. Paul ■ Missouri: Kansas City ■ Nebraska: Omaha  
Oklahoma: Oklahoma City, Tulsa

Geotechnical, Environmental and Materials Engineers

SUBSURFACE EXPLORATION REPORT  
PROPOSED SUPERMARKET  
FOURTH & MARION STREETS  
LEAVENWORTH, KANSAS

Job No. 02897029

October 26, 1989

INTRODUCTION

The subsurface exploration for the proposed supermarket in Leavenworth, Kansas, has been completed. Twenty-one borings extending to depths of 8 to 42.8 feet below existing ground surface were performed. Individual boring logs and a location diagram are included with this report.

The proposed project will consist of a single-story structure with a relatively high roof. A basement for the structure is not planned, but tunnels 4 to 5 feet below floor level will be needed for refrigeration piping and other utilities. The proposed building will enclose approximately 48,000 square feet. Column loads are estimated to range from 50 to 160 kips; wall loads are anticipated to be 4 to 5 kips per lineal foot. Floor loads are anticipated to be relatively light except where heavy freezer units are located.

Parking for 290 vehicles is planned on the west portion of the project site. Entrances to the proposed supermarket from Fourth Street on the west and Marion Street on the south are planned. Loading dock facilities are planned along the east side of the proposed building.

Based upon our interpretations of the existing site grades, we estimate that the construction of the building pad may require approximately 3 feet of fill to provide drainage away from the structure. Minor cuts and fills are expected over the remainder of the proposed project site. Recommendations for site preparation and fill placement are provided in this report.

The purpose of this report is to describe the subsurface conditions encountered in the borings, present all test data, and make recommendations regarding foundation design and construction.



SUBSURFACE EXPLORATION PROCEDURES

The borings were performed between September 29 and October 4, 1989, with a truck-mounted rotary drill rig equipped with a hydraulic head employed in drilling and sampling operations. The boreholes were typically advanced using continuous flight augers; however, hollow stem augers were used at Boring B-11 to maintain stability of the borehole through the fill and soft subsurface soils encountered. Representative samples were obtained by thin-walled tube sampling procedures in accordance with ASTM Specification D-1587. In the tube sampling procedure, a thin-walled seamless steel tube with a sharp cutting edge is pushed hydraulically into the ground to obtain relatively undisturbed samples of cohesive or moderately cohesive soils. Tubes with a nominal 2 inch O.D. were typically used to obtain samples of the subsurface soils; 3 inch O.D. steel tubes were used to obtain samples of soft cohesive soils. In addition, split-barrel sampling procedures, ASTM Specification D-1586, were used at Boring B-11 within the existing fill material. In the split-barrel sampling procedure, a standard 2 inch O.D. split-barrel sampling spoon is driven into the ground with repeated blows of a 140 pound hammer falling a distance of 30 inches. The number of blows required to advance the sampling spoon the last 12 inches of a normal 18 inch penetration is designated as the standard penetration resistance value. These values are indicated on the boring log at the depth of occurrence and are an indication of the relative consistency of the existing fill materials. All samples were sealed and returned to the laboratory for testing and classification.

Field logs of each boring were prepared by the drill crew. These logs contained visual classification of the materials encountered during drilling as well as the driller's interpretation of the subsurface conditions between samples. Final boring logs included with this report represent the engineer's interpretation of the field logs and may include modification based on laboratory observation and tests of the samples.

Borings B-1A, B-3, B-10A, B-11, and B-12 were drilled to an apparent limestone bedrock formation. The borings were extended into the apparent limestone until refusal of our flight augers equipped with carbide teeth occurred. Penetrations of 0 to 0.9 feet into the apparent limestone

formation were recorded. Core samples obtained with an NX size diamond bit core barrel may reveal other rock types and formations.

#### TESTING PROCEDURES

All samples recovered in the field were tested in the laboratory to measure their natural water contents and dry unit weights. Samples obtained by the split-barrel sampling procedure had only their natural water contents measured. Unconfined compressive strength tests were performed on selected native cohesive soil samples. A calibrated hand penetrometer was used to estimate the approximate unconfined compressive strength of other cohesive soil samples and existing fill soils. The calibrated hand penetrometer has been correlated with unconfined compression tests and provides a better estimate of soil consistency than visual examination alone. The results of the laboratory tests are given on the individual boring logs.

Atterberg Limits tests were performed on representative samples obtained from depths near the existing ground surface in the proposed building area, parking area, and future building site area. The Atterberg Limits tests provide accurate information on the plasticity of the soil and an indication of the potential for the soil to change volume with variation in water content. The tests also aid in the evaluation of the suitability of the native soils for use as compacted fill beneath floor slabs and pavements. The results of these tests are indicated on the boring logs and discussed later in this report.

Descriptive classifications of the soils indicated on the boring logs are in accordance with the enclosed General Notes and the Unified Soil Classification System. Also shown are estimated Unified Soil Classification Symbols. A brief description of this classification system is included in the appendix of this report. All classification was by visual-manual procedures and was performed by experienced personnel.

Classification of rock materials is in accordance with the enclosed General Notes and has been estimated from disturbed samples. Core samples and petrographic analysis may reveal other rock types.

SITE CONDITIONS

The borings were drilled between September 29 and October 4, 1989, at the locations indicated on the enclosed location diagram. The borings were laid out by the drill crew. Distances from the referenced features to the boring locations indicated on the attached diagram are approximate and were measured by tape. Angles for locating the borings were estimated. Elevations of the borings are approximate and were obtained by the drill crew using a surveyor's level and rod. The elevations were referenced to the south nut of the top flange of the fire hydrant located approximately 60 feet north of the northwest corner of the proposed supermarket. An arbitrary elevation of 100.0 feet was assigned to this location. The rim of a manhole adjacent to the fire hydrant was measured to be at an elevation of 98.9 feet. The locations and elevations of the borings should be considered accurate only to the degree implied by the methods used to make these measurements.

The project site in general was covered with grass. The ground surface of the project site slopes downward toward the east from Fourth Street. Two houses with basements existed on the site at the time the subsurface exploration was completed. One of the homes is within the proposed supermarket building area; the other home exists in the northwest portion of the site where future development is planned. An existing street crosses the project site in a north-south direction. A salvage yard is adjacent to the eastern boundary of the project site. It is believed that a shallow creek or swale had traversed the project site and has subsequently been back-filled to develop the area surrounding the project site.

SUBSURFACE CONDITIONS

Borings B-1 through B-12, including Borings B-1A and B-10A, were performed within the proposed supermarket building area. After reviewing the results of the borings as field work progressed, several borings were deepened, and Borings B-4 and B-9 were deleted from the subsurface exploration. Borings B-1A, B-3, B-10A, B-11, and B-12 performed at the boundaries of the proposed building were extended to the underlying bedrock formation. Borings B-13, B-13A, and B-14 were performed near the north wall of the proposed

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building to obtain samples for environmental evaluation. Borings B-15 through B-20 were performed in the proposed parking areas; however, Borings B-19 and B-20 were extended to greater depths in the area of the future building site.

Specific conditions at each boring location are indicated on the individual boring logs. The stratification boundaries shown on the boring logs represent the approximate location of changes in soil and rock types; in situ, the transition between materials may be gradual. Based on the results of the borings, subsurface conditions can be generalized as follows.

#### Supermarket Building Area

The borings performed within the limits of the proposed supermarket encountered approximately 2 to 5 inches of topsoil at the ground surface. Fill was encountered at boring locations B-1, B-6, and B-10 through B-12. The fill generally consisted of silty lean clay and lean clay soils with variable amounts of miscellaneous rubble such as gravel, brick, concrete, wood, metal, and cinders. The depth of the fill soils encountered varied from approximately 3.5 to 7 feet at boring locations B-1 and B-1A; 2 feet at Boring B-6; and between 7.5 to 16.5 feet along the north edge of the proposed building at boring locations B-10 through B-12.

To a depth of approximately 3 feet at Borings B-5 and B-7 and 7 feet at Boring B-2, dark brown, brown, and gray brown lean clay trace roots were encountered. The lean clay, in general, was very stiff and exhibits moderate potential for volume change with variation in moisture content as estimated from Atterberg Limits tests. Beneath the lean clay at these borings and below existing fill at Borings B-1, B-6, and B-10 through B-12, and from the ground surface at Borings B-3 and B-8, silty lean clay was encountered. The silty lean clay, in general, graded from brown to gray brown, to gray with depth. The silty lean clay exhibited very stiff to medium consistency in the upper 15 feet of the borings in which it was encountered; however, soft soils were encountered below 18 feet at Borings B-10 and B-11.

At Boring B-6, the silty lean clay extended to a depth of 18 feet where brown and gray, stiff to very stiff, fat clay was encountered. Boring B-6 terminated in the fat clay at a depth of 25 foot below existing ground surface. Borings B-1, B-2, B-5, B-7, B-8, and B-10 terminated at depths ranging from 15 to 20 feet below existing ground surface within the silty lean clay soils. The silty lean clay soils are believed to be derived primarily from loess. However, some of the softer soils encountered at depths below 20 feet may be alluvium.

Due to the soft soil conditions encountered at the site, borings near the proposed building corners, Borings B-1A, B-3, B-10A, B-11, and B-12, were extended to underlying bedrock formations. Apparent limestone bedrock was encountered at depths ranging from approximately 37.1 to 42.5 feet below existing ground surface at Borings B-12 and B-1A, respectively. Using our flight augers equipped with carbide teeth, we were able to penetrate the limestone distances ranging from 0 to 0.9 feet at Borings B-3 and B-11, respectively, before auger refusal occurred. Traces of limestone gravel within the overlying silty lean clay soils were encountered at depths varying from 36 to 41 feet below existing ground surface. The elevation of the apparent limestone bedrock formation, based upon our arbitrary site datum, varies from 55.8 to 58.7 feet.

#### Borings B-13, B-13A and B-14

Borings B-13, B-13A, and B-14 were performed within the project site north of the proposed supermarket building to obtain samples for analytical testing. Ten (10) to 15 feet of existing fill similar to that described in the previous subsection were encountered. Boring B-13 terminated at a depth of 15 feet within the existing fill. At a depth of 10 feet at Borings B-13A and B-14, olive gray silty lean clay was encountered. Borings B-13A and B-14 terminated at depths of approximately 20 feet within the silty lean clay.

#### Proposed Parking Area

Borings B-15, B-16, B-17, and B-18 were performed to a depth of 8 feet below existing ground surface in the proposed parking areas. Approximately



2 inches of topsoil covered the area; however, 6 inches of gravel was encountered at Boring B-18. Fill was encountered to depths of 2 to 3 feet below existing ground surface at Borings B-15 and B-16. The fill consisted of lean clay with traces of sand, gravel, cinders, brick, wood, and concrete.

Below the existing fill at Borings B-15 and B-16 and extending to depths of 3 to 7 feet below the ground surface, dark brown lean clay was encountered. At the ground surface at Borings B-17 and B-18 and beneath the lean clay at Borings B-15 and B-16 fat clay soils were present. The native cohesive soils in the parking area were, in general, dark gray brown to gray brown and exhibited stiff to very stiff consistency. The near surface native soils in the proposed parking area exhibit, in our opinion, moderate to high potential for volume change as estimated from Atterberg Limits tests.

#### Future Building Site

Borings B-19 and B-20 were performed in the vicinity of the proposed future building site at the northwest corner of the supermarket project site. Approximately 2 feet of fill consisting of silty lean clay with traces of brick and cinders were encountered at the ground surface. The existing fill was underlain by stiff to very stiff, dark gray brown lean clay which extended to a depth of approximately 6 feet below existing ground surface. At this depth, medium to stiff silty lean clay was encountered. The silty lean clay, in general, was brown and gray brown. At a depth of 13 feet at Boring B-19, soft soils were encountered; at a depth of 13 feet in Boring B-20, stiff consistency fat clay was encountered. Borings B-19 and B-20 terminated at a depth of 15 feet below existing ground surface. The near surface lean clay soils exhibit a high potential for volume change with variation in moisture content as estimated by Atterberg Limits tests; the clay content of near surface soils was observed to increase with depth.

#### GROUNDWATER CONDITIONS

All borings were monitored while drilling and after their completion to detect the presence of groundwater. Groundwater was encountered at these times at all boring locations except for the relatively shallow

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Borings B-2, B-5, B-8, and B-15 through B-18. It is concluded that these shallow borings terminated above the level of the groundwater encountered in the other borings.

Groundwater was encountered while sampling at depths below existing ground surface ranging from 11.5 to 22 feet. After completion of drilling operations, groundwater was measured at depths of 11 feet to 25 feet below the ground surface. The groundwater level, in general, was encountered at shallower depths along the northern portion of the site and at greater depths near the southeastern portion of the project site. Long-term readings in cased holes or piezometers would be necessary to more accurately evaluate groundwater conditions.

Moist soil conditions and mottled soil coloring were observed at several boring locations above the measured water level. The mottled colors indicate to us that fluctuations in the groundwater table have probably occurred. Perched water may also occur within the existing fill areas following periods of heavy or prolonged precipitation. Fluctuations in the nearby Missouri River and Five Mile Creek water level may influence the depth at which groundwater is encountered. These possibilities should be considered when developing design and construction plans and specifications for the project. The presence of groundwater may hamper construction of drilled shaft foundations for the proposed structure.

#### ANALYSIS AND RECOMMENDATIONS

Variable soil conditions were encountered across the building site. A significant thickness of miscellaneous rubble fill was encountered in the area of the north portion of the proposed building. In addition, soft, potentially highly compressible soil conditions were encountered with depth in several of the borings.

Based upon this information developed during the subsurface exploration and our observations of nearby buildings on adjacent properties that have experienced foundation movements, we recommend the proposed supermarket building be supported on drilled pier foundations which extend to the underlying bedrock formations. In addition, recommendations are provided

for removal of a portion of the existing fill beneath floor slabs and pavements. On site, near surface soils should be modified with lime or fly ash for use in the upper level of fill sections beneath floor slabs and pavements due to their high plasticities.

#### Site Clearing and Preparation

The existing fill located in the vicinity of the north portion of the proposed building (B-10, 10A, 11, 12, 13, 13A, and 14), in our opinion, is not suitable for support of floor slabs or pavements. We recommend that the existing fill which contains a significant amount of debris be removed to a minimum depth of 5 feet below the bottom of floor slabs and a minimum of 3 feet below the bottom of pavement sections. The excavated existing fill containing debris should be completely removed from the site to prevent incorporation of the miscellaneous fill material with new compacted fill. Traces of debris were noted in borings performed on the west side of the site as well (B-15, B-16, and B-20). These areas should be evaluated during site preparation also.

For developing rough grade on the site, we recommend imported low volume change fill or native high plasticity site soils modified with lime or fly ash be used within a minimum of 18 inches below floor slabs and 12 inches beneath pavement sections. Additional recommendations regarding the construction of low volume change subgrade zones are discussed in following sections.

In cut areas and areas where fill is to be placed, we recommend all surface vegetation and any topsoil or other loose, soft, or otherwise unsuitable material be removed. These materials should be stockpiled or removed from the site to prevent incorporation with new fill soils. After stripping, and removal of the existing fill and high plasticity site soils to the recommended levels, proofrolling with heavy construction equipment such as a loaded scraper or tandem-axle dump truck is recommended to aid in locating low strength areas. Unsuitable areas observed or encountered at this time should be undercut. Proofrolling aids in providing a firm base for compaction of the fill section and delineating soft or disturbed areas that may exist below subgrade level.



After proofrolling is completed, we recommend that the exposed native soils in the building area be scarified to a minimum depth of 6 inches. The moisture content of the scarified soils should be adjusted to within 0 to 4 percent above the optimum moisture value and compacted to a minimum of 95 percent of the material's maximum standard Proctor dry density, ASTM designation D-698. In addition, exposed native soils in fill sections within the parking lot areas should be scarified and recompacted as recommended above.

We understand that the two houses which exist on the supermarket site will be razed as part of the new construction. The existing homes have limestone rock foundations. We recommend that the demolition debris be completely removed from the site to prevent incorporation of miscellaneous materials within new compacted fill sections. Foundation walls should be removed to a minimum of 2 feet below the bottom of pavement sections and floor slabs. Large limestone pieces removed from the foundation walls should be completely removed from the site. We recommend that the basement floors be sufficiently broken up to allow the migration of groundwater. The broken up floor slab should be tamped in place so no voids exist between the broken floor and underlying soils. New fill placed within the existing house basement areas should be placed and compacted as recommended in the following sections.

#### Drilled Pier Foundations

We recommend drilled pier foundations be used to support the proposed supermarket. Due to the nature of the existing fill over a portion of the building site and the presence of soft native soils at depth in some other borings, we believe that shallow foundation elements would not perform uniformly. Drilled pier foundations that extend to the underlying bedrock should not experience differential settlement which, in our opinion, would be experienced by shallow footing foundations. We recommend drilled piers be designed for end bearing on the underlying bedrock formations; an allowable end bearing pressure of 30,000 psf is recommended. Apparent limestone formations were encountered at depths ranging from 37.1 to 42.5 below existing ground surface. A minimum penetration of 6 inches into the

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apparent limestone formation is recommended to obtain suitable bearing on slightly weathered bedrock.

Excavation for drilled piers is not expected to be unusually difficult. Conventional earth auger excavating and drilling equipment should be able to penetrate the soil although a rock auger would probably be needed to achieve the recommended penetration into rock for bearing. Water was encountered at depths of 11 to 20 feet below existing ground surface in the borings. Temporary steel casing may be needed to advance drilled pier excavations and to possibly seal the water from entering the excavation. The bottom of the pier excavations should be cleaned of water and loose material before placing concrete. A minimum shaft diameter of 30 inches is recommended to allow hand cleaning and testing of the bearing surface. We recommend approximately 25 percent of the drilled shafts be tested by drilling a probehole extending a minimum of 3 feet or 1 shaft diameter beneath the bearing surface, whichever is greater. Terracon personnel should be retained to observe the bearing elevation and probeholes.

Relatively high groundwater levels and soft soils were encountered in the test borings. Therefore, we recommend that a minimum concrete head of 5 feet above the groundwater level be maintained during removal of temporary casing. There exists the possibility that the soft soils may squeeze the excavated shaft; therefore, the volume of concrete placed in the excavated piers should be monitored during the removal of the casings.

Drilled piers excavated in areas of the existing miscellaneous fill may be susceptible to caving of the fill materials into the shaft excavation. Care should be taken so that concrete is not placed over caved material. A larger diameter section of casing may be necessary within the upper 15 to 20 feet of the piers to brace the existing fill materials during placement of concrete and the removal of other temporary casings.

We estimate that drilled shafts designed and constructed as recommended above should experience minor settlements, less than 1/4 inch.

### Floor Slabs

We estimate that the existing building site grades will be raised approximately 2 to 3 feet to provide drainage away from the building. As mentioned previously in the site clearing and preparation subsection, we recommend that in addition to stripping topsoil from the building area, the existing unsuitable fill material located in the north end of the building and possibly at other locations be removed to a minimum of 5 feet beneath floor slabs. The areal extent of existing miscellaneous fill material within the building area may not become apparent until construction. The exposed materials within the building area should be proofrolled as previously recommended prior to placing new fill.

We recommend an 18 inch thick zone of low volume change material be placed beneath floor slabs. The low volume change zone would include the thickness of any granular leveling course and may consist of imported low plasticity fill or native site soils modified with lime or fly ash to reduce their plasticity. On site native high plasticity cohesive soils may be used in fill sections beneath the low volume change zones of the floor slabs.

New fill soils should be placed in loose lifts not to exceed 9 inches in thickness and compacted to a minimum of 95 percent of the material's standard Proctor density, ASTM Specification D-698. Fill should be compacted at moisture contents 0 to 4 percent above the optimum moisture value determined by the standard Proctor test.

Imported soils used within the 18 inch low volume change zone beneath floor slabs should be low plasticity cohesive soil or granular soil having at least 18 percent low plasticity fines. Low plasticity cohesive soils exhibit a liquid limit less than 45 percent and a plasticity index less than 21 percent.

As an alternative to importing low plasticity material, native site soils removed from cut sections in the parking area may be used if treated with lime or Class "C" fly ash within low volume change zones beneath floor slabs. Modification of the existing moderately to highly plastic native

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soils encountered near the ground surface in the proposed parking area should lower their plasticity to suitable levels. The estimated required quantities are 4 to 6 percent hydrated or quick lime, or approximately 15 percent Class "C" fly ash; quantities are based on dry weights. Modified native site soils should be placed and compacted as previously recommended.

Upon completion of the filling operation, care should be taken to maintain the minimum recommended moisture contents within the floor slab subgrade prior to construction of the floor slab. The procedures recommended above may not eliminate all future subgrade volume change beneath the floor slab. However, the procedures outlined should, in our opinion, reduce the potential for subgrade volume change to a small amount.

For the proposed lightly loaded slabs, and a subgrade prepared and tested as described above, we estimate the amount of floor slab settlement would be small, less than 1/2 inch.

### Tunnels

Tunnels needed for refrigeration piping and other utilities are to be placed below the floor level. We estimate the tunnels will extend approximately 4 to 5 feet below the floor slabs. We recommend that below grade walls subjected to lateral earth pressures be designed for lateral earth pressures equivalent to that exerted by a fluid with a density of 50 pounds per cubic foot. In addition, the surcharge from the overlying floor will contribute to the lateral loads on the walls. We recommend an additional uniform lateral load along the entire height of the wall equivalent to 45 percent of the floor slab load be applied for the design of tunnel walls.

The earth pressure conditions are presented on a diagram in the appendix of this report. Please note that this is for an "at-rest" stress distribution based on a condition of no wall rotation. No factor of safety or hydrostatic loading of the wall is included in this distribution.

Drives and Parking Pavements

Borings performed in the parking area encountered between 0 to 3 feet of fill overlying silty lean clay or fat clay native soils. As previously recommended, the parking area should be stripped of topsoil, unsuitable miscellaneous debris fill materials, and high plasticity native soils to the recommended levels, and proofrolled. Unsuitable areas encountered or observed during proofrolling should be removed. In areas where deep unsuitable fill was encountered, such as the area north of the proposed building, a minimum of 3 feet of the existing fill materials should be removed beneath the bottoms of pavement sections prior to placing new compacted fill and pavement subgrades.

Imported low volume change soils or native site soils modified with lime or fly ash should be used within 12 inches of the pavement are recommended to create a stable pavement subgrade. The recommendations for lime or fly ash quantities and placement procedures presented in the Floor Slab subsection are valid for pavement subgrades.

Exposed native soils beneath the low volume change subgrade should be scarified to a minimum depth of 6 inches, adjusted to the recommended moisture levels and recompact. All new fill should be placed and compacted as previously recommended. New fill sections should extend laterally a minimum of 12 inches beyond edges of pavements or curb and gutter.

Some preliminary pavement sections are outlined below. These sections are intended to be preliminary and should be reviewed when more details such as final grades, traffic loadings, and traffic volumes are known.

Based on soil types encountered at the project site and previous experience with soils of this type, a CBR value of 3 is estimated for design of parking and drive pavement sections. For this value, with light vehicle loads and low volumes, a full-depth asphaltic concrete section having a minimum total thickness of 5.5 inches is typical for parking areas, and 7 inches is typical for drive areas where loads are heavier and traffic is more channelized. A minimum surface course thickness of 2 inches is

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usually recommended. In addition, in areas for standing semi-trailer storage or dock areas, we recommend concrete pavements, a minimum of 7 inches thick should be used.

The above sections represent minimum design thicknesses, and as such, periodic maintenance should be anticipated. Pavements should be sloped to provide rapid surface drainage. Water allowed to pond on or adjacent to the pavement could saturate the subgrade and contribute to premature pavement deterioration.

#### Other Considerations

Future development in the northwest portion of the project site is being considered. All recommendations provided for site clearing and preparation, and floor slabs should be considered valid for the future development. However, we estimate that support of buildings with light wall and column loads on shallow footing foundations would be feasible in this portion of the site.

We recommend footing foundations be extended into the underlying native soils which were encountered approximately 2 feet below existing ground surface elevation in Boring B-19 and B-20. In this area, we preliminarily recommend that footings supported on the native lean clay soils be designed for a maximum net allowable total load soil bearing pressure of 2,500 psf. This is the pressure that may be transmitted to the bearing soils in excess of the minimum surrounding overburden pressure. We should review details of the proposed structure when the design is being finalized to determine if this foundation design bearing pressure is appropriate.

We recommend that perimeter footings or footings beneath unheated areas extend at least 3 feet below final outside grade for frost protection. We also recommend that isolated shallow footings have a minimum width of 2.5 feet, and continuous formed footings have a minimum width of 16 inches.

The base of foundation excavations should be free of water and loose soil prior to placing reinforcing steel and foundation concrete. Concrete should be placed soon after excavating so wetting or drying of bearing



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Terracon

soils does not occur. Should the soils at bearing level become excessively dry or saturated, we recommend the affected soil be removed prior to placing concrete. Should a high groundwater table occur during construction, some water seepage into foundation excavations would be expected. The seepage rate of such water is expected to be minor, and, therefore, it should be possible to remove it by the use of sump pits and pumps.

Uncontrolled fill materials containing rubble and other miscellaneous matter were revealed in the test borings. Under no circumstances should footing foundations be supported over these existing fill soils without more extensive exploration and evaluation. Due to the uncontrolled nature of the fill, excessive differential settlements could occur upon transmitting structural loads to these materials.

We estimate that settlements of footing foundations supported on native soils designed and constructed as recommended, would be small, less than 1 inch.

#### GENERAL COMMENTS

The analysis and recommendations presented in this report are based upon the data obtained from the soil borings performed at the indicated locations and from any other information discussed in this report. This report does not reflect any variations which may occur between borings or across the site. The nature and extent of such variations may not become evident until construction. If variations appear evident it will be necessary to reevaluate the recommendations of this report.

It is recommended that the geotechnical engineer be retained to review the plans and specifications so that comments can be made regarding the interpretation and implementation of our geotechnical recommendations in the design and specifications. It is further recommended that the geotechnical engineer be retained for testing and observation during earthwork and foundation construction phases to help determine that the design requirements are fulfilled.

Job No. 02897029

October 26, 1989

Terracon

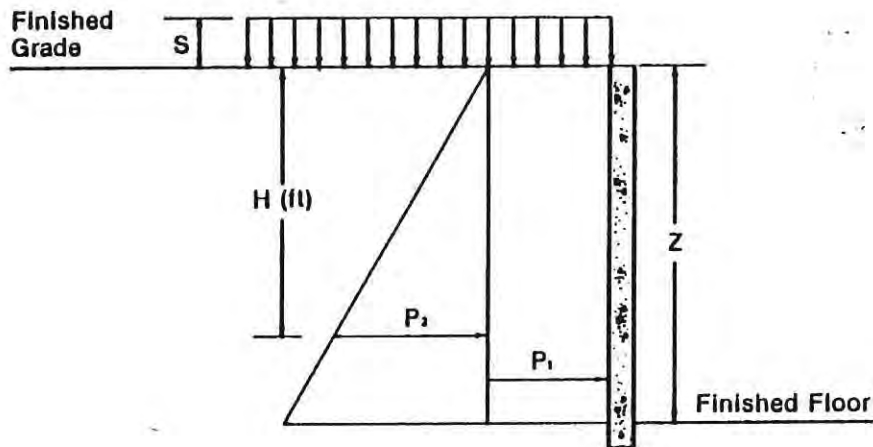
This report has been prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted geotechnical engineering practices. No other warranty, expressed or implied, is made. In the event that any changes in the nature, design or location of the project as outlined in this report are planned, the conclusions and recommendations contained in this report shall not be considered valid unless the changes are reviewed and the conclusions of this report modified or verified in writing by the geotechnical engineer.



# APPENDIX

# AT-REST EARTH PRESSURE ON 1-FOOT WIDE VERTICAL STRIP (NO WALL ROTATION)

- $S$  = Uniform surcharge at grade, load in psf  
 $Z$  = Wall Height (ft)  
 $P_1 = 0.45 S$  = Effect of uniform surface surcharge  
 $P_2 = 50 H$  = Earth pressure



## CONDITIONS

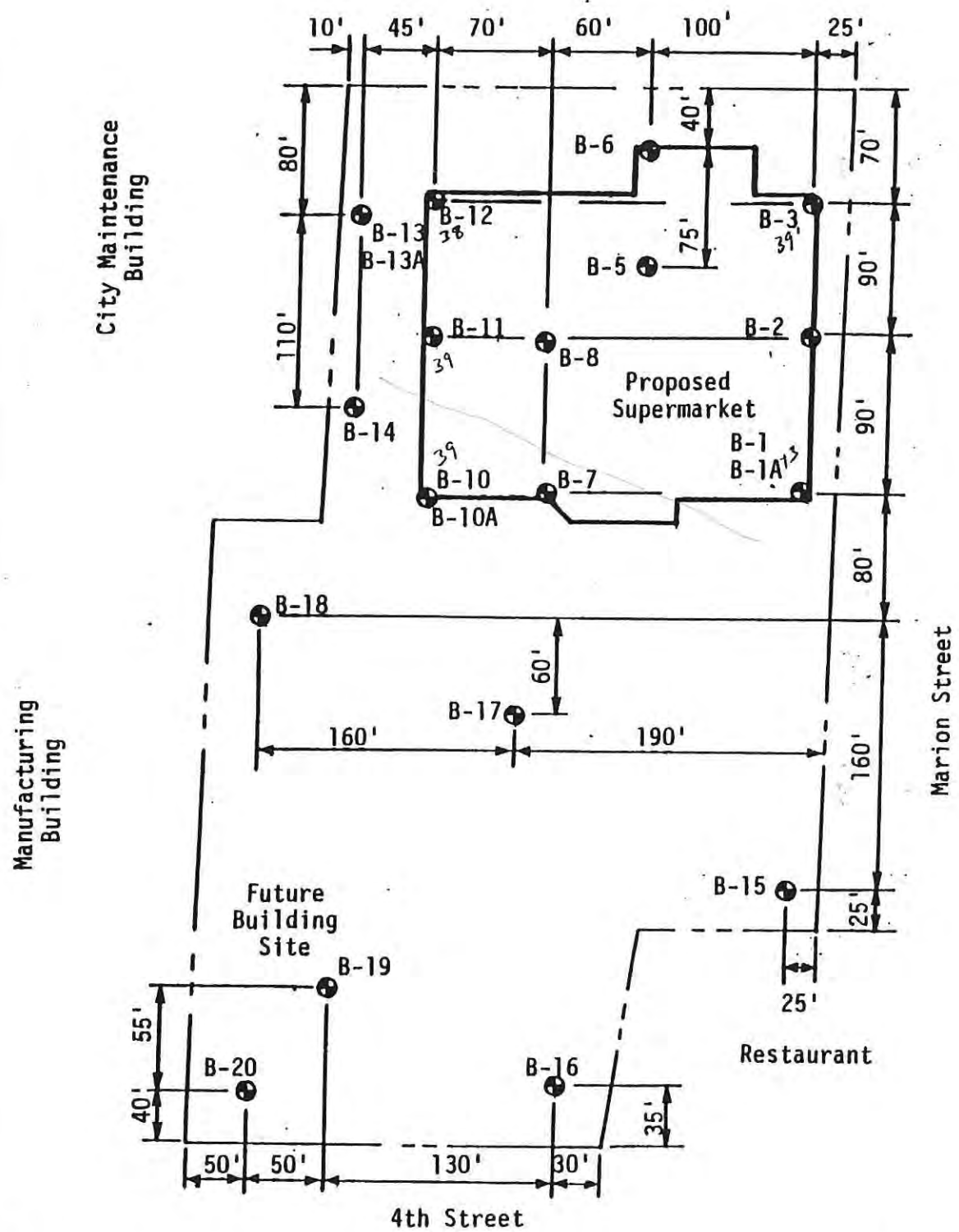
- Coefficient of at-rest earth pressure = 0.42
  - Units of  $P_1$ ,  $P_2$  in psf
  - Horizontal Backfill
  - Wall Backfill compacted to 95 percent of Standard Proctor maximum dry density
  - In-situ soil weight
  - No safety factor included
- Uniform surcharge
  - Negligible wall friction
  - No ground water acting on wall
  - Loading from heavy compaction equipment not included
  - No wall rotation

Proposed Supermarket  
 Fourth & Marion Streets  
 Leavenworth, Kansas  
 Job No. 02897029

**Terracon**



Auto Salvage Yard



Boring Location Diagram  
 Proposed Supermarket  
 4th & Marion Streets  
 Leavenworth, Kansas

Job No. 02897029  
 Date: 10/17/89

**Terracon**



## GENERAL NOTES

### DRILLING & SAMPLING SYMBOLS:

SS : Split Spoon - 1½" I.D., 2" O.D., unless otherwise noted	PS : Piston Sample
ST : Thin-Walled Tube - 2" O.D., Unless otherwise noted	WS : Wash Sample
PA : Power Auger	FT : Fish Tail Bit
HA : Hand Auger	RB : Rock Bit
DB : Diamond Bit - 4", N, B	BS : Bulk Sample
AS : Auger Sample	PM : Pressuremeter
HS : Hollow Stem Auger	DC : Dutch Cone
	WB : Wash Bore

Standard "N" Penetration: Blows per foot of a 140 pound hammer falling 30 inches on a 2 inch OD split spoon, except where noted.

### WATER LEVEL MEASUREMENT SYMBOLS:

WL : Water Level	WS : While Sampling
WCI : Wet Cave In	WD : While Drilling
DCI : Dry Cave In	BCR : Before Casing Removal
AB : After Boring	ACR : After Casing Removal

Water levels indicated on the boring logs are the levels measured in the borings at the times indicated. In pervious soils, the indicated levels may reflect the location of groundwater. In low permeability soils, the accurate determination of ground water levels is not possible with only short term observations.

### DESCRIPTIVE SOIL CLASSIFICATION:

Soil Classification is based on the Unified Soil Classification System and ASTM Designations D-2487 and D-2488. Coarse Grained Soils have more than 50% of their dry weight retained on a #200 sieve; they are described as: boulders, cobbles, gravel or sand. Fine Grained Soils have less than 50% of their dry weight retained on a #200 sieve; they are described as: clays, if they are plastic, and silts if they are slightly plastic or non-plastic. Major constituents may be added as modifiers and minor constituents may be added according to the relative proportions based on grain size. In addition to gradation, coarse grained soils are defined on the basis of their relative in-place density and fine grained soils on the basis of their consistency. Example: Lean clay with sand, trace gravel, stiff (CL); silty sand, trace gravel, medium dense (SM).

### CONSISTENCY OF FINE-GRAINED SOILS:

Unconfined Compressive Strength, Qu, psf	Consistency
< 500	Very Soft
500 - 1,000	Soft
1,001 - 2,000	Medium
2,001 - 4,000	Stiff
4,001 - 8,000	Very Stiff
8,001 - 16,000	Hard
> 16,000	Very Hard

### RELATIVE DENSITY OF COARSE-GRAINED SOILS:

N-Blows/ft.	Relative Density
0-3	Very Loose
4-9	Loose
10-29	Medium Dense
30-49	Dense
50-80	Very Dense
80+	Extremely Dense

### RELATIVE PROPORTIONS OF SAND AND GRAVEL

Descriptive Term(s) (of Components Also Present in Sample)	Percent of Dry Weight
Trace	< 15
With	15 - 29
Modifier	> 30

### RELATIVE PROPORTIONS OF FINES

Descriptive Term(s) (of Components Also Present in Sample)	Percent of Dry Weight
Trace	< 5
With	5 - 12
Modifier	> 12

### GRAIN SIZE TERMINOLOGY

Major Component Of Sample	Size Range
Boulders	Over 12 in. (300mm)
Cobbles	12 in. to 3 in. (300mm to 75mm)
Gravel	3 in. to #4 sieve (75mm to 4.75mm)
Sand	#4 to #200 sieve (4.75mm to 0.075mm)
Silt or Clay	Passing #200 sieve (0.075mm)

## GENERAL NOTES

### Sedimentary Rock Classification

#### DESCRIPTIVE ROCK CLASSIFICATION:

Sedimentary rocks are composed of cemented clay, silt and sand sized particles. The most common minerals are clay, quartz and calcite. Rock composed primarily of calcite is called limestone; rock of sand size grains is called sandstone, and rock of clay and silt size grains is called mudstone or claystone, siltstone, or shale. Modifiers such as shaly, sandy, dolomitic, calcareous, carbonaceous, etc. are used to describe various constituents. Examples: sandy shale; calcareous sandstone.

LIMESTONE	Light to dark colored, crystalline to fine-grained texture, composed of $\text{CaCO}_3$ , reacts readily with HCl.
DOLOMITE	Light to dark colored, crystalline to fine-grained texture, composed of $\text{CaMg}(\text{CO}_3)_2$ , harder than limestone, reacts with HCl when powdered.
CHERT	Light to dark colored, very fine-grained texture, composed of micro-crystalline quartz ( $\text{SiO}_2$ ), brittle, breaks into angular fragments, will scratch glass.
SHALE	Very fine-grained texture, composed of consolidated silt or clay, bedded in thin layers. The unlaminated equivalent is frequently referred to as siltstone, claystone or mudstone.
SANDSTONE	Usually light colored, coarse to fine texture, composed of cemented sand size grains of quartz, feldspar, etc. Cement usually is silica but may be such minerals as calcite, iron-oxide, or some other carbonate.
CONGLOMERATE	Rounded rock fragments of variable mineralogy varying in size from near sand to boulder size but usually pebble to cobble size ( $\frac{1}{2}$ inch to 6 inches). Cemented together with various cementing agents. Breccia is similar but composed of angular, fractured rock particles cemented together.

#### DEGREE OF WEATHERING:

SLIGHT	Slight decomposition of parent material on joints. May be color change.
MODERATE	Some decomposition and color change throughout.
HIGH	Rock highly decomposed, may be extremely broken.

Classification of rock materials has been estimated from disturbed samples.  
Core samples and petrographic analysis may reveal other rock types.

**Terracon**



# LOG OF BORING NO. B-1

<b>OWNER</b> <b>FOUR B CORPORATION</b>	<b>ARCHITECT/ENGINEER</b> <b>FRANKLIN-FRIEZE-BOICE ARCHITECTS, INC.</b>
<b>SITE</b> <b>4th AND MARION STREETS</b> <b>LEAVENWORTH, KANSAS</b>	<b>PROJECT</b> <b>PROPOSED SUPERMARKET</b>

GRAPHIC LOG	DESCRIPTION	DEPTH (FT.)	USCS SYMBOL	SAMPLES			TESTS		
				NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %	DRY DENSITY PCF
	Surface Elev.: 98.3 ft.								
	2" TOPSOIL FILL, Silty Lean Clay, Trace Roots, Gravel, Cinders, and Brick, Dark Gray Brown	3.5			PA				
		94.8							
	<u>SILTY LEAN CLAY</u> , Brown, Gray Brown, and Yellow Brown, Very Stiff to Medium with depth								
	(Silt and Sand Seams Below 13')								
		18.0							
	<u>SILTY LEAN CLAY</u> , Gray, Medium	20.0							
	<b>BOTTOM OF BORING</b>	▽ 78.3							
		20							

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. Calibrated Hand Penetrometer\*

WATER LEVEL OBSERVATIONS			
WL	▽ 20.0'	W.S.	▽ NONE A.B.
WL			
WL			



BORING STARTED	10-2-89
BORING COMPLETED	10-2-89
RIG CME 55	FOREMAN RK
APPROVED BEB	JOB # 02897029

# LOG OF BORING NO. B A

<b>OWNER</b> <p style="text-align: center;"><b>FOUR B CORPORATION</b></p>	<b>ARCHITECT/ENGINEER</b> <p style="text-align: center;"><b>FRANKLIN-FRIEZE-BOICE ARCHITECTS, INC.</b></p>
<b>SITE</b> <p style="text-align: center;"><b>4th AND MARION STREETS LEAVENWORTH, KANSAS</b></p>	<b>PROJECT</b> <p style="text-align: center;"><b>PROPOSED SUPERMARKET</b></p>

GRAPHIC LOG	DESCRIPTION	DEPTH (FT.)	USCS SYMBOL	SAMPLES			TESTS		
				NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %	DRY DENSITY PCF
Surface Elev.: 98.3 ft.									
3" TOPSOIL					PA				
7.0	<b>FILL</b> , Silty Lean Clay, Trace Concrete, Cinders, and Brick, Brown and Dark Gray Brown	91.3							
22.5	<b>SILTY LEAN CLAY</b> , Brown  (Moist @ 15.0)								
22.5	<b>SILTY LEAN CLAY</b> , Trace Sand, Gray, Moist	75.8							
Continued Next Page									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. Calibrated Hand Penetrometer\*

WATER LEVEL OBSERVATIONS				Terracon	BORING STARTED		10-4-89				
WL	▽ 20.0'	W.D.	▽ 25.0'		A.B.	BORING COMPLETED		10-4-89			
WL						RIG	CME 55		FOREMAN	RK	
WL						APPROVED	BEB		JOB #	02897029	

# LOG OF BORING NO. B-1A

<b>OWNER</b> <b>FOUR B CORPORATION</b>		<b>ARCHITECT/ENGINEER</b> <b>FRANKLIN-FRIEZE-BOICE ARCHITECTS, INC.</b>						
<b>SITE</b> <b>4th AND MARION STREETS LEAVENWORTH, KANSAS</b>		<b>PROJECT</b> <b>PROPOSED SUPERMARKET</b>						
<b>GRAPHIC LOG</b>	<b>DESCRIPTION</b>	<b>DEPTH (FT.)</b>	<b>USCS SYMBOL</b>	<b>SAMPLES</b>			<b>TESTS</b>	
				<b>NUMBER</b>	<b>TYPE</b>	<b>RECOVERY</b>	<b>SPT - N BLOWS / FT.</b>	<b>MOISTURE, %</b>
	<p><b>SILTY LEAN CLAY, Trace</b> <b>Sand, Gray, Moist (Continued)</b></p> <p style="text-align: center;">(Trace Limestone Gravel @ 41.0')</p> <p>42.5 <span style="float: right;">55.8</span> 42.8 <b>** APPARENT LIMESTONE</b> <span style="float: right;">55.5</span></p> <p><b>BOTTOM OF BORING AUGER REFUSAL at 42.8'</b> All descriptions taken from driller's field logs. ** Classification estimated from disturbed samples. Core samples and petrographic analysis may reveal other rock types.</p>	<p>30</p> <p>35</p> <p>40</p>						

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. Calibrated Hand Penetrometer\*

WATER LEVEL OBSERVATIONS					
WL	▽	20.0'	W.D.	▽	25.0' A.B.
WL					
WL					



BORING STARTED	10-4-89
BORING COMPLETED	10-4-89
RIG CME 55	FOREMAN RK
APPROVED BEB	JOB # 02897029



# LOG OF BORING NO. B-2

<b>OWNER</b> FOUR B CORPORATION		<b>ARCHITECT/ENGINEER</b> FRANKLIN-FRIEZE-BOICE ARCHITECTS, INC.								
<b>SITE</b> 4th AND MARION STREETS LEAVENWORTH, KANSAS		<b>PROJECT</b> PROPOSED SUPERMARKET								
<b>GRAPHIC LOG</b>	<b>DESCRIPTION</b>	<b>DEPTH (FT.)</b>	<b>USCS SYMBOL</b>	<b>SAMPLES</b>	<b>TESTS</b>					
				<b>NUMBER</b>	<b>TYPE</b>	<b>RECOVERY</b>	<b>SPT - N BLOWS / FT.</b>	<b>MOISTURE, %</b>	<b>DRY DENSITY PCF</b>	<b>UNCONFINED STRENGTH PSF</b>
	Surface Elev.: 95.6 ft.									
	2" TOPSOIL LEAN CLAY, Dark Brown, Very Stiff	2.0	93.6	CL	1	ST	9	20.1	106	7500*
	LEAN CLAY, Brown, Gray Brown, Trace Dark Gray Brown, Very Stiff			CL	2	ST	24	21.7	103	7000*
		7.0	88.6			PA		24.6		4500*
	SILTY LEAN CLAY, Brown and Gray Brown, Mottled, Very Stiff to Hard (Dry @ 8.0')			CL	3	ST	7	15.1	102	9000*
						PA				
		15.0	80.6	CL	4	ST	12	21.6	103	7500*
	BOTTOM OF BORING									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. Calibrated Hand Penetrometer\*

<b>WATER LEVEL OBSERVATIONS</b>			<h1 style="font-size: 2em;">Terracon</h1>	<b>BORING STARTED</b> 10-2-89	
WL	∇ NONE W.S.	∇ NONE A.B.		<b>BORING COMPLETED</b> 10-2-89	
WL				<b>RIG</b> CME 55	<b>FOREMAN</b> RK
WL				<b>APPROVED</b> BEB	<b>JOB #</b> 02897029

# LOG OF BORING NO. B-3

<b>OWNER</b> FOUR B CORPORATION	<b>ARCHITECT/ENGINEER</b> FRANKLIN-FRIEZE-BOICE ARCHITECTS, INC.
<b>SITE</b> 4th AND MARION STREETS LEAVENWORTH, KANSAS	<b>PROJECT</b> PROPOSED SUPERMARKET

GRAPHIC LOG	DESCRIPTION	DEPTH (FT.)	USCS SYMBOL	SAMPLES				TESTS		
				NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %	DRY DENSITY PCF	UNCONFINED STRENGTH PSF
	Surface Elev.: 95.6 ft.									
	5" TOPSOIL				PA					
	1.5 SILTY LEAN CLAY, Trace Roots, Dark Brown	94.1								
	SILTY LEAN CLAY, Brown and Gray, Mottled	5								
		10								
		15								
		20								
	21.0	74.6								
	SILTY LEAN CLAY, Trace Sand, Gray Trace Brown to Gray	25	CL	1	ST	14		35.0	87	3380

Continued Next Page

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. Calibrated Hand Penetrometer\*

<b>WATER LEVEL OBSERVATIONS</b> WL $\nabla$ 21.0' W.D. $\nabla$ 25.0' A.B. WL WL	<h1 style="margin: 0;">Terracon</h1>	BORING STARTED 10-4-89 BORING COMPLETED 10-4-89 RIG CME 55 FOREMAN RK APPROVED BEB JOB # 02897029
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# LOG OF BORING NO. B-5

<b>OWNER</b> <p style="text-align: center;"><b>FOUR B CORPORATION</b></p>	<b>ARCHITECT/ENGINEER</b> <p style="text-align: center;"><b>FRANKLIN-FRIEZE-BOICE ARCHITECTS, INC.</b></p>
<b>SITE</b> <p style="text-align: center;"><b>4th AND MARION STREETS LEAVENWORTH, KANSAS</b></p>	<b>PROJECT</b> <p style="text-align: center;"><b>PROPOSED SUPERMARKET</b></p>

GRAPHIC LOG	DESCRIPTION	DEPTH (FT.)	USCS SYMBOL	SAMPLES				TESTS	
				NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %	DRY DENSITY PCF
	<p><b>SILTY LEAN CLAY</b>, Trace Sand, Gray Trace Brown to Gray (Continued)</p> <p style="text-align: center;">(Trace Limestone Gravel @ 37.5')</p> <p style="text-align: center;">39.0 <b>**APPARENT LIMESTONE @ 39.0'</b> 56.6</p>	<p>30</p> <p>35</p>							
	<p><b>BOTTOM OF BORING AUGER REFUSAL at 39.0'</b> All descriptions taken from driller's field logs.</p> <p>** Classification estimated from disturbed samples. Core samples and petrographic analysis may reveal other rock types.</p>								

Calibrated Hand Penetrometer\*

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

WATER LEVEL OBSERVATIONS			
WL	21.0'	W.D.	25.0' A.B.
WL			
WL			



BORING STARTED	10-4-89
BORING COMPLETED	10-4-89
RIG CME 55	FOREMAN RK
APPROVED BEB	JOB # 02897029

# LOG OF BORING NO. B

OWNER <b>FOUR B CORPORATION</b>		ARCHITECT/ENGINEER <b>FRANKLIN-FRIEZE-BOICE ARCHITECTS, INC.</b>																																																																								
SITE <b>4th AND MARION STREETS LEAVENWORTH, KANSAS</b>		PROJECT <b>PROPOSED SUPERMARKET</b>																																																																								
GRAPHIC LOG	DESCRIPTION	DEPTH (FT.)	USCS SYMBOL	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">SAMPLES</th> <th colspan="3">TESTS</th> </tr> <tr> <th>NUMBER</th> <th>TYPE</th> <th>RECOVERY</th> <th>SPT - N BLOWS / FT.</th> <th>MOISTURE, %</th> <th>DRY DENSITY PCF</th> <th>UNCONFINED STRENGTH PSF</th> </tr> </thead> <tbody> <tr> <td></td> <td>PA</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>CL 1</td> <td>ST</td> <td>24</td> <td></td> <td>22.0</td> <td>101</td> <td>7500*</td> </tr> <tr> <td></td> <td>PA</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>CL 2</td> <td>ST</td> <td>8</td> <td></td> <td>25.9</td> <td>98</td> <td>3000*</td> </tr> <tr> <td></td> <td>PA</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>CL 3</td> <td>ST</td> <td>19</td> <td></td> <td>27.5</td> <td>97</td> <td>2000*</td> </tr> <tr> <td></td> <td>PA</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>CL 4</td> <td>ST</td> <td>20</td> <td></td> <td>28.7 27.9</td> <td>93</td> <td>1500* 1000*</td> </tr> </tbody> </table>	SAMPLES				TESTS			NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %	DRY DENSITY PCF	UNCONFINED STRENGTH PSF		PA						CL 1	ST	24		22.0	101	7500*		PA						CL 2	ST	8		25.9	98	3000*		PA						CL 3	ST	19		27.5	97	2000*		PA						CL 4	ST	20		28.7 27.9	93	1500* 1000*
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3.0	94.0	4																																																																								
		5																																																																								
13.0	84.0	10																																																																								
15.0	82.0	15																																																																								
	BOTTOM OF BORING																																																																									

Atterberg Limits:  
LL = 45,  
PL = 19,  
PI = 26

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. Calibrated Hand Penetrometer\*

WATER LEVEL OBSERVATIONS		
WL	∇ NONE	W.S. ∇ NONE A.B.
WL		
WL		

<b>Terracon</b>		BORING STARTED	10-2-89
		BORING COMPLETED	10-2-89
	RIG	CME 55	FOREMAN RK
	APPROVED	BEB	JOB # 02897029

# LOG OF BORING NO. B-1

<b>OWNER</b> <p style="text-align: center;"><b>FOUR B CORPORATION</b></p>		<b>ARCHITECT/ENGINEER</b> <p style="text-align: center;"><b>FRANKLIN-FRIEZE-BOICE ARCHITECTS, INC.</b></p>							
<b>SITE</b> <p style="text-align: center;"><b>4th AND MARION STREETS LEAVENWORTH, KANSAS</b></p>		<b>PROJECT</b> <p style="text-align: center;"><b>PROPOSED SUPERMARKET</b></p>							
<b>GRAPHIC LOG</b>	<b>DESCRIPTION</b>  Surface Elev.: 96.7 ft.	<b>DEPTH (FT.)</b>	<b>SAMPLES</b>			<b>TESTS</b>			
		<b>USCS SYMBOL</b>	<b>NUMBER</b>	<b>TYPE</b>	<b>RECOVERY</b>	<b>SPT - N BLOWS / FT.</b>	<b>MOISTURE, %</b>	<b>DRY DENSITY PCF</b>	<b>UNCONFINED STRENGTH PSF</b>
	5" TOPSOIL FILL, Lean Clay, Trace Gravel, Dark Brown	94.7		PA					
	2.0 SILTY LEAN CLAY, Brown Trace Gray to Brown and Gray, Very Stiff to Hard	5	1	ST	9		22.5	104	6500*
		5	2	ST	6		22.4	104	7000*
		5		PA					
		10	3	ST	7		18.0	106	9000*
		10		PA					
		15	4	ST	6		19.8	100	8000*
		15		PA					
	18.0 FAT CLAY, Brown, Trace Dark Gray Brown and Gray, Stiff to Very Stiff	18.0	5	ST	14		33.6	88	4000*
		20		PA					
	(Silty Lean Clay with Sand Seams, Gray and Light Brown @ 22 to 24')	25.0	6	ST	19		31.2		3000*
		25					36.3	86	4500*
	71.7 BOTTOM OF BORING	25							

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. Calibrated Hand Penetrometer\*

WATER LEVEL OBSERVATIONS			
WL	▽	22.0'	W.D. ▽ 22.5' A.B.
WL			
WL			



BORING STARTED	10-4-89
BORING COMPLETED	10-4-89
RIG CME 55	FOREMAN RK
APPROVED BEB	JOB # 02897029



LOG OF BORING NO. B-1

OWNER <b>FOUR B CORPORATION</b>		ARCHITECT/ENGINEER <b>FRANKLIN-FRIEZE-BOICE ARCHITECTS, INC.</b>									
SITE <b>4th AND MARION STREETS LEAVENWORTH, KANSAS</b>		PROJECT <b>PROPOSED SUPERMARKET</b>									
GRAPHIC LOG	DESCRIPTION	DEPTH (FT.)	USCS SYMBOL	SAMPLES			TESTS				
				NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %	DRY DENSITY PCF	UNCONFINED STRENGTH PSF	
	Surface Elev.: 97.0 ft.										
	2" TOPSOIL LEAN CLAY, Trace Roots, Brown, Dark Brown and Gray Brown, Very Stiff	3.0	94.0	CL	1	ST	24	23.4	103	4000*	
	SILTY LEAN CLAY, Brown, Light Gray Brown, Trace Dark Gray Brown, Medium to Stiff  (Moist @ 13.0')			CL	2	ST	7	24.5	100	5000*	
					CL	3	ST	18	26.7	97	2500*
									27.3		2000*
				CL	4	ST	24	29.2		1500*	
								27.7	97	3500*	
	BOTTOM OF BORING	15.0	82.0								

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. Calibrated Hand Penetrometer\*

WATER LEVEL OBSERVATIONS			
WL	▽ 15.0'	W.S.	▽ NONE A.B.
WL			
WL			



BORING STARTED	10-2-89
BORING COMPLETED	10-2-89
RIG CME 55	FOREMAN RK
APPROVED BEB	JOB # 02897029





# LOG OF BORING NO. B-10

<b>OWNER</b> <b>FOUR B CORPORATION</b>		<b>ARCHITECT/ENGINEER</b> <b>FRANKLIN-FRIEZE-BOICE ARCHITECTS, INC.</b>								
<b>SITE</b> <b>4th AND MARION STREETS LEAVENWORTH, KANSAS</b>		<b>PROJECT</b> <b>PROPOSED SUPERMARKET</b>								
<b>GRAPHIC LOG</b>	<b>DESCRIPTION</b>	<b>DEPTH (FT.)</b>	<b>SAMPLES</b>		<b>TESTS</b>					
		<b>USCS SYMBOL</b>	<b>NUMBER</b>	<b>TYPE</b>	<b>RECOVERY</b>	<b>SPT - N BLOWS / FT.</b>	<b>MOISTURE, %</b>	<b>DRY DENSITY PCF</b>	<b>UNCONFINED STRENGTH PSF</b>	
	Surface Elev.: 96.7 ft. 2" TOPSOIL			PA						
	<b>FILL, Lean Clay, Trace Sand and Gravel, Trace Glass, Brick, Wood and Metal, Dark Gray Brown, Brown, and Gray Brown</b>	1	ST	6		21.3	103	7000*		
5		2	ST	12		23.8	97	3500*		
				PA			17.5		2000*	
10			3	ST	3		22.0		3000*	
	↓		PA							
15		4	ST	9		30.6	93	2000*		
	↓		PA			33.1		1500*		
16.5	80.2									
	<b>SILTY LEAN CLAY, Trace Sand, Dark Gray, Soft</b>		CL	5	ST	24	32.6	85	540 3" ST	
20.0	76.7									
	<b>BOTTOM OF BORING</b>	20								

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. Calibrated Hand Penetrometer\*

WATER LEVEL OBSERVATIONS				
WL	▽	15.5'	W.D.	▽
				13.5'
				A.D.
WL				
WL				



BORING STARTED	10-3-89
BORING COMPLETED	10-3-89
RIG CME 55	FOREMAN RK
APPROVED BEB	JOB # 02897029



# LOG OF BORING NO. B-10A

<b>OWNER</b> FOUR B CORPORATION		<b>ARCHITECT/ENGINEER</b> FRANKLIN-FRIEZE-BOICE ARCHITECTS, INC.		
<b>SITE</b> 4th AND MARION STREETS LEAVENWORTH, KANSAS		<b>PROJECT</b> PROPOSED SUPERMARKET		
<b>GRAPHIC LOG</b>	<b>DESCRIPTION</b>	<b>DEPTH (FT.)</b>	<b>SAMPLES</b>	
		<b>USCS SYMBOL</b>	<b>NUMBER</b>	<b>TESTS</b>
	Surface Elev.: 96.7 ft.			
	2" TOPSOIL		PA	
	<u>FILL</u> , Lean Clay, Trace Brick, Concrete and Wood, Dark Gray and Gray Brown	5		
	7.0 <span style="float: right;">89.7</span>			
	7.5 <span style="float: right;">89.2</span>			
	6" CONCRETE SLAB			
	<u>SILTY LEAN CLAY</u> , Dark Gray Brown, Moist	10		
		15		
	16.0 <span style="float: right;">80.7</span>			
	<u>SILTY LEAN CLAY</u> , Trace Sand, Gray Brown to Gray	20		
		25		

Continued Next Page

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

Calibrated Hand Penetrometer\*

WATER LEVEL OBSERVATIONS			
WL	▽	15.0' W.D.	▽ 18.0' A.B.
WL			
WL			

## Terracon

BORING STARTED		10-4-89	
BORING COMPLETED		10-4-89	
RIG	CME 55	FOREMAN	RK
APPROVED	BEB	JOB #	02897029

# LOG OF BORING NO. B-10A

<b>OWNER</b> FOUR B CORPORATION	<b>ARCHITECT/ENGINEER</b> FRANKLIN-FRIEZE-BOICE ARCHITECTS, INC.
<b>SITE</b> 4th AND MARION STREETS LEAVENWORTH, KANSAS	<b>PROJECT</b> PROPOSED SUPERMARKET

GRAPHIC LOG	DESCRIPTION	DEPTH (FT.)	USCS SYMBOL	SAMPLES				TESTS		
				NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %	DRY DENSITY PCF	UNCONFINED STRENGTH PSF
	<p><b>SILTY LEAN CLAY</b>, Trace                      Sand, Gray Brown to Gray                      (Continued)</p> <p>(Trace Limestone Gravel @ 36.0')</p>	<div style="text-align: center;">                         30                          35                     </div>								
	<p>38.3 <span style="float: right;">58.4</span></p> <p>38.5 <b>**APPARENT LIMESTONE</b> <span style="float: right;">58.2</span></p> <p><b>BOTTOM OF BORING                      AUGER REFUSAL at 38.5'</b>                      All descriptions taken from driller's                      field logs.                      ** Classification estimated from                      disturbed samples. Core samples                      and petrographic analysis may                      reveal other rock types.</p>									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. Calibrated Hand Penetrometer\*

WATER LEVEL OBSERVATIONS			
WL	▽	15.0' W.D.	▽ 18.0' A.B.
WL			
WL			



BORING STARTED	10-4-89
BORING COMPLETED	10-4-89
RIG CME 55	FOREMAN RK
APPROVED BEB	JOB # 02897029



# LOG OF BORING NO. B-1

<b>OWNER</b> <p style="text-align: center;"><b>FOUR B CORPORATION</b></p>	<b>ARCHITECT/ENGINEER</b> <p style="text-align: center;"><b>FRANKLIN-FRIEZE-BOICE ARCHITECTS, INC.</b></p>
<b>SITE</b> <p style="text-align: center;"><b>4th AND MARION STREETS LEAVENWORTH, KANSAS</b></p>	<b>PROJECT</b> <p style="text-align: center;"><b>PROPOSED SUPERMARKET</b></p>

GRAPHIC LOG	DESCRIPTION	DEPTH (FT.)	USCS SYMBOL	SAMPLES			TESTS		
				NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %	DRY DENSITY PCF
	Surface Elev.: 96.3 ft. 2" TOPSOIL								
	<b>FILL, Lean Clay, Trace Roots, Trace Sand and Gravel, Trace Brick, Wood and Concrete, Dark Gray Brown, Brown, Olive Gray, and Gray Brown</b>  (Odor @ 13.0')	5	HS						
		8	1 ST	8		15.5		7000*	
		14	2 ST	14		20.0	85	2500*	
		19.6	3 SS	6	33			4500*	
		13	4 SS	6	13	32.8			
		17	5 CL	5 ST	17		27.4	97	500*
	<b>SILTY LEAN CLAY, Dark Gray, Soft to Medium</b>	20	HS					2000*	
		22.6	6 CL	6 ST	14		22.6	1500*	
		33.0	7 CL	7 ST	14		33.0	91	1000*
	80.3	25	HS						

Continued Next Page

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

Calibrated Hand Penetrometer\*


WATER LEVEL OBSERVATIONS			
WL	▽ 11.5'	W.D. ▽ 11.0'	A.B.
WL			
WL			



BORING STARTED	10-3-89
BORING COMPLETED	10-4-89
RIG CME 55	FOREMAN RK
APPROVED BEB	JOB # 02897029

LOG OF BORING NO. B-11

OWNER <b>FOUR B CORPORATION</b>	ARCHITECT/ENGINEER <b>FRANKLIN-FRIEZE-BOICE ARCHITECTS, INC.</b>
SITE <b>4th AND MARION STREETS LEAVENWORTH, KANSAS</b>	PROJECT <b>PROPOSED SUPERMARKET</b>

GRAPHIC LOG	DESCRIPTION	DEPTH (FT.)	USCS SYMBOL	SAMPLES				TESTS			
				NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %	DRY DENSITY PCF	UNCONFINED STRENGTH PSF	
	<b>SILTY LEAN CLAY</b> , Dark Gray, Soft to Medium (Continued) (Very Soft at Depths of Low Recovery)	30		7	ST	0					3" ST; Two Attempts
					HS						
		38.0		8	ST	3		38.2		0	3" ST
		38.9		9	SS	0	50/0"				Bouncing
	<b>38.0</b> <b>58.3</b> <b>**APPARENT LIMESTONE</b> <b>57.4</b>										
	<b>BOTTOM OF BORING AUGER REFUSAL at 38.9'</b> <b>** Classification estimated from disturbed samples. Core samples and petrographic analysis may reveal other rock types.</b>										

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. Calibrated Hand Penetrometer\*

WATER LEVEL OBSERVATIONS			
WL	▽ 11.5'	W.D.	▽ 11.0' A.B.
WL			
WL			



BORING STARTED	10-3-89
BORING COMPLETED	10-4-89
RIG CME 55	FOREMAN RK
APPROVED BEB	JOB # 02897029









# LOG OF BORING NO. B-13

<b>OWNER</b> FOUR B CORPORATION		<b>ARCHITECT/ENGINEER</b> FRANKLIN-FRIEZE-BOICE ARCHITECTS, INC.						
<b>SITE</b> 4th AND MARION STREETS LEAVENWORTH, KANSAS		<b>PROJECT</b> PROPOSED SUPERMARKET						
<b>GRAPHIC LOG</b>	<b>DESCRIPTION</b>	<b>DEPTH (FT.)</b>	<b>USCS SYMBOL</b>	<b>SAMPLES</b>			<b>TESTS</b>	
				<b>NUMBER</b>	<b>TYPE</b>	<b>RECOVERY</b>	<b>SPT - N BLOWS / FT.</b>	<b>MOISTURE, %</b>
	Surface Elev.: 96.3 ft.							
	<p><b>FILL</b>, Lean Clay, Trace Gravel, Wood and Rubble, Brown and Dark Gray Brown</p>			PA				
	<p><b>BOTTOM OF BORING</b> All descriptions taken from driller's field logs.</p>	15						

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. Calibrated Hand Penetrometer\*

WATER LEVEL OBSERVATIONS			
WL	▽	11.8' W.S.	▽ 11.8' A.B.
WL			
WL			



BORING STARTED	9-29-89
BORING COMPLETED	9-29-89
RIG CME 55	FOREMAN RM
APPROVED BEB	JOB # 02897029

# LOG OF BORING NO. B-1004

<b>OWNER</b> <p style="text-align: center;"><b>FOUR B CORPORATION</b></p>	<b>ARCHITECT/ENGINEER</b> <p style="text-align: center;"><b>FRANKLIN-FRIEZE-BOICE ARCHITECTS, INC.</b></p>
<b>SITE</b> <p style="text-align: center;"><b>4th AND MARION STREETS LEAVENWORTH, KANSAS</b></p>	<b>PROJECT</b> <p style="text-align: center;"><b>PROPOSED SUPERMARKET</b></p>

GRAPHIC LOG	DESCRIPTION	DEPTH (FT.)	USCS SYMBOL	SAMPLES				TESTS	
				NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %	DRY DENSITY PCF
	Surface Elev.: 96.3 ft.								
	<b>FILL</b> , Lean Clay, Trace Gravel, Trace Brick, Wood and Rubble, Brown and Dark Gray Brown	5							
		10.0	86.3						
	<b>SILTY LEAN CLAY</b> , Olive Gray	15							
		20.0	76.3						
	<b>BOTTOM OF BORING</b> All descriptions taken from driller's field logs.	20							

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. Calibrated Hand Penetrometer\*

<b>WATER LEVEL OBSERVATIONS</b> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">WL</td> <td style="width: 10%;">▽</td> <td style="width: 10%;">14.5'</td> <td style="width: 10%;">W.D.</td> <td style="width: 10%;">▽</td> <td style="width: 10%;">15.0'</td> <td style="width: 10%;">A.B.</td> </tr> <tr> <td>WL</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>WL</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	WL	▽	14.5'	W.D.	▽	15.0'	A.B.	WL							WL							<h1 style="font-size: 2em; margin: 0;">Terracon</h1>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">BORING STARTED</td> <td style="width: 50%;">10-2-89</td> </tr> <tr> <td>BORING COMPLETED</td> <td>10-2-89</td> </tr> <tr> <td>RIG CME 55</td> <td>FOREMAN RK</td> </tr> <tr> <td>APPROVED BEB</td> <td>JOB # 02897029</td> </tr> </table>	BORING STARTED	10-2-89	BORING COMPLETED	10-2-89	RIG CME 55	FOREMAN RK	APPROVED BEB	JOB # 02897029
WL	▽	14.5'	W.D.	▽	15.0'	A.B.																									
WL																															
WL																															
BORING STARTED	10-2-89																														
BORING COMPLETED	10-2-89																														
RIG CME 55	FOREMAN RK																														
APPROVED BEB	JOB # 02897029																														



# LOG OF BORING NO. B-

OWNER <b>FOUR B CORPORATION</b>		ARCHITECT/ENGINEER <b>FRANKLIN-FRIEZE-BOICE ARCHITECTS, INC.</b>						
SITE <b>4th AND MARION STREETS LEAVENWORTH, KANSAS</b>		PROJECT <b>PROPOSED SUPERMARKET</b>						
GRAPHIC LOG	DESCRIPTION	DEPTH (FT.)	USCS SYMBOL	SAMPLES			TESTS	
				NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %
	Surface Elev.: 96.6 ft.							
	<b>FILL</b> , Lean Clay, Silty Clay and Lean to Fat Clay, Trace Sand and Gravel, Trace Brick, Wood and Rubble, Dark Brown, Dark Gray, and Gray Brown	5						
		10.0	86.6					
	<b>SILTY LEAN CLAY</b> , Trace Sand, Olive Gray	15						
		19.5	77.1					
	<b>BOTTOM OF BORING</b> All descriptions taken from driller's field logs.							

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. Calibrated Hand Penetrometer\*

WATER LEVEL OBSERVATIONS	
WL	TRACE W.S.
WL	
WL	



BORING STARTED		10-2-89	
BORING COMPLETED		10-2-89	
RIG	CME 55	FOREMAN	RK
APPROVED	BEB	JOB #	02897029

# LOG OF BORING NO. B-13

<b>OWNER</b> <b>FOUR B CORPORATION</b>		<b>ARCHITECT/ENGINEER</b> <b>FRANKLIN-FRIEZE-BOICE ARCHITECTS, INC.</b>							
<b>SITE</b> <b>4th AND MARION STREETS LEAVENWORTH, KANSAS</b>		<b>PROJECT</b> <b>PROPOSED SUPERMARKET</b>							
<b>GRAPHIC LOG</b>	<b>DESCRIPTION</b>	<b>DEPTH (FT.)</b>	<b>SAMPLES</b>			<b>TESTS</b>			
		<b>USCS SYMBOL</b>	<b>NUMBER</b>	<b>TYPE</b>	<b>RECOVERY</b>	<b>SPT - N BLOWS / FT.</b>	<b>MOISTURE, %</b>	<b>DRY DENSITY PCF</b>	<b>UNCONFINED STRENGTH PSF</b>
	Surface Elev.: 100.8 ft.								
	2.0 <b>FILL</b> , Lean Clay and Sandy Fat Clay, Trace Sand and Gravel, Trace Cinders and Brick, Yellow Brown and Red Brown 98.8		1	ST	9		14.2	109	8500*
	3.0 <b>LEAN CLAY</b> , Dark Brown, Very Stiff 97.8		2	ST	8		21.3		7000*
	6.5 <b>FAT CLAY</b> , Dark Gray Brown, Trace Brown, Very Stiff 94.3	5		PA					
	8.0 <b>FAT CLAY</b> , Gray Brown 92.8								
	<b>BOTTOM OF BORING</b>								

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. Calibrated Hand Penetrometer\*

WATER LEVEL OBSERVATIONS			
WL	∇	NONE	W.S.
WL		NONE	A.B.
WL			



BORING STARTED		9-29-89	
BORING COMPLETED		9-29-89	
RIG	CME 55	FOREMAN	RM
APPROVED	BEB	JOB #	02897029



# LOG OF BORING NO. B-1

<b>OWNER</b> FOUR B CORPORATION		<b>ARCHITECT/ENGINEER</b> FRANKLIN-FRIEZE-BOICE ARCHITECTS, INC.							
<b>SITE</b> 4th AND MARION STREETS LEAVENWORTH, KANSAS		<b>PROJECT</b> PROPOSED SUPERMARKET							
<b>GRAPHIC LOG</b>	<b>DESCRIPTION</b>	<b>DEPTH (FT.)</b>	<b>USCS SYMBOL</b>	<b>SAMPLES</b>				<b>TESTS</b>	
				<b>NUMBER</b>	<b>TYPE</b>	<b>RECOVERY</b>	<b>SPT - N BLOWS / FT.</b>	<b>MOISTURE, %</b>	<b>DRY DENSITY PCF</b>
	Surface Elev.: 104.3 ft.								
	<b>FILL</b> , Lean Clay, Trace Gravel, Trace Wood, Brick, and Concrete, Dark Gray Brown	3.0	101.3		PA				
	<b>LEAN CLAY</b> , Trace Roots, Dark Gray Brown and Brown, Stiff	7.0	97.3	CL	2 ST	23	24.4	98	
	<b>FAT CLAY</b> , Gray Brown	8.0	96.3		PA				
	<b>BOTTOM OF BORING</b>								

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

Calibrated Hand Penetrometer\*

<b>WATER LEVEL OBSERVATIONS</b>			<b>BORING STARTED</b> 9-28-89	
WL	☒ NONE	W.S.	☒ NONE	A.B.
WL				
WL				
<h1 style="font-size: 2em; margin: 0;">Terracon</h1>			<b>BORING COMPLETED</b> 9-28-89	
			<b>RIG</b> CME 55	<b>FOREMAN</b> RM
			<b>APPROVED</b> BEB	<b>JOB #</b> 02897029

# LOG OF BORING NO. B-1

<b>OWNER</b> <b>FOUR B CORPORATION</b>		<b>ARCHITECT/ENGINEER</b> <b>FRANKLIN-FRIEZE-BOICE ARCHITECTS, INC.</b>								
<b>SITE</b> <b>4th AND MARION STREETS LEAVENWORTH, KANSAS</b>		<b>PROJECT</b> <b>PROPOSED SUPERMARKET</b>								
<b>GRAPHIC LOG</b>	<b>DESCRIPTION</b>	<b>DEPTH (FT.)</b>	<b>SAMPLES</b>			<b>TESTS</b>				
			<b>USCS SYMBOL</b>	<b>NUMBER</b>	<b>TYPE</b>	<b>RECOVERY</b>	<b>SPT - N BLOWS / FT.</b>	<b>MOISTURE, %</b>	<b>DRY DENSITY PCF</b>	<b>UNCONFINED STRENGTH PSF</b>
	Surface Elev.: 99.0 ft.									
	2" TOPSOIL				PA					
	<u>FAT CLAY</u> , Trace Roots, Dark Gray Brown, Very Stiff		CH	1	ST	7		24.5	101	7000*
	4.0	95.0	CH	2	ST	9		24.4	101	6000*
	<u>FAT CLAY</u> , Gray Brown				PA					
	8.0	91.0								
	BOTTOM OF BORING									

Atterberg Limits:  
LL = 60,  
PL = 23,  
PI = 37

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. Calibrated Hand Penetrometer\*

<b>WATER LEVEL OBSERVATIONS</b>		<h1 style="font-size: 2em;">Terracon</h1>	<b>BORING STARTED</b> 10-2-89	
WL	☒ NONE W.S. ☒ NONE A.B.		<b>BORING COMPLETED</b> 10-2-89	
WL			<b>RIG</b> CME 55	<b>FOREMAN</b> RK
WL			<b>APPROVED</b> BEB	<b>JOB #</b> 02897029

# LOG OF BORING NO. B-13

OWNER <b>FOUR B CORPORATION</b>		ARCHITECT/ENGINEER <b>FRANKLIN-FRIEZE-BOICE ARCHITECTS, INC.</b>																																												
SITE <b>4th AND MARION STREETS LEAVENWORTH, KANSAS</b>		PROJECT <b>PROPOSED SUPERMARKET</b>																																												
GRAPHIC LOG	DESCRIPTION	DEPTH (FT.)	USCS SYMBOL	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">SAMPLES</th> <th colspan="3">TESTS</th> </tr> <tr> <th>NUMBER</th> <th>TYPE</th> <th>RECOVERY</th> <th>SPT - N BLOWS / FT.</th> <th>MOISTURE, %</th> <th>DRY DENSITY PCF</th> <th>UNCONFINED STRENGTH PSF</th> </tr> </thead> <tbody> <tr> <td></td> <td>PA</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>CH 1</td> <td>ST</td> <td>24</td> <td></td> <td>25.3</td> <td>100</td> <td>6000*</td> </tr> <tr> <td>CH 2</td> <td>ST</td> <td>11</td> <td></td> <td>23.7</td> <td>102</td> <td>6500*</td> </tr> <tr> <td></td> <td>PA</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	SAMPLES				TESTS			NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %	DRY DENSITY PCF	UNCONFINED STRENGTH PSF		PA						CH 1	ST	24		25.3	100	6000*	CH 2	ST	11		23.7	102	6500*		PA					
	SAMPLES				TESTS																																									
	NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %	DRY DENSITY PCF	UNCONFINED STRENGTH PSF																																							
		PA																																												
CH 1	ST	24		25.3	100	6000*																																								
CH 2	ST	11		23.7	102	6500*																																								
	PA																																													
Surface Elev.: 98.5 ft.																																														
6" GRAVEL																																														
<u>FAT CLAY</u> , Dark Gray Brown, Very Stiff	4.0	94.5																																												
<u>FAT CLAY</u> , Trace Sand, Gray Brown	8.0	90.5																																												
BOTTOM OF BORING																																														

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. Calibrated Hand Penetrometer\*

WATER LEVEL OBSERVATIONS			BORING STARTED <b>10-2-89</b>	
WL	☒ NONE	W.S. ☒ NONE	A.B.	BORING COMPLETED <b>10-2-89</b>
WL				RIG <b>CME 55</b> FOREMAN <b>RK</b>
WL				APPROVED <b>BEB</b> JOB # <b>02897029</b>





# LOG OF BORING NO. B-19

<b>OWNER</b> FOUR B CORPORATION		<b>ARCHITECT/ENGINEER</b> FRANKLIN-FRIEZE-BOICE ARCHITECTS, INC.							
<b>SITE</b> 4th AND MARION STREETS LEAVENWORTH, KANSAS		<b>PROJECT</b> PROPOSED SUPERMARKET							
<b>GRAPHIC LOG</b>	<b>DESCRIPTION</b>	<b>DEPTH (FT.)</b>	<b>SAMPLES</b>			<b>TESTS</b>			
			<b>USCS SYMBOL</b>	<b>NUMBER</b>	<b>TYPE</b>	<b>RECOVERY</b>	<b>SPT - N BLOWS / FT.</b>	<b>MOISTURE, %</b>	<b>DRY DENSITY PCF</b>
	Surface Elev.: 102.5 ft.								
	<b>FILL</b> , Silty Lean Clay, Brown, Trace Dark Gray Brown 1.5 <span style="float: right;">101.0</span>			PA					
	<b>LEAN CLAY</b> , Trace Roots, Dark Gray Brown, Stiff to Very Stiff (More clay with depth) 6.5 <span style="float: right;">96.0</span>	5	CL	2 ST	24		23.6 27.5 24.6 24.1	96 100	2320 4160
	<b>SILTY LEAN CLAY</b> , Brown and Gray Brown, Mottled, Medium (Very Moist) 13.0 <span style="float: right;">89.5</span>	10	CL	3 ST	13		28.1	95	1930
	<b>SILTY LEAN CLAY</b> , Gray Brown, Soft 15.0 <span style="float: right;">87.5</span>	15	CL	4 ST	24		31.9	91	780
	BOTTOM OF BORING								

Atterberg Limits:  
LL = 50,  
PL = 19,  
PI = 31

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. Calibrated Hand Penetrometer\*

WATER LEVEL OBSERVATIONS			
WL	▽ 12.5'	W.S.	▽ 11.0' A.B.
WL			
WL			



BORING STARTED		9-28-89	
BORING COMPLETED		9-28-89	
RIG	CME 55	FOREMAN	RM
APPROVED	BEB	JOB #	02897029

# LOG OF BORING NO. B-20

OWNER <b>FOUR B CORPORATION</b>		ARCHITECT/ENGINEER <b>FRANKLIN-FRIEZE-BOICE ARCHITECTS, INC.</b>								
SITE <b>4th AND MARION STREETS LEAVENWORTH, KANSAS</b>		PROJECT <b>PROPOSED SUPERMARKET</b>								
GRAPHIC LOG	DESCRIPTION	DEPTH (FT.)	SAMPLES		TESTS					
			USCS SYMBOL	NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %	DRY DENSITY PCF	UNCONFINED STRENGTH PSF
	Surface Elev.: 104.6 ft.									
	2" TOPSOIL				PA					
	2.0 <u>FILL</u> , Lean Clay and Silty Clay, Trace Roots, Brick and Cinders, Brown and Dark Gray Brown 102.6			1	ST	9		23.6	99	4500*
	<u>LEAN CLAY</u> , Trace Roots, Dark Gray Brown, Stiff		CL	2	ST	10		25.2	98	3240
	6.0 98.6	5			PA					
	<u>SILTY LEAN CLAY</u> , Brown and Gray Brown, Mottled, Stiff		CL	3	ST	13		22.2	101	3810
	13.0 91.6	10			PA					
	<u>FAT CLAY</u> , Gray Brown, Stiff (More Clay with Depth) 89.6		CH	4	ST	13		31.4	91	2840
	15.0	15						29.2	94	3490
	BOTTOM OF BORING									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

Calibrated Hand Penetrometer\*

WATER LEVEL OBSERVATIONS			<h1 style="font-size: 2em;">Terracon</h1>	BORING STARTED 10-2-89	
WL	▽ 13.5' W.S.	▽ 13.0' A.B.		BORING COMPLETED 10-2-89	
WL				RIG CME 55	FOREMAN RK
WL				APPROVED BEB	JOB # 02897029

# UNIFIED SOIL CLASSIFICATION SYSTEM

Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests<sup>A</sup>

			Soil Classification		
			Group Symbol	Group Name <sup>B</sup>	
Coarse-Grained Soils More than 50% retained on No. 200 sieve	Gravels More than 50% of coarse fraction retained on No. 4 sieve	Clean Gravels Less than 5% fines <sup>C</sup>	$Cu \geq 4$ and $1 \leq Cc \leq 3^E$	GW	Well-graded gravel <sup>F</sup>
			$Cu < 4$ and/or $1 > Cc > 3^E$	GP	Poorly graded gravel <sup>F</sup>
		Gravels with Fines More than 12% fines <sup>C</sup>	Fines classify as ML or MH	GM	Silty gravel <sup>F, G, H</sup>
	Sands 50% or more of coarse fraction passes No. 4 sieve	Clean Sands Less than 5% fines <sup>E</sup>	$Cu \geq 6$ and $1 \leq Cc \leq 3^E$	SW	Well-graded sand <sup>I</sup>
			$Cu < 6$ and/or $1 > Cc > 3^E$	SP	Poorly graded sand <sup>I</sup>
		Sands with Fines More than 12% fines <sup>D</sup>	Fines classify as ML or MH	SM	Silty sand <sup>G, H, I</sup>
		Fines classify as CL or CH	SC	Clayey sand <sup>G, H, I</sup>	
Fine-Grained Soils 50% or more passes the No. 200 sieve	Silt and Clays Liquid limit less than 50	Inorganic	$PI > 7$ and plots on or above "A" line <sup>J</sup>	CL	Lean clay <sup>K, L, M</sup>
			$PI < 4$ or plots below "A" line <sup>J</sup>	ML	Silt <sup>K, L, M</sup>
		organic	Liquid limit — oven dried < 0.75	OL	Organic clay <sup>K, L, M, N</sup>
			Liquid limit — not dried		Organic silt <sup>K, L, M, O</sup>
	Silt and Clays Liquid limit 50 or more	Inorganic	$PI$ plots on or above "A" line	CH	Fat clay <sup>K, L, M</sup>
			$PI$ plots below "A" line	MH	Elastic silt <sup>K, L, M</sup>
	organic	Liquid limit — oven dried < 0.75	OH	Organic clay <sup>K, L, M, P</sup>	
		Liquid limit — not dried		Organic silt <sup>K, L, M, O</sup>	
Highly organic soils	Primarily organic matter, dark in color, and organic odor			PT	Peat

<sup>A</sup>Based on the material passing the 3-in. (75-mm) sieve.

<sup>B</sup>If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.

<sup>C</sup>Gravels with 5 to 12% fines require dual symbols:  
GW-GM well-graded gravel with silt  
GW-GC well-graded gravel with clay  
GP-GM poorly graded gravel with silt  
GP-GC poorly graded gravel with clay

<sup>D</sup>Sands with 5 to 12% fines require dual symbols:  
SW-SM well-graded sand with silt  
SW-SC well-graded sand with clay  
SP-SM poorly graded sand with silt  
SP-SC poorly graded sand with clay

$$C_u = D_{60}/D_{10} \quad C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$$

<sup>E</sup>If soil contains  $\geq 15\%$  sand, add "with sand" to group name.

<sup>F</sup>If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.

<sup>G</sup>If fines are organic, add "with organic fines" to group name.

<sup>H</sup>If soil contains  $\geq 15\%$  gravel, add "with gravel" to group name.

<sup>I</sup>If Atterberg limits plot in shaded area, soil is a CL-ML, silty clay.

<sup>K</sup>If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel", whichever is predominant.

<sup>L</sup>If soil contains  $\geq 30\%$  plus No. 200 predominantly sand, add "sandy" to group name.

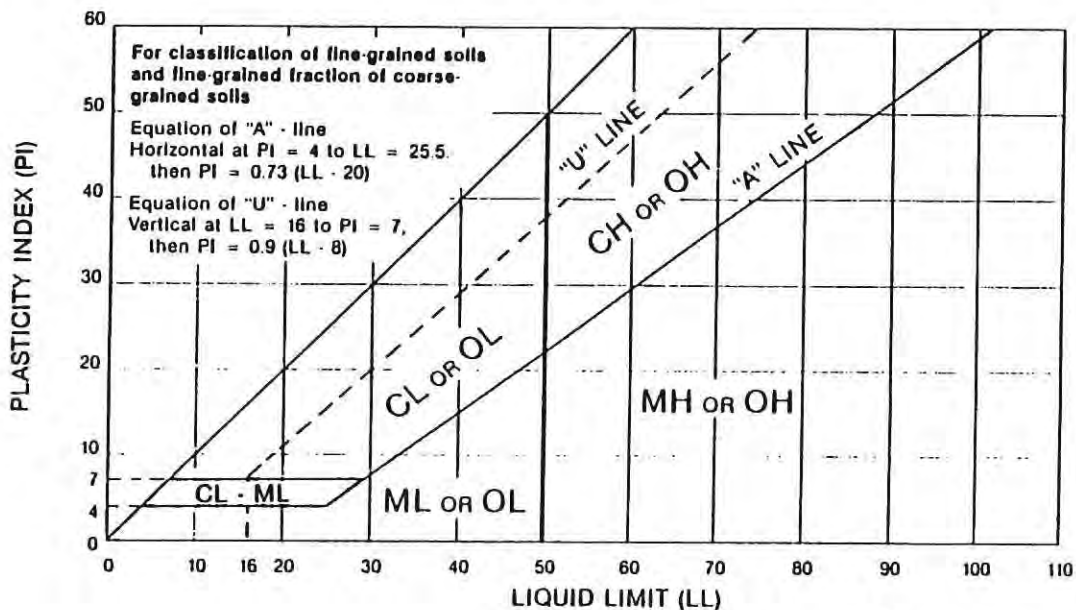
<sup>M</sup>If soil contains  $\geq 30\%$  plus No. 200, predominantly gravel, add "gravelly" to group name.

<sup>N</sup> $PI \geq 4$  and plots on or above "A" line.

<sup>O</sup> $PI < 4$  or plots below "A" line.

<sup>P</sup> $PI$  plots on or above "A" line.

<sup>Q</sup> $PI$  plots below "A" line.



# Terracon



**ENVIRONMENTAL ASSESSMENT - PHASE II  
PROPOSED SUPERMARKET SITE  
LEAVENWORTH, KANSAS**

**PROJECT NO. 50895161**

**DECEMBER 26, 1989**

**Terracon**

# Terracon

ENVIRONMENTAL, INC.

7810 N. W. 100th  
PO Box 901541  
Kansas City, Missouri 64190-1541  
(816) 891-7717

December 26, 1989

Mr. Bill White  
Four B Corporation  
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Kansas City, Kansas 66106

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Thomas E. Harvey

RE: Environmental Assessment - Phase II  
Proposed Supermarket Site  
Leavenworth, Kansas  
Project No. 50895161

Dear Mr. White:

Enclosed herein is Terracon Environmental's report on the shallow soils and groundwater assessment performed at the proposed Supermarket site located in Leavenworth, Kansas. This limited intrusive assessment was performed as a result of information obtained during a previous Phase I assessment of the site. The primary focus of this work was to assess subsurface conditions to help determine whether potential off-site contaminant sources may have adversely impacted the area of study.

We appreciate the opportunity to be of service to Four B Corporation on this project. If there are any questions concerning this report, or if we may be of further service to you, please do not hesitate to contact us at 816/891-7717.

Sincerely,

TERRACON ENVIRONMENTAL, INC.

*Melinda A. Tumbleson*

Melinda A. Tumbleson  
Project Geologist

*Robert L. Fine II*

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MAT/RLF:ro  
MT(28)B3

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Oklahoma: Oklahoma City, Tulsa

Environmental Engineers and Scientists

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- Appendix II Analytical Data

ENVIRONMENTAL ASSESSMENT - PHASE II  
PROPOSED SUPERMARKET SITE  
LEAVENWORTH, KANSAS  
PROJECT NO. 50895161

Terracon

## 1.0 INTRODUCTION

### 1.1 Background

This report presents the results of an intrusive environmental assessment of the tract of land located at the northeast corner of 4th and Marion Street in Leavenworth, Kansas. The assessment was completed in accordance with our proposal dated November 14, 1989.

### 1.2 Project Objective and Scope of Services

Information obtained during a Phase I environmental assessment of the subject property revealed that potential contaminant sources exist to the north, east and southeast of the site. As such, the intrusive assessment activities were designed to assess for potential shallow soil and groundwater contamination on the site as a result of possible migration from these off-site sources. The scope of work for this assessment included the following activities:

- ° installation of six groundwater monitor wells located along the perimeter of the property;
- ° field characterization of soil samples collected from each of the six monitor well boring locations;
- ° laboratory analysis of shallow soil samples collected from two monitor well boring locations;
- ° laboratory analysis of groundwater collected from the monitor well locations;
- ° collection of three discrete shallow soil samples along the east property line for total petroleum hydrocarbon and lead analysis; and,
- ° a final report detailing the work performed and summarizing the results.

## 2.0 SITE DESCRIPTION

Two houses, a furniture store and two small sheds are located on the site. However, the subject property is primarily undeveloped with a majority of the site being tree and grass covered. An unimproved road, referred to as Third Street, runs through the center of the site allowing access to properties to the north. An abandoned railroad line is evident running along the east side of Third Street. Attached as Figure 1 is a site diagram.

The property slopes very gradually from the west to the east with approximately a six foot drop in elevation across the site. Surface drainage is generally to the east toward Five Mile Creek. Where the site is divided by 3rd Street, drainage is directed south toward Marion Street.

### 2.1 General Area

Adjacent properties to the north of the site include Great Western Manufacturing, GNB Batteries, and the Leavenworth Service Center (former landfill). Property to the east and the southeast is occupied by an auto salvage yard, and automobile repair shops are located south of the property. To the west of the site, across Fourth Street, are light commercial and residential properties. A more detailed discussion of the surrounding area, including a review of historical site ownership, environmental regulatory correspondence and site photographs are contained in the initial Phase I assessment report issued on October 27, 1989.

### 3.0 SOILS EXPLORATION

Based on the information obtained during the Phase I assessment of the property regarding potential off-site contaminant sources, Terracon Environmental conducted a limited scope soils exploration along the east property line and near the northeast corner of the site. This was performed in an effort to identify possible lead and/or petroleum contamination. As was reported in the Phase I assessment dated October 27, 1989, it is Terracon's understanding that underground fuel storage tanks on the Leavenworth Service Center property previously leaked an undetermined amount of gasoline. For this reason, and due to the long history of auto salvage activities east of the property, the soils exploration was conducted in this area.

#### 3.1 Shallow Soils Sampling and Analysis

Three discrete shallow soil samples were collected on November 20, 1989, near what is considered the eastern property line. The samples were collected from a depth of approximately 2 feet below surface at three discrete locations along the east side of the fence bordering the auto salvage yard.

The samples were collected using a hand auger sampler which was cleaned with an Alconox detergent wash and rinse between borings to help prevent cross contamination. Laboratory analysis did not reveal total petroleum hydrocarbon levels in either of the three samples above a detection limit of 50 parts per million (ppm). Total lead was detected at concentrations of approximately 20 ppm in each of the three samples. Typical background levels for lead

in this area are between 15 and 70 ppm<sup>1</sup>; therefore, these concentrations can be considered in the typically observed range.

### 3.2 MW-3 and MW-4 Soils Sampling and Analysis

In an effort to identify shallow petroleum hydrocarbon contamination near the location of the underground fuel storage tanks on the Leavenworth Service Center property, soil samples were collected from the MW-3 and MW-4 boring locations. A discrete soil sample was collected from each boring at the 3 foot below surface depth and submitted to the laboratory for total petroleum hydrocarbon (TPH) analysis.

The results indicate TPH at a concentration of 140 ppm in the 3 foot depth sample from MW-3, and 260 ppm in the 3 foot depth sample from MW-4. These elevated levels in the shallow soils may be the result of previous gasoline spillage associated with fuel loading practices, and in part may be attributed to degradation of organic matter contained in the fill material in this boring. It is important to note that no volatile organic constituents of gasoline (i.e. benzene, toluene, and ethylbenzene) were detected in a previous composite soil sample collected from this area during the Phase I assessment. Also, the results of the groundwater sample collected from MW-3 and MW-4 did not detect the presence of benzene, toluene or xylene. Although the concentrations of TPH detected in the 3 foot soil samples from MW-3 and MW-4 are above what would be considered typical background concentrations, an evaluation of all the data does not suggest that this is indicative of a serious or widespread environmental concern.

<sup>1</sup> Jon J. Connor and Hansford T. Shacklette, Background Geochemistry of Some Rocks, Soils, Plants and Vegetables in the Conterminous United States, (Washington, 1975) p. F84.



#### 4.0 GROUNDWATER EXPLORATION

To assess groundwater quality at the site, Terracon conducted an intrusive exploration along the perimeter of the property. The intrusive assessment consisted of the drilling and installation of six monitor wells along the perimeter of the site to better determine whether potential off-site contaminant sources may have impacted the subject property. Three wells were installed along the north property line, two wells were installed along the east property line and one well was installed near the southwest corner of the property. See Figure 1 for monitor well locations.

#### 4.1 Drilling Activities

Terracon Environmental installed six groundwater monitor wells at the site on November 20 and 21, 1989. Field operations for the drilling phase of the monitor well installation was performed by a three-man drill crew using hollow stem augers and a rotary drill rig. Prior to the exploration, the working end of the rig was detergent washed using a high pressure, hot water sprayer. During drilling, lead augers and downhole sampling equipment were cleaned between borings to reduce the potential for cross contamination.

The strata was field logged based upon visual classification. The soils encountered in the boreholes consisted primarily of clay and silty clay, with fill material noted in borings MW-3, MW-4 and MW-5. The fill material was presumably used to backfill the former Five Mile Creek channel which, prior to 1968, looped to the west of its present course and across the northeast portion of the



property. At the time of drilling, water was observed in all six borings. In MW-1 and MW-5, water was detected at approximately 18 feet below surface. In MW-2, MW-3, MW-4 and MW-6 water was detected at approximately 13 feet below surface. Boring logs are attached as Appendix I.

#### 4.2 Field Characterization

During drilling, soil samples were collected from each boring at approximately the 3 foot and 10 foot depth, where possible, for field screening. Samples were placed in one-quart glass jars approximately one-half full, covered with aluminum foil, and allowed to volatilize at ambient conditions for a minimum of fifteen minutes. A photoionization detector (PID) was then used to analyze air contained in the headspace of the jar for chemical contamination. The PID is an instrument used to provide field characterization for the limited quantitative identification of a broad range of organic vapors based upon a relative instrument standard.

Readings from the PID for samples across the site did not exceed 0.7 ppm, except for the 3 foot sample collected from MW-3 which registered a level of just less than 200 ppm. No sample was recovered at the 10 foot depth while drilling MW-3 due to fill material which plugged the continuous sampling equipment. The elevated headspace reading in this boring is consistent with an organic odor noted during drilling. No other elevated readings were detected with the PID during field characterization of the soils.

It is also important to note that field characterization did not reveal elevated volatiles contamination (benzene, toluene, xylene) in any of the samples collected from this general area during the previous Phase I assessment work.

#### 4.3 Well Installation and Development

The well materials consist of two-inch nominal diameter, Schedule 40 PVC, flush-jointed, threaded pipe. Factory slotted 0.01 inch well screen was installed at the bottom of each borehole and extended to intersect the water table based upon water levels encountered during drilling. A 15 foot section of slotted screen was used for MW-2 and MW-5, and a 20 foot section of slotted screen was used for MW-1, MW-3, MW-4 and MW-6. Solid stem PVC riser pipe was attached to each of the screened sections and extended approximately 2.5 feet above ground surface.

The borehole annulus was packed with a fine sand from the bottom of the borehole to a point approximately one foot above the slotted well screen. An approximate one to two foot thick layer of hydrated bentonite pellets was installed in the borehole annulus above the sand pack. The remaining annulus was filled to ground surface with a cement/bentonite grout mixture. Upon completion, the well heads were secured within protective metal casings which rise approximately 3 feet above ground surface, and locked with keyed-alike padlocks. Figure 2 shows a typical monitor well design. Specific well diagrams for MW-1 through MW-6 are included on the boring logs in Appendix II.

Well development was performed by Terracon Environmental personnel using individual disposable bailers. The wells were considered developed when approximately three standing water volumes were removed from each casing. Development fluids were not collected.

#### 4.4 Sampling Procedures and Analysis

Groundwater samples were collected from the monitor wells on November 24, 1989. The samples were obtained using individual disposable bailers and placed in preserved sample containers. The samples were cooled, packaged, and shipped via Federal Express to Continental Analytical Services in Salina, Kansas. Samples obtained from monitor wells 1 through 5 were analyzed for benzene, toluene and xylene (BTX). Additionally, samples collected from monitor wells MW-1, MW-2, MW-3 and MW-5 were analyzed for total lead.

The BTX and lead analyses were designed to identify potential migration of petroleum products and/or lead from sources to the north and east (i.e. GNB Batteries, City Maintenance Garage, Auto Salvage Yard). Samples collected from monitor wells MW-3, MW-4, MW-5 and MW-6 were subjected to a survey search for extractable compounds (semi-volatile compounds) and volatile organic compounds. This analysis is designed to identify organic compounds present as a result of former landfill activities adjacent to the site and fill material on the property. Finally, samples collected from monitor wells MW-4 and MW-6 were analyzed for the 13 priority pollutant metals. Elevated metals concentrations could be expected due to landfill and salvage yard activities, as well as other nearby industrial sites.

#### 4.5 Analytical Results

Analytical results for MW-1, MW-2, MW-3 and MW-5 revealed no detectable concentrations of benzene, toluene, xylene or total lead. Also, results for MW-3, MW-5 and MW-6 identified no volatile or semi-volatile compounds above a detection limit of approximately 5 parts per billion (ppb).

The concentrations of metals detected in MW-6 were either at the detection limit or below detection limits. However, the analytical results for MW-4 revealed elevated levels of some metals, compared to the results for MW-6, and a concentration of 18 ppb for an unidentified semi-volatile compound found to be present during the survey search analyses. In some instances, the concentrations of metals are above those established as maximums for drinking water standards. The table below lists the metals concentrations in mg/l or part per million (ppm) for MW-4 and MW-6, and includes their respective National Drinking Water Standard.

	<u>MW-4</u>	<u>MW-6</u>	<u>*National Drinking Water Standards</u>
Arsenic	0.06	<0.01	0.05
Cadmium	0.97	<0.01	0.010
Chromium	0.17	<0.04	0.05
Copper	0.52	<0.05	1.0
Lead	3.0	<0.003	0.05
Nickel	0.28	<0.05	---
Zinc	7.45	0.01	5.0

\* Reference: 40 CFR 141 and 143

The metals results from MW-4 suggest that there has been some impact to the groundwater in this vicinity. The probable source or sources are the former landfill to the north of the site and the auto salvage yard to the east. An EPA study conducted in 1984 of the former landfill site involved analytical testing of water from nearby Five Mile Creek. (The creek runs to the east of the former landfill and the salvage yard.) Results of the EPA study found that elevated metals concentrations were present in Five Mile Creek, and that this may be due in part to the former

landfill, the auto salvage yard and/or other industrial properties in the area. EPA concluded in their study of 1984, that the former landfill site 'poses no threat to the surrounding environment.'

The metals concentrations detected during our assessment were found to be less than those reported by EPA during their nearby study. Although the metals concentrations from MW-4 are elevated with respect to what may be considered typical of groundwater in the area (as indicated by the analytical results from MW-6), the groundwater at this location is not utilized as a drinking water source.

#### 5.0 SUMMARY AND CONCLUSIONS

No indication of petroleum-based contamination was detected in the shallow groundwater as a result of sampling for benzene, toluene and xylene. Additionally, the results of screening for a broad range of volatile and extractable compounds via a mass spectral survey search found nothing which would indicate a serious or widespread environmental contamination problem exists in the shallow groundwater at this site.

Analysis of shallow soils from MW-3 and MW-4 indicate that a localized area of relatively low-level petroleum hydrocarbon contamination may exist near the northeast portion of the property. However, the concentrations detected do not suggest that a serious or widespread environmental concern exists.

Based upon a review of the analytical data which has been collected by both EPA and Terracon, it appears that off-site contaminant sources may have impacted the shallow groundwater

near the northeast portion of the subject property. Elevated levels of certain metals detected in MW-4 are above National Drinking Water Standards; however, at this time the groundwater at this location is not utilized as a drinking water source. An EPA study performed in 1984, found elevated levels of aluminum, barium, copper, iron, lead magnesium, manganese, mercury, nickel and vanadium in the Five Mile Creek samples downstream of the former landfill and auto salvage yard properties. The EPA study concluded that based on the analytical results from samples collected from Five Mile Creek, no threat to the surrounding environment is expected. Terracon recommends that the monitor wells be retained at this site to provide sampling points should future groundwater monitoring be desired.

#### 6.0 GENERAL COMMENTS

The analysis and comments presented in this final report are based upon data obtained from the shallow soil and groundwater assessment activities performed as part of the work scope, and other information collected by Terracon as described herein. Please note that this report does not reflect any variations of subsurface stratigraphy or environmental contamination which may exist between borings or across the site. Actual subsurface conditions may vary, and the extent of such variations may not become evident without further investigation. If variations appear evident, it will be necessary to reevaluate the comments contained in this report.

This report is prepared in accordance with generally accepted engineering practices within the constraints of the client's directives. The report is intended for the



exclusive use of the client for specific application to the assessed property. No other warranty is expressed or implied.

December 26, 1989  
Proposed Supermarket Site  
Project No. 50895161

Terracon

**FIGURES**

**MT(28)B3**



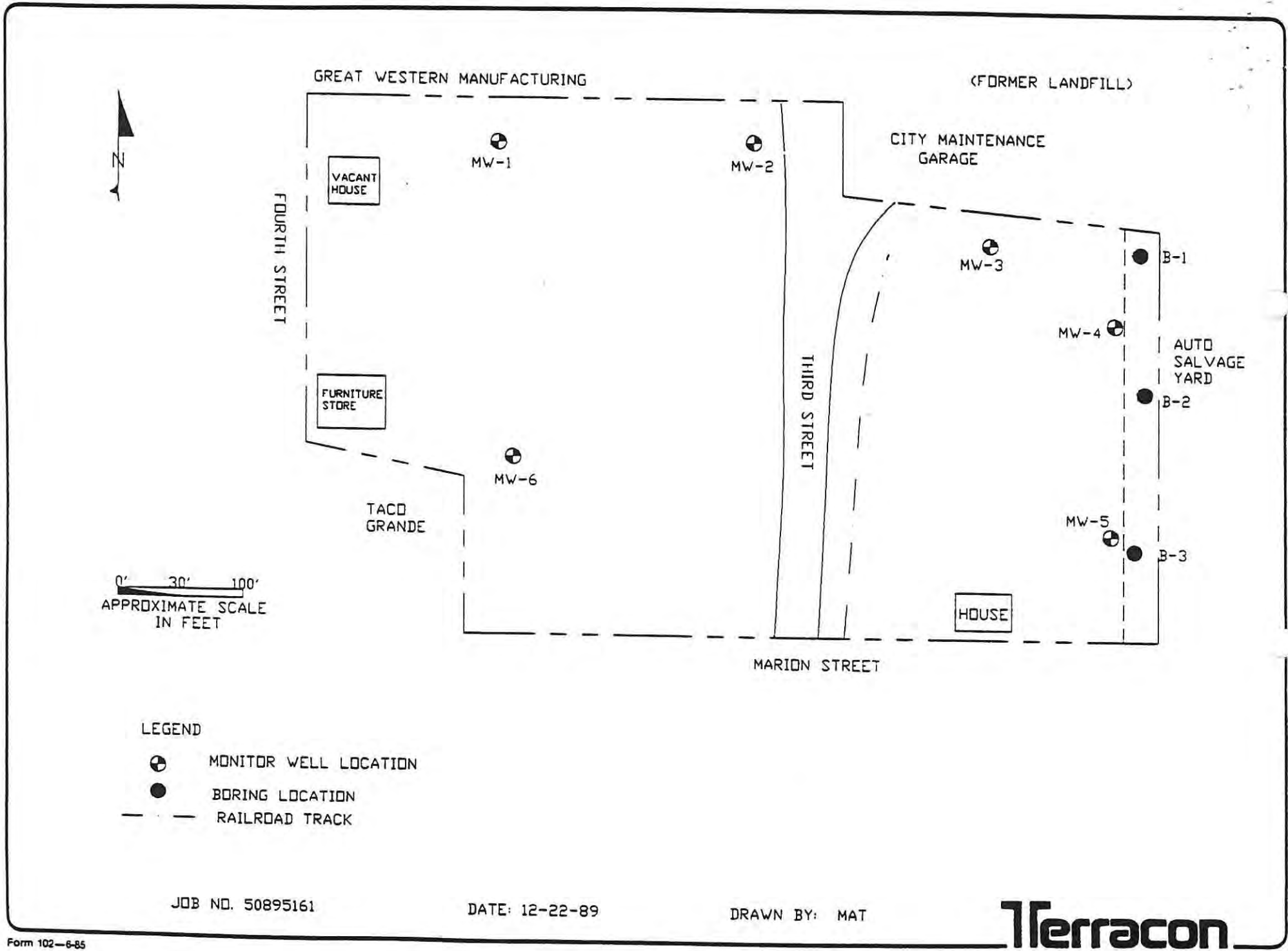
December 26, 1989  
Proposed Supermarket Site  
Project No. 50895161

Terracon

**FIGURE 1**




**Well Location Diagram**

**MT(28)B3**



0' 30' 100'  
 APPROXIMATE SCALE  
 IN FEET

LEGEND

-  MONITOR WELL LOCATION
-  BORING LOCATION
-  RAILROAD TRACK

JOB NO. 50895161

DATE: 12-22-89

DRAWN BY: MAT

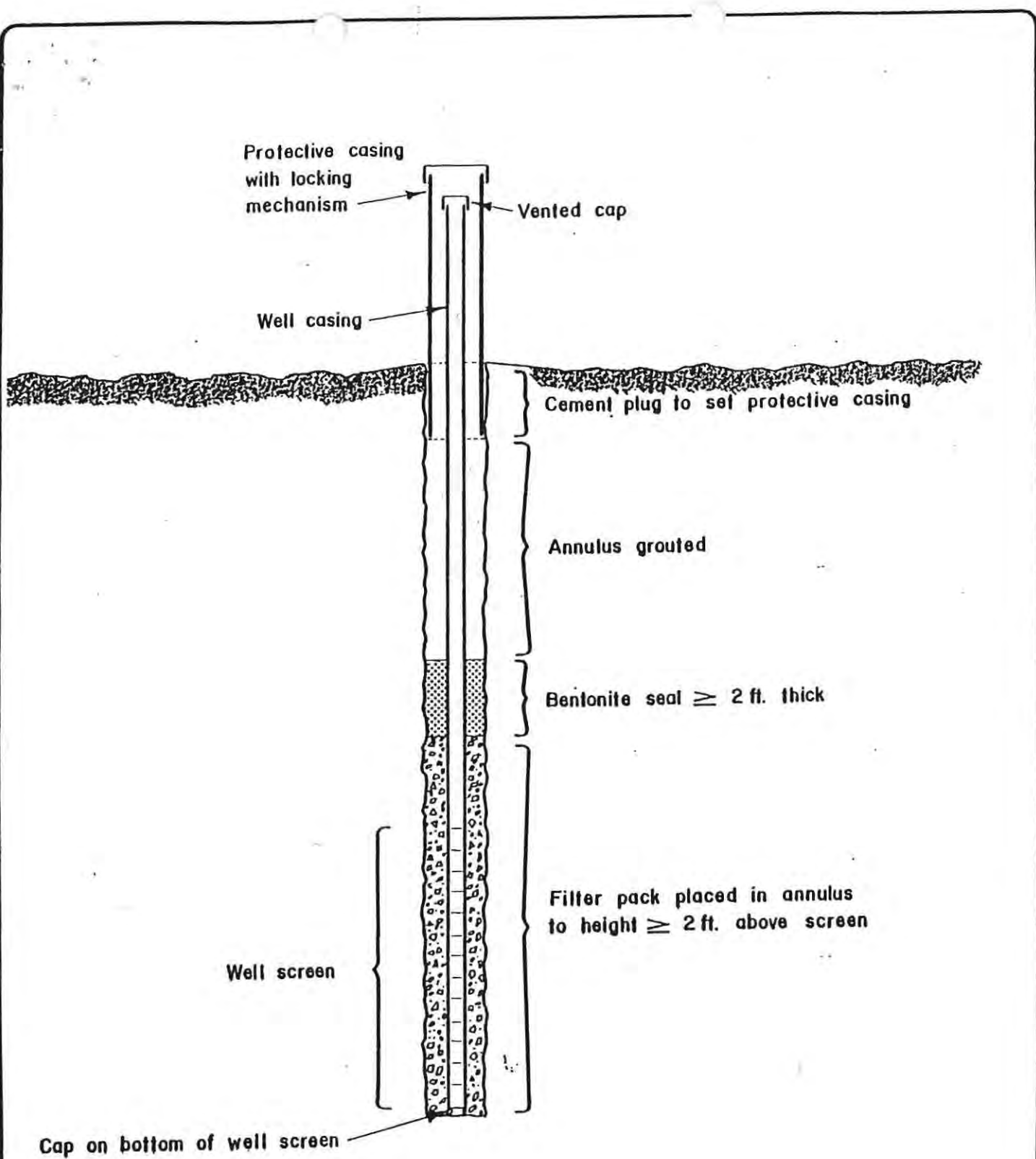
**Terracon**

December 26, 1989  
Proposed Supermarket Site  
Project No. 50895161

Terracon

**FIGURE 2**

**Monitor Well Design**



NOT TO SCALE

**Terracon**

December 26, 1989  
Proposed Supermarket Site  
Project No. 50895161

Terracon

APPENDIX I

Boring Logs

MT(28)B3

# LOG OF BORING NO. MW-1

OWNER		ARCHITECT/ENGINEER							
SITE <b>4th and Marlon Leavenworth, Kansas</b>		PROJECT <b>Supermarket</b>							
GRAPHIC LOG	DESCRIPTION	WELL DETAIL	DEPTH (FT.)	SAMPLES			TESTS		
				USCS SYMBOL	NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %
	TOP OF PROTECTOR PIPE: 784.9 ft TOP OF CASING: ft GROUND SURFACE ELEV.: 782.0 ft								
0.2	Topsoil	781.8		1	CS	3.0			Boring advanced with 4 1/4" HSA
5.4	<b>VERY SILTY CLAY</b> , weak thread, low plasticity, black, no odor, dry, to moist, medium to stiff, blocky very stiff at 4.8'	776.6	5	2	CS	5.0			
	<b>SILTY CLAY</b> , medium thread, medium plasticity, brown to yellow brown, no odor, damp, soft, blocky becoming moist, high plasticity, mottled red, black		10	3	CS	5.0			
	becoming wet at 18', soft, high plasticity, no odor becoming gray, wet, medium to stiff saturated at 22'		15	4	CS	5.0			
24.2		757.8	20	5	CS	5.0			
BOTTOM OF BORING									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

BOREHOLE DIA.: 4.2 in  
WELL DIA.: 2 in      Lock Provided


WATER LEVEL OBSERVATIONS			
WL	▽ 18.5	WS	▽ 11.74      AB
WL			
WL			

## Terracon

BORING STARTED	11-21-89
BORING COMPLETED	11-21-89
RIG	FOREMAN      MAT
APPROVED	JOB #      50895161



# LOG OF BORING NO. MW-2

OWNER		ARCHITECT/ENGINEER								
SITE <b>4th and Marlon Leavenworth, Kansas</b>		PROJECT <b>Supermarket</b>								
GRAPHIC LOG	DESCRIPTION	WELL DETAIL	DEPTH (FT.)	SAMPLES			TESTS			
	TOP OF PROTECTOR PIPE: 781.87 ft TOP OF CASING: _____ ft GROUND SURFACE ELEV.: 778.9 ft			USCS SYMBOL	NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %	FIELD VAPOR TESTS
	0.2 Topsoil 778.7				1	CS	1.0			Boring advanced with 4 1/4" HSA
	5.5 VERY SILTY CLAY, weak thread, low plasticity, black, no odor, dry, soft, blocky 773.4		5		2	CS	5.0			
	SILTY CLAY, medium thread, low plasticity, brown, no odor, damp, stiff to very stiff, blocky becoming yellow-brown at 10' with $\nabla$ black and red staining, medium to high plasticity wet to saturated at 13.5' becoming gray $\nabla$		10		3	CS	4.3			
19.3 759.6		15		4	CS	5.0				
BOTTOM OF BORING										

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL. BOREHOLE DIA.: 4.2 in  
WELL DIA.: 2 in **Lock Provided**

WATER LEVEL OBSERVATIONS			
WL $\nabla$ 13.5	WS $\nabla$ 11.36	AB	
WL			
WL			

Terracon

BORING STARTED		11-21-89
BORING COMPLETED		11-21-89
RIG	FOREMAN MAT	
APPROVED	JOB # 50895161	

# LOG OF BORING NO. MW-3

OWNER		ARCHITECT/ENGINEER								
SITE <b>4th and Marlon Leavenworth, Kansas</b>		PROJECT <b>Supermarket</b>								
GRAPHIC LOG	DESCRIPTION	WELL DETAIL	DEPTH (FT.)	SAMPLES				TESTS		
				USCS SYMBOL	NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %	FIELD VAPOR TESTS
	TOP OF PROTECTOR PIPE: 779.1 ft TOP OF CASING: 776.0 ft GROUND SURFACE ELEV.: 776.0 ft									
	FILL, silty clay, red-brown to brown, no odor, dry, firm, trace bricks, gravel, roots, glass				1	CS	1.2			Boring advanced with 4 1/4" HSA
	olive-brown to red brown		5		2	CS	1.4			
			10		3	CS	0.0			
	black, wet, organic odor		15		4	CS	3.0			
	17.0 759.0		20		5	CS	3.1			
	SILTY CLAY, medium thread, green-brown, organic odor, wet, soft, trace sand									
	24.3 751.7									
	becoming firm to stiff, black with yellow staining, no odor									
	BOTTOM OF BORING									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

BOREHOLE DIA.: 4.2 in  
WELL DIA.: 2 in      Lock Provided

WATER LEVEL OBSERVATIONS			
WL	▽ 13.0	WS	▽ 13.78 AB
WL			
WL			



BORING STARTED	11-21-89
BORING COMPLETED	11-21-89
RIG	FOREMAN MAT
APPROVED	JOB # 50895161




# LOG OF BORING NO. MW-4

OWNER		ARCHITECT/ENGINEER								
SITE <b>4th and Marlon Leavenworth, Kansas</b>		PROJECT <b>Supermarket</b>								
GRAPHIC LOG	DESCRIPTION	WELL DETAIL	DEPTH (FT.)	SAMPLES		TESTS				
				USCS SYMBOL	NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %	FIELD VAPOR TESTS
	TOP OF PROTECTOR PIPE: 778.6 ft TOP OF CASING: _____ ft GROUND SURFACE ELEV.: 775.6 ft	[Diagram showing casing and well details]								
	<b>FILL, silty clay, stiff, yellow-brown, no odor, dry, trace stone, brick</b>	[Diagram showing fill layer]			1	CS	1.2			
	becoming moist at 8.5'		5		2	CS	0.5			
	saturated at 12', black, no odor, weak thread, soft	[Diagram showing saturation level]	10		3	CS	1.5			
	trace sand, plastic, metal wire, brick, stone		15		4	CS	2.0			
			20		5	CS	1.3			
	23.0 752.6 24.0 751.6									
	<b>SILTY CLAY, trace sand, medium thread, olive green, wet to saturated</b>									
	BOTTOM OF BORING									

Boring advanced with 4 1/4" HSA

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.			BOREHOLE DIA.: 4.2 in WELL DIA.: 2 in		Lock Provided
WATER LEVEL OBSERVATIONS			BORING STARTED		11-20-89
WL	▽ 12.0	WS	▽ 13.5	AD	BORING COMPLETED
WL					11-20-89
<b>Terracon</b>			RIG	FOREMAN MAT	
APPROVED			JOB # 50895161		

# LOG OF BORING NO. MW

OWNER		ARCHITECT/ENGINEER									
SITE <b>4th and Marlon Leavenworth, Kansas</b>		PROJECT <b>Supermarket</b>									
GRAPHIC LOG	DESCRIPTION	WELL DETAIL	DEPTH (FT.)	SAMPLES			TESTS				
	TOP OF PROTECTOR PIPE: 779.44 ft TOP OF CASING: ft GROUND SURFACE ELEV.: 776.7 ft			USCS SYMBOL	NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %	FIELD VAPOR TESTS	
12.0	764.7				1	CS	1.8			Boring advanced with 4 1/4" HSA	
FILL, stiff, brown, dry to damp, trace brick, shale											
			5		2	CS	0.0				
			10		3	CS	2.5				
			15		4	CS	4.5				
			20		5	CS	4.5				
			25		6	CS	5.0				
29.5	747.2										
BOTTOM OF BORING											

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.

BOREHOLE DIA.: 4.2 in  
WELL DIA.: 2 in      Lock Provided

WATER LEVEL OBSERVATIONS			
WL	▽ 17.0	WS	▽ 17.64      AB
WL			
WL			

## Terracon

BORING STARTED	11-20-89
BORING COMPLETED	11-20-89
RIG	FOREMAN      MAT
APPROVED	JOB # 50895161



# LOG OF BORING NO. MW-3

OWNER		ARCHITECT/ENGINEER							
SITE <b>4th and Marlon Leavenworth, Kansas</b>		PROJECT <b>Supermarket</b>							
GRAPHIC LOG	DESCRIPTION	WELL DETAIL	DEPTH (FT.)	SAMPLES			TESTS		
				USCS SYMBOL	NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %
	TOP OF PROTECTOR PIPE: 783.9 ft TOP OF CASING: _____ ft GROUND SURFACE ELEV.: 781.0 ft								
0.3	Topsoil		780.7		1	CS	1.0		Boring advanced with 4 1/4" HSA
	<b>VERY SILTY CLAY</b> , stiff, brown, blocky structure, no odor, low plasticity		5		2	CS	5.0		
	becoming to olive to gray-brown		10		3	CS	5.0		
12.0			769.0						
	<b>SILTY CLAY</b> , gray-brown with yellow and black staining, moist to damp		15		4	CS	0.0		
	saturated at 20.5', olive-green		20		5	CS	5.0		
24.6	becomes stiff to very stiff at 23.5' moist to wet, blocky		756.4						
	BOTTOM OF BORING								

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRADUAL.			BOREHOLE DIA: 4.2 in WELL DIA: 2 in		Lock Provided
WATER LEVEL OBSERVATIONS			BORING STARTED		11-21-89
WL	▽ 12.5	WS	▽ 11.9	AB	BORING COMPLETED
WL		WL			11-21-89
WL					RIG
					FOREMAN MAT
					APPROVED
					JOB # 50895161



December 26, 1989  
Proposed Supermarket Site  
Project No. 50895161

Terracon

**APPENDIX II**

**Analytical Data**

**MT(28)B3**

CONTINENTAL ANALYTICAL SERVICES, INC.

1804 GLENDALE - SALINA, KANSAS 67401 - (913)827-1273

LABORATORY REPORT

PAGE: 1

CLIENT: TERRACON CONSULTANTS INC.  
 ATTN: MELINDA TUMBLESON  
 P.O. BOX 901541  
 KANSAS CITY, MO 64190-1541

DATE SAMPLE RPTD: 12/13/89  
 DATE SAMPLE RECD: 11/25/89  
 CAS FILE NO: 89-5018  
 CAS ORDER NO: 2660  
 CLIENT P.O.: 50895161

LAB NUMBER: 89110861  
 SAMPLED DESCRIPTION: MW-1

DATE SAMPLED: 11/24/89  
 TIME SAMPLED: 1500

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
BENZENE, TOLUENE, XYLENE			/
XYLENE	ND(1.0)	UG/L	150/18
TOLUENE	ND(1.0)	UG/L	150/18
BENZENE	ND(1.0)	UG/L	150/18
LEAD, TOTAL	ND(0.003)	MG/L	109/97

CONCLUSION OF LAB NUMBER: 89110861

LAB NUMBER: 89110862  
 SAMPLE DESCRIPTION: MW-2

DATE SAMPLED: 11/24/89  
 TIME SAMPLED: 1500

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
BENZENE, TOLUENE, XYLENE			/
XYLENE	ND(1.0)	UG/L	150/19
TOLUENE	ND(1.0)	UG/L	150/19
BENZENE	ND(1.0)	UG/L	150/19
LEAD, TOTAL	ND(0.003)	MG/L	109/97

CONCLUSION OF LAB NUMBER: 89110862

LAB NUMBER: 89110863  
 SAMPLE DESCRIPTION: MW-3

DATE SAMPLED: 11/24/89  
 TIME SAMPLED: 1500

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
BENZENE, TOLUENE, XYLENE			/
XYLENE	ND(1.0)	UG/L	150/21

-CONTINUED-

CONTINENTAL ANALYTICAL SERVICES, INC.

LABORATORY REPORT

PAGE: 2

CLIENT: TERRACON CONSULTANTS INC.  
LAB NUMBER: 89110863

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
TOLUENE	ND(1.0)	UG/L	150/21
BENZENE	ND(1.0)	UG/L	150/21
VOLATILE SURVEY SEARCH	*SEE NOTE		145/11
EXTRACTABLE SURVEY SEARCH	**SEE NOTE		119/54
LEAD, TOTAL	ND(0.0030)	MG/L	109/97

\*NO VOLATILE COMPOUNDS DETECTED GREATER THAN APPROXIMATELY 5 UG/L.

\*\*NO SEMIVOLATILE COMPOUNDS DETECTED GREATER THAN APPROXIMATELY 5 UG/L.

CONCLUSION OF LAB NUMBER: 89110863

LAB NUMBER: 89110864  
SAMPLE DESCRIPTION: MW-4

DATE SAMPLED: 11/24/89  
TIME SAMPLED: 1500

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
BENZENE, TOLUENE, XYLENE			/
XYLENE	ND(1.0)	UG/L	150/23
TOLUENE	ND(1.0)	UG/L	150/23
BENZENE	ND(1.0)	UG/L	150/23
VOLATILE SURVEY SEARCH	*SEE NOTE		145/11
EXTRACTABLE SURVEY SEARCH	**SEE NOTE		119/54
ANTIMONY, TOTAL	ND(0.05)	MG/L	85 /46
ARSENIC, TOTAL	0.06	MG/L	120/72
BERYLLIUM, TOTAL	ND(0.01)	MG/L	106/20
CADMIUM, TOTAL	0.07	MG/L	142/38
CHROMIUM, TOTAL	0.17	MG/L	138/51
COPPER, TOTAL	0.52	MG/L	83 /61
LEAD, TOTAL	3.0	MG/L	109/98
MERCURY, TOTAL	ND(0.0002)	MG/L	125/50
NICKEL, TOTAL	0.28	MG/L	79 /70
SELENIUM, TOTAL	ND(0.005)	MG/L	139/38
SILVER, TOTAL	ND(0.02)	MG/L	134/47
THALLIUM, TOTAL	ND(0.01)	MG/L	84 /37
ZINC, TOTAL	7.45	MG/L	82 /67

-CONTINUED-

CONTINENTAL ANALYTICAL SERVICES, INC.

LABORATORY REPORT

PAGE: 3

CLIENT: TERRACON CONSULTANTS INC.  
LAB NUMBER: 89110864

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
----------	---------------	-------	-----------

\*NO VOLATILE COMPOUNDS DETECTED GREATER THAN APPROXIMATELY 5 UG/L.

\*\*THE SAMPLE CONTAINED ONE SEMI-VOLATILE COMPOUND WHICH THE NBS MASS SPECTRAL LIBRARY COULD NOT IDENTIFY AT AN APPROXIMATE CONCENTRATION OF 18 UG/L. SEE ATTACHED MASS SPECTRA AND LIBRARY SEARCH RESULTS FOR THIS COMPOUND.

CONCLUSION OF LAB NUMBER: 89110864

LAB NUMBER: 89110865  
SAMPLE DESCRIPTION: MW-5

DATE SAMPLED: 11/24/89  
TIME SAMPLED: 1500

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
BENZENE, TOLUENE, XYLENE			/
XYLENE	ND(1.0)	UG/L	150/25
TOLUENE	ND(1.0)	UG/L	150/25
BENZENE	ND(1.0)	UG/L	150/25
VOLATILE SURVEY SEARCH	*SEE NOTE		145/11
EXTRACTABLE SURVEY SEARCH	**SEE NOTE		119/54
LEAD, TOTAL	ND(0.003)	MG/L	109/97

\*NO VOLATILE COMPOUNDS DETECTED GREATER THAN APPROXIMATELY 5 UG/L.

\*\*NO SEMIVOLATILE COMPOUNDS DETECTED GREATER THAN APPROXIMATELY 5 UG/L.

CONCLUSION OF LAB NUMBER: 89110865

LAB NUMBER: 89110866  
SAMPLE DESCRIPTION: MW-6

DATE SAMPLED: 11/24/89  
TIME SAMPLED: 1500

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
VOLATILE SURVEY SEARCH	*SEE NOTE		145/11
EXTRACTABLE SURVEY SEARCH	**SEE NOTE		119/54
ANTIMONY, TOTAL	ND(0.05)	MG/L	85 /46

-CONTINUED-



CONTINENTAL ANALYTICAL SERVICES, INC.

LABORATORY REPORT

PAGE: 4

CLIENT: TERRACON CONSULTANTS INC.  
LAB NUMBER: 89110866

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
ARSENIC, TOTAL	ND(0.01)	MG/L	120/71
BERYLLIUM, TOTAL	ND(0.01)	MG/L	106/20
CADMIUM, TOTAL	ND(0.01)	MG/L	142/38
CHROMIUM, TOTAL	ND(0.04)	MG/L	138/51
COPPER, TOTAL	ND(0.05)	MG/L	83 /61
LEAD, TOTAL	ND(0.003)	MG/L	109/97
MERCURY, TOTAL	ND(0.0002)	MG/L	125/50
NICKEL, TOTAL	ND(0.05)	MG/L	79 /70
SELENIUM, TOTAL	ND(0.005)	MG/L	139/38
SILVER, TOTAL	ND(0.02)	MG/L	134/37
THALLIUM, TOTAL	ND(0.01)	MG/L	84 /37
ZINC, TOTAL	0.02	MG/L	82 /67

\*NO VOLATILE COMPOUNDS DETECTED GREATER THAN APPROXIMATELY 5 UG/L.

\*\*NO SEMIVOLATILE COMPOUNDS DETECTED GREATER THAN APPROXIMATELY 5 UG/L.

CONCLUSION OF LAB NUMBER: 89110866

ND(), WHERE NOTED, INDICATES NONE DETECTED WITH THE DETECTION LIMIT IN PARENTHESES. % REC INDICATES % RECOVERED AT THE INDICATED CONCENTRATION.

QUALITY CONTROL ANALYSES WERE PERFORMED ON SAMPLES AT TIME OF ANALYSIS IN ACCORDANCE WITH PROCEDURES PUBLISHED IN THE CODE OF FEDERAL REGULATIONS PART 136, JULY 1, 1986 OR IN EPA PUBLICATION, SW-846, 3RD EDITION, NOV. 1986.

SAMPLES WILL BE RETAINED FOR 30 DAYS UNLESS OTHERWISE NOTIFIED.

CONTINENTAL ANALYTICAL SERVICES, INC.



CLIFFORD J. BAKER  
LABORATORY DIRECTOR



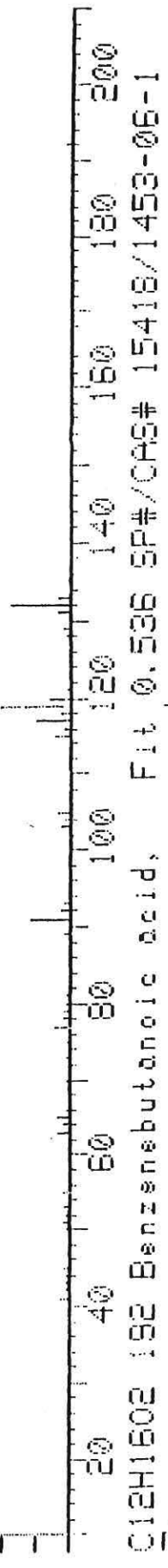


NIH/EPP Forward Library Search  
Injection Date: 11-DEC-89 Time: 15:48:55  
Filename: AEN11A03  
Comments:

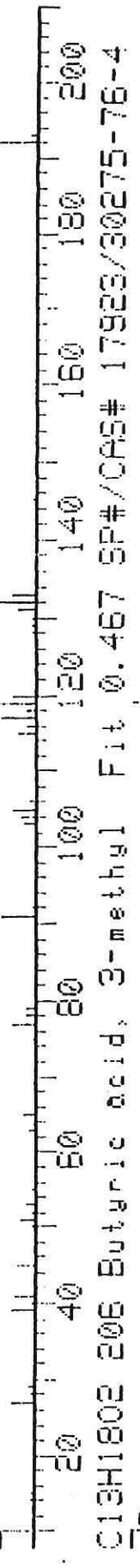
IIC = 147781  
100% = 47851

RUN # 03 USING METHOD SY:AEN.MTH

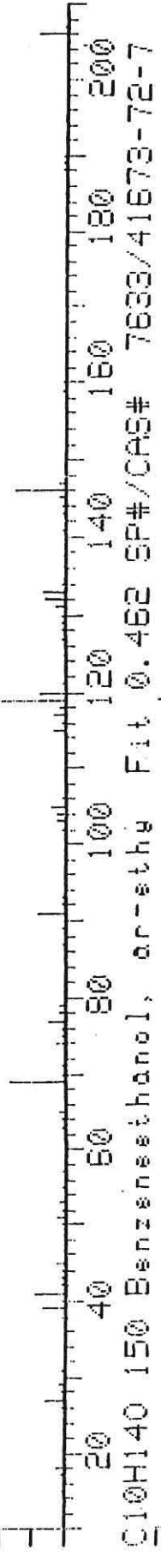
SCANS: 837-837 BKG \* 1.00 829 831 832



1



2



3

File name: ABN11A03

Comments: RUN # 03 USING METHOD SY:ABN.NTH

Scan Number: 837

Background Scans \* 1.00 829 831 832

Retention time: 19.08 min.

Date: 11-DEC-89 Time: 15:48:55

## Forward Search

Rank 1 Spectrum 15418

C.A.S 1453-06-1

Fit 0.536

C12H16O2 192 Benzenebutanoic acid, 2,5-dimethyl-

Rank 2 Spectrum 17923

C.A.S 30275-76-4

Fit 0.467

C13H18O2 206 Butyric acid, 3-methyl-4-(2,5-xyllyl)-

Rank 3 Spectrum 7633

C.A.S 41673-72-7

Fit 0.462

C10H14O 150 Benzeneethanol, ar-ethyl-

Rank 4 Spectrum 4861

C.A.S 488-23-3

Fit 0.450

C10H14 134 Benzene, 1,2,3,4-tetramethyl-

Rank 5 Spectrum 19561

C.A.S 54815-16-6

Fit 0.438

C16H24 216 Benzene, 1-(3-cyclopropylpropyl)-2,4-dimethyl-

Rank 6 Spectrum 17297

C.A.S 644-30-4

Fit 0.434

C15H22 202 Benzene, 1-(1,5-dimethyl-4-hexenyl)-4-methyl-

Rank 7 Spectrum 4873

C.A.S 1758-88-9

Fit 0.425

C10H14 134 Benzene, 2-ethyl-1,4-dimethyl-

Rank 8 Spectrum 4864

C.A.S 535-77-3

Fit 0.419

C10H14 134 Benzene, 1-methyl-3-(1-methylethyl)-

Rank 9 Spectrum 12984

C.A.S 1010-48-6

Fit 0.417

C11H14O2 178 Benzenepropanoic acid, .beta.,.beta.-dimethyl-

Rank 10 Spectrum 8647

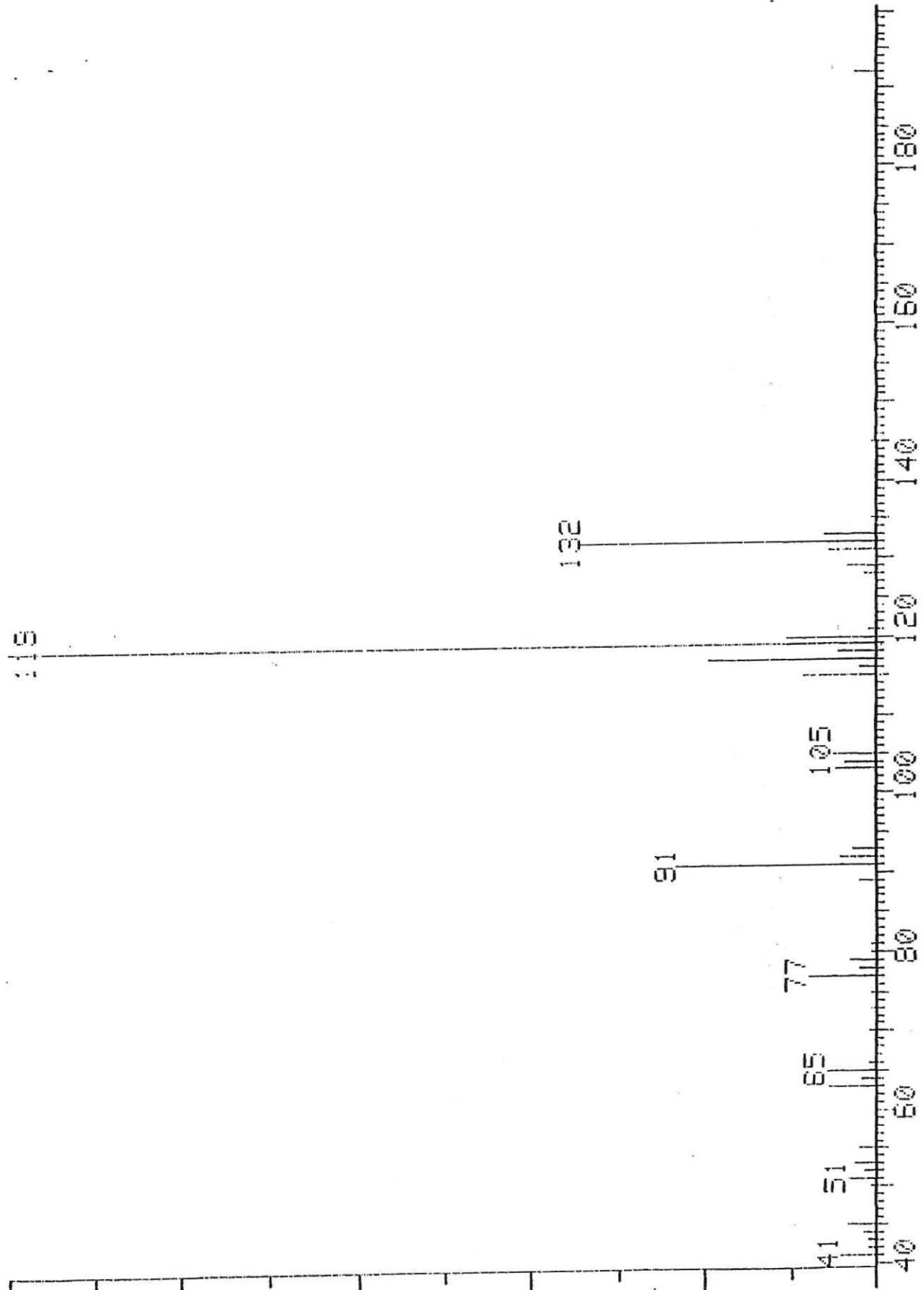
C.A.S 102-46-5

Fit 0.413

C9H11Cl 154 Benzene, 4-(chloromethyl)-1,2-dimethyl-

Total Scale  
147985 1\*

ABN11A0 RUN # 03 USING METHOD SY: ABN. MTH. 89/10864  
11-DEC-89 15:48:55 Scan 837 Time 19.08 Min.  
Bke scans \* 1.00 829 831 832 100% = 47851



CONTINENTAL ANALYTICAL SERVICES, INC.

1804 GLENDALE - SALINA, KANSAS 67401 - (913)827-1273

LABORATORY REPORT

PAGE: 1

CLIENT: TERRACON CONSULTANTS INC.  
ATTN: MELINDA TUMBLESON  
P.O. BOX 901541  
KANSAS CITY, MO 64190-1541

DATE SAMPLE RPTD: 12/11/89  
DATE SAMPLE RECD: 11/22/89  
CAS FILE NO: 89-5018  
CAS ORDER NO: 2639  
CLIENT P.O.: 50895161

LAB NUMBER: 89110748  
SAMPLE DESCRIPTION: B-1

DATE SAMPLED: 11/20/89  
TIME SAMPLED: 1030

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
TOTAL PET. HYDROCARBONS, SOIL	ND(50 )	MG/KG	48 /86
LEAD, TOTAL	19	MG/KG	109/96

CONCLUSION OF LAB NUMBER: 89110748

LAB NUMBER: 89110749  
SAMPLE DESCRIPTION: B-2

DATE SAMPLED: 11/20/89  
TIME SAMPLED: 1020

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
TOTAL PET. HYDROCARBONS, SOIL	ND(50 )	MG/KG	48 /86
LEAD, TOTAL	17	MG/KG	109/96

CONCLUSION OF LAB NUMBER: 89110749

LAB NUMBER: 89110750  
SAMPLE DESCRIPTION: B-3

DATE SAMPLED: 11/20/89  
TIME SAMPLED: 1035

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
TOTAL PET. HYDROCARBONS, SOIL	ND(50 )	MG/KG	48 /86
LEAD, TOTAL	18	MG/KG	109/96

CONCLUSION OF LAB NUMBER: 89110750

CONTINENTAL ANALYTICAL SERVICES, INC.

LABORATORY REPORT

PAGE: 2

CLIENT: TERRACON CONSULTANTS INC.

LAB NUMBER: 89110751  
SAMPLE DESCRIPTION: MW-3

DATE SAMPLED: 11/20/89  
TIME SAMPLED: 1145

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
TOTAL PET. HYDROCARBONS, SOIL	140	MG/KG	48 /86

CONCLUSION OF LAB NUMBER: 89110751

LAB NUMBER: 89110752  
SAMPLE DESCRIPTION: MW-4

DATE SAMPLED: 11/20/89  
TIME SAMPLED: 1410

ANALYSIS	CONCENTRATION	UNITS	BOOK/PAGE
TOTAL PET. HYDROCARBONS, SOIL	260	MG/KG	48 /86

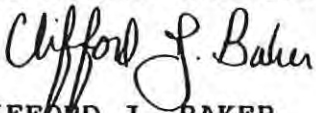
CONCLUSION OF LAB NUMBER: 89110752

ND(), WHERE NOTED, INDICATES NONE DETECTED WITH THE DETECTION LIMIT IN PARENTHESES. % REC INDICATES % RECOVERED AT THE INDICATED CONCENTRATION.

QUALITY CONTROL ANALYSES WERE PERFORMED ON SAMPLES AT TIME OF ANALYSIS IN ACCORDANCE WITH PROCEDURES PUBLISHED IN THE CODE OF FEDERAL REGULATIONS PART 136, JULY 1, 1986 OR IN EPA PUBLICATION, SW-846, 3RD EDITION, NOV. 1986.

SAMPLES WILL BE RETAINED FOR 30 DAYS UNLESS OTHERWISE NOTIFIED.

CONTINENTAL ANALYTICAL SERVICES, INC.



CLIFFORD J. BAKER  
LABORATORY DIRECTOR



PROJECT NO.		PROJECT NAME			SAMPLE PARAMETER							OTHER		NUMBER OF CONTAINERS	REMARKS
50895161		Supermarket Site (Leaw. Ks)			Total Lead	TPH									
SAMPLERS: (Signature)				STATION NUMBER										DATE	TIME
<i>Melinda Jumbleson</i>															
B-1	11/20	10:30	-	✓	✓									Soil	
B-2	11/20	10:20		✓	✓									Soil	
B-3	11/20	10:35		✓	✓									Soil	
MW-3	11/20	11:45	3'		✓									Soil	
MW-4	11/20	14:10	3'		✓									Soil	
TOTAL NUMBER OF CONTAINERS															
RELINQUISHED BY: (Signature)		DATE	TIME	RECEIVED BY: (Signature)		RELINQUISHED BY: (Signature)		DATE	TIME	RECEIVED BY: (Signature)					
<i>M Jumbleson</i>		11-21-89	8:30												
RELINQUISHED BY: (Signature)		DATE	TIME	RECEIVED BY: (Signature)		RELINQUISHED BY: (Signature)		DATE	TIME	RECEIVED BY: (Signature)					
METHOD OF SHIPMENT				SHIPPED BY: (Signature)		COURIER: (Signature)		RECEIVED FOR LAB BY: (Signature)			DATE/TIME				
								<i>Jo Peterson</i>			11/22/89				

**SOLID WASTE FACILITY INFORMATION**

<b>Permit Number:</b> na	<b>Permit Code:</b> D-dump	<b>Solid Waste Key:</b> 1749
<b>Facility Name:</b> CITY OF LEAVENWORTH OLD CITY LANDFILL (052-LEA#2)		
<b>Owner Name:</b> City of Leavenworth		
<b>Owner Type:</b> Municipal		
<b>Status:</b> Closed: post-closure care completed/not required		
<b>Permit Types:</b> Special Landfill		

**PHYSICAL LOCATION**

<b>Address:</b> South 3rd Street	<b>City:</b> Leavenworth	<b>County:</b> Leavenworth
<b>Latitude:</b> 39.29766	<b>Longitude:</b> -94.90599	<b>Collect Method:</b> ArcIMS
<b>Directions:</b>		

**CONTACT**

<b>Title:</b>	<b>Contact Name:</b>
<b>Mail Address:</b>	<b>Mail City:</b>
<b>email:</b>	<b>Phone:</b>

**Tonnage Report only Populated for certain Facility Types**

<b>Link to Tonnage Report::</b>	<a href="#">na</a>
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City of Leavenworth Old City Landfill (052-LEA#2)  
(1749)

Repaired City Dump Site Inspection Form

Inspection Information	Answer	Violation
1. Select all inspectors on-site Kevin Heit		
2. List the inspector completing the report. Kevin Heit		
3. Date of the inspection. 08/09/2018		
4. Time the inspection began. 2:30 PM		
5. Facility Name City of Leavenworth Old City Landfill (052-LEA#2)		
6. Site Address Line 1 South 3rd Street		
7. Location Address Line 2		
8. Location City Leavenworth		
9. State KS		
10. Zip Code 66048		
11. Zip Code Extension		
12. County Leavenworth		
13. Mailing Address (if different from address above)		
14. Mailing Address Line 1 100 North 5th Street		
15. Mailing Address Line 2		
16. Mailing Address City LEAVENWORTH		




City of Leavenworth Old City Landfill (052-LEA#2)  
(1749)

Repaired City Dump Site Inspection Form

Inspection Information	Answer	Violation
17. Mailing Address State KS - Kansas		
18. Mailing Address Zip Code 66048		
19. Mailing Address Zip Extension		
20. Inspection Contact First Name Steve		
21. Inspection Contact Last Name King		
22. Inspection Contact Phone 9137586616		
23. Inspection Contact Phone Extension		
24. Inspection Contact Fax		
25. Inspection Contact e-mail sking@firstcity.org		
Cap Condition	Answer	Violation
26. Are there problems of erosion?	<input type="text" value="No"/>	
27. Is the grass established?	<input type="text" value="Yes"/>	
28. Is the grass in good condition?	<input type="text" value="Yes"/>	
29. Is there any exposed debris?	<input type="text" value="No"/>	
30. Has illegal dumping on site occurred?	<input type="text" value="No"/>	
31. Did you take photographs at the site?	<input type="text" value="Yes"/>	
<p>Site is in acceptable condition. Property is not used for any purpose at this time and is overgrown with trees and brush.</p>		


City of Leavenworth Old City Landfill (052-LEA#2)  
(1749)

Repaired City Dump Site Inspection Form

Cap Condition	Answer	Violation
	Photo Taken: 8/14/2018 4:23:16 PM	Near the NW corner of the site. Appears as if the city dumps spoilage from city projects here. Site is heavily overgrown.
	Photo Taken: 8/15/2018 8:29:56 AM	Standing just inside the northern edge of the site. It appears that at one time the City had been dumping mixed loads of soils from City functions.
	Photo Taken: 8/15/2018 8:39:37 AM	Walking south into the area about ten yards. Piles of soils are evident that have been dumped several years ago judging by the size of the small trees.



City of Leavenworth Old City Landfill (052-LEA#2)  
(1749)  
Repaired City Dump Site Inspection Form

Cap Condition	Answer	Violation
	Photo Taken: 8/15/2018 8:48:10 AM  Approximately the center of the site. There are no visible wastes.	
	Photo Taken: 8/15/2018 8:49:23 AM  The Cities WWTP is just to the north of the site.	
	Photo Taken: 8/15/2018 8:50:17 AM  Along the west side of the site.	
31a. If the photographer is different than the inspector completing the report, list there name here.		

City of Leavenworth Old City Landfill (052-LEA#2)  
(1749)

Repaired City Dump Site Inspection Form

Cap Condition	Answer	Violation
31b. If the photos were taken with a camera other than the ipad, list the type of camera here. Fuji FinePix AX650		
32. Are there any monitoring wells at the site?	<input type="text" value="No"/>	
33. Are there any woody stemmed vegetation growing on the site?	<input type="text" value="Yes"/>	

City of Leavenworth Old City Landfill (052-LEA#2)  
(1749)  
Violation List

No Violations Found

# STATE OF KANSAS

DEPARTMENT OF HEALTH AND ENVIRONMENT  
DIVISION OF ENVIRONMENT  
CURTIS STATE OFFICE BUILDING  
1000 SW JACKSON ST., SUITE 400  
TOPEKA, KS 66612-1367



PHONE: (785) 296-1535  
FAX: (785) 559-4264  
WWW.KDHEKS.GOV

GOVERNOR JEFF COLYER, M.D.  
JEFF ANDERSEN, SECRETARY

August 13<sup>th</sup>, 2018

Steve King  
Solid Waste Foreman  
100 North 5<sup>th</sup> Street  
Leavenworth, Kansas 66048

## RE: City of Leavenworth Dump Site Visits.

On August 9<sup>th</sup>, I visited several of the old city dump sites located in Leavenworth, Kansas. I met Mark Matzeder at the old city dump which is now utilized as permitted brush burn site before continuing on to the other various sites. That site appeared to be in acceptable condition with no recommendations for modifying the practices currently exercised in maintaining the site.

Several other sites listed below were also visited throughout the day and presented in acceptable condition as well. KDHE does appreciate the efforts put forth by the City and respective landowners in maintaining the closed sites. The next scheduled visits for the sites will be during the calendar year of 2023.

Please do not hesitate to contact me at (785) 296-1757 or by email at [kevin.heit@ks.gov](mailto:kevin.heit@ks.gov) if there are any questions regarding this letter or the program.

Regards,

Kevin Heit  
Environmental Specialist  
Compliance, Assistance & Enforcement Unit  
1000 SW Jackson Street  
Suite 320  
Topeka, Kansas 66612

Cc: File: City of Leavenworth CD-1312, City of Leavenworth 2<sup>nd</sup> & Limit CD-1318, City of Leavenworth – Besel roofing CD-1817, Missouri River Disposal Area CD-1322, City of Leavenworth Old City Landfill CD-1749, City of Leavenworth Old City Dump CD-1830, & City of Leavenworth – Leavenworth Excavating & Equipment CD-1829

Ec: NEDO

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Architecture · Interior Design · Illustration · Planning

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Project: Leavenworth Animal Control  
Project No.: 12017

Field Report No.: 003  
Date: 7/8/13

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Date: 7/3/13  
Time: 8:00am

Weather: Sunny

Temp. Range: High 60's

Est. % of Completion: 5%

**Conformance with Schedule (+,-):**

1. The project is generally on schedule.

**Present at Site:**

1. Dennis McMillian – Wilcott Construction
2. Dalyn Novak – WSKF Architects
3. Excavating Crew (1 worker)

**Work in Progress:**

4. Dennis and Dalyn measured the existing foundation that was found at the west side of the site, directly in front of the new building. The foundation is, on average, 3'-0" wide x 3'-0" deep.
  - a. The dimensions were agreed upon and signed by Wilcott Construction, WSKF Architects, and Frederick Excavating. See attached document for measurements and signatures of approval.
  - b. Dennis directed the excavator to dig around the foundation at the northwest section to verify that the foundation continued to the west along the north edge. It was confirmed that the foundation continued and this area is included in the attached document.

**Observations:**

5. It appears as though the existing foundation continues under the chain link fence on the west side of the site and possibly under the Price Chopper parking lot.
6. A possible cleanout for the sanitary sewer line was found when the excavator was digging around the existing foundation.
7. The city had the tanks and the small shed removed from the site.
  - a. Dennis said that he thought they removed them late afternoon/evening of July 2<sup>nd</sup>.
  - b. Two of the tanks were relocated to the northwest of the site, still on the city's property.
  - c. Contents from the tanks were spilled on the site during the relocation.
8. Some of the pier rebar was stored on-site.
9. The building pad appeared to be to grade with the building corners staked.
10. The staff parking lot has been staked although grading still needs to occur along the north side of the site. There is still a lot of concrete, rebar, miscellaneous debris on the north side of the site.
11. An existing storm water inlet and piping was found and removed during grading.
12. Most of the dirt from the hotel site has been used. The remaining dirt has debris in it, organic and inorganic material.



July 8, 2013  
Leavenworth Animal Control – Site Visit  
Field Report 003

13. Asphalt reinforcing fabric was used on the asphalt over the existing foundation.

**Items to Verify:**

14. None at this time.

**Information or Action Required:**

15. Pricing for the removal of the existing foundation is requested from Complete Excavating.

**Photos**

16. NOTE: 45 photos of the construction progress were taken during the site visit and are on file at WSKF's office.

Top Left: Southeast section of the existing foundation that was found



Bottom Right: Northeast section of the existing foundation that was found





Existing excavation, looking southeast



Existing excavation, asphalt reinforcing fabric





A. Close-up of sanitary sewer line



B. Damage (red arrows) from the tank removal, pier rebar in the

J  
L  
F



removed by the city



e city





a city



the southeast

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mp' yet, storm water inlet and piping that was found

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orthwest towards the tanks that were removed

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te, it appears as though damage to the

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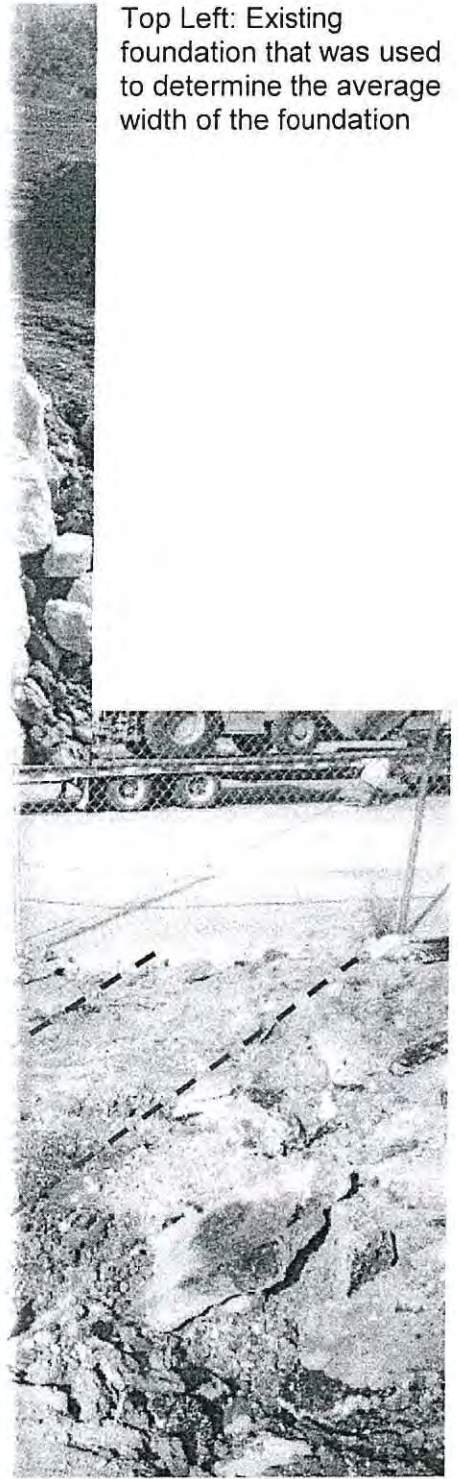




July  
L  
F

Vertical text on the left side of the page, possibly a page number or reference code.

Top Left: Existing foundation that was used to determine the average width of the foundation



E  
s  
f  
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e  
k  
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p

F  
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C

N ↑ 5' x 3' footing

conc  
8" slab

↑  
49'-6"  
↓



to CAD):

3' (deep) = 2,632.5 cubic feet  
yards

/ Dalyn Novak (WSKF) and Dennis

excavator could stop 3'-0" from the fence  
2. The 3'-0" of footing shown on the  
in the 97.5 cubic yards as it is to

ing continues on past/under the fence  
king lot. The 8" concrete slab (see  
t of the contract work. The remaining  
phalt.

remove 97.5 cubic yards is requested  
Excavating.

---

Architecture · Interior Design · Illustration · Planning

---

Project: Leavenworth Animal Control  
Project No.: 12017

Field Report No.: 008  
Date: 8/14/13

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Date: 8/14/13  
Time: 8:00am

Weather: Sunny

Temp. Range: Low 70's

Est. % of Completion: unknown

**Conformance with Schedule (+,-):**

1. The project is generally on schedule.

**Present at Site:**

1. Dennis McMillian – Wilcott Construction
2. Dalyn Novak – WSKF Architects
3. Sean Goecke – City of Leavenworth
4. Rebar Crew (4 workers)
5. Plumbing Crew (3 workers)
6. Excavating Crew (1 worker)
7. Leavenworth Water Department (3 workers)

**Work in Progress:**

8. The remaining rebar was dropped off this morning and placed north of the Price Chopper parking lot. Steel lintels are the only steel that Dennis says he is currently missing.
9. The excavator was digging the trench for the trash enclosure footing with the rebar crew's help.
  - a. Much debris (rebar, wooden post, concrete chunks) was brought to the surface with the dirt.
10. The plumbing crew was installing the under slab plumbing in the southeast dog claim kennel (Dog Claim 123).
11. The Leavenworth Water Department was digging under the building foundation to bring the waterline into the building.
  - a. The Water Department agreed to backfill their trench under the foundation with rock.

**Observations:**

12. The Leavenworth Water Department has completed the majority of the waterline.
  - a. The pipe along the west side of the site has already been covered except for the last section before the turn to the building.
  - b. The fire hydrant was in place although the valve box was not complete.
  - c. There was some damage to the concrete drive adjacent to the waterline trench. This damage appears to have been done during the trenching by the Water Department.
13. Dennis stated that the gas line will be installed above the waterline in the same trench.
14. Under slab plumbing has been installed in the Multi-purpose Room, Restrooms, Large Dog Adoption and was being installed in Dog Claim 123.
  - a. Plumbing supplies are being stored in the northeast corner of the Price Chopper parking lot.



15. Dennis removed a section of the Price Chopper parking lot chain link fence to get from the parking lot into his storage area to the north of the parking lot.
16. Dennis stated that the trees on the east side of the building have been cleared out to the construction limits.
  - a. Sean Goecke was going to talk with Chief Kitchens about where they want the excess site dirt to be located on-site.
    - i. At the last progress meeting Mike McDonald of the Public Works Department said that they do not have the equipment needed to remove trees although he said they would look at the site to see what they could do, if anything.
    - ii. Sean is to update WSKF on the city's intent.
  - b. The removal of the spillage from the tanks has not been cleaned up as of yet. Dennis, Dalyn, and Sean discussed this and Sean said that he would work towards getting Public Works out to clean up the site.
    - i. Dennis also mentioned that there was some spillage in some standing water north of the Price Chopper parking lot as well although none was visible today.

**Items to Verify:**

17. None at this time.

**Information or Action Required:**

18. WSKF to provide Dennis with some additional dimensioning for the dog kennel curbs.

**Photos**

19. NOTE: 43 photos of the construction progress were taken during the site visit and are on file at WSKF's office.



The excavator and rebar crew digging the trench for the trash enclosure footing





Plumbing along the south side of the building, view from center north wall of the Large Dog Adoption room



View of under slab plumbing in the west side of the Large Dog Adoption room, the restrooms, and the multi-purpose room



August 14, 2013  
Leavenworth Animal Control – Site Visit  
Field Report 008



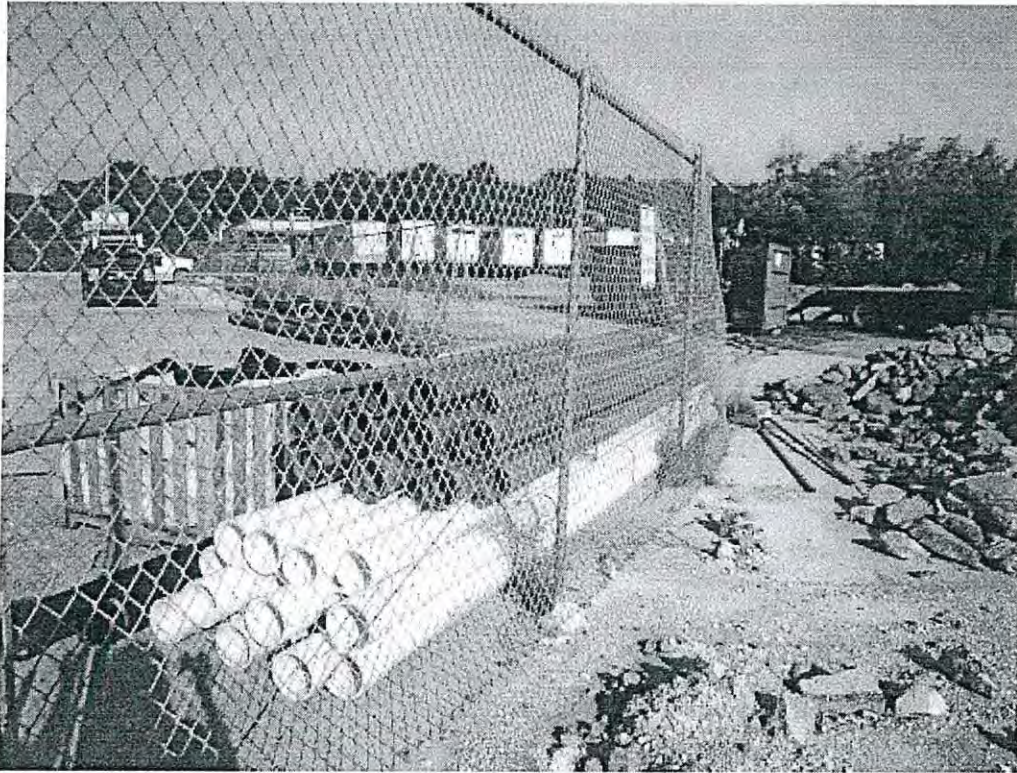
The rebar that was delivered this morning



Leavenworth Water Department working and the water line which extends all the way to the corner of 3<sup>rd</sup> & Marion



August 14, 2013  
Leavenworth Animal Control – Site Visit  
Field Report 008



Stored plumbing supplies



Additional stored plumbing supplies





Damage to the concrete along the west side of the site, adjacent to the water line trench, damage presumably occurred during trenching, view to the north of the west side of the trench



Damage to the concrete along the west side of the site, adjacent to the water line trench, damage presumably occurred during trenching, view to the east of the east side of the trench





Fire hydrant installation with an incomplete valve box



View looking north along the east construction limits





View looking southwest towards the building



Standing water that had tank spillage in it, none was noticed during this site visit but noticeable after the tanks were relocated along the property's west edge (see past field reports for tanks temporary location on-site, also note dirt piles in the background which are from the Water Department's waterline trench



KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT

Buried Tank Leak Assessment Project Code: 04/052/868'B'

Scheduled Inspection Date 1/1/92 Time : AM/PM Project Name: Leavenworth Shop

Date of Initial Report 11/4/92 Status ACTIVE (CLOSED) HOLD MONITOR

FACILITY: Facility I.D. 4052868 Facility Name O1D City Shop Leavenworth Shop 02

Contact Name Bob Paswald Facility Street Address 3rd & Marion, Gara

City Leavenworth Zip Telephone No.

Legal Location 1/1/SE/36/1/9/22(E) W County Leavenworth (abbr): LV

OWNER: (if different) Owner I.D. Company

Contact Name Address

City State Zip Telephone No.

Removal or repair company Bills Pump & Repair 99

Contact: Bill EDMAN I.D. No. Telephone No.

Following the site investigation or review of consultant's report, complete the following:

Date(s) of inspection 11/4/92 Not on site, based on consultants report dated: 1/1/ (Attach copy of report) Reviewed on: 1/1/

This BTLA documents the required assessment in response to: [X] UST Removal Reported Release In-Place-Abandonment

TANK EXCAVATION AREA

- [X] Remaining soil is within KDHE standards
Remaining soil is above KDHE standards
Maximum level remaining ppm
Maximum depth of contamination encountered ft
Contaminated soil was removed. Quantity removed yds

EMERGENCY CONDITIONS (NOTIFY CENTRAL OFFICE IMMEDIATELY)

- Public water or sewer lines are effected
Vapors have entered a home or business
A public or private drinking water supply well has been contaminated

SUPPLY EMERGENCY RESPONSE DETAILS AT BOTTOM OF PAGE

BURIED LINE INFORMATION

- [X] Yes No Product lines were removed. If No, pressure tested?
Yes No Site assessment of line trenches was performed
Remaining line area soil is within KDHE standards
Remaining line area soil is above KDHE standards
Maximum level remaining ppm
Maximum depth of contamination encountered ft
Contaminated soil was removed. Quantity removed yds

IF SITE REMAINS CONTAMINATED COMPLETE REMAINDER OF COLUMN

GROUNDWATER INFORMATION (MARK THOSE WHICH APPLY)

- Groundwater contamination was confirmed on site above KALs
Groundwater contamination was confirmed off site above KALs
Free product is present on the groundwater
Soil contamination is widespread
Contamination threatens water or sewer lines
No groundwater is present within the site area
The unsaturated zone is more than 25% sand or silt.

REGULATED SUBSTANCES STORED AT THE SITE # USTs Removed

- Gasoline ( check if more than 500 gal. released)
Diesel fuel ( check if more than 500 gal. released)
[X] Waste oil ( check if more than 500 gal. released)
Other ( check if > 500 gal. released)

Estimated aquifer yield of area (if known)

Estimated depth to groundwater (if known)

WATER SUPPLIES WITHIN THE AREA (write unknown if uncertain)

- Public water supply within 1/4 mile of the site
Domestic wells within 1/4 mile of site (how many)
Describe all other water supply wells within 1/4 mile of the site

DESCRIBE THE SITE EVALUATION METHODS

- Drager field test (Number of tests)
other (describe)

OTHER

- KDHE will request further site investigation be conducted
[X] No further action will be requested by KDHE
Soil removed to approved disposal location/treatment method
Petroleum storage, tank release Trust fund application was provided

THREATENED POPULATION OR UTILITIES (MARK ALL THAT APPLY)

- Residential (homes within 100' WHICH ARE THREATENED)
Commercial (businesses within 100' WHICH ARE THREATENED)
Industrial area
Rural area
OTHER
Homes within the area are underlain by contamination

PROVIDE ADDITIONAL INFORMATION WHICH WILL BE IMPORTANT IN RANKING THE SITE FOR REMEDIAL ACTION.

RECEIVED NOV 12 1992 ENVIRONMENTAL REMEDIATION

Provide the following information as available and appropriate.

Leak Date 1/1/99 Discovery Date 1/1/99 Leak Duration \_\_\_\_\_

Material Leaked No Leaks Quantity Lost \_\_\_\_\_ Quantity recovered \_\_\_\_\_

Leak Type: 1) Tank \_\_\_ 2) Piping \_\_\_ 3) Spill/Overfill \_\_\_ 4) Other \_\_, \_\_\_\_\_

Dispenser Type: 1) Pressure \_\_\_\_\_ 2) Suction \_\_\_\_\_

Cause of Leak: 1) Corrosion \_\_\_ 2) Rupture \_\_\_ 3) Installation Practices \_\_\_ 4) Other \_\_\_\_\_ 5) Spill/Overfill \_\_\_

How was the leak discovered? \_\_\_\_\_

Who reported the leak? 99 Phone No. \_\_\_\_\_

Representing \_\_\_\_\_ Address \_\_\_\_\_

Describe leakage incident: \_\_\_\_\_

Have all potential contamination sources been ruled out or tested? (Describe. Attach list if numerous)

Areal Geology/Groundwater clay, no ground water enter excavations.

GW Depth = \_\_\_\_\_ ft GW Flow Direction = \_\_\_\_\_

Describe extent of Groundwater Contamination unknown at this time

Describe cleanup measures, current and future. Attach all correspondence, test well logs, tank test results, and other useful information.

Provide or attach a map documenting the leak location, other potential sources, area wells, sewers, groundwater flow direction and other threatened or affected facilities.

Remove 1 300 gallon waste oil UGST, no cont. soil found at this time.

\_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_

Investigator Signature Jack Slade

Date 11/10/92

# PERMANENT TANK ABANDONMENT

Submit to: Kansas Dept. of Health and Environment  
Bureau of Environmental Remediation  
Underground Storage Tank Section  
Forbes Field, Bldg. 740  
Topeka, Kansas 66620

04052  
JNR

Closure Date Nov 5-92

Please Print Clearly or Type

I. Tank Owner Name City of Leavenworth Shop Owner I.D. 08286  
Address 790 Thornton Leavenworth Ks 66048  
(street) (city) (state) (zip)  
Contact Name (if different) Bob Paswald

II. Facility Name \_\_\_\_\_ Facility I.D. 08286  
Facility Address 3rd & Thornton Leavenworth LV  
(street) (city) (county)

III. Please provide information about the tanks being taken out of service:

A. Age of tanks (in years) ?  
B. Tank Capacity 300  
C. Tank Material Steel  
D. Substance last stored waste oil  
E. Method of abandonment (please circle) removed

RECEIVED  
NOV 9 1992  
BUREAU OF ENVIRONMENTAL REMEDIATION

	1	2	3
A. Age of tanks (in years)	?		
B. Tank Capacity	300		
C. Tank Material	Steel		
D. Substance last stored	waste oil		
E. Method of abandonment (please circle)	<u>filled or removed</u>	filled or removed	filled or removed

F. If the tanks are filled in place, please indicate the material used:  
sand \_\_\_ cement \_\_\_ gravel \_\_\_ other \_\_\_

If other, please specify. \_\_\_\_\_

G. If tanks were removed, describe tank disposal. opened, cleaned, delivered to salvage yard

H. Who performed the site assesment required by law? KDHE  Other \_\_\_\_\_

If other, please specify. \_\_\_\_\_

I. Were the tanks abandoned because of a release? yes \_\_\_ no

IV. How many active tanks are there remaining at this facility? \_\_\_\_\_

V. Abandonment Contractor Bills Pump & Repair Inc.

Contact Bill Edman Telephone 913-841-1758

I certify that the tanks were abandoned in accordance with all federal, state and local regulations.

[Signature]  
(signature)

Nov 6-92  
(date)

04052868

# KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT

## Buried Tank Leak Assessment

LEAVEN WORTH

Project Name: CITY GARAGE

Date of Initial Report FEBRUARY 22, 1991

Status CLOSED HOLD ACTIVE MONITOR

02

### FACILITY INFORMATION:

Contact Name BOB PATZWALD Company CITY GARAGE

Street Address 3rd MARION City LEAVEN WORTH

State KANSAS Zip \_\_\_\_\_ Telephone No. (913) - 682-0650

Legal Location NW-NW-SE Sect 36 T9S, R22E S13B County LEAVENWORTH

OWNER (if different): Contact Name \_\_\_\_\_

Company \_\_\_\_\_ Address \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_ Telephone No. \_\_\_\_\_

INCIDENT: Leak Date NO LEAKS Discovery Date \_\_\_\_\_

Material Leaked \_\_\_\_\_ Quantity Lost \_\_\_\_\_

Leak Duration \_\_\_\_\_ Quantity Recovered \_\_\_\_\_

Leak Type: 1. Tank \_\_\_\_\_ 2. Piping \_\_\_\_\_ 3. Overfill \_\_\_\_\_

4. Other (Please Describe) \_\_\_\_\_

Dispenser Type: 1. Pressure \_\_\_\_\_ 2. Suction \_\_\_\_\_

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

4. Other (Please Describe) \_\_\_\_\_

How was the leak discovered? 99

Who reported the leak? OB Phone No. \_\_\_\_\_

Representing \_\_\_\_\_ Address \_\_\_\_\_

Describe leakage incident: \_\_\_\_\_

### TANK EXCAVATION

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

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

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

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

RECEIVED

MAR - 4 1991

BUREAU OF ENVIRONMENTAL REMEDIATION



99

Company Double Check Contact: John Hartnett Telephone No. 816-921-5032

Address R.O Box 300-347 Kansas City Mo. 64130

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

Areal Geology/Groundwater

Extent of Groundwater Contamination No Groundwater Contamination

Attach a map documenting the leak location, other potential sources, area wells, sewers, groundwater flow direction and other threatened or affected facilities. Attach all correspondence, test well logs, tank test results, and other useful information. Describe cleanup measures, current and future. They removed one 6,000 gallon fuel oil No 2 UGST, the tank was not leaking, and no contamination surrounding the tank.

Investigator Signature Jack Slade

Date 2/25/91

STATE OF KANSAS

MIKE HAYDEN

Governor

~~JACK B. WALKER, MD~~

~~Secretary~~

Stanley C. Grant, Ph.D.

Secretary



Forbes Field  
Topeka, KS 66620-0001  
(913) 862-9360

DEPARTMENT OF HEALTH AND ENVIRONMENT

June 29, 1987

Robert Patzwald  
City of Leavenworth - Garage  
5th & Shawnee  
Leavenworth, Kansas 66048

Dear Mr. Patzwald:

This is to acknowledge that you filed a Notification of Hazardous Waste Activity Form on June 3, 1987 for the facility located at the address shown below to comply with both state and federal regulations. The EPA Identification Number, type of hazardous waste activity and a description of hazardous waste are listed below. This number must be included on all shipping manifests for transporting hazardous waste; on all annual reports that generators of hazardous waste and owners of hazardous waste treatment, storage and disposal facilities must file with the state; on all applications for hazardous waste permits; and other correspondence related to your hazardous waste management activities.

EPA Identification Number: KSD065766701

Installation Address: 3rd & Marion  
Leavenworth, Kansas 66048

Type of Hazardous Waste Activity: Generator

Description of Hazardous Waste: D001, D002

Since the State of Kansas received authorization from EPA to conduct the state's generator and transporter hazardous waste program in lieu of the respective federal program, we are to be notified of any additions to and/or modifications of the information provided on your notification. All questions or assistance pertaining to the handling of hazardous waste should also be directed to this office.

Sincerely yours,

A handwritten signature in cursive script that reads "John W. Mitchell".

John W. Mitchell  
Hazardous Waste Section  
Bureau of Waste Management

JWM:ah/23G  
cc: District Office - Lawrence



STATE OF KANSAS



DEPARTMENT OF HEALTH AND ENVIRONMENT

*Forbes Field*

Topeka, Kansas 66620-0001

Phone (913) 296-1500

Mike Hayden, Governor

Stanley C. Grant, Ph.D., Secretary  
Gary K. Hulett, Ph.D., Under Secretary

September 14, 1987

Robert Patzwald  
City of Leavenworth - Garage  
5th and Shawnee  
Leavenworth, Kansas 66048

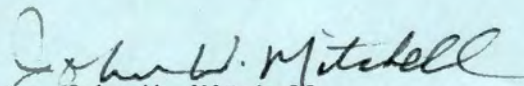
Dear Mr. Patzwald:

In my June 3, 1987 letter to you, the City of Leavenworth - Garage at 5th and Shawnee was assigned EPA identification number KSD065766701.

The EPA Regional Office has determined this identification number is incorrect and should not be used. They have assigned EPA identification number KSD980632210 to the 5th and Shawnee location.

I am sorry if this has caused you any inconvenience.

Sincerely yours,

  
John W. Mitchell

Hazardous Waste Section  
Bureau of Waste Management

JWM:df

C Jane Ratcliff  
District Office - Lawrence



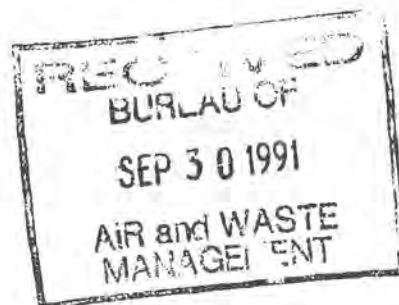
Department of Health and Environment  
Azzie Young, Ph.D., Secretary

Northeast District Office  
608 W. 24th Street  
Lawrence, Kansas 66046-4417

Reply to: (913) 842-4600  
FAX: 842-3537

September 26, 1991

Mr. Robert Lowry  
Assistant Public Works Director  
City Hall  
5th & Shawnee  
Leavenworth, Kansas 66048



Re: Hazardous Waste Compliance Inspection  
City Service Center  
2101 South 3rd.  
Leavenworth, Kansas 66048  
EPA Identification Number KSD980632210

Dear Mr. Lowry:

On September 24, 1991, your facility was inspected to determine compliance with state hazardous waste regulations.

The inspection revealed your facility generates the following hazardous wastes as defined by 40 CFR, Part 261, Subparts C & D as adopted by K.A.R. 28-31-2:

Wastes Generated	Waste Codes
1. Safety-Kleen Solvent	DG01
2. Paint Contaminated Thinner	F005

The quantity generated is more than 25 kilograms (approximately 55 pounds) but less than 1000 kilograms (approximately 2200 pounds) per month. Your facility is considered a Kansas generator and is regulated under K.A.R. 28-31-4 excluding K.A.R. 28-31-4(g) and K.A.R. 28-31-4(m).

As a Kansas generator, you must comply with the requirements listed on pages 8 and 9 of the enclosed Bulletin 4.12, *Hazardous Waste Generator's Handbook*. Basically, these regulations require you to obtain an EPA Identification Number, manifest wastes shipped off-site, package, label, mark, and placard all containers, maintain records, and meet storage requirements. In addition, you must conduct personnel training and meet emergency response requirements.

Robert Lowry/Leavenworth  
September 26, 1991  
Page 2

The inspection identified the following items not in compliance with state and federal regulations concerning generators of hazardous waste:

1. The inspection revealed that paint contaminated thinner is disposed by dumping it on the ground. This method of disposal is illegal and must be discontinued immediately. (K.S.A. 64-3441, Unlawful Acts) Waste thinner must be accumulated in a properly marked container for disposal as hazardous waste.
2. When there is a change in the information originally submitted to obtain an EPA identification number, the generator must update that information. These changes shall be submitted to the department on a form supplied by the department. K.A.R. 28-31-4 (C)(1).

Please submit the enclosed subsequent notification form showing the change of address of the City Service Center.

The above violations must be corrected by October 31, 1991. Notify the department in writing when corrected and identify the corrective action taken for each violation noted.

The inspection revealed an area of visibly contaminated soil located on the north side of the sign shop. According to information provided, waste paint and paint contaminated thinner are disposed in this area. As a result of the contamination, the soil in the subject area has the potential of being classified as hazardous waste. Therefore, soil samples must be collected for Toxicity Characteristic Leaching Procedure (TCLP) testing. The testing must be conducted by a laboratory certified by the state of Kansas. You were instructed to collect a composite sample at 6" and 18-24" [two (2) samples] and to provide the department with a drawing of the contaminated area showing the sample collection points. Please provide the department with test results and other requested information by October 31, 1991. Also, there is evidence of waste paint and paint thinner being dumped into a storm drain located near the sign shop. The storm drain discharges to 5 Mile Creek which courses through the east side of the City Service Center. The practice of disposing of paint wastes in this manner must be discontinued immediately. As previously indicated, paint wastes must be accumulated for proper disposal. A copy of this report will be provided to the Bureau of Water for appropriate follow up.

The inspection also revealed the city service center is moving to the old Missouri Valley Fabricator's site and that the existing site will be cleaned up. Part of the clean-up should involve the removal of oil stained areas, with the contaminated soil taken to the landfill. Paint contaminated soil may require disposal as hazardous waste in accordance with state and federal regulations. In order that disposal records be maintained, please provide the department with documentation reflecting the quantity of oil contaminated soil disposed at the landfill.

Robert Lowry/Leavenworth  
September 26, 1991  
Page 3

Your cooperation with the hazardous waste management program is appreciated. If you have questions concerning this letter, please call me at the Northeast District Office at 913/842-4600.

Respectfully,



Jim Fischer  
Environmental Technician  
Inspections and Enforcement Section  
Bureau of Air and Waste Management

JF:tm

pc: Tom Gross, Bureau of Air and Waste Management  
Steve Broslavick, Bureau of Air and Waste Management  
Charles Linn, Bureau of Air and Waste Management  
Marian Massoth, Bureau of Water  
NEDO





Kansas Department of Health and Environment  
Bureau of Air and Waste Management  
Forbes Field, Topeka, Kansas 66620

## Hazardous Waste Generator/Transporter Compliance Inspection Report

### General

Time 9:00 A Date Sept. 24, 1991  
Facility Name City Service Center EPA ID No. KSD980632210  
Street 2101 S. 3rd. City Leavenworth, KS Zip 66048  
Mailing Address (if different than above) City Hall 5th & Shawnee Leavenworth, KS 66048  
County Leavenworth Phone ( 913 ) 682-9201  
Contact(s) Robert Patzwald, Supervisor

Inspector(s) Jim Fischer  
Type of Business City garage  
Has the company declared any information/processes as trade secrets (KSA 65-3447)? Yes No  
If yes, explain.

### Industrial Wastes Generated

(List hazardous wastes first)

Waste:	Safety-Kleen Solvent	Paint Contaminated Thinner (Toluene)
If waste is hazardous, give HW ID Number:	D001	F005 (Line Flush)
Amount generated per month:	2 30 gal. knits	Seasonal--220 gal. per yr.
Amount presently in storage:		None
Accumulation time:	Monthly	
Present disposal method:	Safety-Kleen Corp.	Dumped on ground-storm drain



Waste:	Used oil	Reg. trash
If waste is hazardous, give HW ID Number:		
Amount generated per month:	Varies	
Amount presently in storage:	Approx. 300 gal. Drums and 300 gal. above ground tank	
Accumulation time:		
Present disposal method:	Industrial Service Corp. Burned in on-site space heater	Leavenworth County Landfill

Waste:		
If waste is hazardous, give HW ID Number:		
Amount generated per month:		
Amount presently in storage:		
Accumulation time:		
Present disposal method:		

Waste:		
If waste is hazardous, give HW ID Number:		
Amount generated per month:		
Amount presently in storage:		
Accumulation time:		
Present disposal method:		



Waste:		
If waste is hazardous, give HW ID Number:		
Amount generated per month:		
Amount presently in storage:		
Accumulation time:		
Present disposal method:		

**General Requirements (GGR)**

- I. Has the facility evaluated all potentially hazardous waste(s) to determine if it is hazardous? (KAR 28-31-4(b)) Yes  No
- A. If waste(s) was tested, was the analysis conducted by a laboratory certified by KDHE? (KAR 28-31-4(b)(3)(A)) Yes No  NA
- B. If waste(s) was tested, are the results kept for three years? (KAR 28-31-4(f)(1)(C)) Yes No  NA
- II. If hazardous waste(s) is disposed of via the sanitary sewer to a Publicly Owned Treatment Works (POTW), has written permission been obtained from the operator of the POTW? (KAR 28-31-3/40 CFR 261.4) Yes No  NA
- Yes No  NA
- III. If industrial waste(s) is disposed of at a permitted sanitary landfill, has a disposal authorization been obtained? (KAR 28-29-23) Yes No NA
- A. If yes, list the authorization number(s): \_\_\_\_\_
- IV. Facility size classification:
  - Not a Generator
  - Small Qty. Generator
  - Kansas Generator
  - EPA Generator
  - T/S/D Facility
  - Transporter
  - HW Burner/Marketer
  - Used oil Burner/Marketer

Hazardous Waste Determination Requirements:  Adequate  Inadequate

**Notification Requirements (GGR)**

- V. Has generator notified KDHE and obtained an EPA Identification Number? (KAR 28-31-4(c))  Yes  No NA
- VI. Is current notification accurate? (KAR 28-31-4(c)(1)) Yes  No NA
- A. Is this facility marketing (selling) hazardous waste as a fuel? Yes  No NA
- B. Is this facility marketing (selling) used oil as a fuel? Yes  No NA
- (If yes, to either question A or B, complete Used Oil Fuel Marketers/Blenders Checklist.)
- C. Is this facility burning hazardous waste as a fuel? Yes  No NA
- D. Is this facility burning used oil as a fuel?  Yes No NA

Notification Requirements:  Adequate  Inadequate  NA

(If small quantity generator, stop here.)

# Manifests (GMR)

- |  |   |
|--|---|
| <p>VII. Is a contractual agreement used in place of manifesting? (KAR 28-31-4(d)(7)(A-C)/40 CFR 262.20(e)(1-2))</p> <p>A: If yes, does the contractual agreement include the type of waste and frequency of shipments?</p> <p>B. If yes, is the vehicle used to transport the waste owned and operated by the reclaimers of the waste?</p> <p>C. If yes, is a copy of the agreement kept for a period of three years after termination of agreement?</p>   | <p><input checked="" type="radio"/> Yes    <input type="radio"/> No</p> <p><input checked="" type="radio"/> Yes    <input type="radio"/> No</p> <p><input checked="" type="radio"/> Yes    <input type="radio"/> No</p> <p><input checked="" type="radio"/> Yes    <input type="radio"/> No    <input type="radio"/> NA</p>   |
| <p>VIII. Is a current manifest showing revision date and burden disclosure statement used? (KAR 28-31-4(d)/40 CFR 262.20)</p> <p>A. If yes, does manifest(s) include:</p> <ol style="list-style-type: none"> <li>1. Generator EPA Identification Number (12 digit) and manifest document number (five digit)?</li> <li>2. Number of pages?</li> <li>3. Generator's name and mailing address?</li> <li>4. Generator's phone number?</li> <li>5. Transporter 1 Name?</li> <li>6. Transporter 1 EPA Identification Number?</li> <li>7. Transporter 2 Name?</li> <li>8. Transporter 2 EPA Identification Number?</li> <li>9. Name and site address of designated facility?</li> <li>10. Designated facility's EPA Identification Number?</li> <li>11. Waste Description (DOT shipping name, hazard class, and Identification Number)?</li> <li>12. Number and type of containers?</li> <li>13. Total quantity?</li> <li>14. Unit (weight or volume)?</li> <li>15. Special handling instructions?</li> <li>16. Generator's certification including waste minimization statement, generator's signature, and date?</li> <li>17. Name, signature, and date of transporter 1?</li> <li>18. Name, signature, and date of transporter 2?</li> </ol> <p>B. Does generator retain a copy of manifest(s) signed by both generator and transporter? (KAR 28-31-4(d)(4)(A-C))</p> <p>C. Does generator retain copy of manifest(s) signed and dated by T/S/D/ facility owner/operator for three years? (KAR 28-31-4(f)(1)(A))</p> <p>D. Has generator ever failed to receive a signed copy of a manifest within 45 days of initiating a shipment?</p> <ol style="list-style-type: none"> <li>1. If yes, was exception report(s) filed? (KAR 28-31-4(f)(4)(B))</li> <li>2. If yes, was copy retained for three years? (KAR 28-31-4(f)(1)(A))</li> </ol> | <p>Yes    <input type="radio"/> No    <input type="radio"/> NA</p> <p>Yes    <input type="radio"/> No    <input checked="" type="radio"/> NA</p> <p>Yes    <input type="radio"/> No</p> <p>Yes    <input type="radio"/> No</p> <p>Yes    <input type="radio"/> No</p> <p>Yes    <input type="radio"/> No</p> <p>Yes    <input type="radio"/> No    NA</p> <p>Yes    <input type="radio"/> No    NA</p> <p>Yes    <input type="radio"/> No</p> <p>Yes    <input type="radio"/> No</p> <p>Yes    <input type="radio"/> No</p> <p>Yes    <input type="radio"/> No    NA</p> <p>Yes    <input type="radio"/> No</p> <p>Yes    <input type="radio"/> No    NA</p> <p>Yes    <input type="radio"/> No</p> <p>Yes    <input type="radio"/> No    NA</p> <p>Yes    <input type="radio"/> No    NA</p> <p>Yes    <input type="radio"/> No    NA</p> <p>Yes    <input type="radio"/> No    NA</p> <p>Yes    <input type="radio"/> No    NA</p> <p>Yes    <input type="radio"/> No    NA</p> |

No waste shipped on DOT manifest

<b>Manifesting Requirements:</b>	<input checked="" type="checkbox"/> Adequate	<input type="checkbox"/> Inadequate	<input type="checkbox"/> NA
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# Land Disposal Restrictions Requirements (GLB)

IX. Does facility generate any wastes subject to the land disposal restrictions requirements of 40 CFR 268, Subparts B and C?  Yes  No  
 List these wastes:

- |                |          |
|----------------|----------|
| A. <u>Dool</u> | D. _____ |
| B. <u>FOOS</u> | E. _____ |
| C. _____       | F. _____ |

X. Is the waste(s) covered by a National Variance(s), Extension, or Petition? (40 CFR 268 5&6) Yes  No   
 A. If yes, describe the variance, extension, or petition which applies:

\_\_\_\_\_

\_\_\_\_\_

XI. Is the waste covered by an exemption? (40 CFR 268.1(c)(2)) Yes  No   
 A. If yes, does the generator provide a notice with the waste to the T/S/D facility stating that the waste is exempt from the land disposal restrictions? (40 CFR 268.7(a)(3)) Yes  No

XII. Does generator ship waste(s) covered by the Land Disposal Restrictions off-site for treatment or disposal?  Yes  No  
 A. If yes, does the generator provide a notification to the T/S/D facility that includes: EPA hazardous waste number(s), applicable treatment standards, manifest number(s), and waste analysis data, if available? (40 CFR 268.7)  Yes  No  
 B. If yes, is a copy of this notification kept for five years?  Yes  No

XIII. Does generator treat restricted waste(s) on-site so that they are below the land disposal restrictions standards? (If yes, fill out land disposal restrictions checklist.) Yes  No

<b>Land Disposal Restrictions Requirements:</b> <span style="margin-left: 100px;"><input checked="" type="checkbox"/> Adequate</span> <span style="margin-left: 100px;"><input type="checkbox"/> Inadequate</span> <span style="margin-left: 100px;"><input type="checkbox"/> NA</span>
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# Pre-Transport Requirements (GPT)

- NOT Shipping wastes*
- XIV. Does generator package waste in accordance with DOT requirements? (KAR 28-31-4(e)(1)) Yes  No  NA
- XV. Does generator label (flammable liquid, poison, etc.) each package in accordance with DOT requirements of 49 CFR 172.101 or 172.102? (KAR 28-31-4(e)(2)) Yes  No  NA
- XVI. Does generator mark (consignee's or consignor's name and address, etc.) on each package in accordance with DOT requirements of 40 CFR 172 Subpart D? (KAR 28-31-4(e)(3)) Yes  No  NA  
 A. Does generator mark each container of 110 gallons or less as below? (KAR 28-31-4(e)(3)) Yes  No  NA

**Hazardous Waste – Federal Law Prohibits Improper Disposal.**  
 If found, contact the nearest police or public safety authority or the US EPA.

Generator's Name and Address

Manifest Document Number

XVII. Does generator have placards to offer to transporters in accordance with 49 CFR 172 Subpart F? (KAR 28-31-4(e)(4)) Yes  No  NA



XVIII. Does generator only use a transporter who is properly registered with the department? (KAR 28-31-4(c)(2)) Yes No NA

Pre-Transport Requirements:	<input checked="" type="checkbox"/> Adequate	<input type="checkbox"/> Inadequate	<input type="checkbox"/> NA
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### Biennial Reports (GRR)

XIX. Has generator submitted a biennial report(s) to KDHE? (KAR 28-31-4(f)(2)) Yes No NA  
 A. If yes, does generator retain copies for three years? (KAR 28-31-4(f)(1)(B)) Yes No NA  
 (Note: compare quantities reported on last biennial report with the total quantity of all manifests for those years.)

Biennial Report Requirements:	<input checked="" type="checkbox"/> Adequate	<input type="checkbox"/> Inadequate
-------------------------------	--	-------------------------------------

### Special Conditions (GSC)

XX. Has generator received or transported any hazardous waste to or from a foreign source? (40 CFR Subpart E & F) Yes No  
 A. If yes, has generator filed a notice with the Secretary of Health and Environment? Yes No NA  
 B. Is waste manifested and signed by a foreign consignee? Yes No NA  
 C. If generator transports waste out of the country, has confirmation of delivered shipment been received? Yes No NA

Special Conditions Requirements:	<input checked="" type="checkbox"/> Adequate	<input type="checkbox"/> Inadequate	<input type="checkbox"/> NA
----------------------------------	--	-------------------------------------	-----------------------------

### Storage Requirements (GPT)

*Safety - Clean Spill only*

XXI. Does generator temporarily store waste before transport? Yes No  
 A. For 90 days or less? Yes No NA  
 B. For more than 90 days? Yes No NA  
 C. If waste is stored in containers:  
 1. Are containers marked with the words: "Hazardous Waste"? (KAR 28-31-4(g)(3) or (h)(1)(D)) Yes No NA  
 2. Is the accumulation start date marked on each container? (KAR 28-31-4(g)(2) or (h)(1)(C)) Yes No NA  
 3. Are all containers holding hazardous waste closed during storage except when necessary to add or remove waste? (KAR 28-31-4(g)(1) or (h)(1)(B)) Yes No NA  
 4. Does generator conduct weekly inspections of containers for signs of leakage and/or deterioration caused by corrosion or other factors? (KAR 28-31-4(k)) Yes No NA  
 a. If yes, are these inspections documented in a log that includes date and time of inspection, full name of inspector, notations of observations, and date and nature of remedial actions? (KAR 28-31-4(k)/40 CFR 265.15(d)) Yes No NA

5. Are containers holding ignitable or reactive waste(s) located at least 15 meters (50 feet) from the facility's property line? (EPA Generator and T/S/D Only) (KAR 28-31-4(g)(1) / 40 CFR 265.176) Yes No NA
6. If waste in containers is incompatible with other materials stored nearby, are the containers separated from the other materials by means of a dike, berm, wall, or other means? (KAR 28-31-4(g)(1) or (h)(1)(B) / 40 CFR 265.177) Yes No NA
7. Does generator have any satellite storage areas? (KAR 28-31-4(j)) Yes No NA
- If yes,
- a. Is the waste stored in a container at or near the point of generation and under the control of the operator of the process generating the waste? Yes No
- b. Is the container in good condition and closed except to add or remove waste? Yes No
- c. Is the container marked with the words: "Hazardous Waste"? Yes No
- d. Is the container marked with the accumulation start date at the time it becomes full? Yes No
- e. Is the full container moved to the storage area within three days after it became full? Yes No

(If waste(s) is placed in tanks, piles, or surface impoundments, complete the appropriate inspection checklist.)

Storage Requirements:

Adequate

Inadequate

NA

## Kansas Generator's Emergency Preparedness (GSQ)

- XXII. Has facility named one employee as emergency coordinator? (KAR 28-31-4(h)(1)(E)) Yes No
- A. Is the emergency coordinator available to respond to an emergency by reaching the facility within a short period of time? Yes No
- B. Is the emergency coordinator or his/her designee prepared to respond to any emergencies (fires, spills, or releases) that arise? Yes No
- C. Is the emergency coordinator familiar with the reporting requirements of KAR 28-31-4(h)(2)? Yes No
- XXIII. Is the following information posted next to at least one telephone which is immediately assessable in an emergency? (KAR 28-31-4(h)(1)(F))
- A. Name and telephone of emergency coordinator? Yes No
- B. Location of fire extinguishers, fire alarms, or spill control material, if available? Yes No
- C. Telephone number of fire department unless the facility has a direct alarm? Yes No NA
- XXIV. Have employees been trained so that they are familiar with proper waste handling and emergency procedures that are relevant to their responsibilities during normal facility operations? (KAR 28-31-4(h)(1)(G)) Yes No
- A. Is this training documented in any way? Yes No

Kansas Generator's Emergency Preparedness Requirements :

Adequate

Inadequate

NA

(If Kansas generator, stop here.)



## Preparedness and Prevention (GPT)

- XXV. If appropriate, based upon the nature and quantity of waste(s) generated and stored at the facility, is the facility equipped with:
- |   |     |    |    |
|---|-----|----|----|
| A. Internal communication or alarm system easily accessible in case of emergency? (KAR 28-31-4(g)(4)/40 CFR 265.32(a))                              | Yes | No | NA |
| B. Telephone or hand-held two-way radio capable of summoning emergency response personnel? (KAR 28-31-4(g)(4)/40 CFR 265.32(b))                     | Yes | No | NA |
| C. Portable fire extinguisher, fire control equipment, spill control equipment, and decontamination equipment? (KAR 28-31-4(g)(4)/40 CFR 265.32(c)) | Yes | No | NA |
| D. Is water of adequate volume provided for hose streams, foam producing equipment, sprinklers, etc.? (KAR 28-31-4(g)(4)/40 CFR 265.32(d))          | Yes | No | NA |
| E. Is this equipment (A-C above) tested and maintained to ensure its proper operation? (KAR 28-31-4(g)(4)/40 CFR 265.33)                            | Yes | No | NA |
- XXVI. Does a check of the facility show sufficient aisle space to allow unobstructed movement of personnel and equipment? (KAR 28-31-4(g)(4)/40 CFR 265.35)
- |  |     |    |    |
|--|-----|----|----|
|  | Yes | No | NA |
|--|-----|----|----|
- XXVII. If appropriate for the type(s) of waste handled, has the owner/operator made the following arrangements:
- |   |     |    |    |
|---|-----|----|----|
| A. Familiarized the local emergency authorities with the facility, waste(s) handled, entrances and exits? (KAR 28-31-4(g)(4)/40 CFR 265.37(a)(1))   | Yes | No | NA |
| B. Designated one authority where one or more police or fire departments might respond to an emergency? (KAR 28-31-4(g)(4)/40 CFR 265.37(a)(2))   | Yes | No | NA |
| C. Made agreements with local emergency response teams, emergency response contractors, and equipment suppliers? (KAR 28-31-4(g)(4)/40 CFR 265.37(a)(3))  | Yes | No | NA |
| D. Familiarized local hospitals with the properties of hazardous waste(s) handled and types of injuries which could result from fires, explosions, or releases at the facility? (KAR 28-31-4(g)(4)/40 CFR 265.37(a)(4)) | Yes | No | NA |
- XXVIII. In cases where local authorities decline to enter into such arrangements, is the refusal entered in the operating record? (KAR 28-31-4(g)(4)/40 CFR 265.37(b))
- |  |     |    |    |
|--|-----|----|----|
|  | Yes | No | NA |
|--|-----|----|----|

Preparedness and Prevention Requirements:  Adequate  Inadequate  NA

## Personnel Training (GPT)

- XXIX. Has the owner/operator established a hazardous waste management training program? (KAR 28-31-4(g)(4)/40 CFR 265.16)
- |  |     |    |
|--|-----|----|
|  | Yes | No |
|--|-----|----|
- |   |     |    |
|---|-----|----|
| A. Is the program directed by a person trained in hazardous waste management? (40 CFR 265.16(a)(2))                 | Yes | No |
| B. Are new personnel trained within six months after their employment? (40 CFR 265.16(b))                           | Yes | No |
| C. Are new employees supervised until training is completed? (40 CFR 265.16(b))                                     | Yes | No |
| D. After initial training, are employees trained on an annual basis? (40 CFR 265.16(c))                             | Yes | No |
| E. Does the facility maintain the following documents and records:  |     |    |
| 1. Job title and job description for each position related to hazardous waste management? (40 CFR 265.16(d)(1)&(2)) | Yes | No |
| 2. Description of type and amount of training to be given each person? (40 CFR 265.16(d)(3))                        | Yes | No |
| 3. Records of training given to facility personnel? (40 CFR 265.16(d)(4))   | Yes | No |

Personnel Training Requirements:  Adequate  Inadequate





*City of*  
**LEAVENWORTH, KANSAS**

City Hall 66048  
913/682-9201

September 25, 1991

James D. Fischer  
808 West 24th. St.  
Lawrence, Kansas 66046-4417

Mr. Fischer,  
Bob Patzwald asked me to send you the enclosed material safety data sheets on toluene. This product is used by the Street Department as a paint thinner,

Sincerely,

A handwritten signature in cursive script that reads "Connie Jacobs". The signature is written in dark ink and is positioned above the typed name.

Connie Jacobs,  
Refuse/Street Clerk

RECEIVED  
SEP 26 1991  
K. D. H. E.  
NORTHEAST DISTRICT

002 \*\*\*

RECEIVED

SEP 26 1991

MATERIAL SAFETY DATA SHEET

REV: 04/19/89

K. D. H. E. PAGE 1  
NORTHEAST DISTRICT  
PROD 0110  
B/L 117311

CHEMTECH INDUSTRIES, INC.  
1655 DES PERES ROAD  
P.O. BOX 31000  
ST. LOUIS, MO 63131  
PHONE: (314) 966-9900

HEALTH = 3 REACTIVITY = 0  
FIRE = 3 EQUIPMENT = \_

FOR EMERGENCIES INVOLVING  
SPILL, LEAK, FIRE OR EXPOSURE, CALL  
1-800-424-9300  
DAY OR NIGHT

HAZARD RATINGS:  
0 = LEAST 1 = SLIGHT  
2 = MODERATE 3 = HIGH  
4 = EXTREME

SECTION I ===== PRODUCT DESCRIPTION =====

PRODUCT NAME: TOLUENE/TOLUOL  
SYNONYMS: METHYL BENZENE; TOLUOL  
CHEMICAL FAMILY: AROMATIC HYDROCARBON

SECTION II ===== PRODUCT COMPOSITION =====

INGREDIENT	VOL %	CAS #	TLV
TOLUENE	100	108-88-3	100 PPM

(THIS PRODUCT IS CONSIDERED TO BE A TOXIC CHEMICAL UNDER TITLE III. EMISSIONS DATA MUST BE SUBMITTED ANNUALLY TO THE EPA FOR COMPANIES WHO MANUFACTURE, PROCESS OR OTHERWISE USE THIS PRODUCT IN EXCESS OF CERTAIN QUANTITIES ESTABLISHED BY THE EPA. THIS INFORMATION MUST BE INCLUDED IN ALL MSDS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.)

SECTION III ===== PHYSICAL PROPERTIES =====

BOILING RANGE: 110-111 C/230-232 F  
SPECIFIC GRAVITY (WATER=1): 0.87  
VAPOR PRESSURE AT 20C (MM OF HG): 22.7  
VAPOR DENSITY (AIR=1): 3.2  
SOLUBILITY IN WATER: NEGLIGIBLE  
EVAPORATION RATE: 4.0  
% VOLATILES: 100

APPEARANCE AND ODOR: CLEAR, WATER-WHITE LIQUID WITH A STRONG AROMATIC ODOR.

SECTION IV ===== FIRE AND EXPLOSION DATA =====



FLAMMABILITY LIMITS (% IN AIR): 1.4  
FLASH POINT (AND METHOD): 5 C/45 F (TCC)  
FLAMMABILITY CLASSIFICATION: CLASS I B

RECOMMENDED EXTINGUISHING MEDIA:  
NFPA CLASS B EXTINGUISHER (CO2, DRY CHEMICALS OR FOAM) FOR CLASS I B FIRES.

SPECIAL FIRE FIGHTING PROCEDURES:  
WATER SPRAY MAY BE INEFFECTIVE ON FIRE BUT CAN PROTECT FIRE FIGHTERS AND COOL CLOSED CONTAINERS. USE FOG NOZZLES IF WATER IS USED. USE AIR SUPPLIED BREATHING MASKS.

UNUSUAL FIRE/EXPLOSION HAZARDS: KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME.

SECTION V ===== HEALTH INFORMATION =====

THRESHOLD LIMIT VALUE: TWA=100 PPM (375 MG/M3) STEL=150 PPM (560 MG/M3)--SKIN  
OSHA PEL: TWA=100 PPM (375 MG/M3) STEL=150 PPM (560 MG/M3)

EFFECTS OF OVEREXPOSURE: CONTACT WITH EYES CAN CAUSE MODERATE TO SEVERE IRRITATION. CONTACT WITH SKIN CAN CAUSE DRYING, IRRITATION AND DERMATITIS. INHALATION CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION INCLUDING FATIGUE, WEAKNESS, HEADACHE, DIZZINESS, NAUSEA AND VOMITING, UNCONSCIOUSNESS, COMA, RESPIRATORY FAILURE AND DEATH. PREEXISTING EYE, SKIN AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

EMERGENCY FIRST AID PROCEDURES:  
EYE CONTACT: FLUSH WITH WATER TO 15 MINUTES AND GET MEDICAL ATTENTION.  
SKIN CONTACT: REMOVE CONTAMINATED CLOTHING AND SHOES. WASH EXPOSED AREAS WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.  
INHALATION: REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION.  
INGESTION: CALL PHYSICIAN IMMEDIATELY! DO NOT INDUCE VOMITING!

---WARNING: THIS PRODUCT CONTAINS DETECTABLE AMOUNTS OF A CHEMICAL KNOWN  
---TO THE STATE OF CALIFORNIA TO CAUSE CANCER/BIRTH DEFECTS OR OTHER  
---REPRODUCTIVE HARM.

SECTION VI ===== REACTIVITY DATA =====

STABILITY: STABLE  
CONDITIONS TO AVOID: HEAT, SPARKS, OR OPEN FLAMES  
INCOMPATIBILITY WITH OTHER MATERIALS:  
ISOLATE FROM STRONG OXIDIZERS SUCH AS PERMANGANATE.  
HAZARDOUS DECOMPOSITION PRODUCTS:  
CARBON MONOXIDE FROM THERMAL DECOMPOSITION.



HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VII ===== FIRE AND SPILL/LEAK PROCEDURES =====

IN CASE OF FIRE: USE WATER FOG, CO2, DRY CHEMICAL OR FOAM.

PROCEDURES IF MATERIAL IS SPILLED OR RELEASED. CONTAIN SPILL. VENTILATE AREA. ISOLATE FROM SOURCES OF IGNITION. ABSORB ON INERT MEDIA AND CONTAINERIZE. ALWAYS WEAR PROTECTIVE CLOTHING AND RESPIRATORY PROTECTION WHEN CLEANING UP SPILLS.

WASTE DISPOSAL PROCEDURES: INCINERATE PER LOCAL, STATE AND FEDERAL POLLUTION REGULATIONS.

SECTION VIII ===== SPECIAL PROTECTION INFORMATION =====

RESPIRATORY PROTECTION: A NIOSH-APPROVED RESPIRATOR FOR ORGANIC VAPORS

LOCAL EXHAUST: RECOMMENDED

PROTECTIVE GLOVES: SOLVENT RESISTANT SUCH AS RUBBER OR NEOPRENE.

EYE PROTECTION: SAFETY GOGGLES

OTHER PROTECTIVE EQUIPMENT: EYE-WASH, SAFETY SHOWER, PROTECTIVE CLOTHING.

SECTION IX ===== ADDITIONAL PRECAUTIONS =====

KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME.  
USE ONLY WITH ADEQUATE VENTILATION.  
AVOID PROLONGED OR REPEATED BREATHING OF VAPOR OR SPRAY MIST.  
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.  
KEEP CONTAINER CLOSED WHEN NOT IN USE.

OTHER PRECAUTIONS:

DO NOT STORE ABOVE 49 C (120 F). STORE LARGE AMOUNTS IN STRUCTURES MADE FOR FLAMMABLE LIQUIDS. EMPTY CONTAINER HAZARDOUS. CONTINUE ALL LABEL PRECAUTIONS. DO NOT FLAME CUT, BRAZE OR WELD.

THE INFORMATION HEREIN IS PRESENTED IN GOOD FAITH AND BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, CHEMTECH MAKES NO REPRESENTATION AS TO THE COMPLETENESS AND ACCURACY THEREOF. USERS MUST MAKE THEIR OWN DETERMINATION AS TO THE SUITABILITY OF THE PRODUCT FOR THEIR PURPOSES PRIOR TO USE.

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE WITH RESPECT TO THE PRODUCT OR TO THE INFORMATION HEREIN IS MADE HEREUNDER. CHEMTECH SHALL IN NO EVENT BE RESPONSIBLE FOR ANY DAMAGES OF WHATSOEVER NATURE DIRECTLY OR INDIRECTLY RESULTING FROM THE PUBLICATION OR USE OF OR RELIANCE UPON INFORMATION CONTAINED HEREIN.



KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT  
Bureau of Waste Management

COMPLAINT REPORT

Time: 10:00A

Date Received: 9-5-91 By: Jim Fischer

Received by: Letter In-Person Phone EPA Central Office

Complainant Name: WISNER + KUNIGS AVE. Phone: ( )

Street: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Name of Person/Facility: City of Leavenworth Public Works

Street/Legal Description: Garage

City: LEAVENWORTH County: LVI Phone: (785) 682-0650

Directions to Site: \_\_\_\_\_

Complaint: OIL Spillage = Large AREA OF CONTAMINATION = possible paint waste dumping NEAR shop AREA.

RECEIVED  
BUREAU OF  
SEP 26 1991  
AIR and WASTE  
MANAGEMENT

REFERRED TO: NEED

Response: 9-24-91 Conducted ROCA =  
observed some oil contamination near  
vehicle maint. garage. Paint staining  
north side of paint shop. GEN.  
instructed to sample area.  
Report to follow.

Date: 9-24-91 Signed: Jim Fischer

Complete first two sections and immediately submit a copy to the central office. When investigation is completed, complete the Response section, date & sign form, and submit the completed copy to the central office.



Department of Health and Environment

Azzie Young, Ph.D., Secretary

Northeast District Office  
808 W. 24th Street  
Lawrence, Kansas 66048-4417

Reply to:

(913) 842-4600  
FAX: 842-3537

February 18, 1992

Mr. Robert Lowery  
City Hall  
5th & Shawnee  
Leavenworth, Kansas 66048

Re: Hazardous Waste Compliance Inspection of September 24, 1991  
City Service Center  
2101 South 3rd Street  
Leavenworth, Kansas 66048  
EPA Identification Number KSD980632210

Dear Mr. Lowery:

In my letter dated September 26, 1991, you were requested to provide information documenting action taken to correct violations noted during the inspection. This information was to be provided by October 31, 1991. To date, the department has not received this information.

Please provide the department with the requested information in writing by March 2, 1992.

After reviewing the analyses for the soil sample collected near the sign shop, it was determined that although contamination exists, the contamination level does not meet the definition of hazardous waste. Therefore, the areas of visible contamination must be removed and disposed in your permitted sanitary landfill. In order to properly dispose of this material, you must first obtain a disposal authorization. To obtain a disposal authorization, please provide the following information:

1. Type and Quantity of Material to be disposed.
2. Analyses information.

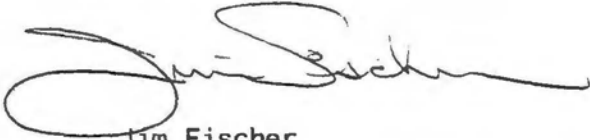
Please submit this information to Mr. Robert Kinder, Kansas Department of Health and Environment, Bureau of Air and Waste Management, Forbes Field, Building 740, Topeka, Kansas, 66620-0001, phone 913/296-1596. Please submit this information as soon as possible.



Robert Lowery/Leavenworth City Service Center  
February 18, 1992  
Page 2

If you have questions concerning this letter, please call me at 913/842-4600.

Respectfully,

A handwritten signature in black ink, appearing to read "Jim Fischer". The signature is fluid and cursive, with a large loop at the beginning.

Jim Fischer  
Environmental Technician  
Inspections and Enforcement Section  
Bureau of Air and Waste Management

JF:tm

C: John Mitchell, Bureau of Air and Waste Management  
Tom Gross, Bureau of Air and Waste Management  
Charles Linn, Bureau of Air and Waste Management  
NEDO



*City of*  
**LEAVENWORTH, KANSAS**

City Hall 66048  
913/682-9201

December 27, 1991

State of Kansas  
Department of Health and Environment  
Waste Programs & Inspection and Enforcement Section  
Attn: Mr. James D. Fischer  
808 West 24th Street  
Lawrence, Kansas 66046-4417

RECEIVED

DEC 30 1991

K. D. H. E.  
NORTHEAST DISTRICT

Re: Report of Testing - City Service Center  
2101 South 3rd Street, Leavenworth, Kansas  
Kansas City Testing Laboratory #8211-91-0050

Dear Jim:

Attached (finally) is a copy of the test results you requested. It does not appear as if we have a major problem - at least not at the 18"-24" depth.

Please let me know what corrective actions need to be taken, especially since we plan to vacate that facility within the next sixty days.

Happy New Year!

Sincerely,

Bob Lowry  
Deputy Public Works Director

BL/jgb

Enclosure As Stated

cc: File



From the office of

## KANSAS CITY TESTING LABORATORY

2012 WEST 104TH STREET  
P.O. BOX 6323  
SHAWNEE MISSION, KANSAS 66206

A.C. 913-648-2303  
FAX 913-642-3679

December 18, 1991

Mr. Robert D. Patzwald  
Public Works Department  
CITY OF LEAVENWORTH  
100 N. 5th Street  
Leavenworth, KS 66048

RECEIVED

DEC 30 1991

Re: Report of Testing - City Service Center  
2101 South 3rd Street  
Leavenworth, Kansas  
KCTL #8211-91-0050

K. D. H. E.  
NORTHEAST DISTRICT

Dear Mr. Patzwald:

This letter and its attachments constitute our report of test results as requested by the Kansas Department of Health (KDHE) letter dated September 26, 1991 and a telephone conversation with Mr. Jim Fisher (KDHE).

### SCOPE OF SERVICE

The following scope of service has been provided:

1. Dispatched an environmental professional to the site.
2. Collected soil samples at 6" and 18-24" from six locations, north of the sign shop.
3. Composite the 6" samples and the 18-24" samples (two samples).
4. Analyzed the two soil samples for toxicity characteristics leaching procedure (TCLP) 8 RCRA metals, TCLP Organic Compounds and Volatile Organic Compounds (VOCs).
5. Provide a report of project results.

### PROJECT OBSERVATION

A backhoe supplied by the City of Leavenworth was used to excavate the six sampling locations (Figure 1 - Sampling Locations). Soil samples were collected from each excavation at 6" and 18-24". The 6" samples were composite and the 18 to 24" samples were composite

(two samples). Chemical analysis was performed by Pace Incorporated located at 9608 Loiret Boulevard, Lenexa, Kansas.

#### **TCLP ANALYTICAL TEST RESULTS**

TCLP Metals (8 RCRA) were not detected at or above the laboratory instrument's method detection limit in both the 6" and 18 to 24" samples.

TCLP Organic Compounds were not detected at or above the laboratory instrument's method detection limit in both the 6" and 18 to 24" samples.

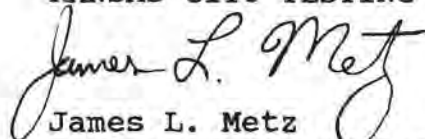
Volatile Organic Compounds (VOCs) were detected in the 6" sample. Concentrations of the following compounds were found in the 6" sample:

1,1,2,2-Tetrachloroethane	- 19,000 parts per billion (ppb)
Chlorobenzene	- 12 ppb
Xylenes	- 28 ppb

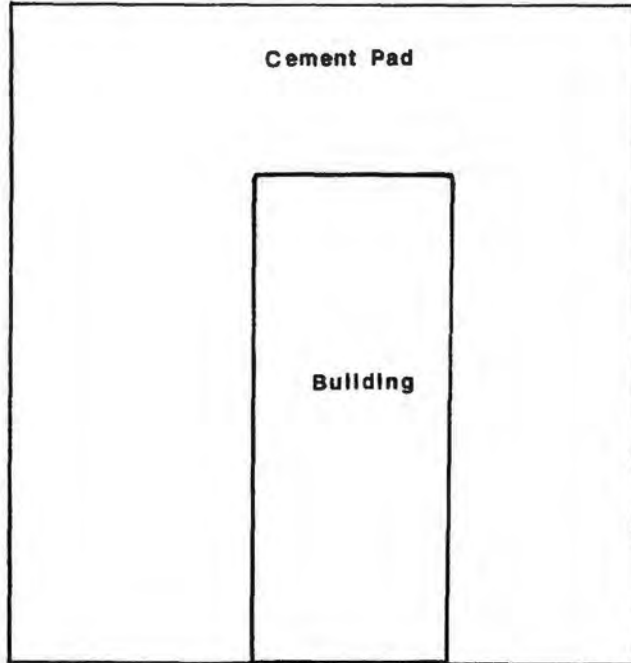
VOCs in the 18 to 24" sample were not detected (ND) at or above the laboratory instrument's method detection limit (MDL).

A copy of the laboratory report and chain-of-custody prepared by Pace Incorporated are attached.

Prepared and Submitted by:  
KANSAS CITY TESTING LABORATORY

  
James L. Metz  
Environmental Geologist





**LEGEND**

\* Sampling Locations

☐ Manhole

**KANSAS CITY TESTING LABORATORY**  
Engineering Consultants

**TCLP Soil Testing**

<b>Sampling Locations</b>		DRAWING NUMBER <b>1</b>
SCALE: <b>1"=20'</b>	APPROVED BY:	DRAWN BY <b>JLM</b>
DATE: <b>11-18-91</b>		REVISED

K.C. Testing Laboratory  
2012 W. 104th Street  
P.O. Box 6323  
Shawnee Mission, KS 66206

December 16, 1991  
PACE Project Number: 511031522

Attn: Mr. James Metz

Client Reference: 8212-91-0050

PACE Sample Number:

60 0156425

Date Collected:

10/31/91

Date Received:

10/31/91

Client Sample ID:

6" Comp.

Parameter

Units

MDL

Leachate

DATE ANALYZED

(1)

INORGANIC ANALYSIS

8 RCRA METALS - LEACHATE

Barium, Leachate	mg/L	5.0	ND	11/21/91
Cadmium, Leachate	mg/L	0.05	ND	11/21/91
Chromium, Leachate	mg/L	0.25	ND	11/21/91
Lead, Leachate	mg/L	0.25	ND	11/21/91
Silver, Leachate	mg/L	0.25	ND	11/21/91
Arsenic, Leachate	mg/L	0.25	ND	11/21/91
Selenium, Leachate	mg/L	0.25	ND	11/21/91
Mercury, Leachate	mg/L	0.010	ND	11/21/91

ORGANIC ANALYSIS

SEMI-VOLATILE ORGANIC COMPOUNDS, LEACHATE

1,4-Dichlorobenzene	mg/L	7.5	ND	12/12/91
2-Methylphenol	mg/L	200.0	ND	12/12/91
3-Methylphenol	mg/L	200.0	ND	12/12/91
4-Methylphenol	mg/L	200.0	ND	12/12/91
Nitrobenzene	mg/L	2.0	ND	12/12/91
Hexachloro-1,3 Butadiene	mg/L	0.5	ND	12/12/91
2,4,6-Trichlorophenol	mg/L	2.0	ND	12/12/91
2,4,5-Trichlorophenol	mg/L	400.0	ND	12/12/91
2,4-Dinitrotoluene	mg/L	0.13	ND	12/12/91
Hexachlorobenzene	mg/L	0.13	ND	12/12/91
Pentachlorophenol	mg/L	100.0	ND	12/12/91
Pyridine	mg/L	5.0	ND	12/12/91
Hexachloroethane	mg/L	3.0	ND	12/12/91

(1) All analysis performed on Toxic Characteristic Leachate.  
MDL Method Detection Limit  
ND Not detected at or above the MDL.



Mr. James Metz  
Page 2

December 16, 1991  
PACE Project Number: 511031522

Client Reference: 8212-91-0050

PACE Sample Number: 60 0156425  
 Date Collected: 10/31/91  
 Date Received: 10/31/91  
 Client Sample ID: 6" Comp.  
 Parameter Units MDL Leachate DATE ANALYZED  
 (1)

ORGANIC ANALYSIS

SEMI-VOLATILE ORGANIC COMPOUNDS, LEACHATE

Phenol-D6 (Surrogate)	%		25	12/12/91
2-Fluorophenol (Surrogate)	%		44	12/12/91
2,4,6-Tribromophenol (Surrogate)	%		27	12/12/91
TCLP BNAS Prep			11/18/91	

VOLATILE ORGANIC COMPOUNDS, LEACHATE

Vinyl Chloride	mg/L	0.2	ND	11/15/91
1,1-Dichloroethylene	mg/L	0.7	ND	11/15/91
Chloroform	mg/L	6.0	ND	11/15/91
1,2-Dichloroethane	mg/L	0.5	ND	11/15/91
2-Butanone (MEK)	mg/L	200.0	ND	11/15/91
Carbon Tetrachloride	mg/L	0.5	ND	11/15/91
Trichloroethylene	mg/L	0.5	ND	11/15/91
Benzene	mg/L	0.5	ND	11/15/91
Tetrachloroethylene	mg/L	0.7	ND	11/15/91
Chlorobenzene	mg/L	100.0	ND	11/15/91
1,2-Dichloroethane-d4 (Surrogate)	%		72	11/15/91
Toluene-d8 (Surrogate)	%		99	11/15/91
4-Bromofluorobenzene (Surrogate)	%		85	11/15/91

(1) All analysis performed on Toxic Characteristic Leachate.  
 MDL Method Detection Limit  
 ND Not detected at or above the MDL.

Mr. James Metz  
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December 16, 1991  
PACE Project Number: 511031522

Client Reference: 8212-91-0050

PACE Sample Number: 60 0156441  
Date Collected: 10/31/91  
Date Received: 10/31/91  
Client Sample ID: 18-24" Comp

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Leachate</u> (1)	<u>DATE ANALYZED</u>
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INORGANIC ANALYSIS

8 RCRA METALS - LEACHATE

Barium, Leachate	mg/L	5.0	ND	11/21/91
Cadmium, Leachate	mg/L	0.05	ND	11/21/91
Chromium, Leachate	mg/L	0.25	ND	11/21/91
Lead, Leachate	mg/L	0.25	ND	11/21/91
Silver, Leachate	mg/L	0.25	ND	11/21/91
Arsenic, Leachate	mg/L	0.25	ND	11/21/91
Selenium, Leachate	mg/L	0.25	ND	11/21/91
Mercury, Leachate	mg/L	0.010	ND	11/21/91

ORGANIC ANALYSIS

SEMI-VOLATILE ORGANIC COMPOUNDS, LEACHATE

1,4-Dichlorobenzene	mg/L	7.5	ND	12/12/91
2-Methylphenol	mg/L	200.0	ND	12/12/91
3-Methylphenol	mg/L	200.0	ND	12/12/91
4-Methylphenol	mg/L	200.0	ND	12/12/91
Nitrobenzene	mg/L	2.0	ND	12/12/91
Hexachloro-1,3 Butadiene	mg/L	0.5	ND	12/12/91
2,4,6-Trichlorophenol	mg/L	2.0	ND	12/12/91
2,4,5-Trichlorophenol	mg/L	400.0	ND	12/12/91
2,4-Dinitrotoluene	mg/L	0.13	ND	12/12/91
Hexachlorobenzene	mg/L	0.13	ND	12/12/91
Pentachlorophenol	mg/L	100.0	ND	12/12/91
Pyridine	mg/L	5.0	ND	12/12/91
Hexachloroethane	mg/L	3.0	ND	12/12/91
Phenol-D6 (Surrogate)	%		27	12/12/91
2-Fluorophenol (Surrogate)	%		50	12/12/91
2,4,6-Tribromophenol (Surrogate)	%		41	12/12/91

(1) All analysis performed on Toxic Characteristic Leachate.  
MDL Method Detection Limit  
ND Not detected at or above the MDL.

Mr. James Metz  
Page 4

December 16, 1991  
PACE Project Number: 511031522

Client Reference: 8212-91-0050

PACE Sample Number:	60 0156441
Date Collected:	10/31/91
Date Received:	10/31/91
Client Sample ID:	18-24"Comp
Parameter	<u>Units</u> <u>MDL</u> <u>Leachate</u> <u>DATE ANALYZED</u>
	(1)

ORGANIC ANALYSIS

SEMI-VOLATILE ORGANIC COMPOUNDS, LEACHATE  
TCLP BNAS Prep

11/18/91

VOLATILE ORGANIC COMPOUNDS, LEACHATE

Vinyl Chloride	mg/L	0.2	ND	11/15/91
1,1-Dichloroethylene	mg/L	0.7	ND	11/15/91
Chloroform	mg/L	6.0	ND	11/15/91
1,2-Dichloroethane	mg/L	0.5	ND	11/15/91
2-Butanone (MEK)	mg/L	200.0	ND	11/15/91
Carbon Tetrachloride	mg/L	0.5	ND	11/15/91
Trichloroethylene	mg/L	0.5	ND	11/15/91
Benzene	mg/L	0.5	ND	11/15/91
Tetrachloroethylene	mg/L	0.7	ND	11/15/91
Chlorobenzene	mg/L	100.0	ND	11/15/91
1,2-Dichloroethane-d4 (Surrogate)	%		73	11/15/91
Toluene-d8 (Surrogate)	%		76	11/15/91
4-Bromofluorobenzene (Surrogate)	%		82	11/15/91

(1) All analysis performed on Toxic Characteristic Leachate.  
MDL Method Detection Limit  
ND Not detected at or above the MDL.

Mr. James Metz  
Page 5

December 16, 1991  
PACE Project Number: 511031522

Client Reference: 8212-91-0050

PACE Sample Number: 60 0156417  
Date Collected: 10/31/91  
Date Received: 10/31/91  
Client Sample ID: 6"

Parameter	Units	MDL	Composited Soil	DATE ANALYZED
<b>ORGANIC ANALYSIS</b>				
<b>VOLATILE ORGANICS, EPA METHOD 8240 LOW</b>				
Methyl chloride (Chloromethane)	ug/kg	10	ND	11/08/91
Methyl Bromide (Bromomethane)	ug/kg	10	ND	11/08/91
Vinyl Chloride	ug/kg	10	ND	11/08/91
Chloroethane	ug/kg	10	ND	11/08/91
Methylene Chloride	ug/kg	10	ND	11/08/91
Acetone	ug/kg	10	ND	11/08/91
Carbon Disulfide	ug/kg	10	ND	11/08/91
1,1-Dichloroethylene	ug/kg	10	ND	11/08/91
1,1-Dichloroethane	ug/kg	10	ND	11/08/91
1,2-Dichloroethylene (Total)	ug/kg	10	ND	11/08/91
Chloroform	ug/kg	10	ND	11/08/91
1,2-Dichloroethane	ug/kg	10	ND	11/08/91
2-Butanone (MEK)	ug/kg	10	ND	11/08/91
1,1,1-Trichloroethane	ug/kg	10	ND	11/08/91
Carbon Tetrachloride	ug/kg	10	ND	11/08/91
Vinyl Acetate	ug/kg	10	ND	11/08/91
Dichlorobromomethane	ug/kg	10	ND	11/08/91
1,2-Dichloropropane	ug/kg	10	ND	11/08/91
Cis-1,3-Dichloropropene	ug/kg	10	ND	11/08/91
Trichloroethylene	ug/kg	10	ND	11/08/91
Chlorodibromomethane	ug/kg	10	ND	11/08/91
1,1,2-Trichloroethane	ug/kg	10	ND	11/08/91
Benzene	ug/kg	10	ND	11/08/91
Trans-1,3-Dichloropropene	ug/kg	10	ND	11/08/91
Bromoform	ug/kg	10	ND	11/08/91
4-Methyl-2-Pentanone (MIBK)	ug/kg	10	ND	11/08/91
2-Hexanone	ug/kg	10	ND	11/08/91

MDL Method Detection Limit  
ND Not detected at or above the MDL.

Mr. James Metz  
Page 6

December 16, 1991  
PACE Project Number: 511031522

Client Reference: 8212-91-0050

PACE Sample Number: 60 0156417  
Date Collected: 10/31/91  
Date Received: 10/31/91  
Client Sample ID: 6"

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Composited Soil</u>	<u>DATE ANALYZED</u>
<u>ORGANIC ANALYSIS</u>				
VOLATILE ORGANICS, EPA METHOD 8240 LOW				
Tetrachloroethylene	ug/kg	10	ND	11/08/91
1,1,2,2-Tetrachloroethane	ug/kg	10	ND	11/08/91
Toluene	ug/kg	10	19000	11/08/91
Chlorobenzene	ug/kg	10	ND	11/08/91
Ethylbenzene	ug/kg	10	12	11/08/91
Styrene	ug/kg	10	ND	11/08/91
Xylenes (Total)	ug/kg	10	28	11/08/91
Dichlorodifluoromethane	ug/kg	10	ND	11/08/91
Trichlorofluoromethane	ug/kg	5	ND	11/08/91
Acrolein	ug/kg	100	ND	11/08/91
Acrylonitrile	ug/kg	100	ND	11/08/91
Iodomethane	ug/kg	5	ND	11/08/91
Dibromomethane	ug/kg	5	ND	11/08/91
2-Chloroethylvinyl ether	ug/kg	5	ND	11/08/91
Ethylmethacrylate	ug/kg	5	ND	11/08/91
1,2,3-Trichloropropane	ug/kg	5	ND	11/08/91
1,4-Dichloro-2-butene	ug/kg	5	ND	11/08/91
1,3-Dichlorobenzene	ug/kg	5	ND	11/08/91
1,4-Dichlorobenzene	ug/kg	5	ND	11/08/91
1,2-Dichlorobenzene	ug/kg	5	ND	11/08/91
1,2-Dichloroethane-d4 (Surrogate)	%		120	11/08/91
Toluene-d8 (Surrogate)	%		121	11/08/91
4-Bromofluorobenzene (Surrogate)	%		113	11/08/91

MDL Method Detection Limit  
ND Not detected at or above the MDL.



Mr. James Metz  
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December 16, 1991  
PACE Project Number: 511031522

Client Reference: 8212-91-0050

PACE Sample Number: 60 0156433  
Date Collected: 10/31/91  
Date Received: 10/31/91  
Client Sample ID: 18-24"

Parameter	Units	MDL	Composite Soil	DATE ANALYZED
<b>ORGANIC ANALYSIS</b>				
<b>VOLATILE ORGANICS, EPA METHOD 8240 LOW</b>				
Methyl chloride (Chloromethane)	ug/kg	10	ND	11/11/91
Methyl Bromide (Bromomethane)	ug/kg	10	ND	11/11/91
Vinyl Chloride	ug/kg	10	ND	11/11/91
Chloroethane	ug/kg	10	ND	11/11/91
Methylene Chloride	ug/kg	10	ND	11/11/91
Acetone	ug/kg	10	ND	11/11/91
Carbon Disulfide	ug/kg	10	ND	11/11/91
1,1-Dichloroethylene	ug/kg	10	ND	11/11/91
1,1-Dichloroethane	ug/kg	10	ND	11/11/91
1,2-Dichloroethylene (Total)	ug/kg	10	ND	11/11/91
Chloroform	ug/kg	10	ND	11/11/91
1,2-Dichloroethane	ug/kg	10	ND	11/11/91
2-Butanone (MEK)	ug/kg	10	ND	11/11/91
1,1,1-Trichloroethane	ug/kg	10	ND	11/11/91
Carbon Tetrachloride	ug/kg	10	ND	11/11/91
Vinyl Acetate	ug/kg	10	ND	11/11/91
Dichlorobromomethane	ug/kg	10	ND	11/11/91
1,2-Dichloropropane	ug/kg	10	ND	11/11/91
Cis-1,3-Dichloropropene	ug/kg	10	ND	11/11/91
Trichloroethylene	ug/kg	10	ND	11/11/91
Chlorodibromomethane	ug/kg	10	ND	11/11/91
1,1,2-Trichloroethane	ug/kg	10	ND	11/11/91
Benzene	ug/kg	10	ND	11/11/91
Trans-1,3-Dichloropropene	ug/kg	10	ND	11/11/91
Bromoform	ug/kg	10	ND	11/11/91
4-Methyl-2-Pentanone (MIBK)	ug/kg	10	ND	11/11/91
2-Hexanone	ug/kg	10	ND	11/11/91

MDL Method Detection Limit  
ND Not detected at or above the MDL.





Mr. James Metz  
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December 16, 1991  
PACE Project Number: 511031522

Client Reference: 8212-91-0050

These data have been reviewed and are approved for release.

Brian J. Smith  
Manager, Inorganic Chemistry

Neal R. Hudson  
Manager, Organic Chemistry

Mr. James Metz  
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QUALITY CONTROL DATA

December 16, 1991  
PACE Project Number: 511031522

Client Reference: 8212-91-0050

VOLATILE COMPOUNDS FOR ALLIED - 1991

Batch: 60 09442

Samples: 60 0156425, 60 0156441

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Method Blank</u>
Methyl chloride (Chloromethane)	ug/L	10	ND
Methyl bromide (Bromomethane)	ug/L	10	ND
Vinyl Chloride	ug/L	10	ND
Chloroethane	ug/L	10	ND
Methylene Chloride	ug/L	5	ND
Acetone	ug/L	10	ND
Carbon Disulfide	ug/L	5	ND
Fluorotrichloromethane	ug/L	10	ND
1,1-Dichloroethylene	ug/L	5	ND
1,1-Dichloroethane	ug/L	5	ND
1,2-Dichloroethylene (Total)	ug/L	5	ND
Chloroform	ug/L	5	ND
1,1,2-Trichloro 1,2,2-Trifluoroethane	ug/L	5	ND
1,2-Dichloroethane	ug/L	5	ND
2-Butanone (MEK)	ug/L	5	ND
1,1,1-Trichloroethane	ug/L	5	ND
Carbon Tetrachloride	ug/L	5	ND
Dichlorobromomethane	ug/L	5	ND
1,2-Dichloropropane	ug/L	5	ND
Cis-1,3-Dichloropropene	ug/L	5	ND
Trichloroethylene	ug/L	5	ND
Chlorodibromomethane	ug/L	5	ND
1,1,2-Trichloroethane	ug/L	5	ND
Benzene	ug/L	5	ND
Trans-1,3-Dichloropropene	ug/L	5	ND
Bromoform	ug/L	5	ND
4-Methyl-2-Pentanone (MIBK)	ug/L	5	ND
2-Hexanone	ug/L	5	ND
Tetrachloroethylene	ug/L	5	ND
1,1,2,2-Tetrachloroethane	ug/L	5	ND
Toluene	ug/L	5	ND

MDL Method Detection Limit

Mr. James Metz  
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QUALITY CONTROL DATA

December 16, 1991  
PACE Project Number: 511031522

Client Reference: 8212-91-0050

VOLATILE COMPOUNDS FOR ALLIED - 1991  
Batch: 60 09442  
Samples: 60 0156425, 60 0156441

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Method Blank</u>
VOLATILE COMPOUNDS FOR ALLIED - 1991			
Chlorobenzene	ug/L	5	ND
Ethylbenzene	ug/L	5	ND
Styrene	ug/L	5	ND
Xylenes (Total)	ug/L	5	ND
1,2-Dichlorobenzene	ug/L	5	ND
1,3-Dichlorobenzene	ug/L	5	ND
1,4-Dichlorobenzene	ug/L	5	ND
1,2-Dichloroethane-d4 (Surrogate)	%		90
Toluene-d8 (Surrogate)	%		73
4-Bromofluorobenzene (Surrogate)	%		87

SPIKE AND SPIKE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>60 0157081</u>	<u>Spike</u>	<u>Spike Recv</u>	<u>Spike Dupl Recv</u>	<u>RPD</u>
1,2-Dichloroethylene (Total)	ug/L	5	ND	50.00	120%	135%	11%
Trichloroethylene	ug/L	5	ND	50.00	96%	103%	7%
Benzene	ug/L	5	ND	50.00	97%	99%	2%
Toluene	ug/L	5	ND	50.00	96%	105%	8%
Chlorobenzene	ug/L	5	ND	50.00	96%	102%	6%

MDL Method Detection Limit  
RPD Relative Percent Difference

Mr. James Metz  
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QUALITY CONTROL DATA

December 16, 1991  
PACE Project Number: 511031522

Client Reference: 8212-91-0050

VOLATILE ORGANICS, EPA METHOD 8240 LOW  
Batch: 60 09213  
Samples: 60 0156417

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Method Blank</u>
Methyl chloride (Chloromethane)	ug/kg	10	ND
Methyl Bromide (Bromomethane)	ug/kg	10	ND
Vinyl Chloride	ug/kg	10	ND
Chloroethane	ug/kg	10	ND
Methylene Chloride	ug/kg	10	10
Acetone	ug/kg	10	ND
Carbon Disulfide	ug/kg	10	ND
1,1-Dichloroethylene	ug/kg	10	ND
1,1-Dichloroethane	ug/kg	10	ND
1,2-Dichloroethylene (Total)	ug/kg	10	ND
Chloroform	ug/kg	10	ND
1,2-Dichloroethane	ug/kg	10	ND
2-Butanone (MEK)	ug/kg	10	ND
1,1,1-Trichloroethane	ug/kg	10	ND
Carbon Tetrachloride	ug/kg	10	ND
Vinyl Acetate	ug/kg	10	ND
Dichlorobromomethane	ug/kg	10	ND
1,2-Dichloropropane	ug/kg	10	ND
Cis-1,3-Dichloropropene	ug/kg	10	ND
Trichloroethylene	ug/kg	10	ND
Chlorodibromomethane	ug/kg	10	ND
1,1,2-Trichloroethane	ug/kg	10	ND
Benzene	ug/kg	10	ND
Trans-1,3-Dichloropropene	ug/kg	10	ND
Bromoform	ug/kg	10	ND
4-Methyl-2-Pentanone (MIBK)	ug/kg	10	ND
2-Hexanone	ug/kg	10	ND
Tetrachloroethylene	ug/kg	10	ND
1,1,2,2-Tetrachloroethane	ug/kg	10	ND
Toluene	ug/kg	10	ND
Chlorobenzene	ug/kg	10	ND

MDL Method Detection Limit



Mr. James Metz  
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QUALITY CONTROL DATA

December 16, 1991  
PACE Project Number: 511031522

Client Reference: 8212-91-0050

VOLATILE ORGANICS, EPA METHOD 8240 LOW

Batch: 60 09213  
Samples: 60 0156417

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Method Blank</u>
VOLATILE ORGANICS, EPA METHOD 8240 LOW			
Ethylbenzene	ug/kg	10	ND
Styrene	ug/kg	10	ND
Xylenes (Total)	ug/kg	10	ND
Dichlorodifluoromethane	ug/kg	10	ND
Trichlorofluoromethane	ug/kg	5	ND
Acrolein	ug/kg	100	ND
Acrylonitrile	ug/kg	100	ND
Iodomethane	ug/kg	5	ND
Dibromomethane	ug/kg	5	ND
2-Chloroethylvinyl ether	ug/kg	5	ND
Ethylmethacrylate	ug/kg	5	ND
1,2,3-Trichloropropane	ug/kg	5	ND
1,4-Dichloro-2-butene	ug/kg	5	ND
1,3-Dichlorobenzene	ug/kg	5	ND
1,4-Dichlorobenzene	ug/kg	5	ND
1,2-Dichlorobenzene	ug/kg	5	ND
1,2-Dichloroethane-d4 (Surrogate)	%		117
Toluene-d8 (Surrogate)	%		121
4-Bromofluorobenzene (Surrogate)	%		119

SPIKE AND SPIKE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>60 0155577</u>	<u>Spike</u>	<u>Spike Recv</u>	<u>Spike Dupl Recv</u>	<u>RPD</u>
1,1-Dichloroethylene	ug/kg	10	ND	50.0	104%	139%	28%
Trichloroethylene	ug/kg	10	ND	50.0	102%	111%	8%
Benzene	ug/kg	10	ND	50.0	107%	120%	11%
Toluene	ug/kg	10	ND	50.0	68%	86%	23%

MDL Method Detection Limit  
RPD Relative Percent Difference



Mr. James Metz  
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QUALITY CONTROL DATA

December 16, 1991  
 PACE Project Number: 511031522

Client Reference: 8212-91-0050

VOLATILE ORGANICS, EPA METHOD 8240 LOW  
 Batch: 60 09213  
 Samples: 60 0156417

SPIKE AND SPIKE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>60 0155577</u>	<u>Spike</u>	<u>Spike Recv</u>	<u>Spike Dupl Recv</u>	<u>RPD</u>
VOLATILE ORGANICS, EPA METHOD 8240 LOW Chlorobenzene	ug/kg	10	ND	50.0	88%	107%	19%

MDL Method Detection Limit

Mr. James Metz  
 Page 15

QUALITY CONTROL DATA

December 16, 1991  
 PACE Project Number: 511031522

Client Reference: 8212-91-0050

VOLATILE ORGANICS, EPA METHOD 8240 LOW  
 Batch: 60 09214  
 Samples: 60 0156433

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Methyl chloride (Chloromethane)	ug/kg	10	ND
Methyl Bromide (Bromomethane)	ug/kg	10	ND
Vinyl Chloride	ug/kg	10	ND
Chloroethane	ug/kg	10	ND
Methylene Chloride	ug/kg	10	ND
Acetone	ug/kg	10	ND
Carbon Disulfide	ug/kg	10	ND
1,1-Dichloroethylene	ug/kg	10	ND
1,1-Dichloroethane	ug/kg	10	ND
1,2-Dichloroethylene (Total)	ug/kg	10	ND
Chloroform	ug/kg	10	ND
1,2-Dichloroethane	ug/kg	10	ND
2-Butanone (MEK)	ug/kg	10	ND
1,1,1-Trichloroethane	ug/kg	10	ND
Carbon Tetrachloride	ug/kg	10	ND
Vinyl Acetate	ug/kg	10	ND
Dichlorobromomethane	ug/kg	10	ND
1,2-Dichloropropane	ug/kg	10	ND
Cis-1,3-Dichloropropene	ug/kg	10	ND
Trichloroethylene	ug/kg	10	ND
Chlorodibromomethane	ug/kg	10	ND
1,1,2-Trichloroethane	ug/kg	10	ND
Benzene	ug/kg	10	ND
Trans-1,3-Dichloropropene	ug/kg	10	ND
Bromoform	ug/kg	10	ND
4-Methyl-2-Pentanone (MIBK)	ug/kg	10	ND
2-Hexanone	ug/kg	10	ND
Tetrachloroethylene	ug/kg	10	ND
1,1,2,2-Tetrachloroethane	ug/kg	10	ND
Toluene	ug/kg	10	ND
Chlorobenzene	ug/kg	10	ND

MDL Method Detection Limit

Mr. James Metz  
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QUALITY CONTROL DATA

December 16, 1991  
PACE Project Number: 511031522

Client Reference: 8212-91-0050

VOLATILE ORGANICS, EPA METHOD 8240 LOW  
Batch: 60 09214  
Samples: 60 0156433

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Methyl chloride (Chloromethane)	ug/kg	10	ND
Methyl Bromide (Bromomethane)	ug/kg	10	ND
Vinyl Chloride	ug/kg	10	ND
Chloroethane	ug/kg	10	ND
Methylene Chloride	ug/kg	10	ND
Acetone	ug/kg	10	ND
Carbon Disulfide	ug/kg	10	ND
1,1-Dichloroethylene	ug/kg	10	ND
1,1-Dichloroethane	ug/kg	10	ND
1,2-Dichloroethylene (Total)	ug/kg	10	ND
Chloroform	ug/kg	10	ND
1,2-Dichloroethane	ug/kg	10	ND
2-Butanone (MEK)	ug/kg	10	ND
1,1,1-Trichloroethane	ug/kg	10	ND
Carbon Tetrachloride	ug/kg	10	ND
Vinyl Acetate	ug/kg	10	ND
Dichlorobromomethane	ug/kg	10	ND
1,2-Dichloropropane	ug/kg	10	ND
Cis-1,3-Dichloropropene	ug/kg	10	ND
Trichloroethylene	ug/kg	10	ND
Chlorodibromomethane	ug/kg	10	ND
1,1,2-Trichloroethane	ug/kg	10	ND
Benzene	ug/kg	10	ND
Trans-1,3-Dichloropropene	ug/kg	10	ND
Bromoform	ug/kg	10	ND
4-Methyl-2-Pentanone (MIBK)	ug/kg	10	ND
2-Hexanone	ug/kg	10	ND
Tetrachloroethylene	ug/kg	10	ND
1,1,2,2-Tetrachloroethane	ug/kg	10	ND
Toluene	ug/kg	10	ND
Chlorobenzene	ug/kg	10	ND

MDL Method Detection Limit



Mr. James Metz  
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QUALITY CONTROL DATA

December 16, 1991  
 PACE Project Number: 511031522

Client Reference: 8212-91-0050

VOLATILE ORGANICS, EPA METHOD 8240 LOW  
 Batch: 60 09214  
 Samples: 60 0156433

METHOD BLANK:

Parameter	Units	MDL	Method Blank
VOLATILE ORGANICS, EPA METHOD 8240 LOW			
Ethylbenzene	ug/kg	10	ND
Styrene	ug/kg	10	ND
Xylenes (Total)	ug/kg	10	ND
Dichlorodifluoromethane	ug/kg	10	ND
Trichlorofluoromethane	ug/kg	5	ND
Acrolein	ug/kg	100	ND
Acrylonitrile	ug/kg	100	ND
Iodomethane	ug/kg	5	ND
Dibromomethane	ug/kg	5	ND
2-Chloroethylvinyl ether	ug/kg	5	ND
Ethylmethacrylate	ug/kg	5	ND
1,2,3-Trichloropropane	ug/kg	5	ND
1,4-Dichloro-2-butene	ug/kg	5	ND
1,3-Dichlorobenzene	ug/kg	5	ND
1,4-Dichlorobenzene	ug/kg	5	ND
1,2-Dichlorobenzene	ug/kg	5	ND
1,2-Dichloroethane-d4 (Surrogate)	%		91
Toluene-d8 (Surrogate)	%		103
4-Bromofluorobenzene (Surrogate)	%		104

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	60 0155577	Spike	Spike		
					Recv	Dupl Recv	RPD
1,1-Dichloroethylene	ug/kg	10	ND	50.0	104%	139%	28%
Trichloroethylene	ug/kg	10	ND	50.0	102%	111%	8%
Benzene	ug/kg	10	ND	50.0	107%	120%	11%
Toluene	ug/kg	10	ND	50.0	68%	86%	23%

MDL Method Detection Limit  
 RPD Relative Percent Difference

Mr. James Metz  
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QUALITY CONTROL DATA

December 16, 1991  
 PACE Project Number: 511031522

Client Reference: 8212-91-0050

VOLATILE ORGANICS, EPA METHOD 8240 LOW  
 Batch: 60 09214  
 Samples: 60 0156433

SPIKE AND SPIKE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>60 0155577</u>	<u>Spike</u>	<u>Spike Recv</u>	<u>Spike Dupl Recv</u>	<u>RPD</u>
VOLATILE ORGANIC COMPOUNDS/ALLIED LOW 91 Chlorobenzene	ug/kg	10	ND	50.0	88%	107%	19%

MDL Method Detection Limit



**CHAIN-OF-CUSTODY RECORD**  
Analytical Request

Client Kansas City Testing Laboratory  
Address P.O. Box 6323  
Shawnee Mission KS  
Phone (913) 648-2303

Report To: James Metz  
Bill To: KCTL  
P.O. # / Billing Reference 8212-91-0050  
Project Name / No. 8212-91-0050

Pace Client No. \_\_\_\_\_  
Pace Project Manager \_\_\_\_\_  
Pace Project No. 511031522  
\*Requested Due Date: \_\_\_\_\_

Sampled By (PRINT): James Metz  
James L Metz 10/31/91  
Sampler Signature Date Sampled

NO. OF CONTAINERS	PRESERVATIVES				ANALYSES REQUEST	REMARKS
	UNPRESERVED	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	VOA		
					TCLP ORGANICS TCLP METALS VOA 8212-91-0050	

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	PRESERVATIVES	ANALYSES REQUEST	REMARKS
1	6" composited soil	1000	soil	015642.5 0156417	1		1 1 1	
2	18"-24" composited soil	1030	soil	0156433 0156441	1		1 1 1	
3								
4								
5								
6								
7								
8								

COOLER NOS.	BAILERS	SHIPMENT METHOD		ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
		OUT / DATE	RETURNED / DATE					
				1/2	James L. Metz (KCTL)	1/2 Kenneth D. Burnett (KCTL)	10/31	2:35
				1/2	Kenneth D. Burnett	Dawn Olander	10/31/91	15:25
					Brenda K. Goster	Fed-Ex	10/21/91	17:10

Additional Comments  
VOC - soil - 10 - dig 8240 - net  
8200. Pure water - 10/31/91  
10/31/91 - net 10/31/91  
10/31/91





From the office of

October 25, 1991

## KANSAS CITY TESTING LABORATORY

1669 JEFFERSON  
P. O. BOX 8586

A.C. 913-648-2303  
KANSAS CITY, MISSOURI 64114

Mr. Jim Fisher  
Environmental Technician  
Inspections and Enforcement Section  
Bureau of Air and Waste Management  
KANSAS DEPARTMENT OF HEALTH & ENVIRONMENT  
Northeast District Office  
808 W. 24th Street  
Lawrence, KS 66046

RECEIVED

OCT 28 1991

K. D. H. E.  
NORTHEAST DISTRICT

Re: Hazardous Waste Compliance - City of Leavenworth  
City Service Center  
EPA ID #KSD980632210 KCTL #8210-91-0059

Dear Mr. Fisher:

To comply with the Kansas Department of Health & Environment (KDHE) letter dated September 26, 1991, the City of Leavenworth has hired Kansas City Testing Laboratory (KCTL) to test soils at the City Service Center located at 2101 South 3rd Street, Leavenworth, Kansas.

The soil samples will be taken from the area of visibly contaminated soil located on the north side of the sign shop. Six locations will be chosen and sampled at 6" and 18-24". The 6" samples will be composited and the 18-24" samples will be composited. The two samples will be chemically analyzed following the toxicity characteristic leaching procedure (TCLP) pursuant to 40 CFR 261.24. All 40 TCLP parameters will be analyzed. The samples will be analyzed by Pace Labs, a Kansas certified laboratory located at 9608 Loiret Blvd., Lenexa, Kansas 66219 (913-599-5665).

KCTL expects mobilization to the site within one week or less. Laboratory results will be available three weeks following the collection of the sample and a final report within one week of receiving the laboratory analysis.

Respectfully Submitted,  
KANSAS CITY TESTING LABORATORY

James L. Metz  
Environmental Geologist

JLM/mjb



Department of Health and Environment

Azzie Young, Ph.D., Secretary  
Northeast District Office  
800 W. 24th Street  
Lawrence, Kansas 66046-4417

Reply to: (913) 842-4600  
FAX: 842-3537

April 24, 1992

Mr. Robert Lowery  
Assistant Public Works Director  
City Hall  
5th & Shawnee  
Leavenworth, Kansas 66048

Re: Hazardous Waste Compliance Inspection  
City Service Center  
2101 South 3rd Street  
Leavenworth, Kansas 66048  
EPA Identification No. KSD980632210




Dear Mr. Lowery:

Thank you for your letter dated April 2, 1992. Based on the information provided and my observations during my April 13, 1992, follow-up inspection, the violations found during the September 24, 1991, inspection have been corrected.

Your cooperation with the hazardous waste management program is appreciated. If you have questions concerning this letter, please call me at the Northeast District Office at 913/842-4600.

Respectfully,

  
Jim Fischer  
Environmental Technician  
Inspections and Enforcement Section  
Bureau of Air and Waste Management

JF:tm

pc: Tom Gross, Bureau of Air and Waste Management  
John Mitchell, Bureau of Air and Waste Management ✓  
NEDO





City of  
LEAVENWORTH, KANSAS

April 2, 1992

City Hall 66048  
913-682-9201

RECEIVED

APR 03 1992

K. D. H. E.  
NORTHEAST DISTRICT

State of Kansas  
Department of Health and Environment  
Waste Programs & Inspection and Enforcement Section  
Attn: Mr. James D. Fischer  
808 West 24th Street  
Lawrence, Kansas 66046-4417

Re: Hazardous Waste Compliance Inspection of September 24, 1991  
City Service Center, 2101 South 3rd Street, Leavenworth, Kansas  
EPA Identification Number KSD980632210

Dear Mr. Fischer:

The items which you identified during your last inspection as being not in compliance have been corrected as follows:

1. a. In accordance with instructions received from Bob Kinder of the KDHE Office in Topeka, the ground contamination which resulted from dumping paint thinner on the ground was remedied by removing the contaminated soil and disposing of it at the Leavenworth Landfill. Approximately 60 cubic yards of contaminated soil was removed and spread at the landfill. The hole was then backfilled with clean dirt taken from the borrow pit located across from the Water Pollution Control facility on South 2nd Avenue.
- b. All operations at the old paint shop were terminated October 1991, and training of personnel regarding use and disposal of toxic wastes has taken place. We have recently instituted weekly training sessions, and at least one session each month is devoted to environmental concerns. To facilitate future operations, we are converting to water base paint for all of our pavement markings.
2. On March 3, 1992, an application was submitted to KDHE for an EPA Identification Number at the new Municipal Service Center site, 790 Thornton Street. A copy of that application and the KDHE response is attached as requested.

The City of Leavenworth is committed to complying with all State and Federal Environmental Laws, and to being good stewards of our environmental resources. We especially appreciate the support your organization has provided to us, and the positive manner in which you have provided assistance to us.

Sincerely,

*Bob Lowry*  
Bob Lowry

Deputy Public Works Director

BL/jgb  
cc: File

Division of Environment  
Bureau of Environmental Field Services  
Northeast District Office  
800 West 24 Street  
Lawrence, KS 66046



Phone: 785-842-4600  
Fax: 785-842-3537  
www.kdheks.gov

Robert Moser, MD, Secretary

Department of Health & Environment

Sam Brownback, Governor

May 31, 2012

RECEIVED

JUN 01 2012

BUREAU OF WASTE MANAGEMENT

Steve Wood  
Great Western Manufacturing Co., Inc.  
2017 South 4<sup>th</sup> Street  
Leavenworth, KS 66048-3928

**RE: Hazardous Waste Compliance Assistance Visit, Great Western Mfg. Co., Inc., EPAID:  
KSD007136872, Leavenworth County, Kansas**

Dear Mr. Wood,

On March 7, 2012, I conducted a compliance assistance visit (CAV) at the above referenced facility to determine compliance with Kansas Administrative Regulations (KAR) and Kansas Statutes Annotated (KSA). This visit was conducted under the authority of the CAV agreement entered into on October 18, 2011. As a result of the visit, 16 deficiencies were observed.

On May 25, 2012, I received a response to the deficiencies from Mike Downie, Summit Safety Group, on behalf of the facility. The response is adequate to correct violations the remaining deficiencies. With regards to deficiency 3, please be aware that if the facility is using the same paint gun cleaning solvents that were being used at the time of inspection, the resulting hazardous waste will be a listed waste as well as ignitable.

Also, in the letter mailed to you on May 2, 2012, I inadvertently labeled the facility's deficiencies as violations. To be clear, there were no violations cited as a result of my visit.

Your cooperation with the waste management program is appreciated. If you have questions concerning this letter, please call me.

Respectfully,

A handwritten signature in black ink that reads "Brian D'Alfonso". The signature is written in a cursive, flowing style.

Brian D'Alfonso  
Waste Management Program  
Northeast District Office  
Bureau of Environmental Field Services

cc: Mike Downie, Summit Safety Group  
Jimi Rudeen, BWM  
Rebecca Wenner, BWM  
NEDO file

**Brian D'Alfonso**

---

**From:** Mike Downie [mdownie@summitsafetygroup.com]  
**Sent:** Friday, May 25, 2012 3:09 PM  
**To:** Brian D'Alfonso  
**Subject:** Great Western Mfg response  
**Attachments:** KDHE haz waste response supplemental letter 5-2012.pdf

Mr. D'Alfonso-  
Please review the attachment and let me know if it satisfies your request for additional information.

Thank you.

Mike Downie, CSP  
President  
Summit Safety Group  
417-343-3200



## Summit Safety Group

May 24, 2012

Brian D'Alfonso  
KDHE  
Waste Management Program  
Northeast District Office  
800 West 24 Street  
Lawrence, KS 66046

RE: Hazardous Waste Compliance Assistance Visit for Great Western Manufacturing in Leavenworth, KS

Dear Mr. D'Alfonso:

I have received your May 2, 2012 letter to Steve Wood of Great Western Manufacturing. In it you request further information related to your compliance assistance visit. Below I have provided the information you requested.

**Violation 1A** - The facility has stopped cleaning paint booth guns by spraying them into the filters. With our knowledge of the process, we have determined that the paint booth filters are hazardous waste and are being disposed as such.

**Violation 3** - Please see attached hazardous waste determinations for paint booth filters and paint gun cleaning waste. We do not have any waste lamps. We only have used lamps that are being handled as an Universal Waste.

**Violation 8** - Attached are three weeks of inspection logs.

**Violation 10** - Attached is a copy of the emergency information. The scan/fax did not come across clearly, but the black area on the right has daytime and 24 hr contact information for plant personnel; and local emergency officials.

**Violation 13** - Doug Price of Great Western Manufacturing is reviewing rider manifests and inspecting them for errors.

**Violation 15** - A copy of the signed manifest #001225800 is attached.

If you have any further questions, please contact me directly at 417-343-3200 or via email at [mdownie@summitsafetygroup.com](mailto:mdownie@summitsafetygroup.com).

Sincerely,

Mike Downie, CSP  
President



**Paint Department Hazardous Waste Determinations**

<u>Waste Stream</u>	<u>I</u>	<u>C</u>	<u>R</u>	<u>T</u>	<u>Listed</u>	<u>Hazardous Waste</u>
Used booth filters	X					Yes
Gun Cleaning waste	X					Yes

Used booth filters and gun cleaning waste are ignitable due to knowledge of process. Per material safety data sheets, paints and solvents have flash points below 140 degrees.

I=Ignitable  
C=Corrosive  
R=Reactive  
T=Toxic

2012

HAZARDOUS WASTE STORAGE AREA WEEKLY INSPECTION LOG

Inspected	Condition of Containers			Condition of Storage Area					Inspection				
	Acc. Start Date	Closed/sealed	Good Condition	Segregation of Incompatible Waste	Area Secured/Locked	Adequate Aisle Space	Condition of base & Containment good	Signage legible	Date	Time	Corrective Actions Taken	Date of Corrective Actions	Signature of Inspector (No initials)
5	YES	NO	YES	YES	YES	YES	YES	YES	3-9-12	7:45AM	ordering sealable funnels for drum	3-13-12	D, R
5	YES	NO	YES	YES	YES	YES	YES	YES	3-14-12	10:30AM	Funnel still not received	"	D, R
7	YES	NO	YES	YES	YES	YES	YES	YES	3-21-12	9:15AM	Funnel still not received	"	D, R
8	YES	NO	YES	YES	YES	YES	YES	YES	3-30-12	10:00AM	Rec. new oil tank for light bulbs	"	D, R
1	YES	YES	YES	YES	YES	YES	YES	YES	4-16-12	2:30PM	Installed new funnel 4-5-12	4-5-12	D, R
1	YES	YES	YES	YES	YES	YES	YES	YES	4-13-12	8:45AM	Sort off paint booth filters 4-12-12 (one time only)	4-12-12	D, R
1	YES	YES	YES	YES	YES	YES	YES	YES	4-20-12	10:25AM	sent reply to CAD visit 4-13-12.	4-13-12	D, R
1	YES	YES	YES	YES	YES	YES	YES	YES	4-27-12	8:30AM	N/A	N/A	D, R
1	YES	YES	YES	YES	YES	YES	YES	YES	5-3-12	2:00PM	N/A	N/A	D, R
5	YES	YES	YES	YES	YES	YES	YES	YES	5-04-12	11:00AM	N/A	N/A	D, R
2	YES	YES	YES	YES	YES	YES	YES	YES	5-18-12	2:00PM	N/A	N/A	D, R

KEEP ON FILE FOR A MINIMUM OF THREE YEARS

Great Western MFG  
Leavenworth, KS

← OUBK →

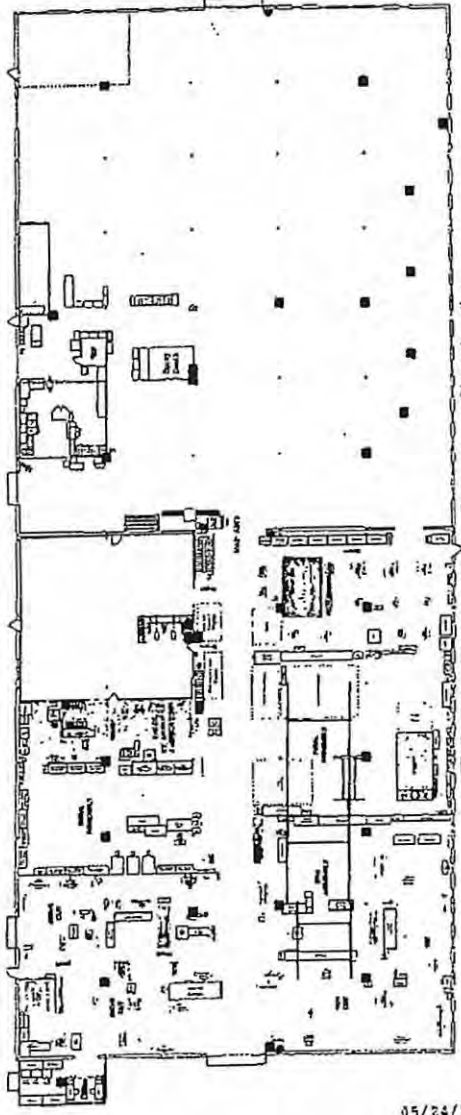
05/27/2012 THU 16:11  
 9344  
 2002

Acceptable  
 denotes a problem

MAY 24 2012 4:12PM  
 GREAT WESTERN MFG CO INC  
 No. 5001

May 24, 2012 4:15PM

Great Western Mfg Co Inc



- Fire Extinguisher Location
- Fire Alarm Pull Location
- ▶ Emergency Phone Location
- ▶ Fire Alarm

MSDS notebooks are located in supervisor area,  
directly across from downstairs conference room.

1-05-12  
Loc: KANSAS CITY  
Route: KANSAS CITY - ROUTE 2  
Form Approved GSA No. 7550-0039

UNIFORM HAZARDOUS WASTE MANIFEST  
1. Generator ID Number: K 5 D 0 0 7 1 3 6 8 7 2  
2. Page 1 of 1  
3. Emergency Response Phone: 800-424-9300, "1"  
4. Manifest Number: 001225800 GBF

5. Generator's Name and Mailing Address: GREAT WESTERN MFG. 2017 S. 4TH ST. LEAVENWORTH, KS 66048  
6. Transporter's Company Name: HERITAGE-CRYSTAL CLEAN, LLC  
7. Transporter's Company Name: R. Blanton  
8. Manifest Number: ILR000130062  
9. U.S. EPA ID Number: 1A6060640847

10. Manifest Number: MID980615298  
11. Facility Name and Address: PETRO-CHEM PROCESSING GROUP 421 Lyncaste Detroit, MI 48214  
12. Facility Phone: (313) 824-5800

Table with 10 columns: 10 Containers (No, Type), 11 Total Quantity, 12 Unit Volume, 13 Waste Codes (F003, F005, D007). Row 1: 1 DM 400 P, F003, F005, D007.

14. Special Handling Instructions and Additional Information: 2) CC: 74561-4 TSD: RCFCBIAQ RD61

15. Generator's Signature: MICHAEL FRIESE, Date: 15/12/10

16. Transporter's Signature: JIMMIE MONROE, Date: 05/24/12

17. Manifest Number: 001225800 GBF

18. Manifest Number: 001225800 GBF

19. Manifest Number: 001225800 GBF

20. Manifest Number: 001225800 GBF

21. Designated Facility Owner or Operator: HOLE

**BUREAU OF ENVIRONMENTAL FIELD SERVICES  
NORTHEAST DISTRICT OFFICE  
MEMORANDUM**

RECEIVED  
MAY 14 2012  
BUREAU OF WASTE MANAGEMENT  
BUREAU OF WASTE MANAGEMENT

**TO:** Jim Rudeen

**FROM:** Brian D'Alfonso *5-8-12*

**DATE:** May 8, 2012

**SUBJECT: Hazardous Waste Compliance Assistance Visit, Great Western Mfg. Co.,  
Inc., EPAID: KSD007136872, Leavenworth County, Kansas**

In my May 2, 2012 follow-up letter to the facility, replying to their response, I inadvertently listed the facility's deficiencies as "violations". The visit at the facility was a compliance assistance visit, not a compliance inspection, thus no violations were cited.

May 2, 2012

RECEIVED

MAY 04 2012

BUREAU OF WASTE MANAGEMENT

Steve Wood  
Great Western Manufacturing Co., Inc.  
2017 South 4<sup>th</sup> Street  
Leavenworth, KS 66048-3928

**RE: Hazardous Waste Compliance Assistance Visit, Great Western Mfg. Co., Inc., EPAID:  
KSD007136872, Leavenworth County, Kansas**

Dear Mr. Wood,

On March 7, 2012, I conducted a compliance assistance visit (CAV) at the above referenced facility to determine compliance with Kansas Administrative Regulations (KAR) and Kansas Statutes Annotated (KSA). This visit was conducted under the authority of the CAV agreement entered into on October 18, 2011. As a result of the visit, 16 deficiencies were observed.

On April 16, 2012, I received a response to the deficiencies from Mike Downie, Summit Safety Group, on behalf of the facility. The response is adequate to correct violations 1B, 2, 4-7, 9, 12, 14 and 16. The response is inadequate to correct violations 1A, 3, 8, 10, 13, & 15 as follows:

**Violation 1A** – To correct this violation, the facility must stop cleaning paint guns by spraying them out in the paint booth. After further review of my notes, it was determined that this method of cleaning paint guns is considered treatment of hazardous waste. Waste solvent from cleaning paint guns must be determined and disposed of properly. The solvents that were being used at the time of my visit would make the waste hazardous, requiring disposal with a hazardous waste vendor. As discussed during my visit, the facility's paint booths may not be a hazardous waste once this practice stops and the filters are changed out.

**Violation 3** – Please submit a sample of the facility's hazardous waste determinations. Please include the written waste determinations for paint booth filters, paint gun cleaning waste and waste lamps.

**Violation 8** – Please submit the at least the first three weeks of the facility's weekly inspection logs.

**Violation 10** – Please submit a copy of the emergency information that the facility has posted.

**Violation 13** – Please be aware that the facility typically does not control how many "rider" manifests are used during the shipment of hazardous waste. Most often, the number of "rider" manifests is determined by how many different transporters are used to transport the waste to the designated facility. The facility needs to ensure that all copies of manifests that are received from the designated facility are thoroughly inspected for errors. Any errors that are found should be discussed and corrected with the vendor.

**Violation 15** – Please submit a copy of manifest #001225800 GBF that is signed by the designated facility.

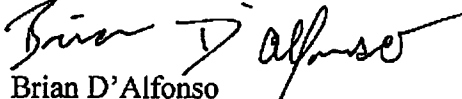


Also, per the compliance assistance visit agreement, please find enclosed a copy of the facility's Hazardous Waste Compliance Assistance Visit Report that has been submitted to the Bureau of Waste Management.

This notice is provided to call immediate attention to those areas of non-compliance. This notice does not constitute a compliance order issued by KDHE and may not be a complete listing of all violations which may be identified as a result of this inspection. You must submit in writing by **May 25, 2012**, all requested materials

Your cooperation with the waste management program is appreciated. If you have questions concerning this letter, please call me.

Respectfully,



Brian D'Alfonso  
Waste Management Program  
Northeast District Office  
Bureau of Environmental Field Services

cc: Mike Downie, Summit Safety Group  
Jim Rudeen, BWM  
Rebecca Wenner, BWM  
NEDO file

encl: Hazardous Waste Compliance Assistance Visit Report

**Brian D'Alfonso**

---

**From:** Mike Downie [mdownie@summitsafetygroup.com]  
**Sent:** Monday, April 16, 2012 11:04 PM  
**To:** Brian D'Alfonso  
**Subject:** Great Western Mfg response letter  
**Attachments:** KDHE haz waste response letter 4-2012.pdf

Mr. D'Alfonso-

Can you let me know that you received this. If you need any further information please feel free to contact me directly.

Mike Downie, CSP  
President  
Summit Safety Group  
cell 417-343-3200

5/2/2012



## **Summit Safety Group**

April 13, 2012

Brian D'Alfonso  
KDHE  
Waste Management Program  
Northeast District Office  
800 West 24 Street  
Lawrence, KS 66046

**RE: Hazardous Waste Compliance Assistance Visit for Great Western Manufacturing in Leavenworth, KS**

Dear Mr. D'Alfonso:

I have been authorized by Steve Wood of Great Western Manufacturing to respond to your Notice of Deficiency letter dated March 14, 2012.

Below are our responses to each item.

- 1) **Unlawful disposal of hazardous waste**
  - A. Paint booth filters are now disposed as hazardous waste. The attached picture shows the box that the waste hauler, Crystal Clean, has supplied to ship the filters.
  - B. Paper wipes are no longer used in the Sta Put spraying area. Cloth wipes are now being used. they are laundered and reused.
- 2) **Waste from the two blast cabinets has been analyzed and found to be non-hazardous. Attached are the lab results used to make this determination.**
- 3) **Written waste determinations have been made for all waste streams**
- 4) **Containers of Universal Waste - Used Lamps have been labeled. See attached pictures.**
- 5) **The boxes of used lamps have been closed. See attached pictures**
- 6) **Universal Waste training has been added to the list of topics that are covered in the annual employee safety training**
- 7) **A new threaded funnel with latch has been purchased and installed. See attached picture.**
- 8) **Doug Price is now doing weekly hazardous waste storage inspections. He utilizes a preprinted checklist to document the inspections.**
- 9) **The weekly inspections noted in item 8 includes the date and time of inspection, name of inspector, notations and observations, and date and nature of remedial actions.**

10) Emergency information including the 24 hour phone number of the two emergency coordinators, location of fire extinguishers and spill control equipment, and 911.

11) A hazardous waste training program has been developed for the hazardous waste coordinator and assistant at Great Western. Training was completed this month by Mike Downie of Summit Safety. All employees will be trained at the annual training meeting.

12) Great Western has contacted Crystal Clean and asked them to ensure their drivers double check the ID numbers. They also asked about pre-printed manifests to help reduce the chance of errors from hand printing.

13) Multiple manifests will no longer be used.

14) Crystal Clean has been notified to only use the codes that correctly classify the hazardous waste.

15) Great Western will maintain manifests for at least 3 years from date of shipment.

16) Crystal Clean has been notified to generate a corrected Land Disposal Restriction to be sent to the TSDf after the next shipment.

If you have any further questions, please contact me directly at 417-343-3200 or via email at [mdownie@summitsafetygroup.com](mailto:mdownie@summitsafetygroup.com).

Sincerely,



Mike Downie, CSP  
President



Item #4 picture of labeled and closed Universal Waste containers



Item #4 picture of labeled and closed Universal Waste containers.



Item #7 threaded and latched funnel on hazardous waste drum.



**SUMMARY CERTIFICATE OF ANALYSIS**

<b>HERITAGE ENVIRONMENTAL SERVICES, LLC</b> Report To <b>CATHERINE MCCORD</b> <b>HERITAGE- CRYSTAL CLEAN, LLC</b> <b>2175 POINT BLVD.</b> <b>SUITE 375 - EHS DEPT.</b> <b>ELGIN, IL 60123-9211</b>	Sampled <b>23-MAR-12 09:00</b>	Lab ID <b>A944889</b>
	Received <b>28-MAR-12</b>	Client ID: <b>GREAT WESTERN MFG.</b> Matrix: <b>SLUDGE, SOIL, SOLID OR SEDIMENT</b>
	Completed <b>02-APR-12</b>	Submitter: <b>8018 - HERITAGE- CRYSTAL CLEAN</b> Data Package #: <b>N/A</b>

**Sample Description**

**DESCRIPTION: GARNET BEADS**  
**CC NUMBER: CC015032312C**  
**SALESPERSON: J. LONG**

<b>Metals Analysis</b>							
Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units	Anal
SW6010B	0	ARSENIC, TCLP	01-Apr-12	BDL	0.050	mg/L	JPK
SW6010B	0	BARIIUM, TCLP	01-Apr-12	0.065	0.050	mg/L	JPK
SW6010B	0	CADMIUM, TCLP	01-Apr-12	BDL	0.025	mg/L	JPK
SW6010B	0	CHROMIUM, TCLP	01-Apr-12	BDL	0.050	mg/L	JPK
SW6010B	0	LEAD, TCLP	01-Apr-12	BDL	0.050	mg/L	JPK
SW6010B	0	SELENIUM, TCLP	01-Apr-12	BDL	0.050	mg/L	JPK
SW6010B	0	SILVER, TCLP	01-Apr-12	BDL	0.050	mg/L	JPK

TCLP As-SW6010B	0	TCLP reg Limit: 5.0 mg/L 1:5 Dilution.
TCLP Ba-SW6010B	0	TCLP reg Limit: 100 mg/L 1:5 Dilution.
TCLP Cd-SW6010B	0	TCLP reg Limit: 1.0 mg/L 1:5 Dilution.
TCLP Cr-SW6010B	0	TCLP reg Limit: 5.0 mg/L 1:5 Dilution.
TCLP Pb-SW6010B	0	TCLP reg Limit: 5.0 mg/L 1:5 Dilution.
TCLP Se-SW6010B	0	TCLP reg Limit: 1.0 mg/L 1:5 Dilution.
TCLP Ag-SW6010B	0	TCLP reg Limit: 5.0 mg/L 1:5 Dilution.

**Sample Comments**

BDL Below Detection Limit  
 NA Not Applicable  
 YES Yes  
 Sample was not received on ice at temperature 24.2 C.  
 Sample chain of custody number HCC.  
 This is a summary report. Complete analytical information can be found in the full Certificate of Analysis, available upon request.

Approved by: CHRISTOPHER BOYLE 02-APR-12





**SUMMARY CERTIFICATE OF ANALYSIS**

HERITAGE ENVIRONMENTAL SERVICES, LLC Report To CATHERINE MCCORD HERITAGE- CRYSTAL CLEAN, LLC 2175 POINT BLVD. SUITE 375 - EHS DEPT. ELGIN, IL 60123-9211	Sampled 23-MAR-12 09:00	Lab ID: A944990
	Received 28-MAR-12	Client ID: GREAT WESTERN MFG Matrix: SLUDGE, SOIL, SOLID OR SEDIMENT
	Completed 02-APR-12	Submitter: 8018 - HERITAGE- CRYSTAL CLEAN Data Package #: N/A

**Sample Description**

DESCRIPTION: GLASS BEADS  
 CC NUMBER: CC015032312D  
 SALESPERSON: J. LONG

**Metals Analysis**

Method	Rep	Parameter	Analyzed	Result	Det. Limit	Units	Anal
SW6010B	0	ARSENIC, TCLP	01-Apr-12	BDL	0.050	mg/L	JPK
SW6010B	0	BARIUM, TCLP	01-Apr-12	BDL	0.050	mg/L	JPK
SW6010B	0	CADMIUM, TCLP	01-Apr-12	BDL	0.025	mg/L	JPK
SW6010B	0	CHROMIUM, TCLP	01-Apr-12	BDL	0.050	mg/L	JPK
SW6010B	0	LEAD, TCLP	01-Apr-12	0.085	0.050	mg/L	JPK
SW6010B	0	SELENIUM, TCLP	01-Apr-12	BDL	0.050	mg/L	JPK
SW6010B	0	SILVER, TCLP	01-Apr-12	BDL	0.050	mg/L	JPK
TCLP As-SW6010B	0	TCLP reg Limit: 5.0 mg/L 1:5 Dilution.					
TCLP Ba-SW6010B	0	TCLP reg Limit: 100 mg/L 1:5 Dilution.					
TCLP Cd-SW6010B	0	TCLP reg Limit: 1.0 mg/L 1:5 Dilution.					
TCLP Cr-SW6010B	0	TCLP reg Limit: 5.0 mg/L 1:5 Dilution.					
TCLP Pb-SW6010B	0	TCLP reg Limit: 5.0 mg/L 1:5 Dilution.					
TCLP Se-SW6010B	0	TCLP reg Limit: 1.0 mg/L 1:5 Dilution.					
TCLP Ag-SW6010B	0	TCLP reg Limit: 5.0 mg/L 1:5 Dilution.					

**Sample Comments**

< Less Than  
 BDL Below Detection Limit  
 NA Not Applicable  
 YES Yes  
 Sample was not received on ice at temperature 24.2 C.  
 Sample chain of custody number HCC.  
 This is a summary report. Complete analytical information can be found in the full Certificate of Analysis, available upon request.

Approved by: CHRISTOPHER BOYLE 02-APR-12

KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT  
BUREAU OF WASTE MANAGEMENT  
BUREAU OF ENVIRONMENTAL FIELD SERVICES

**HAZARDOUS WASTE COMPLIANCE ASSISTANCE VISIT**

**Facility Information**

EPA ID/Permit No. KSD 007 136 872 Number of Employees 100

Facility Name Great Western Manufacturing Co, Inc District Northeast

Street 2017 S 4<sup>th</sup> Street City Leavenworth, KS ZIP 66048

Mailing Address (if different than above) PO Box 149, Leavenworth, KS 66048

County Leavenworth e-mail \_\_\_\_\_

Phone 913-682-2291 Cell Phone \_\_\_\_\_ Fax \_\_\_\_\_

Operating Hours and Days 7-4:30, M-F

Type of Business Sieve manufacturer

Were GPS coordinates previously taken for this facility and recorded in the appropriate database?

Yes  No

If no, did you take the GPS coordinates for this facility and record them in the appropriate database

Yes  No

Generator Classification:  Closed/Inactive  CESQG  KSQG  SQG  LQG  
 Not a Generator  To be Determined

If the facility is inactive and/or closed, please provide an explanation under Facility Description.

Other Regulated Activities:  T/S/D Facility  Tank System  Subpart BB  
(Complete applicable reports)  Universal Waste Activities  Transporter

Does the facility have a total above-ground storage capacity of used oil (excluding containers less than 55-gallons) of more than 1,320 gallons?  Yes  No  NA

If yes, then the facility is subject to SPCC requirements due to used oil activities.

Does the facility have a SPCC Plan?  Yes  No  NA

Did you inform the facility they are subject to SPCC  Yes  No  NA

**Facility Used Oil Activities (Attach a checklist for each one marked):**

Generator  Collection Center / Aggregation Point  
 Transporter / Transfer Facility  Used Oil Processor / Re-Refiner  
 Used Oil Burner (Off-Spec Fuel)  Used Oil Marketer

No Used Oil Activities

**Inspection Information**  Routine  Complaint

Inspection Time 10:20 AM Date(s) March 7 & 8, 2012

Name of person completing this report: Brian D'Alfonso

Inspection Participants (Include name of inspector(s)):

Name	Title	Company/ Agency	Participated In (Check all that apply)				Comments
			Intro Meeting	Walk-Through	Records Review	Exit Briefing	
Brian D'Alfonso	Env Sci	KDHE	X	X	X	X	
Doug Price	EHS Coordinator	Great Western	X	X	X	X	
Steve Wood	Plant Manager	Great Western	X	X		X	
Kevin Watkins	Painter	Great Western		X			
Matt Hutchens	Painter	Great Western		X			

Has the company declared any information/processes as trade secrets KSA 65-3447?  Yes  No  
If yes, explain: NA

Has this facility been previously inspected by EPA and/or KDHE?  Yes  No  
If yes, please summarize the following:

Date	Agency	Description of Violation (do not need to include reg. citations or comments)
9-28-87	KDHE	Container Marking, Container Inspection, Placarding, Personnel Training, Notification

**Changes since the previous inspection:** (Please provide a brief description of any significant process, waste, management, ownership, or other pertinent changes since the previous inspection. If no previous inspection, this section should be blank.)

The facility's contact person has changed since the last inspection.

**Facility Description:** (# of buildings, approximate size of each building, basic activity in each building, processes, etc.), if not already described in previous reports or in changes since previous inspection section of this report:

The facility consists of three buildings. The main building is approximately 40,000 square feet and all manufacturing occurs in the main building. All of the facility's office space is also in the main building. The other two buildings are approximately 5000 square feet each and are used solely for storage.

**Additional Information:** (Include pertinent information from this inspection that does not pertain to violations or comments and is not already discussed in other sections)

This inspection was conducted as a hazardous waste compliance assistance visit (CAV) (see attachment 11). When I arrived at the facility to conduct a routing compliance inspection, Mr. Price informed me that he had submitted the CAV request to Jim Rudeen, Bureau of Waste Management (BWM), one to two weeks prior to my arrival. I contacted Mr. Rudeen to inquire about the facility's CAV application. Mr. Rudeen confirmed that the facility had applied for a CAV. Mr. Rudeen and I decided to conduct the inspection as a CAV. The facility agreed and signed the CAV agreement prior to the inspection.

**Exit Conference:**

Date of Exit Conference: 3-8-12

Were all violations, comments, corrective actions, and response due dates discussed with the facility if applicable?  Yes  No

Was the possibility of additional violations and possible enforcement discussed with the facility?  Yes  No

Were the generator status and applicable regulatory requirements discussed with the facility during the exit briefing and/or previously during the inspection?  Yes  No

List of items provided to facility:

NOC/NONC  Yes  No  
BWM CD  Yes  No  
Container Posters  Yes  No

Other (list): Weekly hazardous waste storage area log template

Summary of additional information presented to facility during exit conference:

List of Attachments:

#	Description of Attachments (List Photolog as last attachment if applicable)
1	NOC/NONC Form
2	Waste Stream Table
3	Sherwin William Lacquer Thinner MSDS
4	Paint Booth Filter Analytical
5	Sta'-Put ST172 MSDS
6	Monthly Hazardous Waste Storage Area Inspection Form
7	Manifests #001464373 GBF
8	Manifests with wrong page count
9	Manifest # 001225800 GBF
10	Waste paint related material LDR
11	Signed CAV Form
12	Photo Log

### Violations and Comments

Were Violations cited:  Yes  No  
Were written comments made:  Yes  No

Provide a detailed description of each violation and comment, including photo references, attachment references, and regulatory citations below:

### Area of Concern / Deficiency

**Deficiency 1 – Unlawful disposal of hazardous waste, in violation of KSA 65-3441(a)(1).**

- Paint booth filters – During my inspection, Mr. Watkins and Mr. Hutchens stated that they clean paint guns in the paint booths by spraying solvents through the guns in the paint booth allowing the filters to catch the waste solvent. Mr. Watkins stated he uses Sherwin Williams Lacquer Thinner (see attachment 3) and straight methyl ethyl ketone (MEK) for cleaning his paint guns. The lacquer thinner is ignitable and contains regulated amounts of toluene, acetone and MEK, making the waste a D001, F003 and F005 hazardous waste. Mr. Hutchens stated he uses straight xylene for cleaning his paint guns, making the waste a F003 hazardous waste. I explained to both painters and Mr. Price that these solvents are listed hazardous wastes when used for cleaning, making the paint booth filters hazardous. I asked Mr. Watkins and Mr. Hutchens how the paint booth filters are disposed of when changed and they the paint booth filters are disposed of in the regular trash. I explained that the paint booth filters must be managed as hazardous waste if the facility keeps cleaning their paint guns in this manner. We then discussed other practices that would keep the paint booth filters from becoming hazardous, such as collecting the cleaning solvents. The facility had tested their paint booth filters for metals and determined they were non-hazardous for heavy metals (see attachment 4).
- Solvent contaminated paper wipes – Paper wipes are being used to clean glue in the wood assembly area with Sta'-Put ST172 thinner (see attachment 5). This solvent contains greater than 10% methylene chloride and trichloroethylene, making the wipes a F002 hazardous waste. I explained to Mr. Price that the wipes must be collected and disposed of as hazardous waste if the facility maintains the same process.

**Deficiency 2 – Failure to determine, as required by 40 CFR 262.11.**

The facility is disposing of waste from two blast cabinets in the regular trash. According to Mr. Price, the waste from these blast cabinets has not been analyzed for heavy metals to make an accurate waste determination. One cabinet is used with glass beads for cleaning stainless steel and the other cabinet is used for cleaning all other metals with Garnett beads. I explained to Mr. Price that the wastes must be tested for heavy metals to make a proper waste determination.

**Deficiency 3 – Failure to maintain written waste determinations, as required by 40 CFR 262.40(c).**

HW Cover Page Revised: 5-2-11

Password = hazardous

At the time of inspection, the facility did not have written waste determinations for all waste streams. Mr. Price produced analytical for waste paint booth filters (see attachment 4), but no other documentation of determinations was presented.

**Deficiency 4 – Failure to label two containers of universal waste with the proper label, as required by 40 CFR 273.14(e).**

At the time of inspection, there were two containers; one box and one light tube that contained waste fluorescent lamps and were not labeled (see photos 1 & 2). There was a third container that was properly labeled. I explained the requirements to Mr. Price and he stated he understood.

**Deficiency 5 – Failure to close one container of universal waste, except when adding or removing waste, as required by 40 CFR 273.13(d)(1).**

One box of universal waste lamps was not closed at the time of inspection (see photo 1). I explained to Mr. Price that all containers of universal waste must be closed at all times except when adding or removing waste.

**Deficiency 6 – Failure to train employees on proper management of universal waste, as required by 40 CFR 273.16.**

Mr. Price stated that no training has been conducted addressing the proper management of universal waste. Also, facility personnel stated they did not know that the containers must be closed and did not know what type of label was required on the containers. I explained to Mr. Price that universal waste management must be included with the facility's waste training. Mr. Price stated he understood.

**Deficiency 7 – Failure to keep all containers of hazardous waste closed at all times except when adding or removing waste, as required by 40 CFR 265.173(a).**

One 55-gallon container of hazardous paint waste had a funnel that did not attach to the drum or latch closed with a seal (see photo 3). I explained the requirements of a closed container to Mr. Price, including funnel types, and explained where he could find the department's technical guidance document on closed hazardous waste containers. Mr. Price stated he understood.

**Deficiency 8 – Failure to conduct weekly inspection of hazardous waste storage areas, as required by 40 CFR 265.174.**

The facility is conducting monthly inspections of hazardous waste storage containers as part of their storm water plan (see attachment 6). I explained to Mr. Price that as a small quantity generator (SQG) of hazardous waste, the facility must conduct these inspections weekly. Mr. Price stated he understood. I left a weekly hazardous waste storage area log template with Mr. Price that he could use.

**Deficiency 9 – Failure to include time of inspection on the hazardous waste storage container inspection log, as required by 40 CFR 265.15(d).**

The facility's inspection log discussed in deficiency 8 was missing the time of inspection (see attachment 6). I explained the items that must be documented during the inspections and explained that the items were all on the template left on site.

**Deficiency 10 – Failure to post emergency information, as required by 40 CFR 262.34(d)(5)(ii).**

The required emergency information was not posted in the facility. I explained to Mr. Price that the facility must post, next to at least one telephone which is accessible with little or no delay, the name and telephone number of emergency coordinator(s), location of fire extinguishers, spill control material, and if available, fire alarms, and the telephone number of the fire department unless the facility has a direct alarm (911 is acceptable). I also explained that if the facility relies solely on cell phones, the information still must be posted, and all posted phone numbers must be programmed into the cell phones. Mr. Price stated he understood.

**Deficiency 11 – Failure to establish a hazardous waste training program, as required by KAR 28-31-262a(d)(1).**

Facility personnel stated that a hazardous waste training program has not been established. I explained the requirements of the facility's training program. Mr. Price stated he understood.

**Deficiency 12 – Wrong EPAID number on manifest, in violation of 40 CFR 262.20(a).**

Manifest number 001464373 GBF contained the EPAID # KSD000136872 (see attachment 7). The facility's EPAID # is KSD007136872. I explained to Mr. Price that the facility must contact their hazardous waste vendor to correct the manifests in the future.

**Deficiency 13 – Failure to include correct page number on multiple manifests, as required by 40 CFR 262.20(a).**

During my record review I observed multiple manifests that included a rider manifest (second page) used solely for extra transporters. The first page of these manifests was not corrected to indicate that a second page was used (see

attachment 8). I explained to Mr. Price that the facility must contact their hazardous waste vendor to correct the manifests in the future.

**Deficiency 14 – Failure to include waste codes on manifests, as required by 40 CFR 262.20(a).**

My inspection showed that the facility's waste paint related material carries waste codes D001, F003, F005, and D035 at a minimum. The facility's manifests show the waste to carry waste codes F003, F005, D007 and D008 (see attachments 7, 8, & 9). During my record review, facility personnel provided me with analytical results that showed the waste does not contain regulated levels of heavy metals (see attachment 4), thus waste codes D007 and D008 do not need to be included on the waste manifest. I explained to Mr. Price that the facility must contact their hazardous waste vendor to correct the manifests in the future.

**Deficiency 15 – Failure to retain a copy of the manifest signed and dated by the designated facility, as required by CFR 262.40(a)**

The facility only had the initial copy of manifest # 001225800 GBF (see attachment 9). I explained to Mr. Price that the signed manifest must be maintained for three years. I also explained what the facility should do if the signed copy is never received. Mr. Price stated he understood.

**Deficiency 16 – Failure to include manifest number and waste codes on the land disposal restriction notification form (LDR), as required by 40 CFR 268.7(a)(2).**

The facility had multiple LDRs for the waste paint related material waste stream (see attachment 10). None of the LDRs included the proper waste codes as discussed in deficiency 14 or a manifest number. I explained to Mr. Price that the facility should contact their waste vendor and ensure that a proper LDR is sent with the next manifest to the TSDF. I also explained that a corrected LDR must be maintained on site, and could be used to replace the old LDRs. Mr. Price stated he understood.



# HAZARDOUS WASTE GENERATOR COMPLIANCE INSPECTION REPORT

## GENERAL REQUIREMENTS (GGR)

- |  | YES                                 | NO                                  | NAV#                                |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Has the generator evaluated each potentially hazardous waste to determine if it is hazardous? <b>40 CFR 262.11</b>  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> 2          |
| a. If waste was tested, was the analysis conducted by a laboratory certified by KDHE? <b>KAR 28-31-262(c)(2)</b>   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| b. If waste was not tested, did the generator use knowledge of the hazardous characteristics of the waste in light of the materials or processes used? <b>40 CFR 262.11(c)(2)</b>        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| c. Is documentation of the waste determination kept for three years from the date the waste was last sent to on-site or off-site treatment, storage or disposal? <b>40 CFR 262.40(c)</b> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> 3          |
| 2. If hazardous waste is disposed of via the sanitary sewer to a Publicly Owned Treatment Works (POTW), has the generator received written approval from the City - POTW?                | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 3. Has the facility obtained a Special Waste Disposal Authorization (SWDA) for each special waste? <b>KAR 28-29-109(c)</b>   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 4. If the generator treats or recycles hazardous waste on-site (such as in a still), do they count waste correctly? <b>40 CFR 261.5(d)(2)</b>  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| a. If the waste is not counted, is it exempt because of a closed-loop system?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 5. Has the KSQG, SQG, or LQG notified KDHE and obtained an EPA Identification Number? <b>40 CFR 262.12(a)</b> (Mark NA only for CESQG)   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 6. Is current notification accurate? (Updates must be made within 60 days of the change) <b>KAR 28-31-4</b>  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |

## UNIVERSAL WASTE

- |  |                                     |                                     |                                     |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 7. Does the facility choose to manage some of its waste as universal waste? If no, skip this section. If yes, check each type of universal waste that applies:   |                                     |                                     |                                     |
| <input type="checkbox"/> batteries   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| <input type="checkbox"/> pesticides  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| <input type="checkbox"/> mercury-containing equipment  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| <input checked="" type="checkbox"/> lamps  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 8. Is the facility a small quantity handler of universal waste (accumulates <11,000 lbs or <5,000 kgs)? If the facility is a large quantity handler of universal waste, explain under "additional information" and skip the remaining questions in this section. These questions are designed only for small quantity handlers of universal waste. | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 9. If the facility manages mercury-containing equipment, do they remove mercury-containing ampules from equipment?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| If yes, are the requirements of 40 CFR 273.13(c)(2) met? (These include using secondary containment during the removal, having a mercury spill kit available, training employees, and other requirements.) <b>40 CFR 273.13(c)(2)</b>  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

YES NO NA V#

10. Are all universal wastes managed in closed containers that are structurally sound, adequate to prevent breakage, compatible with the contents of the container, lack evidence of leakage, spillage, or damage that could cause leakage under reasonably foreseeable conditions?
- a. Batteries (only damaged or leaking batteries must be contained) 40 CFR 273.13(a)(1)
  - b. Pesticides 40 CFR 273.13(b)(1)
  - c. Mercury-containing equipment 40 CFR 273.13(c)(1)
  - d. Lamps 40 CFR 273.13(d)(1)    5
11. Is each container (or unit if not containerized) marked appropriately with one of the following phrases (substitute the appropriate universal waste for the blank)?  
"Universal Waste-\_\_\_\_\_", or "Waste \_\_\_\_\_" or "Used \_\_\_\_\_"?
- a. Batteries (only damaged or leaking batteries must be contained) 40 CFR 273.14(a)
  - b. Pesticides 40 CFR 273.14(c) Note: cannot use the words "Used Pesticides"  
1. Is the original pesticide label or other approved label, also present?
  - c. Mercury-containing equipment (the word "thermostat" can be substituted for the words "containing equipment") 40 CFR 273.14(d)
  - d. Lamps 40 CFR 273.14(e)    4
12. Can the accumulation time (date became a waste or from receipt date) be demonstrated by date on container, date in accumulation area, date on individual waste items, inventory system, or other method? 40 CFR 273.15(c)
13. Have employees been trained on proper management of universal waste? 40 CFR 273.16    6
14. Has there been a release of universal waste at this facility?  
If yes, was it cleaned up and a proper waste determination made on the cleaned up material? 40 CFR 273.17(b)
15. Is universal waste sent to another universal waste handler or a destination facility? 40 CFR 273.18(a)
- a. Has a shipment sent by this handler ever been rejected? (if yes, explain in additional information section.)
  - b. Has a shipment been sent to a foreign destination? (if yes, explain in additional information section.)

Note: Small quantity handlers are not required to keep records of shipments of universal waste.

**GENERATOR REQUIREMENTS**

YES NO NAV#

16. Is the CESQG recycling, treating, or disposing of hazardous waste on-site in an acceptable manner? 40 CFR 261.5(g)
- If yes, describe \_\_\_\_\_  
(If described on the waste stream table, don't repeat here.)
17. If the CESQG is accumulating less than 55 lbs (25 kgs) of hazardous waste on-site, is the CESQG sending this waste off-site for treatment, storage, or disposal according to? 40 CFR 261.5(g)
- If yes, describe \_\_\_\_\_  
(If described on the waste stream table, don't repeat here.)

(If Non-Accumulating CESQG, stop here)

- |   | YES                      | NO                       | NA                                  | V# |
|---|--------------------------|--------------------------|-------------------------------------|----|
| 18. If the CESQG is accumulating 55 lbs (25 kgs) or more of hazardous waste, is the CESQG sending waste off-site for treatment, storage, or disposal, to a TSD or some other approved waste management facility (HHW)? <b>KAR 28-31-262a(f)(2)(B)</b>   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |    |
| 19. Does generator package, label (flammable liquid, poison, etc.), and mark (consignee's or consignor's name and address, etc.) waste in accordance with the requirements outlined in 49 CFR Parts 172, 173, 178, and 179 (DOT)?<br><b>40 CFR 262.30 (package), 40 CFR 262.31 (label), 40 CFR 262.32(a) and (b) (mark)</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |    |
| 20. Does the generator only use a transporter who has registered with KDHE and obtained an EPA Identification Number? <b>KAR 28-31-262a(a)(2)</b>   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |    |

<b>CONTAINER MANAGEMENT REQUIREMENTS</b>
--

**NOTE: SAA refers to Satellite Accumulation Area. SAAs do not apply to CESQGs, whose containers must all meet storage requirements.**

- |   |                                     |                                     |                                     |   |
|---|-------------------------------------|-------------------------------------|-------------------------------------|---|
| 21. For the SAA, is 55-gallons or less of each waste stream accumulated at or near the point of generation, in one container, which is under the control of the operator of the process generating that waste? <b>KAR 28-31-262(c)(6)</b>   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |   |
| 22. Is each container managed as a storage container within three days of no longer meeting the definition of a satellite container? <b>40 CFR 262.34(c)(2)</b><br>[Note: If this satellite container violation is cited, do not cite storage container violations (weekly inspections and accumulation start date) for the same containers.] | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |   |
| 23. Is the accumulation start date marked on each <u>storage</u> container? <b>40 CFR 262.34(a)(2)</b>  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |   |
| 24. Is each container clearly marked with the words "Hazardous Waste"?<br><b>40 CFR 262.34(a)(3) [storage] or KAR 28-31-262(c)(7) [SAA]</b>   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |   |
| 25. Are all containers holding hazardous waste in good condition? <b>40 CFR 265.171</b>   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |   |
| 26. Are all containers holding hazardous waste compatible with the contents? <b>40 CFR 265.172</b>  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |   |
| 27. Are all containers holding hazardous waste closed except when necessary to add or remove waste? <b>40 CFR 265.173(a)</b>  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 7 |
| 28. Does the <u>CESQG</u> or <u>KSQG</u> conduct inspections at least every 31 days looking for signs of deterioration and leaks in containers in <u>storage</u> ?<br><b>KAR 28-31-262a(f)(2)(A) [CESQG] or KAR 28-31-262a(e)(2) [KSQG]</b>   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |   |
| Or<br>Does the <u>SQG</u> or <u>LQG</u> conduct weekly inspections of areas where containers are stored for signs of leakage and/or deterioration caused by corrosion or other factors?<br><b>40 CFR 265.174</b>  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 8 |
| 29. If the answer to question 28 was yes, are these inspections documented in a log that includes complete date and time of inspection, name of inspector, notations of observations, and date and nature of remedial actions? <b>40 CFR 265.15(d)</b>  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 9 |

- |   | YES                      | NO                       | NA                                  | V# |
|---|--------------------------|--------------------------|-------------------------------------|----|
| 30. Incompatible wastes:  |                          |                          |                                     |    |
| a. If incompatible wastes or incompatible wastes and materials were placed in the same container, were the requirements of 40 CFR 265.17(b) complied with? <b>40 CFR 265.177(a)</b>   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |    |
| b. If hazardous waste was placed in an unwashed container that previously held incompatible waste or material, were the requirements of 40 CFR 265.17(b) complied with? <b>40 CFR 265.177(b)</b>  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |    |
| c. If storage containers of hazardous waste are incompatible with any waste or other materials stored nearby, are the containers separated from the other materials by means of a dike, berm, wall or other means? <b>40 CFR 265.177(c)</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |    |
| 31. Are <u>storage</u> containers holding ignitable or reactive waste(s) located at least 50 feet (15 meters) from the generator's property line? <b>(LQG Only) 40 CFR 265.176</b>  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |    |
| 32. Are storage containers currently meeting all AA, BB, and CC requirements <b>(LQG Only) 40 CFR 265.178</b>   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |    |
| 33. If the CESQG or KSQG is accumulating (including SAAs) 2,200 lbs (1,000 kgs) or more of hazardous waste, check yes and continue with SQG generator requirements.   | <input type="checkbox"/> |                          | <input checked="" type="checkbox"/> |    |
| 34. If the CESQG or KSQG or SQG is accumulating (including SAAs) 2.2 lbs (1 kgs) or more of acutely hazardous waste, check yes and continue with LQG generator requirements.  | <input type="checkbox"/> |                          | <input checked="" type="checkbox"/> |    |
- (If Accumulating CESQG, <2,200 lbs, stop here)**

- |   |                          |                          |                                     |  |
|---|--------------------------|--------------------------|-------------------------------------|--|
| 35. Is the SQG storing 13,200 lbs (6,000 kgs) or less of hazardous waste for 180 days or less (270 days if transporting waste more than 200 highway miles)? <b>40 CFR 262.34(d)</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |  |
| 36. Is the LQG storing hazardous waste for 90 days or less? <b>40 CFR 262.34(a)</b>   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |  |

<b>REPORTING AND RECORDKEEPING</b>
------------------------------------

- |   |                                     |                          |                                     |  |
|---|-------------------------------------|--------------------------|-------------------------------------|--|
| 37. Has the generator (KSQG, SQG, and LQG) submitted an annual monitoring fee and report to KDHE indicating their current generator status on a form provided by the department? (LQGs are required to pay the annual fee every year, but this report is only required to be submitted in the odd years when the biennial report is not submitted.) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |  |
| <b>KAR 28-31-262a(b) (if neither report nor fee were submitted)</b>   |                                     |                          |                                     |  |
| <b>KAR 28-31-10(a) (if only fee is missing)</b>   |                                     |                          |                                     |  |
| 38. If yes to number 37, was a copy of the report kept for a minimum of 3 years after the date of the signature on the report? <b>KAR 28-31-262a(b)(4)</b>  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |  |
| 39. Has the LQG submitted biennial report(s) to KDHE by March 1 of even years? <b>40 CFR 262.41(a)</b>  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |  |
| a. Does the LQG retain a copy of the biennial report for three years? <b>40 CFR 262.40(b)</b>   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |  |
| 40. If the generator has exported/imported hazardous waste to/from a foreign source, did they comply with the requirements of <b>40 CFR 262.53(a), 40 CFR 262.54, and/or 40 CFR 262.60(a)</b> ?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |  |

If hazardous waste was exported or imported to/from a foreign source, please describe under "additional information".

**EMERGENCY PREPAREDNESS AND TRAINING REQUIREMENTS FOR KSQGs AND SQGs**

YES NO NA V#

*If the KSQG or SQG is not accumulating hazardous waste on-site, skip to question 47.*

41. Has the KSQG or SQG designated at least one employee as an emergency coordinator and are they on the premises or available to respond to an emergency by reaching the facility within a short period of time (30 minutes)? **40 CFR 262.34(d)(5)(i)**
42. Is the emergency coordinator or his/her designee prepared to respond to any emergencies (fires, spills, or releases) that arise? **40 CFR 262.34(d)(5)(iv)**
43. Is the following information posted next to at least one telephone which is accessible with little or no delay in an emergency? **40 CFR 262.34(d)(5)(ii)**    10  
 (Note: cite 262.34(d)(5)(ii) if no information is posted.)
- a. Name and telephone number of emergency coordinator(s)? **40 CFR 262.34(d)(5)(ii)(A)**
- b. Location of fire extinguishers and spill-control material, and if available, fire alarms? **40 CFR 262.34(d)(5)(ii)(B)**
- c. Telephone number of fire department unless facility has a direct alarm (911 is acceptable)? **40 CFR 262.34(d)(5)(ii)(C)**
44. If the facility has no telephone (land line), and relies solely on cell phones:
- a. Is the information required in 43a through 43c posted on wall so that it can be readily seen by employees? **KAR 28-31-262(c)(8)**
- b. Have the phone numbers required in 42a and 42c been programmed into the cell phones of management personnel? **KAR 28-31-262(c)(8)**
45. Has the KSQG or SQG established a hazardous waste management training program meeting the requirements of 40 CFR 262.34(d)(5)(iii)?    11  
**KAR 28-31-262a(d)(1) (SQG) or KAR 28-31-262a(e)(4) (KSQG)**
- a. Are new personnel trained within six months after their employment or placement to a new position? **KAR 28-31-262a(d)(1)(A) (SQG) or KAR 28-31-262a(e)(4)(A) (KSQG)**
- b. After initial training, are employees trained on an annual basis? **KAR 28-31-262a(d)(1)(B) (SQG) or KAR 28-31-262a(e)(4)(B) (KSQG)**
- c. Was a record kept of the name of each employee trained, the date of the training, and the topics covered in the training **KAR 28-31-262a(d)(1)(C) (SQG) or KAR 28-31-262a(e)(4)(C) (KSQG)**
- d. Was the record of training kept for three years from the date of the training? **KAR 28-31-262a(d)(1)(D) (SQG) or KAR 28-31-262a(e)(4)(D) (KSQG)**
- e. If the KSQG or SQG relies on cell phones, have employees managing hazardous waste been trained on the locations of these postings? **KAR 28-31-262(c)(8)**

**PERSONNEL TRAINING FOR LQGs**

YES NO NA V#

46. Has the LQG established a hazardous waste management training program? **40 CFR 265.16(a)(1)**
- a. Is the program directed by a person trained in hazardous waste management? **40 CFR 265.16(a)(2)**
- b. Are new personnel trained within six months after their employment or placement to a new position? **40 CFR 265.16(b)**
- c. Are new employees supervised until training is completed? **40 CFR 265.16(b)**

- |  | YES                      | NO                       | NA                                  | V# |
|--|--------------------------|--------------------------|-------------------------------------|----|
| d. After initial training, are employees trained on an annual basis? 40 CFR 265.16(c)  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |    |
| e. Does the generator maintain the following documents and records: 40 CFR 265.16(d)   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |    |
| 1. Job title for each position related to hazardous waste management and the name of the employee filling each job? 40 CFR 265.16(d)(1)                                | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |    |
| 2. Written job description for each position? 40 CFR 265.16(d)(2)  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |    |
| 3. Description of type and amount of both introductory and continuing training to be given to each person? 40 CFR 265.16(d)(3)   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |    |
| 4. Records of training or job experience completed by facility personnel? 40 CFR 265.16(d)(4)  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |    |
| 5. Are training records kept until closure of the facility (for current employees) and for three years from last date of employment (past employees)? 40 CFR 265.16(e) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |    |

### MANIFEST REQUIREMENTS

- |  |                                     |                                     |                                     |    |
|--|-------------------------------------|-------------------------------------|-------------------------------------|----|
| 47. If a contractual agreement is used in place of manifesting, (KSQG and SQG only)  |                                     |                                     |                                     |    |
| a. Does the contractual agreement include the type of waste and frequency of shipments? 40 CFR 262.20(e)(1)(i)   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |    |
| b. Is the vehicle used to transport the waste owned and operated by the reclaimer of the waste? 40 CFR 262.20(e)(1)(ii)  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |    |
| c. Is a copy of the agreement kept for a period of at least three years after termination of agreement? 40 CFR 262.20(e)(2)  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |    |
| 48. If required, is a hazardous waste manifest used? 40 CFR 262.20(a)  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |    |
| 49. If yes to number 48, does the manifest include the following (numbers correspond to the appropriate section of the manifest)? 40 CFR 262.20(a)                             |                                     |                                     |                                     |    |
| 1. Generator EPA identification number (12-digit)  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 12 |
| 2. Number of pages?  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 13 |
| 3. Emergency response phone number?<br>(may be entered after manifest item 9b only if different emergency response number(s) applies to different wastes on the manifest)      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |    |
| 4. Manifest Tracking Number (must be pre-printed)  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |    |
| 5. Generator's name, mailing address, phone number, and site address   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |    |
| 6. Transporter 1 company name and EPA ID number  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |    |
| 7. Transporter 2 company name and EPA ID number  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |    |
| a. If more than 2 transporters were used, was a continuation sheet used?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |    |
| 8. Designated facility name, site address, phone number, and EPA ID number?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |    |
| 9. US DOT description (including proper shipping name, hazardous class or division, ID number, and packing group)  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |    |
| 9a. If hazardous and non-hazardous materials/wastes are listed on separate lines in Item 9b, is an "x" marked in item 9a next to the corresponding hazardous materials/wastes? | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |    |
| 10. Number and type of containers?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |    |
| 11. Total quantity of waste?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |    |
| 12. Unit of measure (weight or volume)?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |    |
| 13. Waste codes (up to 6 can be entered)?  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 14 |
| 14. Special handling instructions (if applicable)?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |    |
| 15. Generator's/offenor's printed/typed name, signature, and date?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |    |
| 16. Does the manifest apply to international shipment?<br>If yes, did the primary exporter comply with all applicable requirements?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |    |
| 17. Printed name, signature and dates received by transporter 1?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |    |
| 18. Printed name, signature and date received by transporter 2?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |    |



- |  | YES                                 | NO                                  | NA                                  | V# |
|--|-------------------------------------|-------------------------------------|-------------------------------------|----|
| 50. Does the generator retain a copy of each initial manifest signed and dated by both generator and initial transporter until the copy signed and dated by the designated facility is received? <b>40 CFR 262.40(a)</b>                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |    |
| 51. Does the generator retain a copy of each manifest for three years that was signed and dated by a representative of the designated facility? <b>40 CFR 262.40(a)</b>  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 15 |
| 52. If the LQG did not receive a copy of the manifest within 35 days that had been signed by the designated facility, did they contact the transporter and/or designated facility to determine the status of their hazardous waste? <b>40 CFR 262.42(a)(1)</b> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |    |
| a. If the LQG was unable to locate their waste through contact with the transporter and/or designated facility, and still had not received a copy of the manifest within 45 days, did they file an exception report with KDHE? <b>40 CFR 262.42(a)(2)</b>      | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |    |
| 53. If the KSQG or SQG did not receive a copy of the manifest within 60 days that had been signed by the designated facility, did they submit to KDHE a legible copy of the manifest with an explanation of the situation? <b>40 CFR 262.42(b)</b>             | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |    |

<b>LAND DISPOSAL RESTRICTION REQUIREMENTS</b>
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- |   | YES                                 | NO                       | NA                                  | V# |
|---|-------------------------------------|--------------------------|-------------------------------------|----|
| 54. If the generator's waste is <b>not</b> subject to the Land Disposal Restrictions regulations, please explain why: _____   |                                     |                          |                                     |    |
| 55. If the SQG or LQG sent waste meeting or not meeting the treatment standards to an off-site TSDF, did the generator provide a one-time written notice for each different waste stream?<br><b>40 CFR 268.7(a)(2)</b> (not meeting treatment standards) or<br><b>40 CFR 268.7(a)(3)</b> (meeting treatment standards)  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | 16 |
| a. Did the notice include the following (mark each that it includes):   |                                     |                          |                                     |    |
| <input type="checkbox"/> EPA hazardous waste numbers (waste codes);   |                                     |                          |                                     |    |
| <input type="checkbox"/> manifest number for first shipment of waste;   |                                     |                          |                                     |    |
| <input type="checkbox"/> Constituents of concern for F001-F005, F039, and underlying hazardous Constituents in characteristic wastes (unless the waste will be treated and monitored for all constituents. If all constituents will be treated and monitored, there is no need to put them all on the LDR notice)   |                                     |                          |                                     |    |
| <input checked="" type="checkbox"/> applicable wastewater or non-wastewater category and subdivisions   |                                     |                          |                                     |    |
| <input checked="" type="checkbox"/> waste analysis data (if available)  |                                     |                          |                                     |    |
| b. If the generator chose not to make the determination of whether his/her waste must be treated, did he/she provide a one-time written notice that includes EPA hazardous waste numbers (waste codes); manifest number of the first shipment; and states "This hazardous waste may or may not be subject to the LDR treatment standards. The treatment facility must make the determination."? <b>40 CFR 268.7(a)(2)</b> | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |    |
| c. If the waste met the treatment standards, did the notice include the required certification statement? <b>40 CFR 268.7(a)(3)</b>   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |    |
| 56. If the KSQG, SQG, or LQG treated waste in tanks or containers to meet applicable treatment standards:   |                                     |                          |                                     |    |
| a. Did the generator have a written waste analysis plan on-site describing procedures used to comply with the treatment standards? <b>40 CFR 268.7(a)(5)</b>  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |    |
| b. If the generator sent the treated waste off-site, did the generator provide a notice and signed certification statement with the initial shipment?<br><b>40 CFR 268.7(a)(5)(iii)</b>   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |    |

- |  | YES                                 | NO                       | NA                                  | V# |
|--|-------------------------------------|--------------------------|-------------------------------------|----|
| 57. Has the SQG or LQG retained copies of all notices, certifications, waste analysis data, and other documents for at least 3 years from the last date the corresponding waste was last managed on-site or shipped off-site?<br><b>40 CFR 268.7(a)(8)</b>       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |    |
| 58. If the SQG or LQG is managing a labpack and using with the initial shipment of waste the alternate treatment standards found at 40 CFR 268.42(c), did they provide a notice that includes the required certification statement?<br><b>40 CFR 268.7(a)(9)</b> | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |    |
| 59. If the SQG or LQG claims that their characteristic waste, including all applicable underlying hazardous constituents, is no longer hazardous, does the generator maintain a current, signed, one-time notice in their files?<br><b>40 CFR 268.9(d)</b>       | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |    |

**Note:** If a generator's waste is subject to any Land Disposal Restriction regulations not covered above, then please discuss these situations under "additional information".

<b>PREPAREDNESS AND PREVENTION REQUIREMENTS</b>
---

- |  | YES                                 | NO                       | NA                       | V# |
|--|-------------------------------------|--------------------------|--------------------------|----|
| 60. Has the generator maintained and operated the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents?<br><b>40 CFR 265.31</b>   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |    |
| 61. <b>If appropriate</b> , based upon the nature and quantity of each waste generated and stored at the facility, is the facility equipped with:  |                                     |                          |                          |    |
| a. Internal communications or alarm system easily accessible in case of emergency?<br><b>40 CFR 265.32(a)</b>  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |    |
| b. Telephone or hand-held two-way radio capable of summoning emergency assistance from local police departments, fire departments, or State or local emergency response teams?<br><b>40 CFR 265.32(b)</b>  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |    |
| c. Portable fire extinguishers, fire control equipment, spill control equipment, and decontamination equipment?<br><b>40 CFR 265.32(c)</b>   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |    |
| d. Water of adequate volume and pressure to supply hose streams, or foam producing equipment, automatic sprinklers, or water spray systems?<br><b>40 CFR 265.32(d)</b>   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |    |
| 62. Is the equipment (60a-60c above) tested and maintained to ensure its proper operation?<br><b>40 CFR 265.33</b>   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |    |
| 63. Do personnel have immediate access to an internal alarm or emergency communication device, either directly or through visual or voice contact with another employee, when handling hazardous waste (unless such a device is not required under (40 CFR 265.32)?<br><b>40 CFR 265.34(a) and/or 40 CFR 265.34(b)</b> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |    |
| 64. Does a check of the facility show sufficient aisle space to allow unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment, unless aisle space is not needed for any of these purposes?<br><b>40 CFR 265.35</b>                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |    |

65. **As appropriate**, for each type of waste handled, has the generator attempted to make the following arrangements:
- a. Familiarized the local emergency authorities with the facility layout, properties and hazards of each waste handled, locations of workers, entrances to facility roads, and possible evacuation routes? **40 CFR 265.37(a)(1)**
  - b. Designated one authority where more than one police or fire department might respond to an emergency? **40 CFR 265.37(a)(2)**
  - c. Made agreements with state emergency response teams, emergency response contractors, and equipment suppliers? **40 CFR 265.37(a)(3)**
  - d. Familiarized local hospitals with the properties of hazardous waste handled and types of injuries or illnesses which could result from fires, explosions, or releases at the facility? **40 CFR 265.37(a)(4)**
66. In cases where state or local authorities decline to enter into such arrangements, is the refusal documented? **40 CFR 265.37(b)**

(If KSQG or SQG, stop here)

**CONTINGENCY PLAN FOR LQGs**

- |  | YES                      | NO                       | NA                       | V# |
|--|--------------------------|--------------------------|--------------------------|----|
| 67. Does the generator have a contingency plan? <b>40 CFR 265.51(a)</b>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |    |
| If yes,  |                          |                          |                          |    |
| a. Does the plan list the name, home address, and phone numbers (home and office) of each designated emergency coordinator in the order in which they should be contacted? <b>40 CFR 265.52(d)</b>                                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |    |
| b. Is an emergency coordinator available at all times? <b>40 CFR 265.55</b>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |    |
| c. Does the plan describe emergency actions facility personnel must take to respond to fires, explosions, or releases of hazardous waste or hazardous constituents? <b>40 CFR 265.52(a)</b>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |    |
| d. Does the plan describe arrangements made with police, fire departments, hospitals, contractors, or any emergency response agency? <b>40 CFR 265.52(c)</b>   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |    |
| e. Does the plan include an up to date list of all emergency equipment at the facility, its location, a physical description of each item on the list, and a brief outline of the capabilities of each item? <b>40 CFR 265.52(e)</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |    |
| f. Does the plan include an evacuation plan for facility personnel that describes signals to be used and evacuation routes? <b>40 CFR 265.52(f)</b>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |    |
| g. Has the plan been amended, if the following occurred: <b>40 CFR 265.54</b>  |                          |                          |                          |    |
| 1. Applicable regulations were revised? <b>40 CFR 265.54(a)</b>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |    |
| 2. The plan failed in an emergency? <b>40 CFR 265.54(b)</b>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |    |
| 3. There is an applicable change to the facility? <b>40 CFR 265.54(c)</b>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |    |
| 4. The list of emergency coordinators changes? <b>40 CFR 265.54(d)</b>   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |    |
| 5. The list of emergency equipment changes? <b>40 CFR 265.54(e)</b>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |    |
| h. Is a copy of the plan and any revisions maintained at the facility? <b>40 CFR 265.53(a)</b>   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |    |
| i. Have copies of the plan and any revisions been provided to the police and fire departments, hospitals, and any emergency response agency that may respond to an emergency? <b>40 CFR 265.53(b)</b>                                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |    |
| j. If implementation of the plan has been required at the facility, did the generator submit a written report on the incident to the KDHE within 15 days after the incident? <b>40 CFR 265.56(i)</b>                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |    |

V# = Violation Number  
 Checklist Revised July 12, 2011

**ATTACHMENT:**

**1**



**Notice of Deficiency**  
March 14, 2012

Steve Wood  
Great Western Manufacturing Co., Inc.  
2017 South 4<sup>th</sup> Street  
Leavenworth, KS 66048-3928

**RE: Hazardous Waste Compliance Assistance Visit, Great Western Mfg. Co., Inc., EPAID:  
KSD007136872, Leavenworth County, Kansas**

Dear Mr. Wood,

On March 7, 2012, I conducted a compliance assistance visit (CAV) at the above referenced facility to determine compliance with Kansas Administrative Regulations (KAR) and Kansas Statutes Annotated (KSA). This visit was conducted under the authority of the CAV agreement entered into on October 18, 2011. As a result of the visit, 16 deficiencies were observed as follows:

**Deficiency 1 – Unlawful disposal of hazardous waste, in violation of KSA 65-3441(a)(1).**

- Paint booth filters – During my inspection, facility personnel stated that they clean paint guns in the paint booths by spraying solvents through the guns in the paint booth allowing the filters to catch the waste solvent. Solvents used for cleaning paint guns contained regulated amounts of methyl ethyl ketone, toluene, xylene, methanol and acetone. These solvents make the paint booth filters hazardous waste and must be managed as such. Facility personnel stated that paint booth filters are disposed of in the regular trash. In the future, if the same solvents are used, paint guns should be cleaned into a container managed as a hazardous waste container, or the paint booth filters must be managed as hazardous waste. The paint booth filters that were in the paint booths on the day of inspection must be managed as hazardous waste.
- Solvent contaminated paper wipes – Paper wipes are being used to clean glue in the wood assembly area with Sta'-Put ST172 thinner. This solvent contains regulated amounts of methylene chloride and trichloroethylene. The wipes are considered hazardous and must be managed appropriately, as discussed during the visit.

**Deficiency 2 – Failure to determine, as required by 40 CFR 262.11.**

The facility is disposing of waste from two blast cabinets in the regular trash. According to facility personnel, the waste from these blast cabinets has not been analyzed for heavy metals to make an accurate waste determination. The facility must sample waste from each blast cabinet separately. The samples should be tested for RCRA heavy metals. The waste does not need to be tested for mercury. The facility should have a toxicity characteristic leaching procedure (TCLP) test conducted on each sample to determine if the waste is hazardous or not. Results from the analysis should be submitted with the facility's response.

**Deficiency 3 – Failure to maintain written waste determinations, as required by 40 CFR 262.40(c).**

The facility must maintain a written waste determination for all wastes streams that are potentially hazardous. At the time of inspection, the facility did not have written waste determinations for all waste streams.

**Deficiency 4 – Failure to label two containers of universal waste with the proper label, as required by 40 CFR 273.14(e).**

At the time of inspection, there were two containers, one box and one light tube, that contained waste fluorescent lamps and were not labeled. Containers of waste lamps that are being managed as universal waste must be labeled “Universal Waste Lamps”, “Waste Lamps” or “Used Lamps”.

**Deficiency 5 – Failure to close one container of universal waste, except when adding or removing waste, as required by 40 CFR 273.13(d)(1).**

One box of universal waste lamps was not closed at the time of inspection. Waste lamps were not being added or removed at the time of inspection. All containers of universal waste must remain closed at all times except when adding or removing waste.

**Deficiency 6 – Failure to train employees on proper management of universal waste, as required by 40 CFR 273.16.**

Facility personnel stated that no training has been conducted addressing the proper management of universal waste. Also, facility personnel stated they did not know that the containers must be closed and did not know what type of label was required on the containers.

**Deficiency 7 – Failure to keep all containers of hazardous waste closed at all times except when adding or removing waste, as required by 40 CFR 265.173(a).**

One 55-gallon container of hazardous paint waste had a funnel that did not attach to the drum or latch closed with a seal. To meet the state’s requirements for a closed container, if using a funnel, the funnel must screw into the bung hole of the drum and must latch closed in a manner that keeps the waste from volatilizing and spilling out if the container is knocked over.

**Deficiency 8 – Failure to conduct weekly inspection of hazardous waste storage areas, as required by 40 CFR 265.174.**

The facility is conducting monthly inspections of hazardous waste storage containers, but not weekly inspections. As a small quantity generator (SQG) of hazardous waste, the facility must conduct these inspections weekly.

**Deficiency 9 – Failure to include time of inspection on the hazardous waste storage container inspection log, as required by 40 CFR 265.15(d).**

The facility’s weekly inspection log must include complete date and time of inspection, name of inspector (no initials), notations and observations, and date and nature of remedial actions. The facility’s inspection log was missing the time of inspection.

**Deficiency 10 – Failure to post emergency information, as required by 40 CFR 262.34(d)(5)(ii).**

The facility must post, next to at least one telephone which is accessible with little or no delay, the name and telephone number of emergency coordinator(s), location of fire extinguishers, spill control material, and if available, fire alarms, and the telephone number of the fire department unless the facility has a direct alarm (911 is acceptable). If the facility relies solely on cell phones, the information still must be posted, and all posted phone numbers must be programmed into the cell phones.

**Deficiency 11 – Failure to establish a hazardous waste training program, as required by KAR 28-31-262a(d)(1).**

Facility personnel stated that a hazardous waste training program has not been established. The facility must establish a hazardous waste training program that meets the requirements of 40 CFR 262.34(d)(5)(iii).



The employees must be trained within six months of employment and then on an annual basis after that. A record of the training must be kept of each employee trained, the date of training and the topics covered, for a minimum of three years from the date of training. If the facility relies on cell phones, the training must include the location of the emergency postings.

**Deficiency 12 – Wrong EPAID number on manifest, in violation of 40 CFR 262.20(a).**

Manifest number 001464373 GBF contained the EPAID # KSD000136872. The facility's EPAID # is KSD007136872. The facility should contact their waste vendor and ensure that the correct number is used in the future.

**Deficiency 13 – Failure to include correct page number on multiple manifests, as required by 40 CFR 262.20(a).**

During my record review I observed multiple manifests that included a rider manifest (second page) used solely for extra transporters. The first page of these manifests were not corrected to indicate that a second page was used. The facility should contact their waste vendor and ensure that all corrections are made to manifest as required in the future.

**Deficiency 14 – Failure to include waste codes on manifests, as required by 40 CFR 262.20(a).**

The facility must list up to six waste codes that describe the waste being shipped. My inspection showed that the facility's waste paint related material carries waste codes D001, F002, F003, F005, D035 at a minimum. The facility's manifests show the waste to carry waste codes F003, F005, D007 and D008. During my record review, facility personnel provided me with analytical results that showed the waste does not contain regulated levels of heavy metals, thus waste codes D007 and D008 do not need to be included on the waste manifest. The facility should contact their waste vendor to ensure that the proper waste codes are included on all future hazardous waste shipments.

**Deficiency 15 – Failure to retain a copy of the manifest signed and dated by the designated facility, as required by CFR 262.40(a)**

The facility must retain a copy of each initial manifest signed and dated by both the generator and the initial transporter until a copy signed and dated by the designated facility is received. Once the copy is received from the designated facility, it must be retained for three years from the date of shipment.


**Deficiency 16 – Failure to include manifest number, waste codes and constituents of concern on the land disposal restriction notification form, as required by 40 CFR 268.7(a)(2).**

The facility must provide a one-time written notice for each waste stream to the off-site treatment, storage, disposal facility (TSDF) that receives the facilities waste. This notification must include the EPA hazardous waste numbers (waste codes), manifest number for the shipment of waste that the notice was shipped with, constituents of concern for F001-F005, F039 and underlying hazardous constituents in characteristic wastes, applicable wastewater or non-wastewater category and subdivisions and waste analysis data (if available). The facility had multiple LDRs for the waste paint related material waste stream. None of the LDRs included the proper waste codes as discussed in deficiency 14 or a manifest number. Also, the list of constituents of concerns did not include methylene chloride or trichloroethylene. The facility should contact their waste vendor and ensure that a proper LDR is sent with the next manifest to the TSDF. This LDR can be used to replace past LDRs that are on-site. The LDR must be retained for three years after the last time the waste is generated.

This notice is provided to call immediate attention to those areas of non-compliance. This notice does not constitute a compliance order issued by KDHE and may not be a complete listing of all violations which may be identified as a result of this inspection. You must submit in writing by April 16, 2012, all requested materials

Your cooperation with the waste management program is appreciated. If you have questions concerning this letter, please call me.

Respectfully,

A handwritten signature in cursive script that reads "Brian D'Alfonso".

Brian D'Alfonso

Waste Management Program

Northeast District Office

Bureau of Environmental Field Services

cc: Jim Rudeen, BWM; Rebecca Wenner, BWM; NEDO file

**ATTACHMENT:**

**2**

## WASTE STREAM TABLE

(List all hazardous wastes first, followed by solid wastes.)

Waste Description or Process	Waste Type (HW, SW, UW, UO, EX, ND)	Gen Frequency* (R, NR, OT)	If HW, list all codes	Waste Det. Method (PK, AD, or ND)	Waste Amount Generated Per Month		Waste Amount Presently in Storage	Oldest Accumulation Start Date	Present Waste Disposal Location (list name of destination facility and if not clear, put type of facility (MSWLF, TSDF, WWTF, etc.))	Attachment # if attaching documents pertinent to this waste stream
					Amount	Units				
Paint Waste	HW	R	D001, F003, F005, D007, D008	PK	200	Lbs	None	NA	Heritage Crystal Clean (HCC)	3,5
Waste Acetone	HW	NR	D001, F003	PK	50	Gal	None	NA	HCC	
Paint Booth Filters	HW	R	F003, F005	ND	20	Lbs	None	NA	Regular Trash	4
Solvent Contaminated Paper Wipes	HW	R	F002	ND	<5	Lbs	None	NA	Regular Trash	3,5
Glass Bead Sand Blast Waste	ND	R	ND	ND	50	Lbs	None	NA	Regular Trash	
Garnett Bead Sand Blast Waste	ND	R	ND	ND	50	Lbs	None	NA	Regular Trash	
Used Oil	EX	R	NA	PK	10	Gal	70 Gal	NA	HCC	
Used Antifreeze	EX	R	NA	PK	<5	Gal	15 Gal	NA	HCC	
Waste Lamps	UW	R	NA	PK	10	Lamps	~30 Lamps	None	HCC	
Scrap Metal	EX	R	NA	PK	ND	ND	ND	None	Best Price	
Sawdust	EX	R	NA	PK	ND	ND	ND	None	Local Farmer for Animal Bedding	
Waste Wood	EX	R	NA	PK	ND	ND	ND	None	Regular Trash	

## WASTE STREAM TABLE

Waste Description or Process	Waste Type (HW, SW, UW, UO, EX, ND)	Gen Frequency* (R, NR, OT)	If HW, list all codes	Waste Def. Method (PK, AD, or ND)	Waste Amount Generated Per Month		Waste Amount Presently in Storage	Oldest Accumulation Start Date	Present Waste Disposal Location (list name of destination facility and if not clear, put type of facility (MSWLF, TSDF, WWTF, etc.))	Attachment # if attaching documents pertinent to this waste stream
					Amount	Units				
Cardboard	EX	R	None	PK	ND	ND	ND	NA	Recycled Deffenbaugh	
Regular Trash	SW	R	None	PK	ND	ND	ND	NA	LV Cnty Transfer Station – Hamm's	
Parts Washer	EX	R	None	PK	30	Gal	None	NA	HCC – CUP Quarterly Service	

HW = Hazardous Waste  
 SW = Solid Waste  
 UW = Universal Waste  
 UO = Used Oil  
 EX = Exempt (includes CUP, laundered rags, etc.)  
 ND = Not Determined

R = Routine  
 NR = Non-routine, episodic, occasional  
 OT = One-time  
 PK = Process Knowledge  
 AD = Analytical Data  
 \* How frequently is the waste stream generated (routinely, non-routinely, or one time)?

**ATTACHMENT:**

**3**



405-8335-Fives  
420-8401-Drums

COMPANY IDENTITY: CSD/STARTEX  
PRODUCT IDENTITY: SW1 LACQUER THINNER  
NEW MSDS DATE: 05/23/2002

DATE: 05/23/02  
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I:\cdsmstds\sw1lt.doc

#### MATERIAL SAFETY DATA SHEET

This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1.  
THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)  
IMPORTANT: Read this MSDS before handling & disposing of this product.  
Pass this information on to employees, customers, & users of this product.

#### SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PRODUCT IDENTITY: SW1 LACQUER THINNER  
COMPANY IDENTITY: CSD/STARTEX  
COMPANY ADDRESS: P O BOX 3087  
COMPANY CITY: CONROE, TX 77305  
COMPANY PHONE: 1-936-756-1065  
CHEMTREC PHONE: 1-800-424-9300

#### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CONTAINS: 50-60% TOLUENE (108-88-3) [203-625-9],  
10-20% LIGHT ALIPHATIC SOLVENT NAPHTHA (\*64742-89-8),  
10-15% ACETONE (67-64-1) [200-662-2],  
5-10% ISOPROPANOL (67-63-0) [200-651-7],  
0-5% METHYL ETHYL KETONE (78-93-3) [201-159-0]  
Number in parentheses is CAS #, number in brackets is European EC #.

#### SECTION 3. HAZARDS IDENTIFICATION

##### RISK STATEMENTS:

R12 Extremely Flammable.  
R18 In use, may form flammable/explosive vapor-air mixture.  
R65 Harmful; may cause lung damage if swallowed.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R20/65 Harmful by inhalation, may cause lung damage if swallowed.

##### SAFETY STATEMENTS:

S7 Keep container tightly closed.  
S9 Keep container in a well-ventilated place.  
S16 Keep away from sources of ignition. No smoking.  
S29 Do not empty into drains.  
S24/25 Avoid contact with skin and eyes.

COMPANY IDENTITY: CSD/STARTEX  
PRODUCT IDENTITY: SW1 LACQUER THINNER  
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#### SECTION 4. FIRST AID MEASURES

##### EYE CONTACT:

For eyes, flush with plenty of water for 15 minutes & get medical attention.

##### SKIN CONTACT:

In case of contact with skin immediately remove contaminated clothing.  
Wash thoroughly with soap & water. Wash contaminated clothing before reuse.

##### INHALATION:

After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped give artificial respiration.

##### SWALLOWING:

If swallowed, CALL A PHYSICIAN IMMEDIATELY! Do NOT induce vomiting. Have patient lie down & keep warm. Vomiting may lead to pneumonia, which may be fatal.

#### SECTION 5. FIRE FIGHTING MEASURES

##### EXTINGUISHING MEDIA

NEPA Class B extinguishers (Carbon Dioxide or foam) for Class I, B liquid fires.

##### SPECIAL FIRE FIGHTING PROCEDURES

Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used.  
Do not enter confined fire-space without full bunker gear.  
(Helmet with face shield, bunker coats, gloves & rubber boots).  
Use NIOSH approved positive-pressure self-contained breathing apparatus.

##### UNUSUAL EXPLOSION AND FIRE PROCEDURES

**EXTREMELY FLAMMABLE! VAPORS CAN CAUSE FLASH FIRE**  
Keep container tightly closed.  
Isolate from oxidizers, heat, sparks, electric equipment & open flame.  
Closed containers may explode if exposed to extreme heat.  
Applying to hot surfaces requires special precautions.  
Empty container very hazardous! Continue all label precautions!

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

##### CONTAINMENT TECHNIQUES

Stop spill at source. Dike area & contain.

##### CLEAN-UP PROCEDURES:

Clean up remainder with absorbent materials. Mop up & dispose of. Persons without proper protection should be kept from area until cleaned up.

##### OTHER PRECAUTIONS

Vapors may ignite explosively & spread long distances. Prevent vapor buildup. Put out pilot lights & turn off heaters, electric equipment & other ignition sources during use & until all vapors are gone.

COMPANY IDENTITY: CSD/STARTEX  
PRODUCT IDENTITY: SW1 LACQUER THINNER  
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## SECTION 7. HANDLING AND STORAGE

### HANDLING

Isolate from oxidizers, heat, sparks, electric equipment & open flame.  
Use only with adequate ventilation. Avoid breathing of vapor or spray mist.  
Avoid contact with skin & eyes.  
Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier.  
Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.  
Avoid free fall of liquid. Ground containers when transferring. Do not flame cut, saw, drill, braze, or weld. Empty container very hazardous! Continue all label precautions!

### STORAGE

Vapors may ignite explosively & spread long distances. Prevent vapor buildup.  
Put out pilot lights & turn off heaters, electric equipment & other ignition sources during use & until all vapors are gone.  
Do not store above 49 C/120 F. Store large amounts in structures made for OSHA Class I B liquids  
Keep container tightly closed  
& upright when not in use to prevent leakage.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

### EXPOSURE CONTROLS

Use vapor, mist gas mask within use limits, or ventilate to keep vapors of this material below 40 ppm.  
If over TLV, in accordance with 29 CFR 1910.134, use NIOSH approved positive-pressure self-contained breathing apparatus. Consult Safety Equipment Supplier. Use explosion-proof equipment.

### VENTILATION

LOCAL EXHAUST	: Necessary
MECHANICAL (GENERAL)	: Acceptable
SPECIAL	: None
OTHER	: None

### PERSONAL PROTECTIONS:

Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier.  
Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.

### WORK & HYGIENIC PRACTICES:

Provide readily accessible eye wash stations & safety showers.  
Wash at end of each workshift & before eating, smoking or using the toilet.  
Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

COMPANY IDENTITY: CSD/STARTER  
PRODUCT IDENTITY: SW1 LACQUER THINNER  
NEW MSDS DATE: 05/23/2002

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#### SECTION 9. PHYSICAL DATA

APPEARANCE : Liquid, Water-White  
ODOR : Ketone  
BOILING RANGE : 56 99 122 C / 134 211 252 F  
AUTO IGNITION TEMPERATURE : 290 C / 555 F (Lowest Component)  
LOWER FLAMMABLE LIMIT IN AIR (% by vol): 1.6  
FLASH POINT (TEST METHOD): -16 C / 2 F (TCC) (Lowest Component)  
FLAMMABILITY CLASSIFICATION: Class I B  
GRAVITY @ 60 F :  
API : 39.7  
SPECIFIC GRAVITY (Water=1) : .827  
POUNDS/GALLON : 6.886  
VOC'S (>0.44 Lbs/Sq In) : 100.1 Vol. % / 827.5 g/L / 6.894 Lbs/Gal  
TOTAL VOC'S (TVOC) : 100.0 Vol. % / 826.7 g/L / 6.885 Lbs/Gal  
NONEXEMPT VOC'S (CVOC) : 85.0 Vol. % / 707.9 g/L / 5.896 Lbs/Gal  
HAZARDOUS AIR POLLUTANTS (HAPS) : 62.8 Wt. % / 518.8 g/L / 4.321 Lbs/Gal  
VAPOR PRESSURE (mm of Hg)@20 C 60.7  
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C) 23.4  
VAPOR DENSITY (air=1) : 2.8  
WATER ABSORPTION : Appreciable  
REFRACTIVE INDEX : 1.445  
MIXED ANILINE POINT (Acid Insol): 19 C / 67 F

#### SECTION 10. STABILITY & REACTIVITY

STABILITY  
Stable

#### CONDITIONS TO AVOID

Isolate from oxidizers, heat, sparks, electric equipment & open flame.

#### MATERIALS TO AVOID

Isolate from strong oxidizers such as permanganates, chromates & peroxides.

#### HAZARDOUS DECOMPOSITION PRODUCTS

Carbon Monoxide, Carbon Dioxide from burning.

#### HAZARDOUS POLYMERIZATION

Will not occur.

#### SECTION 11. TOXICOLOGICAL INFORMATION

MATERIAL	CAS #	TWA (OSHA)	TLV (ACGIH)	HAP
Toluene	108-88-3	200 ppm	50 ppm A4	Yes
Light Aliphatic Solvent Naphtha	*54742-89-8	500 ppm	300 ppm	No
Acetone	67-64-1	1000 ppm	500 ppm A4	No
Isopropanol	67-63-0	400 ppm	200 ppm A4	No
Methyl Ethyl Ketone	78-93-3	200 ppm	200 ppm	Yes

In addition to EPA Hazardous Air Pollutants showing "Yes" under "HAP" above, using manufacturers' data, based on EPA Method 311, the following EPA Hazardous Air Pollutants may be present in trace amounts (less than 0.1%): Benzene, Mixed Xylenes, Ethylbenzene

COMPANY IDENTITY: CSD/STARTEX  
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SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

MATERIAL	CAS #	CEILING	STEL (OSHA/ACGIH)
Light Aliphatic Solvent Naphtha	*64742-89-8	None Known	5.3E3 ppm
Acetone	67-64-1	None Known	750 ppm
Isopropanol	67-63-0	None Known	400 ppm
Methyl Ethyl Ketone	78-93-3	None Known	300 ppm

ACUTE HAZARDS

EYE & SKIN CONTACT:

Primary irritation to skin, defatting, dermatitis.  
Absorption thru skin increases exposure.  
Primary irritation to eyes, redness, tearing, blurred vision.  
Liquid can cause eye irritation. Wash thoroughly after handling.

INHALATION:

Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful. Breathing vapor can cause irritation. Acute overexposure can cause damage to kidneys, blood, nerves, liver & lungs.

SWALLOWING:

Harmful or fatal if swallowed.  
Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.

SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

CONDITIONS AGGRAVATED

Chronic overexposure can cause damage to kidneys, blood, nerves, liver & lungs. Persons with severe skin, liver or kidney problems should avoid use.

CHRONIC HAZARDS

CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:

Leukemia been reported in humans from Benzene.  
This product contains less than 188 ppm of Benzene.  
Not considered hazardous in such low concentrations.  
Absorption thru skin may be harmful. Studies with laboratory animals indicate this product can cause damage to fetus.

COMPANY IDENTITY: CSD/STARTEK  
PRODUCT IDENTITY: SW1 LACQUER THINNER  
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#### SECTION 12. ECOLOGICAL INFORMATION

##### MAMMALIAN INFORMATION:

MATERIAL	CAS #	LOWEST KNOWN LETHAL DOSE DATA
Toluene	108-88-3	LOWEST KNOWN LD50 (ORAL) 3000.0 mg/kg (Rats)
Methyl Ethyl Ketone	78-93-3	LOWEST KNOWN LC50 (VAPORS) 2000 ppm (Rats)
Toluene	108-88-3	LOWEST KNOWN LD50 (SKIN) 4000.0 mg/kg (Rabbits)

##### AQUATIC ANIMAL INFORMATION:

The most sensitive known aquatic group to any component of this product is:  
Fish 1000 ppm or mg/L (24 hour exposure).  
Keep out of sewers and natural water supplies.

##### MOBILITY

This material is a mobile liquid.

##### DEGRADABILITY

This product is partially biodegradable.

##### ACCUMULATION

This product does not accumulate or biomagnify in the environment.

#### SECTION 13. DISPOSAL CONSIDERATIONS

Recycle / dispose of observing national, regional, state, provincial and local health, safety & pollution laws.  
If questions exist, contact the appropriate agencies.

#### SECTION 14. TRANSPORT INFORMATION

DOT SHIPPING NAME: Paint Related Material, 3, UN1263, PG-II  
DRUM LABEL: (FLAMMABLE LIQUID)  
IATA / ICAO: Paint Related Material, 3, UN1263, PG-II  
IMO / IMDG: Paint Related Material, 3, UN1263, PG-II  
EMERGENCY RESPONSE GUIDEBOOK NUMBER: 128

#### SECTION 15. REGULATORY INFORMATION

##### EPA REGULATION:

SARA SECTION 311/312 HAZARDS: Acute Health, Fire

All components of this product are on the TSCA list.

SARA Title III Section 313 Supplier Notification

This product contains the indicated <\*> toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 & of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material.



COMPANY IDENTITY: CSD/STARTEX  
PRODUCT IDENTITY: SW1 LACQUER THINNER  
NEW MSDS DATE: 05/23/2002

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SECTION 15. REGULATORY INFORMATION (CONTINUED)

SARA TITLE III INGREDIENTS	CAS#	WT. % (REG. SECTION)	RQ(LBS)
*Toluene	108-88-3	87 (311,312,313,RCRA)	1000
Light Aliphatic Solvent Naphtha	*64742-89-8	15 (311,312)	None
Acetone	67-64-1	14 (311,312)	5000
Isopropanol	67-63-0	9 (311,312)	None
*Methyl Ethyl Ketone	78-93-3	< 5 (311,312,313,RCRA)	5000

IF > 1727 POUNDS OF THIS PRODUCT IS IN ONE CONTAINER THE "RQ" OF TOLUENE IS EXCEEDED.

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65: This product contains the following chemical known to the State of California to cause reproductive toxicity:  
Toluene

INTERNATIONAL REGULATIONS

The components of this product are listed on the chemical inventories of the following countries:  
Australia, Canada, Europe (ELNECS), Japan, Korea, United Kingdom.

SECTION 16. OTHER INFORMATION

HAZARD RATINGS:  
HEALTH (NPPA): 1  
HEALTH (HMIS): 2  
FLAMMABILITY: 3  
REACTIVITY: 0

This information is intended solely for the use of individuals trained in the NPPA & HMIS hazard rating systems.

EMPLOYEE TRAINING

Employees should be made aware of all hazards of this material (as stated in this MSDS) before handling it.

NOTICE

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.

**ATTACHMENT:**

**4**

**C E R T I F I C A T E   O F   A N A L Y S I S**

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received	Project	Lab ID
	21-JUN-02		A598206
	Complete	PO Number	
	27-JUN-02	.....	
	Printed	Sampled	
	27-JUN-02	16-MAY-02 15:00	

Report To	Bill To
DANIEL HANDSCHU HERITAGE ENVIRONMENTAL SERVICES, LLC 7901 WEST MORRIS STREET ANNEX BUILDING INDIANAPOLIS, IN 46231	ACCOUNTS PAYABLE HERITAGE CRYSTAL CLEAN 3970 WEST 10TH STREET INDIANAPOLIS, IN 46222

Sample Description
CLIENT ID: PAINT BOOTH FILTERS MATRIX TYPE: SLUDGE, SOIL, SOLID OR SEDIMENT GENERATOR: GREAT WESTERN MFG. CC NUMBER: CC015051602A SALESPERSON: TERRI BAUGH Submitter Code :9018

TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311			
Analyst: M. DONAZALEZ	Analysis Date: 26 JUN 02	Instrument: PREP	Test: P106.1.0
Parameter	Result	Det. Limit	Units
TOTAL SAMPLE WEIGHT	100.0		Grams
LIQUID FRACTION (GRAMS)	NA		Grams
EXTRACTED SAMPLE	100.0		Grams
SOLIDS	100		Percent
9.5 MM SIEVE TEST	YES		Passed
INITIAL PH	5.0		Std. Units
ADJUSTED PH	2.0		Std. Units
BUFFER SOLUTION PH	4.95		Std. Units
FINAL PH	5.0		Std. Units
VOLUME BUFFERED SOLUTION	2000		mL
VOLUME EXTRACT FILTERED	2000		mL
VOLUME LIQUID (ADD BACK)	NA		mL
TOTAL VOLUME FILTRATE	2000		mL
AMBIENT TEMPERATURE	23.4		Degrees C
INITIAL TIME	34322.5		Hours
FINAL TIME	34338.8		Hours
PHASE 0 VOLUME (REP 0)	2000		mL
PHASE 0 WEIGHT	NA		Grams
PHASE 0 DENSITY	NA		g/mL
PHASE 1 VOLUME (REP 1)	NA		mL
PHASE 1 WEIGHT	NA		Grams
PHASE 1 DENSITY	NA		g/mL

FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A			
Analyst: L. SMITH	Analysis Date: 26 JUN 02 14:00	Instrument: PREP	Test: P130.8.0
Prep: TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311 P106.1.0			

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL WEIGHT OR VOLUME	100		mL

TCLP BARIUM ICP SW846-6010B			
Analyst: J. KRAMER		Analysis Date: 27 JUN 02 06:25	
Instrument: ICP		Test: M604 8.0	
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Prep: TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311 P106.1.0			
Parameter	Result	Det. Limit	Units
BARIUM	BDL	0.050	mg/L
DILUTION 1:5			

TCLP CADMIUM ICP SW846-6010B			
Analyst: J. KRAMER		Analysis Date: 27 JUN 02 06:25	
Instrument: ICP		Test: M604 8.0	
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Prep: TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311 P106.1.0			
Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.025	mg/L
DILUTION 1:5			

TCLP CHROMIUM ICP SW846-6010B			
Analyst: J. KRAMER		Analysis Date: 27 JUN 02 06:25	
Instrument: ICP		Test: M618 8.0	
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Prep: TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311 P106.1.0			
Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.050	mg/L
DILUTION 1:5			

TCLP LEAD ICP SW846-6010B			
Analyst: J. KRAMER		Analysis Date: 27 JUN 02 06:25	
Instrument: ICP		Test: M618 8.0	
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Prep: TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311 P106.1.0			
Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L
DILUTION 1:5			

TCLP SILVER ICP SW846-6010B			
Analyst: J. KRAMER		Analysis Date: 27 JUN 02 06:25	
Instrument: ICP		Test: M630 8.0	
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Prep: TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311 P106.1.0			
Parameter	Result	Det. Limit	Units
SILVER	BDL	0.050	mg/L
DILUTION 1:5			

TCLP ARSENIC ICP SW846-6010B			
Analyst: J. KRAMER		Analysis Date: 27 JUN 02 06:25	
Instrument: ICP		Test: M603 8.0	
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Prep: TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311 P106.1.0			

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.050	mg/L
DILUTION 1:5			

TCLP SELENIUM TCP SW846-6010B			
Analyst: J. KRAMER		Analysis Date: 27 JUN 02 06:25	
Instrument: ICP		Test: M028.8.0	
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-5010A P130.9.0			
Prep: TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311 P106.1.0			
Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.050	mg/L
DILUTION 1:5			

MERCURY CVAA ACID DIGESTION (LEACHATE) SW846-7470A			
Analyst: H. HALL		Analysis Date: 25 JUN 02 16:00	
Instrument: PREP		Test: P131.9.0	
Prep: TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311 P106.1.0			
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	4		ml
FINAL VOLUME	40		ml

TCLP MERCURY CVAA SW846-7470A			
Analyst: H. HALL		Analysis Date: 26 JUN 02 11:47	
Instrument: CVAA		Test: M020.4.0	
Prep: MERCURY CVAA ACID DIGESTION (LEACHATE) SW846-7470A P131.9.0			
Prep: TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311 P106.1.0			
Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0020	mg/L

Sample Comments

BDL Below Detection Limit  
 NA Not Applicable  
 YES Yes

Sample was not received on ice at temperature 23 C.

This Certificate shall not be reproduced, except in full, without the written approval of the lab.  
 The sample results relate only to the analytes of interest tested or to the sample as received by the lab.  
 Heritage Environmental Services, LLC certifies that the test results indicated as NELAC (National Environmental Laboratory Accreditation Conference) accredited (Yes for NELAC) meet all requirements of NELAC and Illinois EPA Part 186 unless otherwise explained or justified as to the exact nature of the deviations.  
 Heritage Environmental Services, LLC is accredited under Illinois NELAC accreditation number 100401.  
 Arizona License Number AZ0627.

Approved :                     *P.Y. Sance*

**ATTACHMENT:**

**5**



# MATERIAL SAFETY DATA SHEET

MSDS Name: TACC N/F SOLVENT/THINNER  
ISDS Number: ST172

MSDS Last Updated: SEP-29-2000  
Page Number: 1 of 5

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=====  
**SECTION I - PRODUCT AND COMPANY INFORMATION**  
=====

Product Name: TACC N/F SOLVENT/THINNER  
CAS Number: MIXTURE  
Hazard Rating: Health: 2 Fire: 1 Reactivity: 0 PPI: D

Company Identification: TACC  
AIR STATION INDUSTRIAL PARK  
ROCKLAND MA 02370

Telephone/Fax: (781) 878-7015 (781) 871-6727  
Chemtec (24 Hour): (800) 424-9300

Trade Name: TACC N/F SOLVENT/THINNER  
Product Code: ST172  
DOT Hazard Class: 6.1  
UN Number: 2810  
Shipping Name: TOXIC LIQUIDS, ORGANIC, NOS  
Packing Group: III

Contains: (METHYLENE CHLORIDE, TRICHLOROETHYLENE)

=====  
**SECTION II - HAZARDOUS INFORMATION**  
=====

Ingredient Name	CAS Number	Percent	TSCA
METHYLENE CHLORIDE	75-09-2	75-90	Y
TRICHLOROETHYLENE	79-01-6	10-30	Y

=====  
**SECTION III - PHYSICAL DATA**  
=====

Form: CLEAR, TYPICAL ODOR  
Boiling Range: 104.°F - 189.°F  
Evaporation Rate: Faster than n-Butyl Acetate  
% Volatile Weight: 100. %  
% Volatile Volume: 100. %  
Specific Gravity: 1.34  
Weight/Volume Measure: 11.15821

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# MATERIAL SAFETY DATA SHEET

MSDS Name: TACC N/F SOLVENT/THINNER  
MSDS Number: ST172

MSDS Last Updated: SEP-29-2000  
Page Number: 2 of 5

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Max. VOC: 201.3 g/L

=====  
**SECTION IV - FIRE AND EXPLOSION HAZARD DANGER**  
=====

Flammability Class: IIIB  
Flash Range: Not Applicable  
Explosive Range: Not Applicable

**EXTINGUISHING MEDIA:**

Foam, dry chemical, carbon dioxide, water spray or fog.

**SPECIAL FIREFIGHTING PROCEDURES:**

Avoid breathing smoke. Use air supplied rescue equipment for enclosed area. Water tends to spread burning liquid if large amounts used.

**UNUSUAL FIRE & EXPLOSION HAZARDS:**

Container may vent and/or rupture due to fire. Although this material does not have a flash point, it can burn at room temperature.

=====  
**SECTION V - HEALTH HAZARD DATA**  
=====

**PERMISSIBLE EXPOSURE LEVEL:**

See Section VIII.

**EFFECTS OF OVEREXPOSURE:**

**INHALATION:** May cause dizziness, nausea, upper respiratory irritation, drowsiness, mental depression or narcosis, difficulty in breathing. Chronic effects of overexposure to solvent vapors could lead to permanent effects of the nervous system, body organs or the brain. Use with adequate ventilation. Loss of consciousness and death at 9000 ppm if exposure is prolonged. **EYES:** Irritation. **SKIN:** Removal of skin oils, irritation, dermatitis, even sensitization with long overexposure. **INGESTION:** May be harmful or fatal if swallowed. Chronic liver and kidney disease, chronic lung disease, anemia, coronary disease or heart disorders.

Methylene Chloride has been shown to cause cancer in certain laboratory animals. Repeated and/or prolonged exposure to high

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# MATERIAL SAFETY DATA SHEET

MSDS Name: TACC N/F SOLVENT/THINNER  
MSDS Number: ST172

MSDS Last Updated: SEP-29-2000  
Page Number: 3 of 5

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concentrations has induced liver and kidney and possible cardiac toxicity in experimental animals.

## FIRST AID:

INHALATION: Get fresh air, if necessary, call Physician.

SKIN: Wash with mild soap and water, apply a mild cream.

Eyes: Flush with water for at least 15 minutes.

Ingestion: Call Poison Center immediately.

NOTE TO PHYSICIAN: Adrenalin should never be given to person overexposed to methylene chloride!!!

## SECTION VI - REACTIVITY DATA

Stability: This product is stable  
Hazardous Polymerization: Hazardous polymerization will not occur

## INCOMPATIBILITY:

Aluminum

## CONDITIONS TO AVOID:

Highly alkaline materials, i.e.; sodium hydroxide, aluminum.

## HAZARDOUS DECOMPOSITION PRODUCTS:

CO, CO<sub>2</sub>, Hydrogen Chloride and Phosgene

## SECTION VII - SPILL OR LEAK PROCEDURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Ventilate area. Avoid breathing vapors. Contain spill if possible. Wipe up or absorb with suitable material and shovel up. Prevent entry into sewers and waterways.

### WASTE DISPOSAL METHOD:

Liquid material is designated as hazardous waste until all solvents and vapors have evaporated. Dispose of in accordance with local, state and federal regulations.

## SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational Exposure Limits:

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
METHYLENE CHLORIDE	50.00 PPM	N/est	N/est	125.00 PPM	25.00 PPM

# MATERIAL SAFETY DATA SHEET

MSDS Name: TACC N/F SOLVENT/THINNER  
MSDS Number: ST172

MSDS Last Updated: SEP-29-2000  
Page Number: 4 of 5

-----  
TRICHLOROETHYLENE  
50.00 PPM N/est 100.00 PPM N/est 100.00 PPM

## RESPIRATORY PROTECTION:

If vapors exceed PEL use self-contained mask (organic mask)  
NIOSH approved.

## VENTILATION:

Sufficient to keep workroom concentration below PEL.

## PROTECTIVE GLOVES:

Chemical resistant gloves

## EYE PROTECTION:

Safety glasses or face shield

## OTHER PROTECTIVE EQUIPMENT:

Use chemical resistant apron or other clothing if needed to  
avoid repeated or prolonged skin contact.

=====  
**SECTION IX - SPECIAL PRECAUTIONS**  
=====

## PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Keep container closed when not in use. Store at 60-95  
degrees F out of sun. Use adequate ventilation to avoid  
breathing vapors when cover removed. Do not smoke when vapors  
are present.

## OTHER PRECAUTIONS:

Vapors of this product are heavier than air and will collect in  
low areas. Do not weld or cut where vapors are present.

=====  
**SECTION X - ADDITIONAL REGULATORY INFORMATION**  
=====

## -SARA TITLE III SECTION 313:

This product contains the following toxic chemicals subject to the  
reporting requirements of Section 313 of the Emergency Planning and  
Community Right to Know Act of 1986 and of 40 CFR 372:

Ingredient Name	CAS Number	Percent
METHYLENE CHLORIDE	75-09-2	75-90
TRICHLOROETHYLENE	79-01-6	10-30

## -PROP 65 (CARCINOGEN)

WARNING: This product contains a chemical known to the state of  
California to cause cancer.

-----

**MATERIAL SAFETY DATA SHEET**

MSDS Name: TACC N/F SOLVENT/THINNER  
MSDS Number: ST172

MSDS Last Updated: SEP-29-2000  
Page Number: 5 of 5

---

Ingredient Name	CAS Number	Percent
METHYLENE CHLORIDE	75-09-2	75-90
TRICHLOROETHYLENE	79-01-6	10-30

The following ingredients are registered for TSCA 12B

Ingredient Name	CAS Number	Percent
TRICHLOROETHYLENE	79-01-6	10-30

=====  
**DISCLAIMER**  
=====

\*\*\*\*\* NOTICE \*\*\*\*\*

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of TACC. The data on this sheet relates only to the specific material designated herein. TACC assumes no legal responsibility for use or reliance upon these data.

---

**ATTACHMENT:**

**6**



# GREAT WESTERN MFG. CO.

## MONTHLY INSPECTION REPORT

Date: 2-29-12 Performed by: Doug Price  
Signature: Doug Price

**Check For:** Any discrepancies that have potential for pollution to storm water, including: leaks, improper containment, and changes in operations.

**Areas To Be Checked (check mark indicated no problems):**

- Each Building (both interior and exterior)
- Outdoor material storage (parts, scrap, etc.)
- Outdoor fluid storage (waste oil containers, etc.)
- Fueling or maintenance areas
- Equipment (both rolling and stationary)
- Structural Control Devices (dikes, berms, grading, vegetation, gravel/concrete, etc.)

**Description of Discrepancy and Report of Repair:**

Discrepancy	Corrective Action	Date & Initials
Signs of leaks, spills, rubbish, or debris		
Chemical Container Integrity		
Storm Water Mgmt Devices Integrity		
Other Discrepancies Noted		

Still Remodeling North End

**ATTACHMENT:**

**7**

2001 KANSAS CITY

Route: 2P9

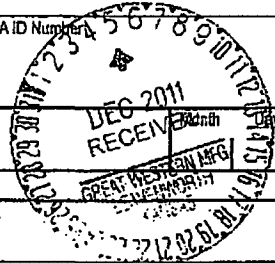
11/15/11

302:

Form Approved. OMB No. 2050-0039

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KSD000136972	2. Page 1 of 2	3. Emergency Response Phone 800-424-9300	4. Manifest Tracking Number 001464373 GBF			
5. Generator's Name and Mailing Address GREAT WESTERN MFG. 2017 S 4TH ST LEAVENWORTH, KS 66048		Generator's Site Address (if different than mailing address)						
6. Transporter 1 Company Name HERITAGE-CRYSTAL CLEAN, LLC		U.S. EPA ID Number ILR00018006R						
7. Transporter 2 Company Name NEPALI INV.		U.S. EPA ID Number LND084800100						
8. Designated Facility Name and Site Address PETRO-CHEM PROCESSING GROUP 421 Lyncaste Detroit, MI 48214		U.S. EPA ID Number MID980615298						
Facility's Phone: (313) 824-5840								
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type			F003	F005	D007
X	1. RG, WASTE PAINT RELATED MATERIAL, 3 UNITS, PG. II, (F003, F005, D007, D008) EZZ # 125	3	DM	150	G	F003	F005	D007
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information ICCVS: 74561-4 ISD-20072-HCCP2L19 1000 81314								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Officer's Printed/Typed Name MICHAEL FRIESE		Signature [Signature]			Month 11	Day 03	Year 11	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name JEFF EARNEST		Signature [Signature]			Month 11	Day 03	Year 11	
Transporter 2 Printed/Typed Name IOM HANSON		Signature [Signature]			Month 11	Day 16	Year 11	
18. Discrepancy KERRY ANDERSON								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
18b. Alternate Facility (or Generator) _____ Manifest Reference Number: _____ U.S. EPA ID Number: _____								
18c. Signature of Alternate Facility (or Generator) _____								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H141		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a.								
Printed/Typed Name S. Jabalee		Signature [Signature]			Month 11	Day 18	Year 11	





**ATTACHMENT:**

**8**

1. Generator ID Number: **KSD007136872**  
 2. Page 1 of: **1**  
 3. Emergency Response Phone: **800-424-9300, "1"**  
 4. Manifest Tracking Number: **000560698GBF**

Generator's Name and Mailing Address: **GREAT WESTERN MFG**  
**2017 S. 4TH ST**  
**LEAVENWORTH KS 66048**  
 Generator's Phone: **913.682.2291**  
 Generator's Site Address (if different than mailing address):

6. Transporter 1 Company Name: **HERITAGE-CRYSTAL CLEAN, LLC**  
 U.S. EPA ID Number: **ILR000130062**

7. Transporter 2 Company Name: **KL Carter Trucking Inc**  
 U.S. EPA ID Number: **IN0000640847**  
 Phone: **317-539-4364**

8. Designated Facility Name and Site Address: **GIANT RESOURCE RECOVERY-SUMTER**  
**755 INDUSTRIAL ROAD**  
**SUMTER, SC 29150**  
 Facility's Phone: **(803)773-1400**  
 U.S. EPA ID Number: **SCD036275626**

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type			F003	F005	D007
	<b>KG, WASTE PAINT RELATED MATERIAL, 3, UN263, PG II, (F003, F005, D007, D008) EB# 128</b>	<b>0004</b>	<b>DM</b>	<b>191</b>	<b>G</b>	<b>D008</b>		
2.								
3.								
4.								

14. Special Handling Instructions and Additional Information:  
**Decors: 74561-4 750-2005**  
**110134 1000 H.C.C.**

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Officer's Printed/Typed Name: **Donna Price**  
 Signature: **[Signature]**  
 Month Day Year: **06 | 19 | 09**

16. International Shipments:  Import to U.S.  Export from U.S.  
 Port of entry/exit: \_\_\_\_\_  
 Date leaving U.S.: \_\_\_\_\_

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: **Tyler Cooper**  
 Signature: **[Signature]**  
 Month Day Year: **06 | 19 | 09**  
 Transporter 2 Printed/Typed Name: **Jerry Coffey**  
 Signature: **[Signature]**  
 Month Day Year: **6 | 23 | 09**

18. Discrepancy  
 18a. Discrepancy Indication Space:  Quantity  Type  Residue  Partial Rejection  Full Rejection  
**1177#**  
 Manifest Reference Number: \_\_\_\_\_

18b. Alternate Facility (or Generator): \_\_\_\_\_ U.S. EPA ID Number: \_\_\_\_\_  
 Facility's Phone: \_\_\_\_\_  
 18c. Signature of Alternate Facility (or Generator): \_\_\_\_\_ Month Day Year: \_\_\_\_\_

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)  
 1. **H061** 2. \_\_\_\_\_ 3. \_\_\_\_\_ 4. \_\_\_\_\_

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a  
 Printed/Typed Name: **Janice Sugg**  
 Signature: **[Signature]**  
 Month Day Year: **07 | 09 | 09**





UNIFORM HAZARDOUS WASTE MANIFEST  
 1. Generator ID Number: **KSD007136872**  
 2. Page 1 of 1  
 3. Emergency Response Phone: **900-424-9310, "1"**  
 4. Manifest Tracking Number: **001013943 GBF**

5. Generator's Name and Mailing Address: **GREAT WESTERN MFG. 2017 S. 4TH ST. LEAVENWORTH, KS 66048**  
 Generator's Site Address (if different than mailing address):  
 Generator's Phone: **(913) 682-2291**

6. Transporter 1 Company Name: **HERITAGE-CRYSTAL CLEAN, LLC**  
 U.S. EPA ID Number: **ILR000130062**

7. Transporter 2 Company Name: **Heritage Crystal Clean LLC**  
 U.S. EPA ID Number: **ILR000130062**

8. Designated Facility Name and Site Address: **PETRO-CHEM PROCESSING GROUP 421 Lycaste Detroit, MI 48214**  
 U.S. EPA ID Number: **WID990615298**  
 Facility's Phone: **(313) 824-840**

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit W/L Vol.	13. Waste Codes		
		No.	Type			F003	F005	D007
X	RO, WASTE PAINT RELATED MATERIAL, 3, UN1263, PG II, (F003, F005, D007, D008) ERG2 128	4	DM	1600 P				

14. Special Handling Instructions and Additional Information:  
 1) CC: 74561-4 TSD: SCCEBLIQ H051  
 1100 31085

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Officer's Printed/Typed Name: **Willie Gilom**  
 Signature: *Willie Gilom*  
 Month: **11** Day: **30** Year: **09**

16. International Shipments:  Import to U.S.  Export from U.S.  
 Port of entry/exit: \_\_\_\_\_ Date leaving U.S.: \_\_\_\_\_

17. Transporter Acknowledgment of Receipt of Materials  
 Transporter 1 Printed/Typed Name: **Mark Terrell** Signature: *Mark Terrell* Month: **11** Day: **30** Year: **09**  
 Transporter 2 Printed/Typed Name: **Mark Swinney** Signature: *Mark Swinney* Month: **12** Day: **07** Year: **09**

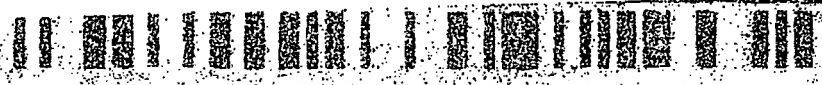
18. Discrepancy  
 18a. Discrepancy Indication Spec:  Quantity  Type  Residue  Partial Rejection  Full Rejection

18b. Alternate Facility (or Generator): \_\_\_\_\_ Manifest Reference Number: \_\_\_\_\_ U.S. EPA ID Number: \_\_\_\_\_

18c. Signature of Alternate Facility (or Generator): \_\_\_\_\_ Month: \_\_\_\_\_ Day: \_\_\_\_\_ Year: \_\_\_\_\_

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)  
 1. **H061** 2. \_\_\_\_\_ 3. \_\_\_\_\_ 4. \_\_\_\_\_

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a  
 Printed/Typed Name: **D. W. ...** Signature: *D. W. ...* Month: **12** Day: **18** Year: **09**



Route: **KANSAS CITY ROUTE 2**  
 HAZARDOUS WASTE MANIFEST (Continuation Sheet) 21. Generator ID Number: **KSD007136872** 22. Page: **4/2** 23. Manifest Tracking Number: **CD1013913CF**

Generator's Name  
**EAT WESTERN MFG.**  
**017 S. 4TH ST.**  
**LEAVENWORTH, KS 66048**

25. Transporter 3 Company Name **R. L. CARTER** U.S. EPA ID Number **IN000018877**  
 26. Transporter 4 Company Name **NORTHVA, LLC** U.S. EPA ID Number **MI1D021087275**

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes	
		No.	Type				

32. Special Handling Instructions and Additional Information

33. Transporter 3 Acknowledgment of Receipt of Materials  
 Printed/Typed Name: **ELMER DARTING** Signature: *[Signature]* Month Day Year: **12/13/09**  
 34. Transporter 4 Acknowledgment of Receipt of Materials  
 Printed/Typed Name: **S. Clark** Signature: *[Signature]* Month Day Year: **12/14/09**

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

KANSAS CITY

Route:

NO#:

Please print or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KSD007136873	2. Page 1 of 1	3. Emergency Response Phone 800-424-9300, "1"	4. Manifest Tracking Number 001244013 GBF	
5. Generator's Name and Mailing Address Great Western 2017 S. LINTH ST LEAVENWORTH KS 66048 (913) 682-2341			Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name HERITAGE-CRYSTAL CLEAN, LLC		U.S. EPA ID Number ILR000130062				
7. Transporter 2 Company Name Robbie D Wood Inc		U.S. EPA ID Number AL00067138891				
8. Designated Facility Name and Site Address PETRO-CHEM PROCESSING GROUP 421 Lyncaste Detroit, MI 48214		U.S. EPA ID Number MID980615298		Facility's Phone: (313) 824-3640		
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit W/Vol.
	X	1. RW, waste paint related material, 3, 5L, 16.11 (FOOS, F005, L007, R008) FRB# 68	4	DM	220	6
		2.				
		3.				
		4.				
13. Waste Codes F003 F005 L007 R008						
14. Special Handling Instructions and Additional Information 1) RC: 04561-4 TED: HCCFBIG (2007)						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. I export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offeror's Printed/Typed Name KIM FRIESE		Signature <i>Kim Friese</i>		Month Day Year 11/07/10		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:						
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials					
	Transporter 1 Printed/Typed Name Jimmie Mosley		Signature <i>Jimmie Mosley</i>		Month Day Year 11/07/10	
	Transporter 2 Printed/Typed Name Ken Henderholt		Signature <i>Ken Henderholt</i>		Month Day Year 11/07/10	
DESIGNATED FACILITY	18. Discrepancy					
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
	Manifest Reference Number:					
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number	
	Facility's Phone:					
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H061		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name S. Jabalce		Signature <i>S. Jabalce</i>		Month Day Year 11/08/10		

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HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number 713

22. Page

23. Manifest Tracking Number

24. Generator's Name

25. Transporter 3 Company Name NORTRU L.L.C

U.S. EPA ID Number MI D021087075

26. Transporter Company Name

U.S. EPA ID Number

Table with 5 main columns: 27a. U.S. DOT Description, 28. Containers (No., Type), 29. Total Quantity, 30. Unit Wt./Vol., 31. Waste Codes.

32. Special Handling instructions and Additional Information

33. Transporter 3 Acknowledgment of Receipt of Materials. Printed/Typed Name T. WILSON, Signature T. Wilson, Date 10/30/10

34. Transporter Acknowledgment of Receipt of Materials. Printed/Typed Name, Signature, Date

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

GENERATOR, TRANSPORTER, DESIGNATED FACILITY TO GENERATOR

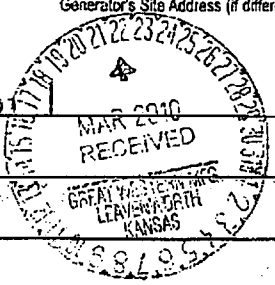
UNIFORM HAZARDOUS WASTE MANIFEST 1. Generator ID Number **KSD007136872** 2. Page 1 of 1 3. Emergency Response Phone **800-424-9300, "1"** 4. Manifest Tracking Number **001024241 GBF**

5. Generator's Name and Mailing Address  
**GREAT WESTERN MFG.**  
**2017 S. 4TH ST.**  
**LEAVENWORTH, KS 66048**  
 Generator's Site Address (if different than mailing address)  
 Generator's Phone: **(913) 682-2291**

6. Transporter 1 Company Name  
**HERITAGE-CRYSTAL CLEAN, LLC**  
 U.S. EPA ID Number  
**ILR000130052**

7. Transporter 2 Company Name  
**Rabree Wood Inc**  
 U.S. EPA ID Number  
**A1000728891**

8. Designated Facility Name and Site Address  
**PETRO-CHEM PROCESSING GROUP**  
**421 Lycaste**  
**Detroit, MI 48214**  
 Facility's Phone: **(313) 824-5840**



9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit. Wt./Vcl.	13. Waste Codes		
		No.	Type			FC03	FC05	D007
X	PO. WASTE PAINT RELATED MATERIAL, 3, UN1263, 15.11, (FC03, FC05, D007, D008), ERG# 1.2B	1	DM	450	P	FC03	FC05	D007
2								
3								
4								

14. Special Handling Instructions and Additional Information  
**1) CC: 74561-4 TSD: HCCFBLIQ R061**  
**1110**  
**35899**

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.  
**5892**

Generator's/Offeror's Printed/Typed Name: **Doug Price** Signature: *[Signature]* Month: **12** Day: **22** Year: **10**

16. International Shipments  Import to U.S.  Export from U.S. Port of entry/exit: \_\_\_\_\_ Date leaving U.S.: \_\_\_\_\_

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: **DAVID TERRELL** Signature: *[Signature]* Month: **12** Day: **22** Year: **10**  
 Transporter 2 Printed/Typed Name: **Ken Hendershot** Signature: *[Signature]* Month: **12** Day: **27** Year: **10**

18. Discrepancy Indication Space  Quantity  Type  Residue  Partial Rejection  Full Rejection  
 Manifest Reference Number: \_\_\_\_\_

18b. Alternate Facility (or Generator) U.S. EPA ID Number: \_\_\_\_\_  
 Facility's Phone: \_\_\_\_\_

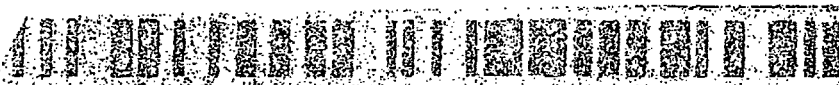
18c. Signature of Alternate Facility (or Generator) Month: \_\_\_\_\_ Day: \_\_\_\_\_ Year: \_\_\_\_\_

19. Hazardous Waste Report Management Method Codes (Le., codes for hazardous waste treatment, disposal, and recycling systems)  
 1. **Hold** 2. \_\_\_\_\_ 3. \_\_\_\_\_ 4. \_\_\_\_\_

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a  
 Printed/Typed Name: **S. Jabatee** Signature: *[Signature]* Month: **10** Day: **31** Year: **10**

GENERATOR  
TRANSPORTER  
DESIGNATED FACILITY





PS: 100203

WC#: 00-003D9D1

HAZARDOUS WASTE MANIFEST (Continuation Sheet) Route: PARAS CITY ROUTE 2

Form Approved: OMB No. 2050-0039

HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: KSD097136872

22. Page: 72

23. Manifest/Tracking Number: 00011211108

Generator's Name: GREAT WESTERN MFG. 2017 S. 4TH ST. LEAVENWORTH, KS 66048

U.S. EPA ID Number

25. Transporter Company Name

26. Transporter Company Name: NORTHWEST

U.S. EPA ID Number

27a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

28. Containers

No.

Type

29. Total Quantity

30. Unit Wt./Vol.

31. Waste Codes

32. Special Handling Instructions and Additional Information

33. Transporter Acknowledgment of Receipt of Materials

Printed/Typed Name: Terry Wink

Signature: Terry Wink

Month/Day/Year: 3/1/10

34. Transporter Acknowledgment of Receipt of Materials

Printed/Typed Name: D JONES

Signature: D Jones

Month/Day/Year: 13/1/10

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

GENERATOR

DESIGNATED FACILITY TRANSPORTER

**ATTACHMENT:**

**9**

KANSAS CITY

Route: KANSAS CITY - ROUTE 7

Form Approved OMB No. 2050-0039

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number KBD007136672	2. Page 1 of 1	3. Emergency Response Phone 800-424-9071	4. Manifest Tracking Number 001225800 GBF		
5. Generator's Name and Mailing Address GREY WESTERN MFG. 2017 S. 4TH ST. LEAVENWORTH, KS 66048				Generator's Site Address (if different than mailing address)			
Generator's Phone: (313) 824-2400				U.S. EPA ID Number KID980615298			
6. Transporter 1 Company Name HEALTH-CRYSTAL CLEAN, LLC				U.S. EPA ID Number ILR000130062			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address PETRO-CHEM PROCESSING GROUP 421 Lyncaste Detroit, MI 48214				U.S. EPA ID Number KID980615298			
Facility's Phone: (313) 824-2400							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazaro Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt/Vol.	13. Waste Codes
	X	1. NO. WASTE PAINT RELEASED MATERIAL, 3, UNL264, PG II. (P003, P005, D007, D008) ERG# 128	No.	Type	400	P	P003 P005 D007 D008
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information D003: 74561-4 TSD: RC00000 R061							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/picarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offorer's Printed/Typed Name: X MICHAEL J. ROSE				Signature: [Signature]		Month Day Year: 15 2010	
INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Part of entry/exit: Date leaving U.S.:						
	Transporter signature (for exports only):						
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name: JIMMIE MOSELEY				Signature: [Signature]		Month Day Year: 5 2010
Transporter 2 Printed/Typed Name:				Signature:		Month Day Year:	
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	18b. Alternate Facility (or Generator) U.S. EPA ID Number						
	Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name				Signature		Month Day Year	

**ATTACHMENT:**

**10**

Generator: GREAT WESTERN MFG.

EPA ID: XSD007130872

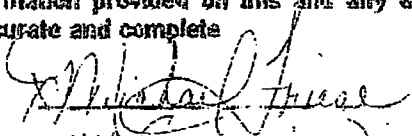
Manifest Doc:

State Manifest No:

- (1) Waste Does Not Meet Applicable Treatment Standards - This is a restricted waste that does not meet the applicable treatment standards set forth in Subpart D of 40 CFR Part 268, or exceeds the applicable prohibition levels set forth in 40 CFR 268.32 or RCRA Section 3004(d).

I certify that the information provided on this and any additional pages (HCCLDR2; HCCLDR3) of this LDR notification is true, accurate and complete

Authorized Signature:



Print Name:

MICHAEL FRIESE

Company - Title:

SLH Supervisor

Date:

2-27-10

Heritage-Crystal Clean does not warrant the acceptability of this form for any specific purpose, waste or treatment method and does not warrant that its use will constitute compliance with applicable law and expressly disclaims responsibility or liability, for any penalties, damages or other costs which may arise out of or be related to use of this document

Location:

KANSAS CITY

Work Order #:

PP-2642310

Route: KANSAS CITY - ROUTE 2

CC Ws #: 74661-4

Generator: GREAT WESTERN MFG.

EPA ID: KSD007136872

Manifest Doc:

State Manifest No:

(1) Manifest Page-Line Item	(2) Hazardous Waste Code (One per line)	(3) Waste Water	(4) Non Waste Water	(5) Subcategory (if applicable)	(6) Underlying Constituents	(7) Applicable Certification (One per line)	Subcategory Description
1/A	D007		X	48	YES	(1)	TC WASTE MANAGED IN NON CWA SYSTEM
1/A	F005		X	NA	N/A	(1)	
1/A	F003		X	NA	N/A	(1)	
1/A	D006		X	48	YES	(1)	TC WASTE MANAGED IN NON CWA SYSTEM

Enter date waste is subject to prohibition if Certification #3 applies.

Location:  
Work Order #:

KANSAS CITY  
PP-2548310

Route: KANSAS CITY - ROUTE 2  
CC Ws #: 74561-4



Generator: GREAT WESTERN MFG.

EPA ID: KSD907138972

Manifest Doc:

State Manifest No:

This form is required for F001-F005 spent solvents, characteristic wastes requiring identification of underlying hazardous constituents, or for F039 leachate only. For each F001-F005 spent solvent, characteristic waste requiring identification of underlying hazardous constituents, or F039 leachate, check all constituents listed below and verify that they are appropriate to the wastestreams identified on HCCLDR1

Regulated Constituent (Check all that apply)	Manifest Page - Line
ETHYL BENZENE	1/A
METHYL ISOBUTYL KETONE	1/A
2-ETHOXYETHANOL	1/A
XYLENES (O/M/P-XYLENE)	1/A
ETHYL ACETATE	1/A
ETHYL ETHER	1/A
METHANOL	1/A
ACETONE (2-PROPANONE)	1/A
N-BUTYL ALCOHOL	1/A
BENZENE	1/A
ISOBUTANOL (ISOBUTYL ALCOHOL)	1/A
TOLUENE	1/A
CYCLOHEXANONE	1/A
METHYL ETHYL KETONE	1/A

**ATTACHMENT:**

**11**

**Facility Responsibilities**

The facility agrees to:

1. Allow KDHE to conduct a CAV during normal business hours. The CAV may take multiple days depending on the size of the facility.
2. Complete all forms sent to the facility by the inspector before the CAV to the best of their ability.
3. Provide a minimum of one facility contact that will accompany KDHE during the entire CAV, and provide access to additional employees as necessary to complete a detailed CAV.
4. Provide copies of all required documents for KDHE's review, and provide photocopies of necessary documents for the inspector to take with them for future reference.
5. Allow the inspector to take photographs (unless safety requirements prohibit this) at the facility to document discrepancies or to illustrate situations for future use.
6. Have all appropriate management personnel participate in the meeting at the conclusion of the CAV so that employees are aware that management supports and encourages the facility's compliance efforts.
7. Correct all discrepancies found during the CAV within the time frames established by the KDHE inspector. All discrepancies must be corrected and compliance achieved to KDHE's satisfaction within the timeframes established in the CAV inspection report in order to terminate the agreement. If a discrepancy cannot be corrected within the established time frame, the facility is responsible for contacting the KDHE inspector to obtain an extension. An alternate schedule may be approved by KDHE based upon justifiable circumstances explained by the facility as part of the request for extension.
8. Apply the knowledge learned from this facility CAV to all other facilities owned or managed by the company within Kansas.

**Signatures**

By signing this agreement, both the facility and KDHE specifically and expressly agree and acknowledge that this Agreement is entered into freely and voluntarily for the purposes of achieving and maintaining compliance with the hazardous waste regulations of the State of Kansas.

Agreement entered into this 7 day of February, 20 12

Company Representative:

Stephen C. Wood Plant Manager  
Printed Name Printed Title  
7 Mar 12 [Signature]  
Date of Signature Signature

KDHE Representative:

James K. Puleon James K. Puleon PSE III  
Printed Name Printed Title  
James K. Puleon 3-7-12  
Date of Signature Signature

**Contact Information**

**Company Information:**

Company Name: Great Western MFG Co. Inc  
Physical Address: 2017 South Fourth St. Leavenworth, KS 66048  
Mailing Address: Same  
EPA ID Number: KSD007136872  
Generator Status (if known): SOG  
Contact Name (for scheduling CAV): Doug Price  
Contact Phone Number: (913) 682-7291  
Contact e-mail address: dprice@gwmfg.com

**KDHE Information:**

Jim Rudeen, Section Chief  
Compliance Assistance and Enforcement Section  
KDHE Bureau of Waste Management  
1000 SW Jackson, Suite 320  
Topeka, KS 66612-1366  
785-296-1603  
jrudeen@kdheks.gov

**ATTACHMENT:**

**12**

KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT  
 DIVISION OF ENVIRONMENT  
 Bureau of Environmental Field Services  
 Waste Management Programs  
 Northeast District Office

The digital photographs contained in this report were recorded directly to an archival file or electronic media (such as a compact disc, digital versatile/video disc, or tape) prior to viewing on a computer system. KDHE certifies that such digital photographs are thus identical to the digital photographs taken during the inspection/investigation.

**Site Name:** Great Western Manufacturing Co, Inc.  
**Address:** 2017 South 4th Street  
**County:** Leavenworth  
**Legal:** \_\_\_\_\_

**EPA ID No.:** KSD 007 136 872  
**City:** Leavenworth  
**Camera:** Canon Powershot A590 IS  
**Taken By:** BPD



Photo No.:	1
Archive Disc File No.:	IMG_1944
Date:	March 7, 2012
Time:	3:02 AM
Location:	Near Maintenance Area
Direction Faced:	North
Weather Conditions:	Indoor
Comments:	The two left containers in the photo were not labeled with a proper universal waste label. The right container had a label on the backside, as shown in photo 2.



Photo No.:	2
Archive Disc File No.:	IMG_1945
Date:	March 7, 2012
Time:	3:04 AM
Location:	Near Maintenance Area
Direction Faced:	North
Weather Conditions:	Indoor
Comments:	The right container had a label on the back, which was visible when turned around.



KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT  
 DIVISION OF ENVIRONMENT  
 Bureau of Environmental Field Services  
 Waste Management Programs  
 Northeast District Office

The digital photographs contained in this report were recorded directly to an archival file or electronic media (such as a compact disc, digital versatile/video disc, or tape) prior to viewing on a computer system. KDHE certifies that such digital photographs are thus identical to the digital photographs taken during the inspection/investigation.

**Site Name:** Great Western Manufacturing Co, Inc.  
**Address:** 2017 South 4th Street  
**County:** Leavenworth  
**Legal:** 0

**EPA ID No.:** KSD 007 136 872  
**City:** Leavenworth  
**Camera:** Canon Powershot A590 IS  
**Taken By:** BPD



Photo No.:	<u>3</u>
Archive Disc File No.:	<u>IMG_1943</u>
Date:	<u>March 7, 2012</u>
Time:	<u>12:55 PM</u>
Location:	<u>North Paint Booth Area</u>
Direction Faced:	<u>Northwest</u>
Weather Conditions:	<u>Indoor</u>
Comments:	<u>55-gallon drum of hazardous paint related waste material with a funnel that does not attach or seal shut.</u>

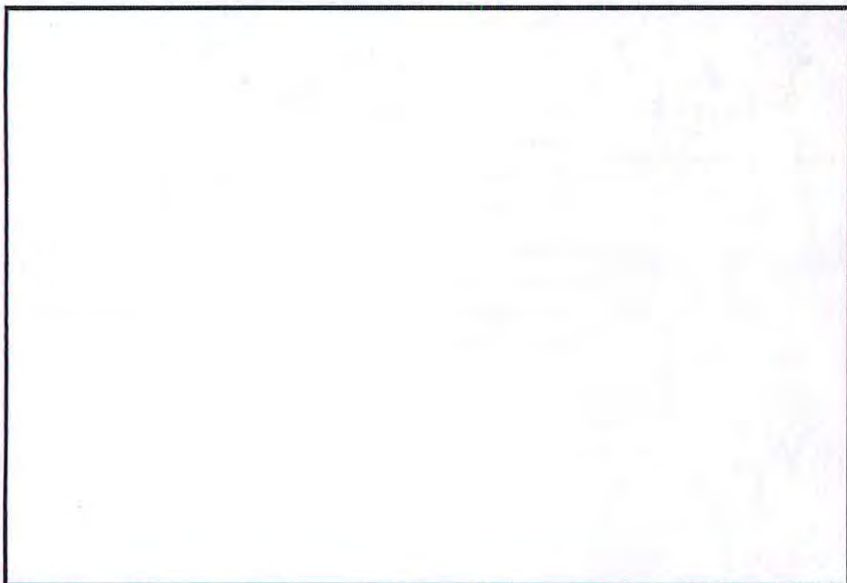


Photo No.:	<u>4</u>
Archive Disc File No.:	<u></u>
Date:	<u>March 7, 2012</u>
Time:	<u></u>
Location:	<u></u>
Direction Faced:	<u></u>
Weather Conditions:	<u>Indoor</u>
Comments:	<u></u>



STATE OF KANSAS



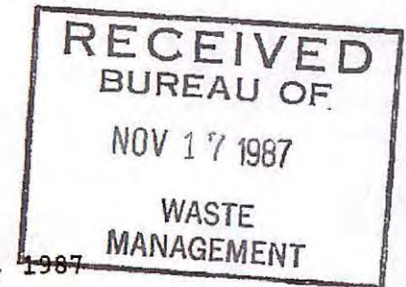
DEPARTMENT OF HEALTH AND ENVIRONMENT

Forbes Field  
Topeka, Kansas 66620-0001  
Phone (913) 296-1500

Mike Hayden, Governor  
November 13, 1987

Stanley C. Grant, Ph.D., Secretary  
Gary K. Hulett, Ph.D., Under Secretary

Mr. Karl Romig  
Great Western Manufacturing Co., Inc.  
2017 South Fourth  
P. O. Box 149  
Leavenworth, Kansas 66048



Re: Hazardous Waste Compliance Inspection of September 28, 1987

Dear Mr. Romig:

Thank you for your letter of October 22, 1987, which indicates you've taken action to correct deficiencies noted during the inspection.

During our telephone conversation on November 13, 1987, we discussed and answered your question regarding accumulating and storing hazardous wastes for a period longer than ninety (90) days.

Based on the information provided, your facility is in substantial compliance with state and federal hazardous waste regulations.

Your cooperation with the hazardous waste management program is appreciated. If you have questions concerning the inspection, please call me at the Northeast District Office in Lawrence at 913/842-4600.

Respectfully,

A handwritten signature in cursive script, appearing to read "Jim Fischer".

Jim Fischer  
Environmental Technician  
Inspections and Enforcement Section  
Bureau of Waste Management  
Northeast District

JF:jkh (great%.jf)

c: Tom Gross, Bureau of Waste Management  
John Paul Goetz, Bureau of Waste Management  
NEDO

# GREAT WESTERN MANUFACTURING CO., INC.



AREA CODE 913  
PHONE 682-2291

P. O. BOX 141

TRU-BALANCE FLOOR MOUNTED SIFTER  
"HS" FREE SWINGING SIFTER  
SIFTER SIEVES

LEAVENWORTH, KANSAS 66048-0149

GRAIN ELEVATOR EQUIPMENT  
CUSTOM FABRICATOR  
FLOUR MILL SUPPLIES

October 22, 1987

Department of Health and Environment  
Forbes Field  
Topeka, Kansas 66620-0001

Attn: Mr. Jim Fisher

Dear Jim:

Thank you very much for your letter of October 7th and I will attempt to answer your list of recommendations and comments starting on page 2 of your letter.

1. Container Marking: We have marked the 30 gallon drum that was nearly full at the time of your visit with the lettering "Hazardous Waste". However, no date was put on this drum since I have no way of knowing when the accumulation started.

This drum is nearly full and we have a 55 gallon acceptable drum that has been painted yellow marked "Hazardous Waste" and the start-up date has been placed on the drum.

2. We have started a regular inspection of both of the drums and are documenting these inspections.
3. A few days after your visit, I received a catalog in the mail with signs and placards and immediately ordered a supply of the 10-1/4" square, red, placards marked "Flammable". These have been received and are on file.
4. I have designated one of our foreman to be responsible for the inspections and named him "Emergency Coordinator". He has been given copies of the applicable information as shown in the booklet of administrative regulations that you were kind enough to leave me.
5. The day following your visit, I completed the application form for an EPA identification number and sent this on to the attention of John Paul Goetz.

We have been issued EPA ID #KSD007136872.

RECEIVED

OCT 29 1987

K. D. H. E.  
NORTHEAST DISTRICT

Jim, I believe that we have complied with all of your recommendations. In addition to this, I have been in contact with Conservation Services, Inc. of Wichita and talked with Mr. Gilbert Perez concerning disposal of the waste that we are generating. I am also contacting Safety-Kleen to discuss with them the possibility of picking these wastes up at the same time they service our parts cleaner which we have on order through Bearing Headquarters in Kansas City.

I do have one question and that is, would we be permitted to accumulate these wastes for a period of longer than ninety days?

Our accumulation is minimal and the cost of disposal would be greatly reduced if we could accumulate this material until we had several drums.

I would appreciate very much hearing from you with any comments that you might have about the outline that we have taken in response to your recommendations and also in answer to my question concerning the accumulation.

With best wishes, I remain,

Sincerely,

  
KARL A. ROMIG

gf

1. EPA ID: KSD007B6872  
 2. FACILITY NAME: GREAT WESTERN MANUFACTURING Co., Inc.  
 3. CITY: LEAVENWORTH, KS COUNTY: LEAVENWORTH  
 4. No EPA ID:   
 5. FACILITY TYPE:  
 TSD  GEN  
 ~~KG~~  SQ  
 TRANSPORTER  
 NOT A GENERATOR  
 GOVERNMENT FACILITY:  PUT F, S, OR L IN BOX  
 F - FEDERAL S - STATE L - LOCAL

6. DATE OF INITIAL EVALUATION WHICH IS THE BASIS FOR THIS REPORT: 8/28/87 INSPECTOR: Jim Fischer

EPA COMPLETES THIS BLOCK  
 GWM  SNC

7. TYPE OF EVALUATION COVERED BY THIS REPORT:  
 PUT CODE IN BOX CHOOSE ONE  1 = COMPLIANCE EVALUATION INSPECTION (CEI)  4 = COMPLIANCE GWM EVALUATION (CME)  
 5 = COMPLIANCE SCHEDULE EVALUATION (CSE)  5 = COMPLIANCE SCHEDULE EVALUATION (CSE)  
 2 = SAMPLING INSPECTION  11 = CASE DEVELOPMENT INSPECTION  
 3 = RECORD REVIEW  12 = OPERATION AND MAINTENANCE EVALUATION

8. DATE OF EVALUATION COVERED BY THIS REPORT (ENTER ONLY IF DIFFERENT FROM 6.):      /      /      (UPDATE)

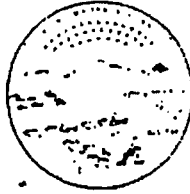
9. AREA AND CLASS OF VIOLATION (ENTER NUMBER OF VIOLATIONS BY AREA AND CLASS):

CLASS OF VIOLATION	AREA OF VIOLATION														
	NOT.	PRE-TRANS.	ACCUM. 90 D.	GEN FAC. STANDARDS	PREP & PREVENT	CONT. & E.P	STOR. COND.	GWM/RLS	CL/PCL	FIN REQ	PART B	COMP SCH.	MAN RPT	LAND BAN	OTHER
I															
II															

10. ENFORCEMENT ACTIONS FOR VIOLATIONS:

AREA OF VIOLATION	TYPE OF ACTION TAKEN (CIRCLE ONE)	DATE ACTION TAKEN (MDY)	COMPLIANCE DATES (MDY)		PENALTY	
			SCHEDULED	ACTUAL	ASSESSED	COLLECTED
<u>Not</u> <u>Pre-Trans</u> <u>Gen. Fac. Std.</u>	INFORMAL <u>WL/NOV</u> AO CIVAC CRIMAC	<u>10/9/87</u>	<u>11/10/87</u>	<u>11/13/87</u>		
	INFORMAL <u>WL/NOV</u> AO CIVAC CRIMAC	<u>10/9/87</u>	<u>11/10/87</u>	<u>11/13/87</u>		
	INFORMAL <u>WL/NOV</u> AO CIVAC CRIMAC	<u>10/9/87</u>	<u>11/10/87</u>	<u>11/13/87</u>		
	INFORMAL <u>WL/NOV</u> AO CIVAC CRIMAC	<u>    </u>	<u>    </u>	<u>    </u>		

COMMENTS: EIGHTY CHARACTER LIMIT.  
In substantial compliance.



DEPARTMENT OF HEALTH AND ENVIRONMENT  
Forbes Field  
Topeka, Kansas 66620-4001  
Phone (913) 296-1500

NON-NOTIFIER INSPECTION REPORT

A. GENERAL

Date September 28, 1987 Time 2:00 p.m.  
 Facility Name Great Western Manufacturing  
 Street 2017 South 4th Street City Leavenworth, Kansas  
 Zip 66048 County Leavenworth Phone 913-682-2291  
 Inspector(s) Jim Fischer  
 Contact Karl Romig Title Plant Supervisor  
 Nature of Business Fabricates Sleeves and sifter for the flourmilling  
industry.

B. INDUSTRIAL WASTE

WASTE:	Safety-Kleen Solvent	Toluene	Spent Paint Booth Filters
PROCESS:	Parts Cleaning	Painting	Painting
IS WASTE HAZARDOUS? (Yes, No, Maybe)	Yes	Yes	No
IF YES, GIVE EPA ID #:	D001	F005	N/A
IS WASTE EXEMPT DUE TO RECYCLING (261.6)			
AMOUNT GEN. PER MONTH:	17 gallons	Approximately 10 Gallons	Varies
PRESENT DISPOSAL METHOD:	Safety-Kleen	Dumpster	Dumpster
DISP. AUTH. IN EFFECT? (If yes, give No.)			No
AMOUNT NOW IN STORAGE:	None	30 Gallons	No
ACCUMULATION TIME:	N/A	6 Months	None
TYPE OF CONTAINER:		Steel Drum	
STORAGE CONDS. ADEQUATE?		Yes	



1. Total monthly generation rate of known hazardous waste - 22 gallons
2. Is facility required to notify?  YES  NO  
 If yes, what reason was given for failure to notify? Was not aware of requirement

**C. HAZARDOUS WASTE MANAGEMENT PRACTICES**

1. Are hazardous wastes or suspected hazardous wastes treated on site? YES  NO   
 If yes, describe the treatment process: \_\_\_\_\_

2. Are hazardous wastes or suspected hazardous wastes beneficially recycled, re-used, or reclaimed? YES  NO   
 If yes, are they, and is activity, listed on-site char. off-site.

3. Are hazardous wastes or suspected hazardous waste presently disposed of on-site?  YES  NO  
Waste solvent and paint wastes have been placed in dumpster.

- a. Have they been in the past?  YES  NO  
 If yes, describe See above

- b. If hazardous wastes or suspected hazardous waste are disposed of via the sanitary sewer, has permission from the city been obtained? YES  NO  NA

4. Are hazardous wastes transported from the site?  YES  NO  
 If yes, by whom: Safety-Kleen will begin picking up waste solvent in the near future. The facility is in the process of contracting with a haz. waste management facility to pick up the paint wastes, etc.

Summary

Great Western Manufacturing, Inc.

This facility manufactures sieves and sifters used in the flour industry. The facility was previously located at 208 Choctaw, Leavenworth and moved to their present location approximately one year ago. Wastes generated by the facility include:

1. Safety-Kleen Solvent - The facility has just signed a contract with Safety-Kleen and will be using one (1) 30-gallon parts washer. The washer will be located in the maintenance shop. Waste solvent was previously disposed in the trash or dumped on the ground.
2. Paint/Lacquer Contaminated Toluene - The facility has two (2) paint booths. One booth is used to spray clear lacquer on wooden sieve/sifter cases. The other booth is used to spray paint metal components. Toluene is used as paint thinner and for cleaning painting equipment. Paint wastes are being accumulated in a 30-gallon steel drum.

Previously paint wastes were disposed in the dumpster. The generator is in the process of contacting a hazardous waste management facility to pick up the waste thinner.

3. Paint Booth Filters - Each paint booth contains 28 exhaust filters. Spent filters are disposed of in the dumpster. No heavy metals testing of the spent filters is required as FDA regulations forbid the use of such paints in the food industry.
4. Used Oil - The facility has one (1) fork lift. Whenever the oil is changed, it is placed in the dumpster for disposal.

STATE OF KANSAS



DEPARTMENT OF HEALTH AND ENVIRONMENT

Forbes Field  
Topeka, Kansas 66620-0001  
Phone (913) 296-1500

Mike Hayden, Governor

Stanley C. Grant, Ph.D., Secretary  
Gary K. Hulett, Ph.D., Under Secretary

October 7, 1987

Mr. Karl Romig  
Great Western Manufacturing  
2017 South Fourth  
P. O. Box 149  
Leavenworth, Kansas 66048



Re: Hazardous Waste Compliance Inspection

Dear Mr. Romig:

On September 28, 1987, a hazardous waste compliance inspection of your facility was conducted by this department to determine compliance with state and federal regulations concerning hazardous waste.

The inspection revealed your facility generates the following hazardous wastes as defined by 40 CFR, Part 261, Subpart C as adopted by K.A.R. 28-31-3:

Wastes Generated	Waste Codes
1. Safety-Kleen Solvent	D001
2. Lacquer Thinner	D001

The quantity generated is more than 25 kilograms (approximately 55 pounds) but less than 1000 kilograms (approximately 2200 pounds) per month. Your facility is considered a Kansas generator and is regulated under K.A.R. 28-31-4 excluding K.A.R. 28-31-4(g) and K.A.R. 28-31-4(m).

As a Kansas generator, you must comply with the requirements outlined in the *Hazardous Waste Generator's Handbook* which was left during the inspection. Basically, these regulations require you to obtain an EPA Identification Number, manifest wastes shipped off-site, package, label, mark, and placard all containers, maintain records, and meet storage requirements. In addition, you must conduct personnel training and meet emergency response requirements.

The inspection identified the following items not in compliance with state and federal regulations concerning generators of hazardous waste:

STANDARDS FOR GENERATORS OF HAZARDOUS WASTE

Accumulation Time For Kansas Generators

1. Container Marking: Each container or tank must be marked clearly with the words "Hazardous Waste" and the accumulation start date in accordance with K.A.R.28-31-4(h)(1)(C and D).

The inspection revealed that your one (1) thirty (30) gallon drum of accumulated paint waste was not marked as required.

2. Container Inspection: A generator of a hazardous waste who accumulates such wastes in containers on site without a permit or without having interim status, for a period of (90) days or less, must inspect their containers for signs of leakage or corrosion and, in addition, these inspections must be documented. Refer to K.A.R. 28-31-4(g)(1) and (k).

The inspection revealed that you are not conducting documented weekly inspections of your hazardous waste storage container as required.

On the date of the inspection you were provided a sample weekly inspection log which you may modify for your respective requirements.

3. Placarding: The generator of a hazardous waste has the responsibility to offer the initial transporter the appropriate placards according to U.S. Department of Transportation regulations. Refer to K.A.R. 28-31-4(e)(4).

The inspection revealed that you do not have "Flammable" placards as required.

On the date of the inspection we discussed the sources for placards and the type of placarding required.

4. Personnel Training: Personnel training and emergency response requirements pertaining to Kansas generators must be followed as outlined in K.A.R. 28-31-4(h)(1)(E thru G) and (h)(2)(A thru E).

On the date of the inspection you were provided with a copy of the Personnel Training and Emergency Response Requirements.

EPA IDENTIFICATION NUMBERS

5. Notification: All Kansas and EPA generators shall apply for and obtain an EPA identification number from the department prior to generating, treating, storing, disposing, transporting, or offering for transportation, hazardous waste. A generator who has not received an EPA identification number may obtain one by applying to the department using a form supplied by the department. Whenever there is a change in the information originally submitted to obtain an EPA identification number, The generator shall update that information. These changes shall be submitted to the department on a form supplied by the department. K.A.R. 28-31-4 (c)(1).

The inspection revealed that you have not applied for and obtained an EPA Identification Number as required.

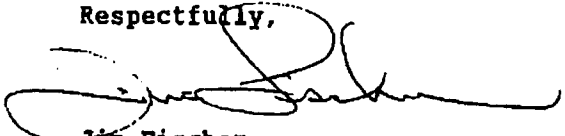
On the date of the inspection you were provided with a Hazardous Waste Notification Form. This form must be completed and submitted to the address shown, attention: John Paul Goetz.

Please take action to correct these deficiencies by November 10, 1987. Please notify our department in writing when corrected and please identify the corrective action(s) for each deficiency noted.

Safety-Kleen is currently picking up your waste solvent for recycling. This disposal method is satisfactory. You are in the process of arranging for a hazardous waste management facility to pick up your paint wastes. Until arrangements are made to pick up your paint wastes, you must accumulate these wastes on-site in an appropriately marked container. Please provide our department with a copy of the hazardous waste shipping manifest documenting shipment of these wastes.

Your cooperation with the hazardous waste management program is appreciated. If you have questions concerning this letter, please call me at the Northeast District Office in Lawrence at 913/842-4600.

Respectfully,



Jim Fischer  
Environmental Technician  
Inspections and Enforcement Section  
Bureau of Waste Management

JF:jkh (gwm#2.jf)

c: Tom Gross  
John Paul Goetz  
NEDO

12/16 UST004

KDHE Reference No: Owner ID: 06884

Facility ID: 30435

**Underground Storage Tank Compliance Verification**

*To be completed when repair or upgrade is finished.\**

Submit to: Kansas Department of Health and Environment  
Bureau of Environmental Remediation-Storage Tank Section  
1000 SW Jackson, Suite 410, Topeka, KS 66612-1367

14314 6/19  
Phone: 785-296-8061  
Fax# 785-559-4260

Facility Name: Coseys # 2826 City: Leavenworth State: KS Zip: 66048  
Facility Address: 2100 S. 4th

**\*Complete only the information pertaining to the approved work on the repair or upgrade/modification application.**

KDHE Tank/Line#	<u>063</u>	KDHE Tank/Line#	
Standby Tank (yes/no)		Tank Corrosion Protection	Test Date:
Tank Release Detection	Test Date:	Repair to Existing Cath. Protection?	Yes: No:
Interstitial Monitor DW		Sacrificial Anodes	
Statistical Inventory Recon.		Impressed Current	
Tightness Testing		No. of Anodes Replaced	
Manual Tank Gauging		No. of Anodes Added	
Automatic Tank Gauging		Repair to Rectifier	
Other:		Repair to CP wiring	
Dispenser Number:	Manf:	Interior Lining	
Pressure		Interior Lining Installation/Inspection Date:	
Safe Suction		Other:	
Conventional Suction		Line Corrosion Protection	Test Date:
Piping Release Detection	Test Date:	Repair to Existing Cath. Protection?	Yes: No:
Statistical Inventory Recon.		Sacrificial Anodes	
Tightness Testing		Impressed Current	
Interstitial Monitor (sump)		No. of Anodes Replaced	
Automatic Line Monitor		No. of Anodes Added	
Other:		Repair to Rectifier	
Pressure Line Rel. Det.	Test Date:	Repair to CP wiring	
Mechanical Leak Detector		Other:	
Continuous Alarm w/shutoff		Flex Connectors:	
Automatic Line Monitor		Tank (STP)	
Positive Shutoff		Line (Dispenser)	
STP Sump Sensor		Sacrificial Anodes	
Dispenser Sump Sensor		Wrapped	
Other:		Booted	
Pump and Dispenser Containment		Isolated from Soil	
Submersible Pump Pan		Impressed Current	
Dispenser Pan		Line Repair	Test Date:
Transition Sump		Fiberglass	
Submersible Pump		Flexible Nonmetallic	
STP (Submersible Pump)		Double Wall	
Other:		Line Manufacturer:	
Spill Prevention	Model #:	Length Installed (Feet)	
Spill Buckets		Other:	
Overfill Prevention	Model #:	District Inspection	
Overfill Shutoff Device		Contacted District Office	Yes: No:
Overfill Shutoff with Drop Tube		Inspection Date:	
Audible Overfill Alarm		Fix Inspection Deficiencies	
Ball Float Valve		Drop Tubes	

BER SCANNED  
JUN 12 2019

RECEIVED

JUN 04 2019

BUREAU OF ENVIRONMENTAL REMEDIATION

*Replaced sump det*

Oath: I certify that the information above concerning compliance with technical standards is true to the best of my belief and knowledge.  
KDHE Licensed Installer Signature: [Signature] IO# 1274 Date: 6-3-2019

*6/4/19 closed SA*

*6/4/19*

*06/10/19*

*6/11/19 de*



Division of Environment  
Curtis State Office Building  
1000 SW Jackson St., Suite 410  
Topeka, KS 66612-1367



Phone: 785-296-1678  
Fax: 785-559-4260  
www.kdheks.gov

Lee A. Norman, M.D., Secretary

Laura Kelly, Governor

June 4, 2019

Mr. Jordan Burghart I1274  
Haselwood, Inc.  
504 Applewood Dr.  
Manhattan, KS 66503

**Re: Approved UST Repair Notification (UST009) Form: Casey's #2826, 2100 S. 4<sup>th</sup> St.,  
Leavenworth, KS 66048 (Fac. ID #30435)**

Dear Mr. Burghart:

I have reviewed and approved the "UST Repair Notification (UST009)" form for the underground storage tanks at the above referenced facility. The notification reports work to replace the syphon jet on U003.

K.A.R. 28-44-15 (b) (1) authorizes Licensed UST Contractors to make repair applications by telephone if the repair is essential to protect public health and the environment. In addition to using the telephone, Contractors may make contact with KDHE by fax or email when a repair is deemed necessary. Should repairs be made during non-work hours or on the weekend, the Contractor must make contact with KDHE on the first workday following that repair. After notifying KDHE of the repair, Contractors may submit the Repair Notification (UST009) forms up to 30 days following the completion of the work.

Please complete and return the following forms, failure to do so is a violation of K.A.R. 28-44-15:

- "UST Compliance Verification (UST004)" form to be filed after the work is completed.  
(Received on 6/4/2019)

KDHE has received the required forms and considers the application closed. Finally, if you have not already done so, arrange for a facility inspection with the nearest KDHE District Office. Thank you for your continued cooperation.

Sincerely,

A handwritten signature in black ink, appearing to read "Sean Kammerlohr".

Sean Kammerlohr  
Environmental Associate  
KDHE-BER-Storage Tank Section

SDK: RA  
PC: (owner/operator), KDHE-NEDO, file

### UST Repair Notification

(Petroleum Products and Hazardous Substances)

14314

Submit to: **Kansas Department of Health and Environment  
Bureau of Environmental Remediation  
Storage Tank Section  
1000 SW Jackson, Suite 410  
Topeka KS 66612-1367  
Phone: 785 296-8061**

KDHE USE ONLY:

State of Kansas - Division of Environment <b>APPROVED</b> When constructed to conform with Art. 44 Date: <u>6/4/19</u> By: <u>[Signature]</u> <u>NE</u>
---

If any work involves upgrading or modifying the system, use the **UST Upgrade/Modification Application**. Use THIS form only if work replaces parts in kind, or if a cathodic protection system is being repaired.

Please Print Clearly or Type

#### I. Facility Information

A. Facility Name: Casey's #2826  
B. Facility Address: 2100 S. 4th Leavenworth KS 66048  
(street) (city) (state) (zip)

#### II. Tank Owner Information

A. Owner Name: Casey's Retail Company  
B. Owner Address: Po Box 3001 one commerce way Ankony IA 50021  
(street) (city) (state) (zip)  
C. Contact Person: Jill Reans Widder Phone: ( ) -

#### III. Contractor Information

A. Contractor Name: Haselwood Inc License No. & Exp. Date.: 60578  
B. Contractor Address: 504 Applewood dr Manhattan KS 66502  
(street) (city) (state) (zip)  
C. Contact Person: Ed Haselwood Phone: (785) 630-0299  
Email ed@haselwood-inc.com Fax: (785) 630-0299

#### IV. KDHE Tank or Line Nos. to be repaired: 003

A. Describe the repairs to be done. Attach manufacturer's repair instructions, if applicable:  
Replaced Syphon Jet in Diesel (003) STP, purged air from line  
B. Describe reason for repairs: failed LD of test  
C. Are tanks to be taken out of service because of this proposed repair? Yes  No   
D. Have tank or line failures lead to this proposed repair? Yes  No   
If yes, to whom was the leak reported? \_\_\_\_\_  
E. If failures have occurred, please briefly describe the incident: \_\_\_\_\_

F. Is this facility in the State Trust Fund for environmental cleanup? Yes  No

#### V. System Test:

A. A tightness test must be performed within thirty (30) days if repairs were done to portions of the UST system that routinely contain fuel. Only that portion of the system repaired must be tested. A printout from an automated monthly monitoring device may be substituted for a tightness test. Test method used: \_\_\_\_\_  
B. If the cathodic protection system has been repaired, a system test must be performed within six months of repair. Impressed current cathodic protection systems must also be inspected within sixty (60) days of repair.

#### VI. Applicant's Certification:

I certify that the information above is true to the best of my knowledge and that all equipment will be repaired in compliance with the manufacturers' repair instructions if applicable. The repair will be performed in compliance with all federal, state, and local regulations.

Contractor's Signature: [Signature] IO# 1274 Date: 6-3-2019

Division of Environment  
Curtis State Office Building  
1000 SW Jackson St., Suite 410  
Topeka, KS 66612-1367



Phone: 785-296-1678  
Fax: 785-559-4260  
www.kdheks.gov

Lee A. Norman, M.D., Secretary

Laura Kelly, Governor

May 20, 2019

KDHE District NE  
Owner ID: 06884  
CASEY'S RETAIL COMPANY  
PO BOX 3004, ONE CONVENIENCE BLVD  
ANKENY, IA 50021

Re: Facility 30435  
CASEY'S GENERAL STORE - #2826  
2100 S. 4TH STREET  
LEAVENWORTH, KS 66048

TANKS: 001,002,003

Attention Underground Storage Tank Owner:

The purpose of this letter is to inform you that KDHE **has issued** your 2018/2019 UST Operating Permits for the underground storage tanks (USTs) at the facility referenced above. However, since the printing of your UST permits, the USTs have fallen out of compliance. KDHE will not print 2019/2020 UST Operating Permits until these USTs are brought back into compliance.

Not having UST Operating Permits places you in violation of K.S.A. 65-34,109 (b) (6) and the federal Energy Policy Act of 2005. If you are found to be operating these USTs during an inspection, KDHE will provide notice to the company that delivers regulated substances to your facility that such deliveries should cease until KDHE issues permits for your facility.

Below you will find listed the reasons why KDHE has determined that your USTs are out of compliance. You may contact KDHE if you have information that corrects KDHE's determination so your permits can be issued.

The tanks are out of compliance for the following reason(s):

**KDHE has not received the latest results of your most current ALM , LLD, or MLD function test (s) for tank number(s): 001, 002, 003. Federal and KDHE regulations require the ALM , LLD, or MLD be tested annually.**

Your current 2018/2019 UST permits will expire on July 31, 2019. If you plan on operating your USTs after July 31, 2019, you are required to bring your tanks into compliance with KDHE UST regulations to receive your 2019/2020 permits. If you have any questions concerning this letter or if you would like to discuss your options to bring your USTs into compliance, please feel free to contact the UST Program staff at 785-296-8061 or toll free at 1-877-221-0325.

Sincerely,

A handwritten signature in cursive script that reads "Marcus Meerian".

Marcus Meerian  
Environmental Program Administrator I  
Storage Tank Section

**Kansas Department of Health and Environment  
2019 UST Annual Registration and Permit Renewal Notice  
and the Emergency Planning and Community Right To Know Act  
Special UST Tier II Form**

**REVIEW AND UPDATE THIS FORM, COMPLETE THE SIGNATURE BLOCK, AND RETURN THIS FORM WITH YOUR \*\*\*\*PAYMENT BEFORE APRIL 30, 2019. \*\*\*\***

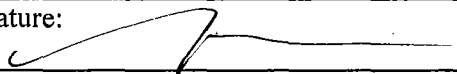
Kansas Department of Health and Environment (KDHE) records indicate that you have 3 active tank(s) registered at the Facility listed below. A total of **\*\* \$30.00\*\*** must be submitted to KDHE at the address below with this **\*\*RENEWAL NOTICE\*\***

<b>Owner</b>	<b>Facility</b>
Owner ID: 06884 CASEY'S RETAIL COMPANY PO BOX 3004, ONE CONVENIENCE BLVD ANKENY, IA 50021	Facility ID: 30435 CASEY'S GENERAL STORE - #2826 2100 S. 4TH STREET LEAVENWORTH, KS 66048

Tank Number	U001	U002	U003		
Status of Tank	In Use	In Use	In Use		
Exempt?	No	No	No		
Year Installed	2009	2009	2009		
Capacity (Gallons)	20,000	12,000	8,000		
Product Stored	Gas Unleaded Regular	Gas Unleaded Premium	Diesel Clear		
CAS Number	8006-61-9	8006-61-9	68476-34-6		
Tank Release Detection	ATG	ATG	ATG		
Model / Service	Veeder Root TLS-350	Veeder Root TLS-350	Veeder Root TLS-350		
Dispenser Type	Pressure	Pressure	Pressure		
ALM/LLD/MLD	ALM	ALM	ALM		
Line Release Detection	ALM	ALM	ALM		
Model / Service	Veeder Root TLS-350	Veeder Root TLS-350	Veeder Root TLS-350		
Financial Responsibility	SI 08/30/2019	SI 08/30/2019	SI 08/30/2019		

**\* Please cross out any USTs removed from your facility. Check to see if your licensed remover has submitted an Underground Storage Tank Permanent Abandonment (UST008) form to KDHE.**

If any of the above information is not correct, *such as the Owner's Mailing address* or any information related to the storage tanks system, provide a written description of any needed changes on this form and submit it with your payment. If an incorrect owner mailing address is listed and corrections are not made, your permit(s) may be delayed. **FAILURE TO COMPLETE THIS RENEWAL FORM AND SUBMIT IT WITH THE APPROPRIATE FEES PRIOR TO APRIL 30, 2019 WILL PREVENT YOU FROM OBTAINING THE REQUIRED PERMITS BEFORE JULY 31, 2019.**

<b>Certification of Accuracy</b>		
Owner Contact Person (print name): <b>JILL REAMS-WIDDER</b>	Facility Phone: <b>913-651-1303</b>	
Owner Signature: 	Date: <b>4/8/19</b>	
24-Hour Contact Name: <b>JILL-REAMS-WIDDER</b>	Cell Phone:	24-Hour Phone: <b>515-965-6238</b>

Submit to: <b>Kansas Department of Health and Environment Bureau of Environmental Remediation Storage Tank Section 1000 SW Jackson, Suite 410 Topeka, KS, 66612-1367</b>	* Please direct questions concerning the underground storage tank program to 1-877-221-0325. The storage tank program website can be found at: <a href="http://www.kdheks.gov/tanks/index.html">http://www.kdheks.gov/tanks/index.html</a>  * Please direct questions concerning the Right-to-Know program to (785) 296-1688. Listings of LEPCs can be found at: <a href="http://www.kansastag.gov/KDEM.asp?PageID=158">http://www.kansastag.gov/KDEM.asp?PageID=158</a> (Click on County Emergency Managers)
---	--

**Please retain a copy of this renewal notice for your records.  
Send a copy to your Local Emergency Planning Committee(s)**

BUREAU OF ENVIRONMENTAL REMEDIATION  
APR 08 2019  
RECEIVED  
100712196

Division of Environment  
Curtis State Office Building  
1000 SW Jackson St., Suite 410  
Topeka, KS 66612-1367



Phone: 785-296-1678  
Fax: 785-559-4260  
www.kdheks.gov

Lee A. Norman, M.D., Secretary

Laura Kelly, Governor

April 29, 2019

KDHE District NE  
Owner ID: 06884  
CASEY'S RETAIL COMPANY  
PO BOX 3004, ONE CONVENIENCE BLVD  
ANKENY, IA 50021

Re: Facility 30435  
CASEY'S GENERAL STORE - #2826  
2100 S. 4TH STREET  
LEAVENWORTH, KS 66048

TANKS: 001,002,003

Attention Underground Storage Tank Owner:

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**KDHE has not received the latest results of your most current ALM , LLD, or MLD function test (s) for tank number(s): 001, 002, 003. Federal and KDHE regulations require the ALM , LLD, or MLD be tested annually.**

Your current 2018/2019 UST permits will expire on July 31, 2019. If you plan on operating your USTs after July 31, 2019, you are required to bring your tanks into compliance with KDHE UST regulations to receive your 2019/2020 permits. If you have any questions concerning this letter or if you would like to discuss your options to bring your USTs into compliance, please feel free to contact the UST Program staff at 785-296-8061 or toll free at 1-877-221-0325.

Sincerely,

A handwritten signature in cursive script that reads "Marcus Meerian".

Marcus Meerian  
Environmental Program Administrator I  
Storage Tank Section

### KANSAS DEPARTMENT OF HEALTH & ENVIRONMENT FACILITY COMPLIANCE INSPECTION CHECKLIST

Ownership of Tank(s)			Location of Tank(s)		
Owner ID:	06884		Facility ID:	30435	
Owner Name:	Casey's Retail Company		Facility Name:	Casey's General Store #2826	
Address:	PO Box 3004, One Convenience Blvd.		Address:	2100 S. 4th Street	
City:	Ankeny IA	Zip:	50021	City:	Leavenworth
				Zip:	66048
Contact Person:	Jill Reams-Widder		Ph:		
				Contact Person:	same
				Ph:	

4-8-17

KDHE Tank/Line No.	001	002	003	-	-	-	KDHE Tank/Line No.	001	002	003	-	-	-
In Use (Y/N)	Y	Y	Y	✓	✓	✓	Temporary Permit (Y/N)	.	.	.	✓	✓	✓
Stand-by Tank (Y/N)	N	N	N	✓	✓	✓	Regular Permit (Y/N)	Y	Y	Y	✓	✓	✓
Temporary Out (Y/N)	N	N	N	✓	✓	✓	<b>Tank Construction</b>						
Abandoned (Y/N)	N	N	N	✓	✓	✓	Fiberglass (Single/DW)	X	X	X	✓	✓	✓
Product Stored	gas	gas	die	✓	✓	✓	Steel Clad with Fiberglass	.	.	.	✓	✓	✓
<b>Tank Release Detection</b>							Steel	.	.	.	✓	✓	✓
Automatic Tank Gauging	X	X	X	✓	✓	✓	<b>Corrosion Protection - Tanks</b>						
Interstitial Mon. DW Tank	.	.	.	✓	✓	✓	Internal Lining	.	.	.	✓	✓	✓
Manual Tank Gauging	.	.	.	✓	✓	✓	Impress Current Cathodic	.	.	.	✓	✓	✓
Statistical Inv. Recon.	.	.	.	✓	✓	✓	Sacrificial Anode Cathodic	.	.	.	✓	✓	✓
Vapor Monitoring	.	.	.	✓	✓	✓	<b>Internal Lining Inspection Date:</b> NA						
Observation Tubes (Y/N)	Y	Y	Y	✓	✓	✓	<b>Cathodic Protection Test Date:</b> NA APR 09 2019						
Inventory Control (Y/N)	Y	Y	Y	✓	✓	✓	<b>Line Construction</b>						
Drop Tubes (Y/N)	Y	Y	Y	✓	✓	✓	Copper	.	.	.	✓	✓	✓
<b>Dispenser Type</b>							Fiberglass (Single/DW)	.	.	.	✓	✓	✓
Conventional Suction	.	.	.	✓	✓	✓	Flexible Non-metallic	X	X	X	✓	✓	✓
Pressure	X	X	X	✓	✓	✓	Steel	.	.	.	✓	✓	✓
Safe Suction	.	.	.	✓	✓	✓	<b>Corrosion Protection - Lines</b>						
<b>Pressure Piping Release Detection</b>							Impress Current Cathodic	.	.	.	✓	✓	✓
Automatic Line Monitor	X	X	X	✓	✓	✓	Sacrificial Anode Cathodic	.	.	.	✓	✓	✓
Interstitial Monitoring	.	.	.	✓	✓	✓	<b>Cathodic Protection Test Date:</b> NA						
Statistical Inv. Recon.	.	.	.	✓	✓	✓	<b>Flex Connectors (CP, Wrapped, Boot, Isolated)</b>						
Tightness Testing	.	.	.	✓	✓	✓	Dispenser (CP, W, B, I)	.	.	.	✓	✓	✓
<b>Line Tightness Test Date:</b> 6-5-2009							Sub Pump (CP, W, B, I)	.	.	.	✓	✓	✓
<b>Automatic Line Monitor Function Check Date:</b> 3-14-2018							<b>Flex Connector Cathodic Protection Test Date:</b> NA						
<b>Mechanical Leak Detector Function Check Date:</b>													

BUREAU OF ENVIRONMENTAL REMEDIATION RECEIVED

SP.4



Owner ID: 06884

Facility ID: 30435

KDHE Tank/Line No. <u>001</u> <u>002</u> <u>003</u> - - -							KDHE Tank/Line No. <u>001</u> <u>002</u> <u>003</u> - - -							
<b>Pressure Lines Release Detection</b>							<b>Spill Prevention</b> (W-Water,P-Product,D-Debris)							
Automatic Line Monitor	-	X	X	X	~	~	~	Spill Buckets (Y/N)	Y	Y	Y	~	~	~
Mechanical Leak Detector	.	.	.	.	~	~	~	Clean (Y/W/P/D)	W	W	W	~	~	~
Interstitial Sensor - Dispenser	.	.	.	.	~	~	~	Repair/Replace (Y/N)	N	N	N	~	~	~
Interstitial Sensor - Sump	.	.	.	.	~	~	~	Remote Fill (Y/N)	-	-	-	~	~	~
<b>Sump and Dispenser Containment</b> (W-Water,P-Product,D-Debris)							<b>Overfill Protection</b>							
Dispenser (Y/N)	6	Y	Y	Y	~	~	~	Audible Overfill Alarm	.	.	.	~	~	~
Clean (Y/W/P/D)		Y	Y	Y	~	~	~	Auto Shut Off Device	.	.	.	~	~	~
Sensor Correct Height (Y/N)		Y	Y	Y	~	~	~	Ball Float Valve	X	X	X	~	~	~
Sump (Y/N)		Y!!	Y	Y	~	~	~	<b>Operator Training</b>						
Clean (Y/W/P/D)		Y	Y	Y	~	~	~	A/B Operator	Certificate No	00004455	Expires	2-5-23		
Sensor Correct Height (Y/N)		Y	Y	Y	~	~	~		Certificate No	-	Expires	.		
<b>Rectifier</b> <u>NA</u>														
Operational (Y/N)								Class C Trained (Y/N)				Y		
Readings Recorded (Y/N)		30-Day			60-Day			Follow up Inspection to be scheduled (Y/N)					N	
Volts		Amps		Hours			Projected Date of Follow Up Inspection						-	

Comments

Permit displayed 2. Yes

ATG: (V-R) TLS-350 Plus 'All Functions Normal'

! ALM Annual function check is due.

\* Water in spill Buckets, Containments should be kept clean & dry.

ATG probe risers located in STP sumps.

IM probe risers " " " " of u001 & u002

ALMs confirmed.

!! Surface vault-ring @ u001 STP sump is out-of-round & should be repaired. (Snow Plow damage).

SUBREACTOR ENVIRONMENTAL REMEDIATION

APR 09 2019

RECEIVED

Required to Address Deficiencies Yes            No           

Date Inspected 4-1-2019

Facility Representative *Michael J. [Signature]*  
(Signature)

District Representative *Michael J. [Signature]*  
(Signature)

TNKINV02

RUN DATE: 03-05-19

STORE: 2826 LEAVENWORTH #3, KS

DC\_TankInventory

Unleaded

TANK INVENTORY RECORD

SIZE: 20000

TYPE: Fiberglass (DW)

BRAND: Containment Solutions

DATE	A OPENING INVENTORY	B GALS SOLD	C DELIVER TODAY	D INVTRY TODAY A-B+C	E MORNING STICK READING	F CHART GALS	G ELECT PRINT OUT	H WATER LEVEL	K DIFFER TODAY F-D	L DIFFER MTD K+L
02-01-19	8822	3568	8500	13754	77.03	13917	P	0.0000	163	163
02-02-19	13917	2652	0	11266	64.72	11218	P	0.0000	48-	115
02-03-19	11218	1816	0	9402	56.49	9374	P	0.0000	28-	87
02-04-19	9374	2979	8506	14901	81.83	14884	P	0.0000	17-	70
02-05-19	14884	3293	0	11591	66.17	11525	P	0.0000	66-	4
02-06-19	11525	2948	0	8578	52.71	8531	P	0.0000	47-	43-
02-07-19	8531	2377	0	6154	41.60	6133	P	0.0000	21-	64-
02-08-19	6133	2964	0	3169	26.35	3178	P	0.0000	9	55-
02-09-19	3178	3282	8520	8416	52.23	8468	P	0.0000	52	3-
02-10-19	8468	1448	0	7020	45.60	6999	P	0.0000	21-	24-
02-11-19	6999	3150	8500	12349	70.33	12475	P	0.0000	126	102
02-12-19	12475	3122	3002	12355	69.81	12351	P	0.0000	4-	98
02-13-19	12351	3442	5304	14213	78.76	14273	P	0.0000	60	158
02-14-19	14273	3724	4000	14550	80.22	14561	P	0.0000	11	169
02-15-19	14561	2727	3200	15034	82.69	15068	P	0.0000	34	203
02-16-19	15068	1892	0	13176	73.49	13132	P	0.0000	44-	159
02-17-19	13132	1160	0	11972	68.09	11950	P	0.0000	22-	137
02-18-19	11950	2664	0	9286	55.90	9243	P	0.0000	43-	94
02-19-19	9243	3291	7297	13249	73.78	13215	P	0.0000	34-	60
02-20-19	13215	2316	0	10899	63.09	10860	P	0.0000	39-	21
02-21-19	10860	2594	0	8266	51.26	8224	P	0.0000	42-	21-
02-22-19	8224	2842	8509	13891	77.52	13995	P	0.0000	104	83
02-23-19	13995	2334	0	11660	66.56	11617	P	0.0000	43-	40
02-24-19	11617	1613	0	10004	59.20	9979	P	0.0000	25-	15
02-25-19	9979	2652	6998	14325	79.96	14532	P	0.0000	207	222
02-26-19	14532	3026	0	11506	65.69	11444	P	0.0000	62-	160
02-27-19	11444	3224	4500	12720	71.60	12750	P	0.0000	30	190
02-28-19	12750	2886	4307	14172	78.36	14213	P	0.0000	41	231

*48659 x .01 = 486.59 + 130 = 616.59*

RUN DATE: 03-05-19

STORE: 2826 LEAVENWORTH #3, KS

DC\_TankInventory

PremUnl+

TANK INVENTORY RECORD

SIZE: 12000

TYPE: Fiberglass (DW)

BRAND: Containment Solutions

DATE	A OPENING INVENTORY	B GALS SOLD	C DELIVER TODAY	D INVTRY TODAY A-B+C	E MORNING STICK READING	F CHART GALS	G ELECT PRINT OUT	H WATER LEVEL	K DIFFER TODAY F-D	L DIFFER MTD K+L
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TNKINV02

02-09-19	4556	216	0	4340	60.34	4337	P	0.0000	3-	39-
02-10-19	4337	81	0	4256	59.42	4254	P	0.0000	2-	41-
02-11-19	4254	225	0	4029	56.91	4025	P	0.0000	4-	45-
02-12-19	4025	136	0	3889	55.39	3887	P	0.0000	2-	47-
02-13-19	3887	181	0	3706	53.36	3703	P	0.0000	3-	50-
02-14-19	3703	458	0	3245	48.20	3240	P	0.0000	5-	55-
02-15-19	3240	186	2000	5054	68.55	5095	P	0.0000	41	14-
02-16-19	5095	116	0	4979	67.28	4977	P	0.0000	2-	16-
02-17-19	4977	21	0	4956	67.07	4956	P	0.0000	0	16-
02-18-19	4956	131	0	4825	65.61	4823	P	0.0000	2-	18-
02-19-19	4823	168	1217	5872	77.42	5879	P	0.0000	7	11-
02-20-19	5879	204	0	5675	75.07	5670	P	0.0000	5-	16-
02-21-19	5670	415	0	5255	70.33	5247	P	0.0000	8-	24-
02-22-19	5247	140	0	5107	68.75	5104	P	0.0000	3-	27-
02-23-19	5104	97	0	5007	67.66	5006	P	0.0000	1-	28-
02-24-19	5006	82	0	4924	66.73	4922	P	0.0000	2-	30-
02-25-19	4922	323	0	4599	63.10	4595	P	0.0000	4-	34-
02-26-19	4595	307	0	4288	59.68	4284	P	0.0000	4-	38-
02-27-19	4284	159	0	4125	57.91	4123	P	0.0000	2-	40-
02-28-19	4123	452	0	3671	52.86	3664	P	0.0000	7-	47-

---

$5878 \times 0.01 = 58.78 + 130 = 188.78$

Division of Environment  
Curtis State Office Building  
1000 SW Jackson St., Suite 410  
Topeka, KS 66612-1367



Phone: 785-296-1678  
Fax: 785-559-4260  
www.kdheks.gov

Lee A. Norman, M.D., Acting Secretary

Laura Kelly, Governor

March 19, 2019

KDHE District NE  
Owner ID: 06884  
CASEY'S RETAIL COMPANY  
PO BOX 3004, ONE CONVENIENCE BLVD  
ANKENY, IA 50021

Re: Facility 30435  
CASEY'S GENERAL STORE - #2826  
2100 S. 4TH STREET  
LEAVENWORTH, KS 66048

TANKS: 001,002,003

Attention Underground Storage Tank Owner:

The purpose of this letter is to inform you that KDHE **has issued** your 2018/2019 UST Operating Permits for the underground storage tanks (USTs) at the facility referenced above. However, since the printing of your UST permits, the USTs have fallen out of compliance. KDHE will not print 2019/2020 UST Operating Permits until these USTs are brought back into compliance.

Not having UST Operating Permits places you in violation of K.S.A. 65-34,109 (b) (6) and the federal Energy Policy Act of 2005. If you are found to be operating these USTs during an inspection, KDHE will provide notice to the company that delivers regulated substances to your facility that such deliveries should cease until KDHE issues permits for your facility.

Below you will find listed the reasons why KDHE has determined that your USTs are out of compliance. You may contact KDHE if you have information that corrects KDHE's determination so your permits can be issued.

The tanks are out of compliance for the following reason(s):

**KDHE has not received the latest results of your most current ALM, LLD, or MLD function test (s) for tank number(s): 001, 002, 003. Federal and KDHE regulations require the ALM, LLD, or MLD be tested annually.**

Your current 2018/2019 UST permits will expire on July 31, 2019. If you plan on operating your USTs after July 31, 2019, you are required to bring your tanks into compliance with KDHE UST regulations to receive your 2019/2020 permits. If you have any questions concerning this letter or if you would like to discuss your options to bring your USTs into compliance, please feel free to contact the UST Program staff at 785-296-8061 or toll free at 1-877-221-0325.

Sincerely,

A handwritten signature in cursive script that reads "Marcus Meerian".

Marcus Meerian  
Environmental Program Administrator I  
Storage Tank Section

STATE OF KANSAS

DEPARTMENT OF HEALTH AND ENVIRONMENT  
DIVISION OF ENVIRONMENT  
CURTIS STATE OFFICE BUILDING  
1000 SW JACKSON ST., SUITE 410  
TOPEKA, KS 66612-1367



PHONE: (785) 296-1660  
FAX: (785) 559-4261  
WWW.KDHEKS.GOV

GOVERNOR JEFF COLYER, M.D.  
JEFF ANDERSEN, SECRETARY

August 31, 2018

KDHE District NE  
Owner ID: 06884  
CASEY'S RETAIL COMPANY  
PO BOX 3004, ONE CONVENIENCE BLVD  
ANKENY, IA 50021

Re: Facility 30435  
CASEY'S GENERAL STORE - #2826  
2100 S. 4TH STREET  
LEAVENWORTH, KS 66048

TANKS: 001,002,003

Attention Underground Storage Tank Owner:

The purpose of this letter is to inform you that KDHE **has issued** your 2018/2019 UST Operating Permits for the underground storage tanks (USTs) at the facility referenced above. However, since the printing of your UST permits, the USTs have fallen out of compliance. KDHE will not print 2019/2020 UST Operating Permits until these USTs are brought back into compliance.

Not having UST Operating Permits places you in violation of K.S.A. 65-34,109 (b) (6) and the federal Energy Policy Act of 2005. If you are found to be operating these USTs during an inspection, KDHE will provide notice to the company that delivers regulated substances to your facility that such deliveries should cease until KDHE issues permits for your facility.

Below you will find listed the reasons why KDHE has determined that your USTs are out of compliance. You may contact KDHE if you have information that corrects KDHE's determination so your permits can be issued.

The tanks are out of compliance for the following reason(s):

**KDHE has not received documentation of a financial assurance mechanism covering 3rd party property damage or personal injury claims for tank number(s): 001, 002, 003. Agency records indicate your insurance policy expired on 08-30-2018. KDHE requires annual documentation of most forms of financial responsibility, or proof of current 3rd Party Liability Insurance, which covers damage to property or injuries to people caused by releases from USTs.**

Your current 2018/2019 UST permits will expire on July 31, 2019. If you plan on operating your USTs after July 31, 2019, you are required to bring your tanks into compliance with KDHE UST regulations to receive your 2019/2020 permits. If you have any questions concerning this letter or if you would like to discuss your options to bring your USTs into compliance, please feel free to contact the UST Program staff at 785-296-8061 or toll free at 1-877-221-0325.

Sincerely,

Handwritten signature of Marcus Meerian in cursive.

Marcus Meerian

Environmental Program Administrator I

**Kansas Department of Health and Environment  
2018 UST Annual Registration Renewal Invoice and Emergency Planning and Community Right To Know  
Act Special UST Tier II Form.**

**REVIEW THIS FORM, COMPLETE THE SIGNATURE BLOCK, AND RETURN THIS FORM WITH YOUR  
\*\*\*\*PAYMENT BEFORE APRIL 30, 2018. \*\*\*\***

Kansas Department of Health and Environment (KDHE) records indicate that you have 3 active tank (s) registered at the Facility listed below. A total of **\*\*\$30.00\*\*** must be submitted to KDHE at the address below with this **\*\*RENEWAL INVOICE\*\***

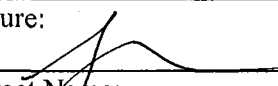
<b>Owner</b>	<b>Facility</b>
Owner ID: 06884 CASEY'S RETAIL COMPANY PO BOX 3004, ONE CONVENIENCE BLVD ANKENY, IA 50021	Facility ID: 30435 CASEY'S GENERAL STORE - #2826 2100 S. 4TH STREET LEAVENWORTH, KS 66048

**RECEIVED**  
**APR 05 2018**  
BUREAU OF ENVIRONMENTAL REMEDIATION

Tank Number	U001	U002	U003	
Status of Tank	In Use	In Use	In Use	
Exempt?	No	No	No	
Year Installed	2009	2009	2009	
Capacity (Gallons)	20,000	12,000	8,000	
Product Stored	Gas Unleaded Regular	Gas Unleaded Premium	Diesel Clear	
CAS Number	8006-61-9	8006-61-9	68476-34-6	
Physical/Health Hazards*	F,C,A	F,C,A	F,C,A	
Tank Release Detection	IMDW, ATG	IMDW, ATG	IMDW, ATG	
Model / Service	Veeder Root TLS-350	Veeder Root TLS-350	Veeder Root TLS-350	
Dispenser Type	Pressure	Pressure	Pressure	
Shutoff/Alarm/FR/ALM	ALM	ALM	ALM	
Line Release Detection	IM, ALM	IM, ALM	IM, ALM	
Model / Service	Veeder Root TLS-350	Veeder Root TLS-350	Veeder Root TLS-350	
Financial Responsibility	SI 08/30/2018	SI 08/30/2018	SI 08/30/2018	

(1) Average Daily Amount assumed to be 1/2 of the Total Capacity unless otherwise stated.  
 (2) Assume storage of liquid substances is 365 days at the listed facility unless otherwise indicated.  
 (3) Please cross out any USTs removed from your facility. Check to see if your licensed remover has submitted a **Underground Storage Tank Permanent Abandonment (UST008)** form to KDHE.  
 \* Review what is listed, Fire (F), Chronic (C), Acute (A) to describe the tank contents. (This information is found on your MSDS sheets.)

If any of the above information is not correct, *such as the Owner's Mailing address* or any information related to the storage tanks system, provide a written description of any needed changes on this invoice and submit it with your payment. If an incorrect owner mailing address is listed and corrections are not made, your permit(s) may be delayed. **FAILURE TO COMPLETE THIS INVOICE AND SUBMIT IT WITH THE APPROPRIATE FEES PRIOR TO APRIL 30, 2018 WILL PREVENT YOU FROM OBTAINING THE REQUIRED PERMITS BEFORE JULY 31, 2018.**

<b>Certification of Accuracy</b>	
Owner Contact Person (print name): <b>JILL REAMS-WIDDER</b>	Facility Phone: <b>913-651-1303</b>
Owner Signature: 	Date: <b>4/3/18</b>
24-Hour Contact Name: <b>JILL-REAMS-WIDDER</b>	24-Hour Phone: <b>515-965-6238</b>

Submit to: <b>Kansas Department of Health and Environment Bureau of Environmental Remediation Storage Tank Section 1000 SW Jackson, Suite 410 Topeka, KS, 66612-1367</b>	Please direct questions concerning the underground storage tank program to 1-877-221-0325. <a href="http://www.kdheks.gov/tanks/index.html">http://www.kdheks.gov/tanks/index.html</a>  Please direct questions concerning the Right-to-Know program to (785) 296-1688. Listings of LEPCs at <a href="http://www.kansastag.gov/KDEM.asp?PageID=158">http://www.kansastag.gov/KDEM.asp?PageID=158</a> (Click on County Emergency Managers)
---	---

**Please retain a copy of this invoice for your records. Send a copy to your Local  
Emergency Planning Committee(s).**

1007116485



3.

3

12/16 UST004

KDHE Reference No: Owner ID: 06884

Facility ID: 30435

**Underground Storage Tank Compliance Verification**

*To be completed when repair or upgrade is finished.\**

Submit to: Kansas Department of Health and Environment  
Bureau of Environmental Remediation-Storage Tank Section  
1000 SW Jackson, Suite 410, Topeka, KS 66612-1367

Phone: 785-296-8061  
Fax# 785-559-4260

13582  
*[Handwritten initials]*

Facility Name: Casey's General Store #2826

Facility Address: 2100 S 4th City: Leavenworth State: KS Zip: 66048

**\*Complete only the information pertaining to the approved work on the repair or upgrade/modification application.**

<b>KDHE Tank/Line#</b>					<b>KDHE Tank/Line#</b>				
Standby Tank (yes/no)					<b>Tank Corrosion Protection</b>				<b>Test Date:</b>
<b>Tank Release Detection</b>					Repair to Existing Cath. Protection?	Yes:		No:	
Interstitial Monitor DW					Sacrificial Anodes				
Statistical Inventory Recon.					Impressed Current				
Tightness Testing					No. of Anodes Replaced				
Manual Tank Gauging					No. of Anodes Added				
Automatic Tank Gauging					Repair to Rectifier				
Other:					Repair to CP wiring				
<b>Dispenser</b>	<b>Number:</b>		<b>Manf:</b>		Interior Lining				
Pressure				X	Interior Lining Installation/Inspection Date:				
Safe Suction					Other:				
Conventional Suction					<b>Line Corrosion Protection</b>				<b>Test Date:</b>
<b>Piping Release Detection</b>					Repair to Existing Cath. Protection?	Yes:		No:	
Statistical Inventory Recon.					Sacrificial Anodes				
Tightness Testing					Impressed Current				
Interstitial Monitor (sump)					No. of Anodes Replaced				
Automatic Line Monitor				X	No. of Anodes Added				
Other:					Repair to Rectifier				
<b>Pressure Line Rel. Det.</b>					Repair to CP wiring				<b>Test Date:</b>
Mechanical Leak Detector					Other:				
Continuous Alarm w/shutoff					<b>Flex Connectors:</b>				
Automatic Line Monitor				X	Tank (STP)				
Positive Shutoff					Line (Dispenser)				
STP Sump Sensor					Sacrificial Anodes				
Dispenser Sump Sensor					Wrapped				
Other:					Booted				
<b>Pump and Dispenser Containment</b>					Isolated from Soil				
Submersible Pump Pan					Impressed Current				
Dispenser Pan					<b>Line Repair</b>				<b>Test Date:</b>
Transition Sump					Fiberglass				
<b>Submersible Pump</b>					Flexible Nonmetallic				
STP(Submersible Pump)					Double Wall				
Other:					Line Manufacturer:				
<b>Spill Prevention</b>					Length Installed (Feet)				
Spill Buckets					Other:				
<b>Overfill Prevention</b>					<b>District Inspection</b>				
Overfill Shutoff Device					Contacted District Office	Yes:		No:	
Overfill Shutoff with Drop Tube					Inspection Date:				
Audible Overfill Alarm					Fix Inspection Deficiencies				
Ball Float Valve					Drop Tubes				

Oath: I certify that the information above concerning compliance with technical standards is true to the best of my belief and know ledge.

KDHE Licensed Installer Signature: *[Handwritten Signature]*

IO# 975-1 Date: 3-14-2018

*[Handwritten Signature]* 4/10/18

BOB COANNIL

APR 11 2018

RA 4/11/18

*[Handwritten initials]*

# STATE OF KANSAS

DEPARTMENT OF HEALTH AND ENVIRONMENT  
CURTIS STATE OFFICE BUILDING  
1000 SW JACKSON ST., SUITE 540  
TOPEKA, KS 66612-1368



PHONE: (785) 296-1500  
FAX: (785) 559-4269  
WWW.KDHEKS.GOV

GOVERNOR JEFF COLYER, M.D.  
JEFF ANDERSEN, SECRETARY

April 10, 2018

Mr. Ed Haselwood I0975  
Haselwood Inc  
504 Applewood Drive.  
Manhattan KS 66503

**Re: Approved UST Repair Notification (UST009) Form: Casey's General Store #2826,  
2100 S 4th, Leavenworth, KS 66048 (Fac. ID #30435)**

Dear Mr. Haselwood:

I have reviewed and approved the "UST Repair Notification (UST009)" form for the underground storage tanks at the above referenced facility. The Notification reports work to replace the syphon jet on U003.

K.A.R. 28-44-15 (b) (1) authorizes Licensed UST Contractors to make repair applications by telephone if the repair is essential to protect public health and the environment. In addition to using the telephone, Contractors may make contact with KDHE by fax or email when a repair is deemed necessary. Should repairs be made during non-work hours or on the weekend, the Contractor must make contact with KDHE on the first workday following that repair. After notifying KDHE of the repair, Contractors may submit the Repair Notification (UST009) forms up to 30 days following the completion of the work.

Please complete and return the following forms, failure to do so is a violation of K.A.R. 28-44-15:

- "Underground Storage Tank Compliance Verification (UST004)" form to be filed after the work is completed.  
(Received 4/2/18)

KDHE has received the required forms and considers the application closed. Finally, if you have not already done so, arrange for a facility inspection with the nearest KDHE District Office. Thank you for your continued cooperation

Sincerely,

Matthew T. Kuffel  
Environmental Associate  
KDHE-BER-Storage Tank Section

MTK: RA  
PC: (owner/operator), KDHE-NEDO, file

### UST Repair Notification

(Petroleum Products and Hazardous Substances)

Submit to: **Kansas Department of Health and Environment**  
**Bureau of Environmental Remediation**  
**Storage Tank Section**  
**1000 SW Jackson, Suite 410**  
**Topeka KS 66612-1367**  
**Phone: 785 296-8061** **Fax: 785 559-4260**

KDHE USE ONLY: 13582

State of Kansas - Division of Environment  
**APPROVED**  
When constructed to conform with Art. 44  
Date: 4/10/18  
By: [Signature] NE

If any work involves upgrading or modifying the system, use the UST Upgrade/Modification Application. Use THIS form only if work replaces parts in kind, or if a cathodic protection system is being repaired.

Please Print Clearly or Type  
**I. Facility Information**

A. Facility Name: Casey's General Store # 2826  
B. Facility Address: 2100 S 4<sup>th</sup> Leavenworth KS 66048  
(street) (city) (state) (zip)

**II. Tank Owner Information**

A. Owner Name: Casey's Retail Company  
B. Owner Address: PO Box 3001 One Convenience Blvd Arkney IA 50021  
(street) (city) (state) (zip)  
C. Contact Person: Jill Reams-Widdler Phone: ( ) -

**III. Contractor Information**

A. Contractor Name: Haselwood Inc License No. & Exp. Date: CO 578 2-1-2019  
B. Contractor Address: 504 Applewood Dr Manhattan, KS 66503  
(street) (city) (state) (zip)  
C. Contact Person: Ed Haselwood Phone: (785) 630-0299  
Email ed@haselwood-inc.com Fax: ( ) - N/A

**IV. KDHE Tank or Line Nos. to be repaired:** 003

A. Describe the repairs to be done. Attach manufacturer's repair instructions, if applicable:  
Replace siphon jet in Diesel STP, retest

B. Describe reason for repairs: Failed initial LD op test, due to air in line

C. Are tanks to be taken out of service because of this proposed repair? Yes \_\_\_ No X

D. Have tank or line failures lead to this proposed repair? Yes \_\_\_ No X  
If yes, to whom was the leak reported? \_\_\_\_\_

E. If failures have occurred, please briefly describe the incident: \_\_\_\_\_

F. Is this facility in the State Trust Fund for environmental cleanup? \_\_\_ Yes \_\_\_ No

**V. System Test:**

A. A tightness test must be performed within thirty (30) days if repairs were done to portions of the UST system that routinely contain fuel. Only that portion of the system repaired must be tested. A printout from an automated monthly monitoring device may be substituted for a tightness test. Test method used: \_\_\_\_\_

B. If the cathodic protection system has been repaired, a system test must be performed within six months of repair. Impressed current cathodic protection systems must also be inspected within sixty (60) days of repair.

**VI. Applicant's Certification:**

I certify that the information above is true to the best of my knowledge and that all equipment will be repaired in compliance with the manufacturers' repair instructions if applicable. The repair will be performed in compliance with all federal, state, and local regulations.

[Signature]  
Contractor's Signature (Date) 3-14-18

APR 2 2018

RECEIVED

March 21, 2018

KDHE District NE

Owner ID: 06884

CASEY'S RETAIL COMPANY

PO BOX 3004, ONE CONVENIENCE BLVD

ANKENY, IA 50021

Re: Facility 30435

CASEY'S GENERAL STORE - #2826

2100 S. 4TH STREET

LEAVENWORTH, KS 66048

TANKS: 001,002,003

Attention Underground Storage Tank Owner:

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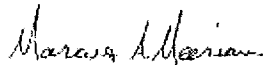
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**KDHE has not received the latest results of your most current ALM , LLD, or MLD function test (s) for tank number(s): 001, 002, 003. Federal and KDHE regulations require the ALM , LLD, or MLD be tested annually.**

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Sincerely,



Marcus Meerian

Environmental Program Administrator I

Storage Tank Section

**Kansas Department of Health and Environment  
2017 UST Annual Registration Renewal Invoice and Emergency Planning and Community Right To Know  
Act Special UST Tier II Form.**

**REVIEW THIS FORM, COMPLETE THE SIGNATURE BLOCK, AND RETURN THIS FORM WITH YOUR PAYMENT BEFORE APRIL 30, 2017.**

Kansas Department of Health and Environment (KDHE) records indicate that you have 3 active tank (s) registered at the Facility listed below. A total of **\*\* \$30.00\*\*** must be submitted to KDHE at the address below with this **RENEWAL INVOICE**.

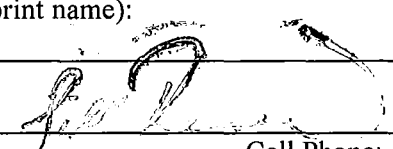
<b>Owner</b>	<b>Facility</b>
Owner ID: 06884 CASEY'S RETAIL COMPANY PO BOX 3004, ONE CONVENIENCE BLVD ANKENY, IA 50021	Facility ID: 30435 CASEY'S GENERAL STORE - #2826 2100 S. 4TH STREET LEAVENWORTH, KS 66048

**RECEIVED**  
**MAR 30 2017**  
BUREAU OF ENVIRONMENTAL REMEDIATION

Tank Number	U001	U002	U003	
Status of Tank	In Use	In Use	In Use	
Exempt?	No	No	No	
Year Installed	2009	2009	2009	
Capacity (Gallons)	20,000	12,000	8,000	
Product Stored	Gas Unleaded Regular	Gas Unleaded Premium	Diesel Clear	
CAS Number	8006-61-9	8006-61-9	68476-34-6	
Physical/Health Hazards*	F,C,A	F,C,A	F,C,A	
Tank Release Detection	IMDW, ATG	IMDW, ATG	IMDW, ATG	
Model / Service	Veeder Root TLS-350	Veeder Root TLS-350	Veeder Root TLS-350	
Dispenser Type	Pressure	Pressure	Pressure	
Shutoff/Alarm/FR/ALM	ALM	ALM	ALM	
Line Release Detection	IM, ALM	IM, ALM	IM, ALM	
Model / Service	Veeder Root TLS-350	Veeder Root TLS-350	Veeder Root TLS-350	
Financial Responsibility	SI 08/30/2017	SI 08/30/2017	SI 08/30/2017	

(1) Average Daily Amount assumed to be 1/2 of the Total Capacity unless otherwise stated.  
 (2) Assume storage of liquid substances is 365 days at the listed facility unless otherwise indicated.  
 (3) Please cross out any USTs removed from your facility. Check to see if your licensed remover has submitted a **Underground Storage Tank Permanent Abandonment (UST008) form to KDHE.**  
 \* Review what is listed, Fire (F), Chronic (C), Acute (A) to describe the tank contents. (This information is found on your MSDS sheets.)

If any of the above information is not correct, *such as the Owner's Mailing address* or any information related to the storage tanks system, provide a written description of any needed changes on this invoice and submit it with your payment. If an incorrect owner mailing address is listed and corrections are not made, your permit(s) may be delayed. **FAILURE TO COMPLETE THIS INVOICE AND SUBMIT IT WITH THE APPROPRIATE FEES PRIOR TO APRIL 30, 2017 WILL PREVENT YOU FROM OBTAINING THE REQUIRED PERMITS BEFORE JULY 31, 2017.**

<b>Certification of Accuracy</b>	
Owner Contact Person (print name): <b>JILL REAMS-WIDDER</b>	Facility Phone: <b>913-651-1303</b>
Owner Signature: 	Date:
24-Hour Contact Name: <b>JILL-REAMS-WIDDER</b>	24-Hour Phone: <b>515-965-6238</b>

Submit to: <b>Kansas Department of Health and Environment Bureau of Environmental Remediation Storage Tank Section 1000 SW Jackson, Suite 410 Topeka, KS, 66612-1367</b>	Please direct questions concerning the underground storage tank program to 1-877-221-0325. <a href="http://www.kdheks.gov/tanks/index.html">http://www.kdheks.gov/tanks/index.html</a>  Please direct questions concerning the Right-to-Know program to (785) 296-1688. Listings of LEPCs at <a href="http://www.accesskansas.org/kdem/contact_us/cocoordinator_lepelisting.shtml">http://www.accesskansas.org/kdem/contact_us/cocoordinator_lepelisting.shtml</a>
---	--

**Please retain a copy of this invoice for your records. Send a copy to your Local Emergency Planning Committee(s).**

1007111348

# KANSAS DEPARTMENT OF HEALTH & ENVIRONMENT INSPECTION CHECKLIST

RECEIVED  
MAY 12 2017  
BUREAU OF ENVIRONMENTAL REMEDIATION

Ownership of Tank(s)		Location of Tank(s)	
Owner ID: 06884		Facility ID: 30435	
Owner Name: Casey's Retail Company		Facility Name: Casey's General Store -#2826	
Address: PO Box 3004, One Convenience Blvd		Address: 2100 S, 4th Street	
City: Ankeny IA	Zip: 50021	City: Leavenworth	Zip: 66048
Contact Person: Jill Reams-Widder	Ph: 515-965-6100	Contact Person: same	Ph:

4-16-15

KDHE Tank/Line No.	U001	U002	U003			KDHE Tank/Line No.	U001	U002	U003		
In Use (Y/N)	Y	Y	Y			Permitted (Y/N)	Y	Y	Y		
Temp Out (Y/N)	N	N	N			Financial Resp. Exp Date	8/30/17				
Stand-by Tank (Y/N)	N	N	N			Corrosion Protection-Tanks	CP/Lining Test Date:				
Substance Stored	UNL REG	UNL PREM	Diesel clear			Internal Lining					
Tank Release Detection	Veeder Root TLS-350 w/CSLD					Impress Current Cathodic					
Automatic Tank Gauging	✓	✓	✓			Sacrificial Anode Cathodic					
Interstitial Mon. DW Tank	✓	✓	✓			Tank Construction					
Manual Tank Gauging						Fiberglass (Single/DW)	✓	✓	✓		
Statistical Inv. Recon.						Steel Clad with Fiberglass					
Observation Tubes (Y/N)	Y	Y	Y			Steel					
Inventory Control (Y/N)	Y	Y	Y			Corrosion Protection Lines	CP Test Date:				
Drop Tubes (Y/N)	Y	Y	Y			Impress Current Cathodic					
Dispenser Type						Sacrificial Anode Cathodic					
Conventional Suction						Line Construction					
Pressure	✓	✓	✓			Copper					
Safe Suction						Fiberglass (Single/DW)					
Pressure Piping Release Detection						Flexible Non-metallic DW	✓	✓	✓		
Automatic Line Monitor	✓	✓	✓			Steel					
Interstitial Monitoring	✓	✓	✓			Flex Connectors (CP, Wrapped, Boot, Isolated)					
Statistical Inv. Recon.						Dispenser (CP,W,B,I)	I	I	I	I	I
Tightness Testing						Sub Pump (CP,W,B,I)	None observed				
Line Tightness Test Date: 6/8/09, 6/5/09						Flex Connectors CP Test Date:					



Owner ID: 06884 Facility ID: 30435

KDHE Tank/Line No.							KDHE Tank/Line No.								
U001 U002 U003							U001 U002 U003								
<b>Pressure Lines Release Detection</b>							<b>Spill Prevention</b> (W-Water,P-Product,D-Debris)								
Automatic Line Monitor	✓	✓	✓				Spill Buckets (Y/N)	Y	Y	Y					
Mechanical Leak Detector							Clean (Y/W/P/D) *	W/P	W/P	W/P					
Sump Sensor							Repair/Replace (Y/N)	N	N	N					
Function Check Date of MLD/ALM: <u>3/15/17</u>															
<b>Pump and Dispenser Containment</b>							<b>Overfill Protection</b>								
Containment Accessed (Y/N)	Y	Y	Y	Y	Y	Y	Audible Overfill Alarm								
Dispenser (Y/N)	Y	Y	Y	Y	Y	Y	Auto Shut Off Device								
Sump Pump (Y/N)	Y	Y	Y				Ball Float Valve	✓	✓	✓					
<b>Rectifier</b>							<b>Operator Training</b>								
Operational (Y/N)							Class A/B	Jim Gross							
Readings Recorded (Y/N)	30-Day			60-Day				002463							
Volts	Amps		Hours				Class C Trained (Y/N)	Y Amanda Powell							

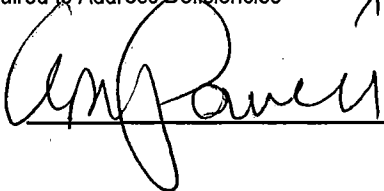
Comments:


\* Fluid in spill buckets (mostly water) should be removed.

Passing 0.2 gal/hr tank leak checks 4/18/17

Permit displayed

Required to Address Deficiencies  Yes  No  Date Inspected: 4/18/17

Signature: 



11/12 UST004

KDHE Reference No: Owner ID: 06884

Facility ID: 30435

**Underground Storage Tank Compliance Verification**

*To be completed when repair or upgrade is finished.\**

Submit to: Kansas Department of Health and Environment  
Bureau of Environmental Remediation-Storage Tank Section  
1000 SW Jackson, Suite 410, Topeka, KS 66612-1367

Phone: 785-296-8061  
Fax# 785-296-6190

Facility Name: Casey's 2826

Facility Address: 2100 S 4th City: Leavenworth State: KS Zip: 66048

**\*Complete only the information pertaining to the approved work on the repair or upgrade/modification application.**

<b>KDHE Tank/Line#</b>				<u>003</u>				<b>KDHE Tank/Line#</b>						
Standby Tank (yes/no)								<b>Tank Corrosion Protection</b>					<b>Test Date:</b>	
<b>Tank Release Detection</b>								Repair to Existing Cath. Protection?	Yes:		No:			
Interstitial Monitor DW								Sacrificial Anodes						
Statistical Inventory Recon.								Impressed Current						
Tightness Testing								No. of Anodes Replaced						
Manual Tank Gauging								No. of Anodes Added						
Automatic Tank Gauging								Repair to Rectifier						
Other:								Repair to CP wiring						
<b>Dispenser Type</b>								Interior Lining						
Pressure								Interior Lining Installation/Inspection Date:						
Safe Suction								Other:						
Conventional Suction								<b>Line Corrosion Protection</b>					<b>Test Date:</b>	
<b>Piping Release Detection</b>								Repair to Existing Cath. Protection?	Yes:		No:			
Statistical Inventory Recon.								Sacrificial Anodes						
Tightness Testing								Impressed Current						
Interstitial Monitor (sump)								No. of Anodes Replaced						
Automatic Line Monitor								No. of Anodes Added						
Other:								Repair to Rectifier						
<b>Pressure Line Rel. Det.</b>								Repair to CP wiring						
Test Date:								Other:						
Mechanical Leak Detector								<b>Flex Connectors:</b>						
Continuous Alarm w/shutoff								Tank (STP)						
Automatic Line Monitor								Line (Dispenser)						
Positive Shutoff								Sacrificial Anodes						
STP Sump Sensor								Wrapped						
Dispenser Sump Sensor								Booted						
Other:								Isolated from Soil						
<b>Pump and Dispenser Containment</b>								Impressed Current						
Submersible Pump Pan								<b>Line Repair</b>					<b>Test Date:</b>	
Dispenser Pan								Fiberglass						
Transition Sump								Flexible Nonmetallic						
<b>Submersible Pump</b>								Double Wall						
STP(Submersible Pump)								Line Manufacturer:						
Other:								Length Installed (Feet)						
<b>Spill Prevention</b>								Other:						
Model #:								<b>District Inspection</b>						
Spill Buckets								Contacted District Office	Yes:		No:			
<b>Overfill Prevention</b>								Inspection Date:						
Model #:								Fix Inspection Deficiencies						
Overfill Shutoff Device								<b>Drop Tubes</b>						
Overfill Shutoff with Drop Tube														
Audible Overfill Alarm														
Ball Float Valve														

Oath: I certify that the information above concerning compliance with technical standards is true to the best of my belief and knowledge.

KDHE Licensed Installer Signature: [Signature] IO# 9751 Date: 3-10-16

[Signature] 4/7/17

PDF SCANNED

APR 18 2017

BA 4/18/17

4/13/17

Susan Mosier, MD, Secretary

Department of Health & Environment

Sam Brownback, Governor

April 7, 2017

Mr. Ed Haselwood, I0975  
Haselwood Inc.  
504 Applewood Dr.  
Manhattan KS, 66503

**Re: Approved UST Repair Notification (UST009) Form: Casey's General Store  
#2826, 2100 S. 4<sup>th</sup> St, Leavenworth, KS 66048 (Fac. ID #30435)**

Dear Mr. Haselwood:

I have reviewed and approved the "UST Repair Notification (UST009)" form for the underground storage tanks at the above referenced facility. The Notification reports work to replace the syphon jet on tank U003 and purge air from line.

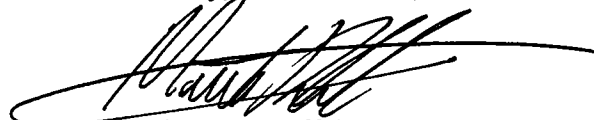
K.A.R. 28-44-15 (b) (1) authorizes Licensed UST Contractors to make repair applications by telephone if the repair is essential to protect public health and the environment. In addition to using the telephone, Contractors may make contact with KDHE by fax or email when a repair is deemed necessary. Should repairs be made during non-work hours or on the weekend, the Contractor must make contact with KDHE on the first workday following that repair. After notifying KDHE of the repair, Contractors may submit the Repair Notification (UST009) forms up to 30 days following the completion of the work.

Please find enclosed an:

- "Underground Storage Tank Compliance Verification (UST004)" form to be filed after the work is completed. (Received March 18, 2016)
- "'Underground Storage Tank System Tightness Test (UST011)" (Waived 4/7/16, good test date on file)

KDHE has received the required forms and considers the application closed. Finally, if you have not already done so, arrange for a facility inspection with the nearest KDHE District Office. Thank you for your continued cooperation

Sincerely,



Matthew T. Kuffel  
Environmental Associate  
KDHE-BER-Storage Tank Section

MTK: RA

PC: (owner/operator), KDHE-NEDO, file

**UST Repair Notification**  
(Petroleum Products and Hazardous Substances)

13020

Submit to: **Kansas Department of Health and Environment,  
Bureau of Environmental Remediation  
Storage Tank Section  
1000 SW Jackson, Suite 410  
Topeka KS 66612-1367  
Phone: 785 296-8061**

Fax: 785 296-6190

KDHE USE ONLY:

State of Kansas - Division of Environment  
**APPROVED**  
When constructed to conform with Art. 44  
Date: 4/9/16  
By: [Signature]

NE

If any work involves upgrading or modifying the system, use the **UST Upgrade/Modification Application**. Use THIS form only if work replaces parts in kind, or if a cathodic protection system is being repaired (adding/replacing anodes, re-laying cable, replacing rectifier with same.)  
Please Print Clearly or Type

**I. Facility Information**

A. Facility Name: Casey's General Store #2826  
B. Facility Address: 2100 S 4<sup>th</sup> Leavenworth KS 66048  
(street) (city) (state) (zip)

**II. Tank Owner Information**

A. Owner Name: Casey's Retail Company  
B. Owner Address: PO Box 3001 One Convenience Blvd, Ankeny, IA 50021  
(street) (city) (state) (zip)  
C. Contact Person: \_\_\_\_\_ Phone: (\_\_\_\_) \_\_\_\_ - \_\_\_\_\_

**III. Contractor Information**

A. Contractor Name: Haselwood Inc License No. & Exp. Date.: C0578 2-1-201  
B. Contractor Address: 504 Applewood Drive Manhattan KS 66503  
(street) (city) (state) (zip)  
C. Contact Person: Ed Haselwood Phone: (785) 630-0299  
Email ed@haselwood-inc.com Fax: (\_\_\_\_) \_\_\_\_ - \_\_\_\_\_

**IV. KDHE Tank or Line Nos. to be repaired: 003**

A. Describe the repairs to be done. Attach manufacturer's repair instructions, if applicable: \_\_\_\_\_  
Replaced siphon jet in Diesel STP, purged air from line, did 2nd LD op test  
B. Describe reason for repairs: Failed initial LD op test

C. Are tanks to be taken out of service because of this proposed repair? Yes \_\_\_ No   
D. Have tank or line failures lead to this proposed repair? Yes \_\_\_ No   
If yes, to whom was the leak reported? \_\_\_\_\_  
E. If failures have occurred, please briefly describe the incident: \_\_\_\_\_  
F. Is this facility in the State Trust Fund for environmental cleanup? \_\_\_ Yes \_\_\_ No

**V. System Test:**

A. A tightness test must be performed within thirty (30) days if repairs were done to portions of the UST system that routinely contain fuel. Only that portion of the system repaired must be tested. A printout from an automated monthly monitoring device may be substituted for a tightness test. Test method used: \_\_\_\_\_  
B. If the cathodic protection system has been repaired, a system test must be performed within six months of repair. Impressed current cathodic protection systems must also be inspected within sixty (60) days of repair.

**VI. Applicant's Certification:**

I certify that the information above is true to the best of my knowledge and that all equipment will be repaired in compliance with the manufacturers' repair instructions if applicable. The repair will be performed in compliance with all federal, state, and local regulations.

[Signature]  
KDHE Licensed Installer's Signature IO# 975 1

3-10-2016  
(Date)

**Kansas Department of Health and Environment**  
**2016 UST Annual Registration Renewal Invoice and Emergency Planning and Community Right To Know Act Special UST Tier II Form.**

**REVIEW THIS FORM, COMPLETE THE SIGNATURE BLOCK, AND RETURN THIS FORM WITH YOUR PAYMENT BEFORE APRIL 30, 2016.**

Kansas Department of Health and Environment (KDHE) records indicate that you have 3 active tank (s) registered at the Facility listed below. A total of **\$30.00** must be submitted to KDHE at the address below with this **Renewal Invoice**.

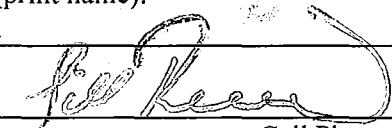
<b>Owner</b>	<b>Facility</b>
Owner ID: 06884 CASEY'S RETAIL COMPANY PO BOX 3004, ONE CONVENIENCE BLVD ANKENY, IA 50021	Facility ID: 30435 CASEY'S GENERAL STORE - #2826 2100 S. 4TH STREET LEAVENWORTH, KS 66048

**RECEIVED**  
**MAR 28 2016**  
 BUREAU OF ENVIRONMENTAL REMEDIATION

Tank Number	U001	U002	U003		
Status of Tank	In Use	In Use	In Use		
Exempt?	No	No	No		
Year Installed	2009	2009	2009		
Capacity (Gallons)	20,000	12,000	8,000		
Product Stored	Gas Unleaded Regular	Gas Unleaded Premium	Diesel Clear		
CAS Number	8006-61-9	8006-61-9	68476-34-6		
Physical/Health Hazards*	F,C,A	F,C,A	F,C,A		
Tank Release Detection	IMDW, ATG	IMDW, ATG	IMDW, ATG		
Model / Service	Veeder Root TLS-350	Veeder Root TLS-350	Veeder Root TLS-350		
Dispenser Type	Pressure	Pressure	Pressure		
Shutoff/Alarm/FR/ALM	ALM	ALM	ALM		
Line Release Detection	IM, ALM	IM, ALM	IM, ALM		
Model / Service	Veeder Root TLS-350	Veeder Root TLS-350	Veeder Root TLS-350		
Financial Responsibility	SI 08/30/2016	SI 08/30/2016	SI 08/30/2016		

(1) Average Daily Amount assumed to be 1/2 of the Total Capacity unless otherwise stated.  
 (2) Assume storage of liquid substances is 365 days at the listed facility unless otherwise indicated.  
 (3) **Please cross out any USTs removed from your facility. Check to see if your licensed remover has submitted a Underground Storage Tank Permanent Abandonment (UST008) form to KDHE.**  
 \* Review what is listed, Fire (F), Chronic (C), Acute (A) to describe the tank contents. (This information is found on your MSDS sheets.)

If any of the above information is not correct, *such as the Owner's Mailing address* or any information related to the storage tanks system, provide a **written description of any needed changes on this invoice** and submit it with your payment. If an incorrect owner mailing address is listed and corrections are not made, your permit(s) may be delayed. Failure to complete this invoice and submit it with the appropriate fees prior to April 30, 2016 will prevent you from obtaining the required Permits before July 31, 2016.

<b>Certification of Accuracy</b>	
Owner Contact Person (print name): <b>JILL REAMS-WIDDER</b>	Facility Phone: <del>515-965-6238</del> 913-651-1303
Owner Signature: 	Date: 3/24/2016
24-Hour Contact Name: <b>JILL-REAMS-WIDDER</b>	Cell Phone: 24-Hour Phone: <b>515-965-6238</b>

Submit to: <b>Kansas Department of Health and Environment</b> <b>Bureau of Environmental Remediation</b> <b>Storage Tank Section</b> <b>1000 SW Jackson, Suite 410</b> <b>Topeka, KS, 66612-1367</b>	Please direct questions concerning the underground storage tank program to 1-877-221-0325. <a href="http://www.kdheks.gov/tanks/index.html">http://www.kdheks.gov/tanks/index.html</a>  Please direct questions concerning the Right-to-Know program to (785) 296-1688. Listings of LEPCs at <a href="http://www.accesskansas.org/kdem/contact_us/cocoordinator_lepelistin_g.shtml">http://www.accesskansas.org/kdem/contact_us/cocoordinator_lepelistin_g.shtml</a>
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**Please retain a copy of this invoice for your records. Send a copy to your Local Emergency Planning Committee(s).**

1007105463

4

11/12 UST004

KDHE Reference No: Owner ID: 06884

Facility ID: 30435

**Underground Storage Tank Compliance Verification**

*To be completed when repair or upgrade is finished.\**

Submit to: Kansas Department of Health and Environment  
Bureau of Environmental Remediation-Storage Tank Section  
1000 SW Jackson, Suite 410, Topeka, KS 66612-1367

Phone: 785-296-8061  
Fax# 785-296-6190

12268  
2/16

Facility Name: Casey's General Store #2826

Facility Address: 2100 S 9<sup>th</sup> City: Leavenworth State: KS Zip: 66048

\*Complete only the information pertaining to the approved work on the repair or upgrade/modification application.

KDHE Tank/Line#			003		KDHE Tank/Line#				
Standby Tank (yes/no)					Tank Corrosion Protection			Test Date:	
Tank Release Detection					Repair to Existing Cath. Protection?	Yes:		No:	
Test Date:					Sacrificial Anodes				
Interstitial Monitor DW					Impressed Current				
Statistical Inventory Recon.					No. of Anodes Replaced				
Tightness Testing					No. of Anodes Added				
Manual Tank Gauging					Repair to Rectifier				
Automatic Tank Gauging					Repair to CP wiring				
Other:					Interior Lining				
Dispenser Type					Interior Lining Installation/Inspection Date:				
Pressure				✓	Other:				
Safe Suction					Line Corrosion Protection			Test Date:	
Conventional Suction					Repair to Existing Cath. Protection?	Yes:		No:	
Piping Release Detection					Sacrificial Anodes				
Test Date:					Impressed Current				
Statistical Inventory Recon.					No. of Anodes Replaced				
Tightness Testing					No. of Anodes Added				
Interstitial Monitor (sump)					Repair to Rectifier				
Automatic Line Monitor				✓	Repair to CP wiring				
Other:					Other:				
Pressure Line Rel. Det.					Flex Connectors:				
Test Date:					Tank (STP)				
Mechanical Leak Detector					Line (Dispenser)				
Continuous Alarm w/shutoff					Sacrificial Anodes				
Automatic Line Monitor				✓	Wrapped				
Positive Shutoff					Booted				
STP Sump Sensor					Isolated from Soil				
Dispenser Sump Sensor					Impressed Current				
Other:					Line Repair			Test Date:	
Pump and Dispenser Containment					Fiberglass				
Submersible Pump Pan					Flexible Nonmetallic				
Dispenser Pan					Double Wall				
Transition Sump					Line Manufacturer:				
Submersible Pump					Length Installed (Feet)				
STP(Submersible Pump)					Other:				
Other:					District Inspection				
Spill Prevention					Contacted District Office	Yes:		No:	
Model #:					Inspection Date:				
Spill Buckets					Fix Inspection Deficiencies				
Overfill Prevention					Drop Tubes				
Model #:									
Overfill Shutoff Device									
Overfill Shutoff with Drop Tube									
Audible Overfill Alarm									
Ball Float Valve									

Replaced siphon jet in Diesel STP

Oath: I certify that the information above concerning compliance with technical standards is true to the best of my belief and knowledge.

KDHE Licensed Installer Signature: Ed [Signature]

IO# 975 / BUREAU OF 3-17-2015

CLE 2-3-2016

ENVIRONMENTAL REMEDIATION

BETR SCANNED

MAR 24 2015

FEB 10 2016

RECEIVED

RR 2/10/16

2/16/16





February 3, 2016

Mr. Ed Haselwood, I0975  
Haselwood Inc.  
100 Dexter St  
Clay Center, KS 67432

**Re: Approved UST Repair Notification (UST009) Form: Casey's General Store #2826,  
2100 S. 4<sup>th</sup> Street, Leavenworth, KS 66048 (Fac. ID #30435)**

Dear Mr. Haselwood:

I have reviewed and approved the "UST Repair Notification (UST009)" form for the underground storage tanks at the above referenced facility. The Notification reports work to replace the syphon jet on the STP for Tank U003.

K.A.R. 28-44-15 (b) (1) authorizes Licensed UST Contractors to make repair applications by telephone if the repair is essential to protect public health and the environment. In addition to using the telephone, Contractors may make contact with KDHE by fax or email when a repair is deemed necessary. Should repairs be made during non-work hours or on the weekend, the Contractor must make contact with KDHE on the first workday following that repair. After notifying KDHE of the repair, Contractors may submit the Repair Notification (UST009) forms up to 30 days following the completion of the work.

Please find enclosed an:

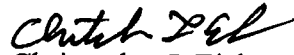
- "Underground Storage Tank Compliance Verification (UST004)" form to be filed after the work is completed. **(Received on 3/24/2015)**

KDHE understands that the work is completed to the state standards; the Underground Storage Tank Compliance Verification (UST004) has been received for this job. **KDHE considers the notification closed and no further action is needed at this time.**

Please forward copies of all the forms to the Owner of the UST system you have repaired or upgraded as soon as the work is completed. Finally, if you have not already done so, arrange for a facility inspection with the nearest KDHE District Office. Thank you for your continued cooperation.

Mr. Ed Haselwood, I0975  
February 3, 2016  
Page 2 of 2

Sincerely,



Christopher L Eichman  
Environmental Associate  
KDHE-BER-Storage Tank Section

CLE: RA

PC: (owner/operator), KDHE-NEDO, file

**UST Repair Notification**  
(Petroleum Products and Hazardous Substances)

Submit to: **Kansas Department of Health and Environment**  
**Bureau of Environmental Remediation**  
**Storage Tank Section**  
**1000 SW Jackson, Suite 410**  
**Topeka KS 66612-1367**  
**Phone: 785 296-8061** **Fax: 785 296-6190**

KDHE USE ONLY: 12268

State of Kansas - Division of Environment  
**APPROVED**  
When constructed to conform with Art. 44  
Date: 2-3-2016  
By: Christopher L. Eichner

NE

If any work involves upgrading or modifying the system, use the UST Upgrade/Modification Application. Use THIS form only if work replaces parts in kind, or if a cathodic protection system is being repaired (adding/replacing anodes, re-laying cable, replacing rectifier with same.)  
Please Print Clearly or Type

**I. Facility Information**

A. Facility Name: Casey's General Store # 2826  
B. Facility Address: 2106 S 4<sup>th</sup> Leavenworth KS 66048  
(street) (city) (state) (zip)

**II. Tank Owner Information**

A. Owner Name: Casey's Retail Company  
B. Owner Address: PO Box 301, One Convenience Blvd, Ankeny, IA 50021  
(street) (city) (state) (zip)  
C. Contact Person: Jill Reams-Widder Phone: (515) 965-6100 ext 6238

**III. Contractor Information**

A. Contractor Name: Haselwood Inc License No. & Exp. Date.: CO578 2-1-2016  
B. Contractor Address: 100 Dexter St Clay Center KS 67432  
(street) (city) (state) (zip)  
C. Contact Person: Ed Haselwood Phone: (785) 630-0299  
Email ed@haselwood-inc.com Fax: ( ) - -

**IV. KDHE Tank or Line Nos. to be repaired:** 003

A. Describe the repairs to be done. Attach manufacturer's repair instructions, if applicable:  
Replaced syphon jet on Diesel STP, purged line & retested

B. Describe reason for repairs: failed initial CD op test

C. Are tanks to be taken out of service because of this proposed repair? Yes \_\_\_ No

D. Have tank or line failures lead to this proposed repair? Yes \_\_\_ No \_\_\_  
If yes, to whom was the leak reported? \_\_\_\_\_

E. If failures have occurred, please briefly describe the incident: \_\_\_\_\_

F. Is this facility in the State Trust Fund for environmental cleanup? \_\_\_ Yes \_\_\_ No

**V. System Test:**

A. A tightness test must be performed within thirty (30) days if repairs were done to portions of the UST system that routinely contain fuel. Only that portion of the system repaired must be tested. A printout from an automated monthly monitoring device may be substituted for a tightness test. Test method used: \_\_\_\_\_

B. If the cathodic protection system has been repaired, a system test must be performed within six months of repair. Impressed current cathodic protection systems must also be inspected within sixty (60) days of repair.

**VI. Applicant's Certification:**

I certify that the information above is true to the best of my knowledge and that all equipment will be repaired in compliance with the manufacturers' repair instructions if applicable. The repair will be performed in compliance with all federal, state, and local regulations.

Ed Haselwood 9751  
KDHE Licensed Installer's Signature IO#

3-17-2015  
Date ENVIRONMENTAL REMEDIATION

MAR 24 2015

RECEIVED

**Kansas Department of Health and Environment**

**2015 UST Annual Registration Renewal Invoice and Emergency Planning and Community Right To Know Act Special UST Tier II Form.**

**REVIEW THIS FORM, COMPLETE THE SIGNATURE BLOCK, AND RETURN THIS FORM WITH YOUR PAYMENT BEFORE APRIL 30, 2015.**

Kansas Department of Health and Environment (KDHE) records indicate that you have 3 active tank (s) registered at the Facility listed below. A total of **\$30.00** must be submitted to KDHE at the address below with this **Renewal Invoice**.

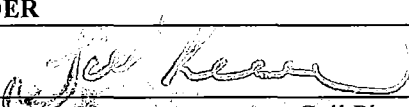
<b>Owner</b>	<b>Facility</b>
Owner ID: 06884 CASEY'S RETAIL COMPANY PO BOX 3004, ONE CONVENIENCE BLVD ANKENY, IA 50021	Facility ID: 30435 CASEY'S GENERAL STORE - #2826 2100 S. 4TH STREET LEAVENWORTH, KS 66048

**RECEIVED**  
**MAR 30 2015**  
BUREAU OF ENVIRONMENTAL REMEDIATION

Tank Number	U001	U002	U003		
Status of Tank	In Use	In Use	In Use		
Exempt?	No	No	No		
Year Installed	2009	2009	2009		
Capacity (Gallons)	20,000	12,000	8,000		
Product Stored	Gas Unleaded Regular	Gas Unleaded Premium	Diesel Clear		
CAS Number	8006-61-9	8006-61-9	68476-34-6		
Physical/Health Hazards*	F,C,A	F,C,A	F,C,A		
Tank Release Detection	IMDW, ATG	IMDW, ATG	IMDW, ATG		
Model / Service	Veeder Root TLS-350	Veeder Root TLS-350	Veeder Root TLS-350		
Dispenser Type	Pressure	Pressure	Pressure		
Shutoff/Alarm/FR/ALM	ALM	ALM	ALM		
Line Release Detection	IM, ALM	IM, ALM	IM, ALM		
Model / Service	Veeder Root TLS-350	Veeder Root TLS-350	Veeder Root TLS-350		
Financial Responsibility	SI 08/30/2015	SI 08/30/2015	SI 08/30/2015		

(1) Average Daily Amount assumed to be 1/2 of the Total Capacity unless otherwise stated.  
 (2) Assume storage of liquid substances is 365 days at the listed facility unless otherwise indicated.  
 (3) **Please cross out any USTs removed from your facility. Check to see if your licensed remover has submitted a Underground Storage Tank Permanent Abandonment (UST008) form to KDHE.**  
 \* Review what is listed, Fire (F), Chronic (C), Acute (A) to describe the tank contents. (This information is found on your MSDS sheets.)

If any of the above information is not correct, *such as the Owner's Mailing address* or any information related to the storage tanks system, **provide a written description of any needed changes on this invoice** and submit it with your payment. If an incorrect owner mailing address is listed and corrections are not made, your permit(s) may be delayed. Failure to complete this invoice and submit it with the appropriate fees prior to April 30, 2015 will prevent you from obtaining the required Permits before July 31, 2015.

<b>Certification of Accuracy</b>	
Owner Contact Person (print name): <b>JILL REAMS-WIDDER</b>	Facility Phone: <b>515-965-6238</b>
Owner Signature: 	Date:
24-Hour Contact Name: <b>JILL-REAMS-WIDDER</b>	Cell Phone: <b>515-965-6238</b>

Submit to: <b>Kansas Department of Health and Environment Bureau of Environmental Remediation Storage Tank Section 1000 SW Jackson, Suite 410 Topeka, KS, 66612-1367</b>	Please direct questions concerning the underground storage tank program to 1-877-221-0325. <a href="http://www.kdheks.gov/tanks/index.html">http://www.kdheks.gov/tanks/index.html</a>  Please direct questions concerning the Right-to-Know program to (785) 296-1688. Listings of LEPCs at <a href="http://www.accesskansas.org/kdem/contact_us/cocoordinator_lepclisting.shtml">http://www.accesskansas.org/kdem/contact_us/cocoordinator_lepclisting.shtml</a>
---	--

**Please retain a copy of this invoice for your records. Send a copy to your Local Emergency Planning Committee(s).**

1007099163

RECEIVED

APR 22 2015

BUREAU OF ENVIRONMENTAL REMEDIATION

KANSAS DEPARTMENT OF HEALTH & ENVIRONMENT INSPECTION CHECKLIST					
Ownership of Tank(s)			Location of Tank(s)		
Owner ID:	06884		Facility ID:	30435	
Owner Name:	Casey's Retail Company		Facility Name:	Casey's General Store # 2826	
Address:	PO Box 3004, One Convenience Blvd.		Address:	2100 S. 4th Street	
City:	Ankeny, IA	Zip:	50021	City:	Leavenworth
Contact Person:	Jill Reams-Widder		Ph:		
Contact Person:	SAME		Ph:		

3-28-13

KDHE Tank/Line No.	001	002	003	-	-	-	KDHE Tank/Line No.	001	002	003	-	-	-
In Use (Y/N)	Y	Y	Y	~	~	~	Permitted (Y/N)	Y	Y	Y	~	~	~
Temp Out (Y/N)	N	N	N	~	~	~	Financial Resp. (Y/N)	Y	Y	Y	~	~	~
Stand-by Tank (Y/N)	N	N	N	~	~	~	Corrosion Protection-Tanks						
Substance Stored	gas	gas	die.	~	~	~	Impress Current Cathodic	-	-	-	~	~	~
Tank Release Detection							Sacrificial Anode Cathodic	-	-	-	~	~	~
Automatic Tank Gauging	X	X	X	~	~	~	Tank Construction						
Interstitial Mon. DW Tank	X	X	X	~	~	~	Date Installed	'09	'09	'09	~	~	~
Manual Tank Gauging	-	-	-	~	~	~	Fiberglass (Single/DW)	X	X	X	~	~	~
Statistical Inv. Recon.	-	-	-	~	~	~	Steel Clad with Fiberglass	-	-	-	~	~	~
② Observation Tubes (Y/N)	Y	Y	Y	~	~	~	Steel	-	-	-	~	~	~
Inventory Control (Y/N)	Y	Y	Y	~	~	~	Corrosion Protection Lines						
Drop Tubes (Y/N)	Y	Y	Y	~	~	~	Impress Current Cathodic	-	-	-	~	~	~
Dispenser Type							Sacrificial Anode Cathodic	-	-	-	~	~	~
Conventional Suction	-	-	-	~	~	~	Line Construction						
Pressure	X	X	X	~	~	~	Copper	-	-	-	~	~	~
Safe Suction	-	-	-	~	~	~	Fiberglass (Single/DW)	-	-	-	~	~	~
Pressure Piping Release Detection							Flexible Non-metallic	X	X	X	~	~	~
Automatic Line Monitor	X	X	X	~	~	~	Steel	-	-	-	~	~	~
Interstitial Monitoring	X	X	X	~	~	~	Flex Connectors (CP, Wrapped, Boot, Isolated)						
Statistical Inventory Recon	-	-	-	~	~	~	Dispenser (CP,W,B,I)	-	-	-	~	~	~
Tightness Testing	-	-	-	~	~	~	Sub Pump (CP,W,B,I)	-	-	-	~	~	~

Permit displayed ? Yes

ATG: (v-r) TKS-350 Plus 'All Functions Normal'

Owner ID: 06884 Facility ID: 30435

KDHE Tank/Line No.	001	002	003	-	-	-	KDHE Tank/Line No.	001	002	003	-	-	-
<b>Pressure Lines Release Detection</b>							<b>Spill Prevention</b> (W-Water,P-Product,D-Debris)						
Automatic Line Monitor ✓	X	X	X	✓	✓	✓	Spill Buckets (Y/N)	Y	Y	Y	✓	✓	✓
Mechanical Leak Detector	-	-	-	✓	✓	✓	Clean (Y/W/P/D)	Y	Y	Y	✓	✓	✓
Sump Sensor	-	-	-	✓	✓	✓	Repair/Replace (Y/N)	N	N	N	✓	✓	✓
<b>Pump and Dispenser Containment</b>							<b>Overfill Protection</b>						
Containment Accessed (Y/N)	Y	Y	Y	✓	✓	✓	Audible Overfill Alarm	-	-	-	✓	✓	✓
Dispenser (Y/N) (6)	Y	Y	Y	✓	✓	✓	Auto Shut Off Device	-	-	-	✓	✓	✓
Sump Pump (Y/N)	Y	Y	Y	✓	✓	✓	Ball Float Valve	X	X	X	✓	✓	✓
<b>Beetlmer</b>							<b>Operator Training</b>						
Operational (Y/N)	NA						Class A,B or A/B	None available.					
Readings Recorded (Y/N)	30-Day			60-Day			Class C Training (Y/N)	Yes (numerous)					
Volts	Amps		Hours										

Comments:

Pump vaults: sensors = OK IM probes (4001 & 4003)

Dispenser sump: sensors = OK

Required to Address Deficiencies Yes  No  Date Inspected: 4-16-2015

Signature: Matthew Little  
Owner/Operator

Michael H. Yaw  
Inspector



11/12 UST004

KDHE Reference No: Owner ID: 06884

Facility ID: 30435

**Underground Storage Tank Compliance Verification**

*To be completed when repair or upgrade is finished.\**

Submit to: Kansas Department of Health and Environment  
Bureau of Environmental Remediation-Storage Tank Section  
1000 SW Jackson, Suite 410, Topeka, KS 66612-1367

Phone: 785-296-8061  
Fax# 785-296-6190

11542  
10/14

Facility Name: Casey's 2826

Facility Address: 2100 S 4<sup>th</sup> City: Leavenworth State: KS Zip: 66048

\*Complete only the information pertaining to the approved work on the repair or upgrade/modification application.

KDHE Tank/Line#				003						KDHE Tank/Line#									
Standby Tank (yes/no)										Tank Corrosion Protection					Test Date:				
Tank Release Detection										Repair to Existing Cath. Protection?	Yes:			No:					
Interstitial Monitor DW										Sacrificial Anodes									
Statistical Inventory Recon.										Impressed Current									
Tightness Testing										No. of Anodes Replaced									
Manual Tank Gauging										No. of Anodes Added									
Automatic Tank Gauging										Repair to Rectifier									
Other:										Repair to CP wiring									
Dispenser Type										Interior Lining									
Pressure										Interior Lining Installation/Inspection Date:									
Safe Suction										Other:									
Conventional Suction										Line Corrosion Protection					Test Date:				
Piping Release Detection										Repair to Existing Cath. Protection?	Yes:			No:					
Statistical Inventory Recon.										Sacrificial Anodes									
Tightness Testing										Impressed Current									
Interstitial Monitor (sump)										No. of Anodes Replaced									
Automatic Line Monitor										No. of Anodes Added									
Other:										Repair to Rectifier									
Pressure Line Rel. Det.										Repair to CP wiring									
Mechanical Leak Detector										Other:									
Continuous Alarm w/shutoff										Flex Connectors:									
Automatic Line Monitor										Tank (STP)									
Positive Shutoff										Line (Dispenser)									
STP Sump Sensor										Sacrificial Anodes									
Dispenser Sump Sensor										Wrapped									
Other:										Booted									
Pump and Dispenser Containment										Isolated from Soil									
Submersible Pump Pan										Impressed Current									
Dispenser Pan										Line Repair					Test Date:				
Transition Sump										Fiberglass									
Submersible Pump										Flexible Nonmetallic									
STP (Submersible Pump)										Double Wall									
Other:										Line Manufacturer:									
Spill Prevention										Length Installed (Feet)									
Spill Buckets										Other:									
Overfill Prevention										District Inspection									
Overfill Shutoff Device										Contacted District Office	Yes:			No:					
Overfill Shutoff with Drop Tube										Inspection Date:									
Audible Overfill Alarm										Fix Inspection Deficiencies									
Ball Float Valve										Drop Tubes									

Oath: I certify that the information above concerning compliance with technical standards is true to the best of my belief and knowledge.

KDHE Licensed Installer Signature: [Signature] IO# 975 1 Date: 3-19-2014

MAR 27 2014 CLE 10-6-2014

RECEIVED

10/13/14

### UST Repair Notification

(Petroleum Products and Hazardous Substances)

Submit to: **Kansas Department of Health and Environment**  
**Bureau of Environmental Remediation**  
**Storage Tank Section**  
**1000 SW Jackson, Suite 410**  
**Topeka KS 66612-1367**  
**Phone: 785 296-8061** **Fax: 785 296-6190**

KDHE USE ONLY: 11542

State of Kansas - Division of Environment  
**APPROVED**  
When constructed to conform with Art. 44  
Date: 10-8-2014  
By: Christopher J. East

NE

If any work involves upgrading or modifying the system, use the UST Upgrade/Modification Application. Use THIS form only if work replaces parts in kind, or if a cathodic protection system is being repaired (adding/replacing anodes, re-laying cable, replacing rectifier with same.)

Please Print Clearly or Type

#### I. Facility Information

A. Facility Name: Casey's General Store # 2826  
B. Facility Address: 2100 S 4<sup>th</sup> Leavenworth KS 66048  
(street) (city) (state) (zip)

#### II. Tank Owner Information

A. Owner Name: Casey's Retail Company  
B. Owner Address: PO Box 301, One Convenience Blvd, Ankeny, IA 50021  
(street) (city) (state) (zip)  
C. Contact Person: Jill Reams - Widder Phone: (515) 965-6100 ext 6231

#### III. Contractor Information

A. Contractor Name: Haselwood Inc License No. & Exp. Date.: CO578 2-1-2014  
B. Contractor Address: 100 Dexter St Clay Center KS 67432  
(street) (city) (state) (zip)  
C. Contact Person: Ed Haselwood Phone: (785) 680-0299  
Email edo@haselwood-inc.com Fax: ( ) -

#### IV. KDHE Tank or Line Nos. to be repaired: 003

A. Describe the repairs to be done. Attach manufacturer's repair instructions, if applicable:

Replaced syphon jet on Diesel STP, purged line + retest

B. Describe reason for repairs: failed initial LD op test -

C. Are tanks to be taken out of service because of this proposed repair? Yes \_\_\_ No

D. Have tank or line failures lead to this proposed repair? Yes \_\_\_ No

If yes, to whom was the leak reported? \_\_\_\_\_

E. If failures have occurred, please briefly describe the incident: \_\_\_\_\_

F. Is this facility in the State Trust Fund for environmental cleanup? \_\_\_ Yes \_\_\_ No

#### V. System Test:

A. A tightness test must be performed within thirty (30) days if repairs were done to portions of the UST system that routinely contain fuel. Only that portion of the system repaired must be tested. A printout from an automated monthly monitoring device may be substituted for a tightness test. Test method used: \_\_\_\_\_

B. If the cathodic protection system has been repaired, a system test must be performed within six months of repair. Impressed current cathodic protection systems must also be inspected within sixty (60) days of repair.

#### VI. Applicant's Certification:

I certify that the information above is true to the best of my knowledge and that all equipment will be repaired in compliance with the manufacturers' repair instructions if applicable. The repair will be performed in compliance with all federal, state, and local regulations.

Ed Haselwood  
KDHE Licensed Installer's Signature

975 1 BUREAU OF ENVIRONMENTAL REMEDIATION

3-19-14  
(Date)

MAR 27 2014

RECEIVED

October 8, 2014

Mr. Ed Haselwood, I0975  
Haselwood Inc.  
100 Dexter St  
Clay Center, KS 67432

**Re: Approved UST Repair Notification (UST009) Form: Casey's General Store #2826,  
2100 S. 4<sup>th</sup> Street, Leavenworth, KS 66048 (Fac. ID #30435)**

Dear Mr. Haselwood:

I have reviewed and approved the "UST Repair Notification (UST009)" form for the underground storage tanks at the above referenced facility. The Notification reports work to replace the syphon jet on the STP for Tank U003.

K.A.R. 28-44-15 (b) (1) authorizes Licensed UST Contractors to make repair applications by telephone if the repair is essential to protect public health and the environment. In addition to using the telephone, Contractors may make contact with KDHE by fax or email when a repair is deemed necessary. Should repairs be made during non-work hours or on the weekend, the Contractor must make contact with KDHE on the first workday following that repair. After notifying KDHE of the repair, Contractors may submit the Repair Notification (UST009) forms up to 30 days following the completion of the work.

Please find enclosed an:


- "Underground Storage Tank Compliance Verification (UST004)" form to be filed after the work is completed. **(Received on 3/27/2014)**

KDHE understands that the work is completed to the state standards; the Underground Storage Tank Compliance Verification (UST004) has been received for this job. **KDHE considers the notification closed and no further action is needed at this time.**

Please forward copies of all the forms to the Owner of the UST system you have repaired or upgraded as soon as the work is completed. Finally, if you have not already done so, arrange for a facility inspection with the nearest KDHE District Office. Thank you for your continued cooperation.

Mr. Ed Haselwood, I0975  
October 8, 2014  
Page 2 of 2

Sincerely,

  
Christopher L Eichman  
Environmental Scientist  
KDHE-BER-Storage Tank Section

CLE: RA

PC: (owner/operator), KDHE-NEDO, file

Robert Moser, MD, Secretary  
Division of Environment

Department of Health & Environment  
June 25, 2014

Sam Brownback, Governor

KDHE District NE  
Owner ID 06884  
CASEY'S RETAIL COMPANY  
PO BOX 3004, ONE CONVENIENCE BLVD  
ANKENY, IA 50021

Re: Facility ID 30435  
CASEY'S GENERAL STORE - #2826  
2100 S. 4TH STREET  
LEAVENWORTH, KS 66048

TANKS: 003

Attention Underground Storage Tank Owner:

The purpose of this letter is to inform you that KDHE **will not issue** your 2014/2015 UST Operating Permits for the underground storage tanks (USTs) at the facility referenced above. Either these USTs have fallen out of compliance since your 2013/2014 permits printed, or you have not received your 2013/2014 permits. KDHE will not issue new permits until these USTs are brought back into compliance.

Not having UST Operating Permits places you in violation of K.S.A. 65-34,109 (b) (6) and the federal Energy Policy Act of 2005. If you are found to be operating these USTs during an inspection, KDHE will provide notice to the company that delivers regulated substances to your facility that such deliveries should cease until KDHE issues permits for your facility.

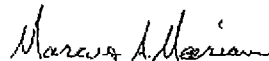
Below you will find listed the reasons why KDHE has determined that your USTs are out of compliance. You may contact KDHE if you have information that corrects KDHE's determination so your permits can be issued.

The tanks are out of compliance for the following reason(s):

**KDHE has not received the latest results of your most current ALM , LLD, or MLD function test (s) for tank number(s): 003. Federal and KDHE regulations require the ALM , LLD, or MLD be tested annually.**

If you plan on operating your USTs, you are required to bring your tanks into compliance with the UST regulations to receive your 2014/2015 permits. If you have any questions concerning this letter or if you would like to discuss your options in bringing your USTs into compliance, please feel free to contact the UST Program staff at 785-296-8061 or toll free at 1-877-221-0325.

Sincerely,



Marcus Meirian  
Environmental Scientist IV  
Storage Tank Section

Robert Moser, MD, Secretary  
Division of Environment

Department of Health & Environment  
May 13, 2014

Sam Brownback, Governor

KDHE District NE  
Owner ID: 06884  
CASEY'S RETAIL COMPANY  
PO BOX 3004, ONE CONVENIENCE BLVD  
ANKENY, IA 50021

Re: Facility 30435  
CASEY'S GENERAL STORE - #2826  
2100 S. 4TH STREET  
LEAVENWORTH, KS 66048

TANKS: 003

Attention Underground Storage Tank Owner:

The purpose of this letter is to inform you that KDHE **has issued** your 2013/2014 UST Operating Permits for the underground storage tanks (USTs) at the facility referenced above. However, since the printing of your UST permits, the USTs have fallen out of compliance. KDHE will not print 2014/2015 UST Operating Permits until these USTs are brought back into compliance.

Not having UST Operating Permits places you in violation of K.S.A. 65-34,109 (b) (6) and the federal Energy Policy Act of 2005. If you are found to be operating these USTs during an inspection, KDHE will provide notice to the company that delivers regulated substances to your facility that such deliveries should cease until KDHE issues permits for your facility.

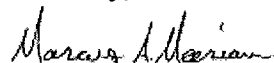
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The tanks are out of compliance for the following reason(s):

**KDHE has not received the latest results of your most current ALM , LLD, or MLD function test (s) for tank number(s): 003. Federal and KDHE regulations require the ALM , LLD, or MLD be tested annually.**

Your current 2013/2014 UST permits will expire on July 31, 2014. If you plan on operating your USTs after July 31, 2014, you are required to bring your tanks into compliance with KDHE UST regulations to receive your 2014/2015 permits. If you have any questions concerning this letter or if you would like to discuss your options to bring your USTs into compliance, please feel free to contact the UST Program staff at 785-296-8061 or toll free at 1-877-221-0325.

Sincerely,



Marcus Meerian  
Environmental Scientist IV  
Storage Tank Section



**Kansas Department of Health and Environment  
2014 UST Annual Registration Renewal Invoice and Emergency Planning and Community Right To Know  
Act Special UST Tier II Form.**

**REVIEW THIS FORM, COMPLETE THE SIGNATURE BLOCK, AND RETURN THIS FORM WITH YOUR PAYMENT BEFORE APRIL 30, 2014.**

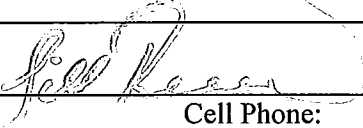
Kansas Department of Health and Environment (KDHE) records indicate that you have 3 active tank (s) registered at the Facility listed below. A total of **\$30.00** must be submitted to KDHE at the address below with this **Renewal Invoice**.

<b>Owner</b>	<b>Facility</b>
Owner ID: 06884 CASEY'S RETAIL COMPANY PO BOX 3004, ONE CONVENIENCE BLVD ANKENY, IA 50021	Facility ID: 30435 CASEY'S GENERAL STORE - #2826 2100 S. 4TH STREET LEAVENWORTH, KS 66048

Tank Number	U001	U002	U003		
Status of Tank	In Use	In Use	In Use		
Exempt?	No	No	No		
Year Installed	2009	2009	2009		
Capacity (Gallons)	20,000	12,000	8,000		
Product Stored	Gas Unleaded Regular	Gas Unleaded Premium	Diesel Clear		RECEIVED
CAS Number	8006-61-9	8006-61-9	68476-34-6		
Physical/Health Hazards*	F,C,A	F,C,A	F,C,A		MAR 31 2014
Tank Release Detection	IMDW, ATG	IMDW, ATG	IMDW, ATG		
Model / Service	Veeder Root TLS-350	Veeder Root TLS-350	Veeder Root TLS-350		SUBMITTED TO ENVIRONMENTAL REMEDIATION
Dispenser Type	Pressure	Pressure	Pressure		
Shutoff/Alarm/FR/ALM	ALM	ALM	ALM		
Line Release Detection	IM, ALM	IM, ALM	IM, ALM		
Model / Service	Veeder Root TLS-350	Veeder Root TLS-350	Veeder Root TLS-350		
Financial Responsibility	SI 08/27/2014	SI 08/27/2014	SI 08/27/2014		

(1) Average Daily Amount assumed to be 1/2 of the Total Capacity unless otherwise stated.  
 (2) Assume storage of liquid substances is 365 days at the listed facility unless otherwise indicated.  
 (3) **Please cross out any USTs removed from your facility. Check to see if your licensed remover has submitted a Underground Storage Tank Permanent Abandonment (UST008) form to KDHE.**  
 \* Review what is listed, Fire (F), Chronic (C), Acute (A) to describe the tank contents. (This information is found on your MSDS sheets.)

If any of the above information is not correct, *such as the Owner's Mailing address* or any information related to the storage tanks system, provide a written description of any needed changes on this invoice and submit it with your payment. If an incorrect owner mailing address is listed and corrections are not made, your permit(s) may be delayed. Failure to complete this invoice and submit it with the appropriate fees prior to April 30, 2014 will prevent you from obtaining the required Permits before July 31, 2014.

<b>Certification of Accuracy</b>	
Owner Contact Person (print name): <b>JILL REAMS-WIDDER</b>	Facility Phone: <b>515-965-6238</b>
Owner Signature: 	Date: <b>3/26/2014</b>
24-Hour Contact Name: <b>JILL-REAMS-WIDDER</b>	Cell Phone: <b>515-965-6238</b>
	24-Hour Phone: <b>515-965-6238</b>

Submit to: <b>Kansas Department of Health and Environment                  Bureau of Environmental Remediation                  Storage Tank Section                  1000 SW Jackson, Suite 410                  Topeka, KS, 66612-1367</b>	Please direct questions concerning the underground storage tank program to 1-877-221-0325. <a href="http://www.kdheks.gov/tanks/index.html">http://www.kdheks.gov/tanks/index.html</a>  Please direct questions concerning the Right-to-Know program to (785) 296-1688. Listings of LEPCs at <a href="http://www.accesskansas.org/kdem/contact_us/cocoordinator_lepclistin g.shtml">http://www.accesskansas.org/kdem/contact_us/cocoordinator_lepclistin g.shtml</a>
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**Please retain a copy of this invoice for your records. Send a copy to your Local Emergency Planning Committee(s).**

1007093189

11/12 UST004

KDHE Reference No: Owner ID: 06884

Facility ID: 30435

Underground Storage Tank Compliance Verification

To be completed when repair or upgrade is finished.\*

Submit to: Kansas Department of Health and Environment
Bureau of Environmental Remediation-Storage Tank Section
1000 SW Jackson, Suite 410, Topeka, KS 66612-1367

Phone: 785-296-8061
Fax# 785-296-6190

10700
5/13

Facility Name: Casey's 2826

Facility Address: 2100 S 4th City: Leavenworth State: KS Zip: 66048

\*Complete only the information pertaining to the approved work on the repair or upgrade/modification application.

Table with columns for KDHE Tank/Line#, Tank Corrosion Protection, Tank Release Detection, Piping Release Detection, Pressure Line Rel. Det., Pump and Dispenser Containment, Spill Prevention, Overfill Prevention, and Drop Tubes. Includes handwritten entries like '003', '3-20-13', 'replaced syphon jet on STP', and '5-7-2013'.

Oath: I certify that the information above concerning compliance with technical standards is true to the best of my belief and knowledge.

KDHE Licensed Installer Signature: Ed [Signature] IO# 475 Date: 4-30-13

CLE 5-7-2013

BUREAU OF ENVIRONMENTAL REMEDIATION

MAY 06 2013

5/10/13 de

06884-30435

10700

Bureau of Environmental Remediation  
Curtis State Office Building  
1000 SW Jackson St., Suite 410  
Topeka, KS 66612-1367



Phone: 785.296.1685  
Fax: 785.296.6190  
ceichman@kdheks.gov  
www.kdheks.gov

Robert Moser, MD, Secretary

Department of Health & Environment

Sam Brownback, Governor

May 9, 2013

Mr. Ed Haselwood, I0975  
Haselwood Inc.  
100 Dexter St  
Clay Center, KS 67432

**Re: Approved UST Repair Notification (UST009) Form: Casey's General Store #2826,  
2100 S. 4<sup>th</sup> St, Leavenworth, KS 66048 (Fac. ID #30435).**

Dear Mr. Haselwood:

I have reviewed and approved the "UST Repair Notification (UST009)" form for the underground storage tanks at the above referenced facility. The Notification reports work to install a new syphon jet on the STP for Tank U003.

K.A.R. 28-44-15 (b) (1) authorizes Licensed UST Contractors to make repair applications by telephone if the repair is essential to protect public health and the environment. In addition to using the telephone, Contractors may make contact with KDHE by fax or email when a repair is deemed necessary. Should repairs be made during non-work hours or on the weekend, the Contractor must make contact with KDHE on the first workday following that repair. After notifying KDHE of the repair, Contractors may submit the Repair Notification (UST009) forms up to 30 days following the completion of the work.

Please find enclosed an:

- "Underground Storage Tank Compliance Verification (UST004)" form to be filed after the work is completed. **(Received on 5/6/2013)**

KDHE understands that the work is completed to the state standards; the Underground Storage Tank Compliance Verification (UST004) has been received for this job. **KDHE considers the notification closed and no further action is needed at this time.**

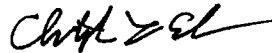
Mr. Ed Haselwood, I0975

May 9, 2013

Page 2 of 2

Please forward copies of all the forms to the Owner of the UST system you have repaired or upgraded as soon as the work is completed. Finally, if you have not already done so, arrange for a facility inspection with the nearest KDHE District Office. Thank you for your continued cooperation.

Sincerely,



Christopher L Eichman  
Environmental Scientist  
KDHE-BER-Storage Tank Section

CLE: PB

PC: (owner/operator), KDHE-NEDO, file

**UST Repair Notification**  
(Petroleum Products and Hazardous Substances)

Submit to: **Kansas Department of Health and Environment**  
**Bureau of Environmental Remediation**  
**Storage Tank Section**  
**1000 SW Jackson, Suite 410**  
**Topeka KS 66612-1367**  
**Phone: 785 296-8061** **Fax: 785 296-6190**

KDHE USE ONLY: 10700 **NE**  
State of Kansas - Division of Environment  
**APPROVED**  
When constructed to conform with Art. 44  
Date: 5-7-2013  
By: Chris [Signature]

If any work involves upgrading or modifying the system, use the **UST Upgrade/Modification Application**. Use THIS form only if work replaces parts in kind, or if a cathodic protection system is being repaired (adding/replacing anodes, re-laying cable, replacing rectifier with same.)

Please Print Clearly or Type

**I. Facility Information**

A. Facility Name: Casey's General Store # 2826  
B. Facility Address: 2100 S 4th Leavenworth KS 66048  
(street) (city) (state) (zip)

**II. Tank Owner Information**

A. Owner Name: Casey's Retail Company  
B. Owner Address: PO Box 300, One Convenience Blvd, Ankeny, IA 50021  
(street) (city) (state) (zip)  
C. Contact Person: Jill Reams - Widder Phone: (515) 965-6100 ext 6238

**III. Contractor Information**

A. Contractor Name: Haselwood Inc License No. & Exp. Date.: C0578 2-1-2014  
B. Contractor Address: 100 Dexter St Clay Center KS 67432  
(street) (city) (state) (zip)  
C. Contact Person: Ed Haselwood Phone: (785) 630-0299  
Email ed@haselwood-inc.com Fax: ( ) .

**IV. KDHE Tank or Line Nos. to be repaired: 003**

A. Describe the repairs to be done. Attach manufacturer's repair instructions, if applicable: \_\_\_\_\_  
Replace syphon jet on FE Petro STA  
B. Describe reason for repairs: PLD failed 3qph operability test  
C. Are tanks to be taken out of service because of this proposed repair? Yes \_\_\_ No   
D. Have tank or line failures lead to this proposed repair? Yes \_\_\_ No   
If yes, to whom was the leak reported? \_\_\_\_\_  
E. If failures have occurred, please briefly describe the incident: \_\_\_\_\_  
F. Is this facility in the State Trust Fund for environmental cleanup? \_\_\_ Yes \_\_\_ No

**V. System Test:**

A. A lightness test must be performed within thirty (30) days if repairs were done to portions of the UST system that routinely contain fuel. Only that portion of the system repaired must be tested. A printout from an automated monthly monitoring device may be substituted for a lightness test. Test method used: \_\_\_\_\_  
B. If the cathodic protection system has been repaired, a system test must be performed within six months of repair. Impressed current cathodic protection systems must also be inspected within sixty (60) days of repair.

**VI. Applicant's Certification:**

I certify that the information above is true to the best of my knowledge and that all equipment will be repaired in compliance with the manufacturers' repair instructions if applicable. The repair will be performed in compliance with all federal, state, and local regulations.

[Signature]  
KDHE Licensed Installer's Signature IO# 9751

4-30-13  
(Date)

BUREAU OF ENVIRONMENTAL REMEDIATION  
MAY 06 2013  
RECEIVED

**Kansas Department of Health and Environment  
2013 UST Annual Registration Renewal Invoice and Emergency Planning and Community Right To Know  
Act Special UST Tier II Form.**

**REVIEW THIS FORM, COMPLETE THE SIGNATURE BLOCK, AND RETURN THIS FORM WITH YOUR PAYMENT BEFORE APRIL 30, 2013.**

Kansas Department of Health and Environment (KDHE) records indicate that you have 3 active tank (s) registered at the Facility listed below. A total of **\$30.00** must be submitted to KDHE at the address below with this **Renewal Invoice**.

<b>Owner</b>	<b>Facility</b>
Owner ID: 06884 CASEY'S RETAIL COMPANY PO BOX 3001, ONE CONVENIENCE BLVD ANKENY, IA 50021	Facility ID: 30435 CASEY'S GENERAL STORE - #2826 2100 S. 4TH STREET LEAVENWORTH, KS 66048

Tank Number	U001	U002	U003	
Status of Tank	In Use	In Use	In Use	
Exempt?	No	No	No	
Year Installed	2009	2009	2009	
Capacity (Gallons)	20,000	12,000	8,000	
Product Stored	Gas Unleaded Regular	Gas Unleaded Premium	Diesel Clear	
CAS Number	8006-61-9	8006-61-9	68476-34-6	
Physical/Health Hazards*	F,C,A	F,C,A	F,C,A	
Tank Release Detection	IMDW, ATG	IMDW, ATG	IMDW, ATG	
Model / Service	Veeder Root TLS-350	Veeder Root TLS-350	Veeder Root TLS-350	
Dispenser Type	Pressure	Pressure	Pressure	
Shutoff/Alarm/FR/ALM	ALM	ALM	ALM	
Line Release Detection	IM, ALM	IM, ALM	IM, ALM	
Model / Service	Veeder Root TLS-350	Veeder Root TLS-350	Veeder Root TLS-350	
Financial Responsibility	SI 08/28/2013	SI 08/28/2013	SI 08/28/2013	

**RECEIVED**  
**MAR 29 2013**  
BUREAU OF ENVIRONMENTAL REMEDIATION

(1) Average Daily Amount assumed to be 1/2 of the Total Capacity unless otherwise stated.  
 (2) Assume storage of liquid substances is 365 days at the listed facility unless otherwise indicated.  
 (3) **Please cross out any USTs removed from your facility. Check to see if your licensed remover has submitted a Underground Storage Tank Permanent Abandonment (UST008) form to KDHE.**  
 \* Review what is listed, Fire (F), Chronic (C), Acute (A) to describe the tank contents. (This information is found on your MSDS sheets.)

If any of the above information is not correct, *such as the Owner's Mailing address* or any information related to the storage tanks system, provide a written description of any needed changes on this invoice and submit it with your payment. If an incorrect owner mailing address is listed and corrections are not made, your permit(s) may be delayed. Failure to complete this invoice and submit it with the appropriate fees prior to April 30, 2013 will prevent you from obtaining the required Permits before July 31, 2013.

<b>Certification of Accuracy</b>	
Owner Contact Person (print name): <b>JILL REAMS-WIDDER</b>	Facility Phone: <b>515-965-6238</b>
Owner Signature: <i>Jeri Mason for Jill Reams-Widder</i>	Date: <i>3/21/2013</i>
24-Hour Contact Name: <b>JILL-REAMS-WIDDER</b>	Cell Phone: <b>515-965-6238</b>

Submit to: <b>Kansas Department of Health and Environment                  Bureau of Environmental Remediation                  Storage Tank Section                  1000 SW Jackson, Suite 410                  Topeka, KS, 66612-1367</b>	Please direct questions concerning the underground storage tank program to 1-877-221-0325. <a href="http://www.kdheks.gov/tanks/index.html">http://www.kdheks.gov/tanks/index.html</a>  Please direct questions concerning the Right-to-Know program to (785) 296-1688. Listings of LEPCs at <a href="http://www.accesskansas.org/kdem/contact_us/cocoordinator_lepclisting.shtml">http://www.accesskansas.org/kdem/contact_us/cocoordinator_lepclisting.shtml</a>
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**Please retain a copy of this invoice for your records. Send a copy to your Local Emergency Planning Committee(s).**

1007086778





**Kansas Department of Health and Environment**  
**2012 UST Annual Registration Renewal Invoice and Emergency Planning and Community Right To Know Act Special UST Tier II Form.**

**REVIEW THIS FORM, COMPLETE THE SIGNATURE BLOCK, AND RETURN THIS FORM WITH YOUR PAYMENT BEFORE APRIL 30, 2012.**

Kansas Department of Health and Environment (KDHE) records indicate that you have 3 active tank (s) registered at the Facility listed below. A total of **\$30.00** must be submitted to KDHE at the address below with this **Renewal Invoice**.

<b>Owner</b>	<b>Facility</b>
Owner ID: 06884 CASEY'S RETAIL COMPANY PO BOX 3001, ONE CONVENIENCE BLVD ANKENY, IA 50021	Facility ID: 30435 CASEY'S GENERAL STORE - #2826 2100 S. 4TH STREET LEAVENWORTH, KS 66048

Tank Number	U001	U002	U003		
Status of Tank	In Use	In Use	In Use		
Exempt?	No	No	No		
Year Installed	2009	2009	2009		
Capacity (Gallons)	20,000	12,000	8,000		
Product Stored	Gas Unleaded Regular	Gas Unleaded Premium	Diesel Clear		
CAS Number	8006-61-9	8006-61-9	68476-34-6		
Physical/Health Hazards*	F,C,A	F,C,A	F,C,A		
Tank Release Detection	IMDW, ATG	IMDW, ATG	IMDW, ATG		
Model / Service	Veeder Root TLS-350	Veeder Root TLS-350	Veeder Root TLS-350		
Dispenser Type	Pressure	Pressure	Pressure		
Shutoff/Alarm/FR/ALM	ALM	ALM	ALM		
Line Release Detection	IM, ALM	IM, ALM	IM, ALM		
Model / Service	Veeder Root TLS-350	Veeder Root TLS-350	Veeder Root TLS-350		
Financial Responsibility	SI 08/30/2012	SI 08/30/2012	SI 08/30/2012		

(1) Average Daily Amount assumed to be 1/2 of the Total Capacity unless otherwise stated.  
 (2) Assume storage of liquid substances is 365 days at the listed facility unless otherwise indicated.  
 (3) Please cross out any USTs removed from your facility. Check to see if your licensed remover has submitted a **Underground Storage Tank Permanent Abandonment (UST008) form to KDHE.**  
 \* Review what is listed, Fire (F), Chronic (C), Acute (A) to describe the tank contents. (This information is found on your MSDS sheets.)

If any of the above information is not correct, *such as the Owner's Mailing address* or any information related to the storage tanks system, provide a written description of any needed changes on this invoice and submit it with your payment. If an incorrect owner mailing address is listed and corrections are not made, your permit(s) may be delayed. Failure to complete this invoice and submit it with the appropriate fees prior to April 30, 2012 will prevent you from obtaining the required Permits before July 31, 2012.

<b>Certification of Accuracy</b>		BUREAU OF ENVIRONMENTAL REMEDIATION
Owner Contact Person (print name): <b>JILL REAMS-WIDDER</b>		Facility Phone: <b>515-965-6238</b>
Owner Signature: <i>Jeri Mason for Jill R.</i>	MAR 29 2012 RECEIVED	Date: <i>3/22/12</i>
24-Hour Contact Name: <b>JILL-REAMS-WIDDER</b>	Cell Phone:	24-Hour Phone: <b>515-965-6238</b>

Submit to: <b>Kansas Department of Health and Environment</b> <b>Bureau of Environmental Remediation</b> <b>Storage Tank Section</b> <b>1000 SW Jackson, Suite 410</b> <b>Topeka, KS, 66612-1367</b>	Please direct questions concerning the underground storage tank program to 1-877-221-0325. <a href="http://www.kdheks.gov/tanks/index.html">http://www.kdheks.gov/tanks/index.html</a>  Please direct questions concerning the Right-to-Know program to (785) 296-1688. Listings of LEPCs at <a href="http://www.accesskansas.org/kdem/contact_us/cocoordinator_lepclistin g.shtml">http://www.accesskansas.org/kdem/contact_us/cocoordinator_lepclistin g.shtml</a>
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**Please retain a copy of this invoice for your records. Send a copy to your Local Emergency Planning Committee(s).**



Robert Moses, MD, Secretary  
Division of Environment

Department of Health & Environment

Sam Brownback, Governor

July 12, 2011

KDHE District NE

Owner ID 06884

CASEY'S RETAIL COMPANY

PO BOX 3001, ONE CONVENIENCE BLVD

ANKENY, IA 50021

Re: Facility ID 30435

CASEY'S GENERAL STORE - #2826

2100 S. 4TH STREET

LEAVENWORTH, KS 66048

TANKS: 001,002,003

Attention Underground Storage Tank Owner:

The purpose of this letter is to inform you that KDHE **will not issue** your 2011/2012 UST Operating Permits for the underground storage tanks (USTs) at the facility referenced above. Either these USTs have fallen out of compliance since your 2010/2011 permits printed, or you have not received your 2010/2011 permits. KDHE will not issue new permits until these USTs are brought back into compliance.

Not having UST Operating Permits places you in violation of K.S.A. 65-34,109 (b) (6) and the federal Energy Policy Act of 2005. If you are found to be operating these USTs during an inspection, KDHE will provide notice to the company that delivers regulated substances to your facility that such deliveries should cease until KDHE issues permits for your facility.

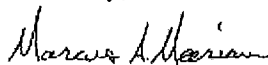
Below you will find listed the reasons why KDHE has determined that your USTs are out of compliance. You may contact KDHE if you have information that corrects KDHE's determination so your permits can be issued.

The tanks are out of compliance for the following reason(s):

**KDHE has not received satisfactory inventory control records for one month and/or satisfactory inventory control annual summary sheets covering an eight out of a 12 month period with the last two months being consecutive for tank number(s): 001, 002, 003.**

If you plan on operating your USTs, you are required to bring your tanks into compliance with the UST regulations to receive your 2011/2012 permits. If you have any questions concerning this letter or if you would like to discuss your options in bringing your USTs into compliance, please feel free to contact the UST Program staff at 785-296-8061 or toll free at 1-877-221-0325.

Sincerely,



Marcus Meerian  
Environmental Scientist IV  
Storage Tank Section

**Kansas Department of Health and Environment  
2011 UST Annual Registration Renewal Invoice and Emergency Planning and Community Right To Know  
Act Special UST Tier II Form.**

**REVIEW THIS FORM, COMPLETE THE SIGNATURE BLOCK, AND RETURN THIS FORM WITH YOUR PAYMENT BEFORE APRIL 30, 2011.**

Kansas Department of Health and Environment (KDHE) records indicate that you have 3 active tank (s) registered at the Facility listed below. A total of **\$30.00** must be submitted to KDHE at the address below with this **Renewal Invoice**.

<b>Owner</b>	<b>Facility</b>
Owner ID: 06884 CASEY'S RETAIL COMPANY PO BOX 3001, ONE CONVENIENCE BLVD ANKENY, IA 50021	Facility ID: 30435 CASEY'S GENERAL STORE - #2826 2100 S. 4TH STREET LEAVENWORTH, KS 66048

Tank Number	U001	U002	U003		
Status of Tank	In Use	In Use	In Use		
Exempt?	No	No	No		
Year Installed	2009	2009	2009		
Capacity (Gallons)	20,000	12,000	8,000		
Product Stored	Gas Unleaded Regular	Gas Unleaded Premium	Diesel Clear		
CAS Number	8006-61-9	8006-61-9	68476-34-6		
Physical/Health Hazards*	F,C,A	F,C,A	F,C,A		
Tank Release Detection	IMDW, ATG	IMDW, ATG	IMDW, ATG		
Model / Service	Veeder Root TLS-350	Veeder Root TLS-350	Veeder Root TLS-350		
Dispenser Type	Pressure	Pressure	Pressure		
Shutoff/Alarm/FR/ALM	ALM	ALM	ALM		
Line Release Detection	IM, ALM	IM, ALM	IM, ALM		
Model / Service	Veeder Root PLLD	Veeder Root PLLD	Veeder Root PLLD		
Financial Responsibility	SI 08/30/2009	SI 08/30/2009	SI 08/30/2009		

(1) Average Daily Amount assumed to be 1/2 of the Total Capacity unless otherwise stated.  
 (2) Assume storage of liquid substances is 365 days at the listed facility unless otherwise indicated.  
 (3) Please cross out any USTs removed from your facility. Check to see if your licensed remover has submitted a **Underground Storage Tank Permanent Abandonment (UST008) form to KDHE.**  
 \* Review what is listed, Fire (F), Chronic (C), Acute (A) to describe the tank contents. (This information is found on your MSDS sheets.)

If any of the above information is not correct, *such as the Owner's Mailing address* or any information related to the storage tanks system, provide a written description of any needed changes on this invoice and submit it with your payment. If an incorrect owner mailing address is listed and corrections are not made, your permit(s) may be delayed. Failure to complete this invoice and submit it with the appropriate fees prior to April 30, 2011 will prevent you from obtaining the required Permits before July 31, 2011.

<b>Certification of Accuracy</b>		
Owner Contact Person (print name): <b>JILL REAMS-WIDDER</b>	Facility Phone: <b>515-965-6238</b>	
Owner Signature:	Date:	
24-Hour Contact Name: <b>JILL-REAMS-WIDDER</b>	Cell Phone:	24-Hour Phone: <b>515-965-6238</b>

Submit to: <b>Kansas Department of Health and Environment Bureau of Environmental Remediation Storage Tank Section 1000 SW Jackson, Suite 410 Topeka, KS, 66612-1367</b>	Please direct questions concerning the underground storage tank program to 1-877-221-0325. <a href="http://www.kdheks.gov/tanks/index.html">http://www.kdheks.gov/tanks/index.html</a>  Please direct questions concerning the Right-to-Know program to (785) 296-1688. Listings of LEPCs at <a href="http://www.accesskansas.org/kdem/contact_us/cocoordinator_lepclistin g.shtml">http://www.accesskansas.org/kdem/contact_us/cocoordinator_lepclistin g.shtml</a>
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**Please retain a copy of this invoice for your records. Send a copy to your Local  
Emergency Planning Committee(s).**

1007074444



Mark Parkinson, Governor  
Roderick L. Bremby, Secretary

DEPARTMENT OF HEALTH  
AND ENVIRONMENT

[www.kdheks.gov](http://www.kdheks.gov)

Division of Environment

August 3, 2010

KDHE District NE

Owner ID: 06884

CASEY'S RETAIL COMPANY

PO BOX 3001, ONE CONVENIENCE BLVD

ANKENY, IA 50021

Re: Facility ID 30435

CASEY'S GENERAL STORE - #2826

2100 S. 4TH STREET

LEAVENWORTH, KS 66048

TANKS: 001,002,003

Attention Underground Storage Tank Owner:

The purpose of this letter is to inform you that KDHE **has not issued** your 2010/2011 UST Operating Permits for the underground storage tanks (USTs) at the facility referenced above. Not having UST Operating Permits places you in violation of K.S.A. 65-34,109 (b) (6) and the federal Energy Policy Act of 2005. If you are found to be operating these USTs during an inspection, KDHE will provide notice to the company that delivers regulated substances to your facility that such deliveries should cease until KDHE issues permits for your facility.

Below you will find listed the reasons why KDHE has determined that your USTs are out of compliance. You may contact KDHE if you have information that corrects KDHE's determination so your permits can be issued.

The tanks are out of compliance for the following reason(s):

**KDHE has not received satisfactory inventory control records for one month and/or satisfactory inventory control annual summary sheets covering an eight out of a 12 month period with the last two months being consecutive for tank number(s): 001, 002, 003.**

**KDHE has not received the required Annual Summary Sheets or satisfactory monthly monitoring reports for release detection covering an eight out of a 12 month period with the last two months being consecutive for tank number(s): 001, 002, 003. Current tank/line Monthly Monitoring release detection methods used: Interstitial Monitor Double Wall Tank, Automatic Tank Gauge.**

If you plan on operating your USTs, you are required to bring your tanks into compliance with the UST regulations to receive your 2010/2011 permits. If you have any questions concerning this letter or if you would like to discuss your options in bringing your USTs into compliance, please feel free to contact the UST Program staff at 785-296-8061 or toll free at 1-877-221-0325.

Sincerely,

Michael L. Pomes, L.G.

Professional Geologist

**Kansas Department of Health and Environment  
2010 UST Annual Registration Renewal Invoice and Emergency Planning and Community Right To Know  
Act Special UST Tier II Form.**

**REVIEW THIS FORM, COMPLETE THE SIGNATURE BLOCK, AND RETURN THIS FORM WITH YOUR PAYMENT BEFORE APRIL 30, 2010.**

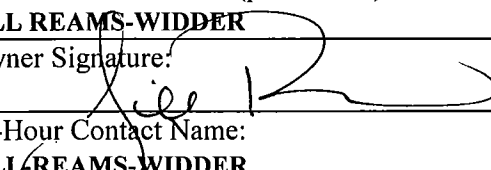
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<b>Owner</b>	<b>Facility</b>
Owner ID: 06884 <b>CASEY'S RETAIL COMPANY</b> PO BOX 3001, ONE CONVENIENCE BLVD ANKENY, IA 50021	Facility ID: 30435 <b>CASEY'S GENERAL STORE - #2826</b> 2100 S. 4TH STREET LEAVENWORTH, KS 66048

Tank Number	U001	U002	U003		
Status of Tank	In Use	In Use	In Use		
Exempt?	No	No	No		
Year Installed	2009	2009	2009		
Capacity (Gallons)	20,000	12,000	8,000		
Product Stored	Gas Unleaded Regular	Gas Unleaded Premium	Diesel Clear		
CAS Number	8006-61-9	8006-61-9	68476-34-6		
Physical/Health Hazards*	F,C,A	F,C,A	F,C,A		
Tank Release Detection	IMDW, ATG	IMDW, ATG	IMDW, ATG		
Model / Service	Veeder Root TLS-350	Veeder Root TLS-350	Veeder Root TLS-350		
Dispenser Type	Pressure	Pressure	Pressure		
Shutoff/Alarm/FR/ALM	ALM	ALM	ALM		
Line Release Detection	IM, ALM	IM, ALM	IM, ALM		
Model / Service	Veeder Root PLLD	Veeder Root PLLD	Veeder Root PLLD		
Financial Responsibility	SI 08/30/2009	SI 08/30/2009	SI 08/30/2009		

(1) Average Daily Amount assumed to be 1/2 of the Total Capacity unless otherwise stated.  
 (2) Assume storage of liquid substances is 365 days at the listed facility unless otherwise indicated.  
 (3) **Please cross out any USTs removed from your facility. Check to see if your licensed remover has submitted a Underground Storage Tank Permanent Abandonment (UST008) form to KDHE.**  
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<b>Certification of Accuracy</b>	
Owner Contact Person (print name): <b>JILL REAMS-WIDDER</b>	<b>RECEIVED</b>
Owner Signature: 	<b>APR 15 2010</b>
24-Hour Contact Name: <b>JILL REAMS-WIDDER</b>	BUREAU OF ENVIRONMENTAL REMEDIATION Cell Phone
	Facility Phone: <b>515-965-6238</b> Date: <b>4/7/10</b> 24-Hour Phone: <b>515-965-6238</b>

Submit to: <b>Kansas Department of Health and Environment                  Bureau of Environmental Remediation                  Storage Tank Section                  1000 SW Jackson, Suite 410                  Topeka, KS, 66612-1367</b>	Please direct questions concerning the underground storage tank program to 1-877-221-0325. <a href="http://www.kdheks.gov/tanks/index.html">http://www.kdheks.gov/tanks/index.html</a>  Please direct questions concerning the Right-to-Know program to (785) 296-1688. Listings of LEPCs at <a href="http://www.accesskansas.org/kdem/contact_us/cocoordinator_lepclistin_g.shtml">http://www.accesskansas.org/kdem/contact_us/cocoordinator_lepclistin_g.shtml</a>
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**Please retain a copy of this invoice for your records. Send a copy to your Local Emergency Planning Committee(s).**

15881 - 1



Mark Parkinson, Governor  
Roderick L. Bremby, Secretary

DEPARTMENT OF HEALTH  
AND ENVIRONMENT

[www.kdheks.gov](http://www.kdheks.gov)

Division of Environment

June 29, 2010

KDHE District NE

Owner ID 06884

CASEY'S RETAIL COMPANY

PO BOX 3001, ONE CONVENIENCE BLVD

ANKENY, IA 50021

Re: Facility ID 30435

CASEY'S GENERAL STORE - #2826

2100 S. 4TH STREET

LEAVENWORTH, KS 66048

TANKS: 001,002,003

Attention Underground Storage Tank Owner:

The purpose of this letter is to inform you that KDHE **will not issue** your 2010/2011 UST Operating Permits for the underground storage tanks (USTs) at the facility referenced above. Either these USTs have fallen out of compliance since your 2009/2010 permits printed, or you have not received your 2009/2010 permits. KDHE will not issue new permits until these USTs are brought back into compliance.

Not having UST Operating Permits places you in violation of K.S.A. 65-34,109 (b) (6) and the federal Energy Policy Act of 2005. If you are found to be operating these USTs during an inspection, KDHE will provide notice to the company that delivers regulated substances to your facility that such deliveries should cease until KDHE issues permits for your facility.

Below you will find listed the reasons why KDHE has determined that your USTs are out of compliance. You may contact KDHE if you have information that corrects KDHE's determination so your permits can be issued.

The tanks are out of compliance for the following reason(s):

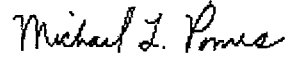
**KDHE has not received satisfactory inventory control records for one month and/or satisfactory inventory control annual summary sheets covering an eight out of a 12 month period with the last two months being consecutive for tank number(s): 001, 002, 003.**

**KDHE has not received the required Annual Summary Sheets or satisfactory monthly monitoring reports for release detection covering an eight out of a 12 month period with the last two months being consecutive for tank number(s): 001, 002, 003. Current tank/line Monthly Monitoring release detection methods used: Interstitial Monitor Double Wall Tank, Automatic Tank Gauge.**



If you plan on operating your USTs, you are required to bring your tanks into compliance with the UST regulations to receive your 2010/2011 permits. If you have any questions concerning this letter or if you would like to discuss your options in bringing your USTs into compliance, please feel free to contact the UST Program staff at 785-296-8061 or toll free at 1-877-221-0325.

Sincerely,



Michael L. Pomes, L.G.  
Professional Geologist



Mark Parkinson, Governor  
Roderick L. Bremby, Secretary

DEPARTMENT OF HEALTH  
AND ENVIRONMENT

[www.kdheks.gov](http://www.kdheks.gov)

July 14, 2009

Ms. Jill Reams-Widder  
Casey's General Stores Inc.  
One Convenience Blvd.  
Ankeny, IA 50021

**Re: UST Temporary Operating Permit for Casey's General Store #2826, 2100 South 4<sup>th</sup> Street,  
Leavenworth, KS 66048 (Fac. ID 30435).**

Dear Ms. Reams-Widder:

The Kansas Department of Health and Environment has issued a Temporary Operating Permit on Tanks U001, U002, U003 for the facility referenced above. This Temporary Operating Permit is valid between July 13, 2009, and November 13, 2009, and is included with this letter.

KDHE will extend the UST Temporary Permit for your facility after the following conditions are met:

- 1. KDHE receives inventory control records for August or September 2009.**
- 2. The Automatic Tank Gauge with Line Monitors 90-Day Summary Sheet is due to KDHE by November 13, 2009.**

Be sure to keep accurate inventory control records for your UST system.

If you have any questions or if I can be of assistance, please contact me at the number below.  
Thank you for your consideration.

Sincerely,

A handwritten signature in cursive script that reads "Marcus A. Meerian".

Marcus A. Meerian  
Environmental Scientist  
KDHE-BER-Storage Tanks

MAM: AMH

Cc: Tom Winn, KDHE-NEDO; File  
Encl: UST Temporary Operating Permit, 90-Day Automatic Tank Gauge with Line Monitors Summary Sheet.

Bureau of Environmental Remediation  
CURTIS STATE OFFICE BUILDING, 1000 SW JACKSON ST., STE. 410, TOPEKA, KS 66612-1367

Voice: 785-296-6372 Fax: 785-296-6190 email: [mmeerian@kdheks.gov](mailto:mmeerian@kdheks.gov)

<http://www.kdheks.gov/tanks/index.html>

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**KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT**

**UST TEMPORARY PERMIT  
VALID THROUGH November 13, 2009**

**THIS PERMIT SATISFIES KDHE PERMIT REQUIREMENTS  
FOR UNDERGROUND TANKS AT THIS FACILITY**

**KDHE Tank ID no. 06884-30435  
Tank U001, U002, U003**

**July 13, 2009**

**Casey's General Store #2826  
2100 South 4<sup>th</sup> Street  
Leavenworth, KS 66048**

**Michael L. Pomes  
Professional Geologist  
BER-Storage Tanks**

**(POST THIS PERMIT IN A VISIBLE LOCATION)**

**THIS PERMIT WILL ALLOW THE OPERATION OF  
UNDERGROUND STORAGE TANKS AT THIS FACILITY UNTIL  
November 13, 2009.**

**This UST Temporary Permit will be completed after:**

- 1. KDHE receives inventory control records for August or September 2009.**
- 2. The Automatic Tank Gauge with Line Monitors 90-Day Summary Sheet is due to KDHE by November 13, 2009.**

# KANSAS REGISTRATION NOTIFICATION FOR UNDERGROUND STORAGE TANKS

Submit to: Kansas Department of Health and Environment  
 Bureau of Environmental Remediation  
 Storage Tank Section  
 1000 SW Jackson, Suite 410 Phone: 785-296-8061  
 Topeka, KS 66612-1367 Fax: 785-296-6190

State of Kansas - Division of Environment  
 Acceptance  
 Date: 7-13-09  
 By: Marcus A. Meerman

**I. Facility Information**

- A. Facility Name: CASEY'S GENERAL STORE #2826
- B. Facility Address: 2100 S. 4<sup>th</sup> ST. LEAVENWORTH, KS 66048 LEAVENWORTH  
(street) (city) (state) (zip) (county)
- C. Contact Person: JILL REAMS-WIDDER Phone: (515) 965 - 6238
- D. Qtr. Section (to 4 quarters): NE CORNER OF SW Q4 Section 1 Township 9 Range 22-E (E) W (circle one)

**II. Tank Owner Information**

- A. Owner Name: CASEY'S GENERAL STORES INC.
- B. Owner Address: ONE CONVENIENCE BLVD. ANKENY IA 50021  
(street) (city) (state) (zip)
- C. Contact Person: JILL REAMS-WIDDER Phone: (515) 965 - 6238
- D. Owner Type: State/Local Government:  Federal  Private  Retail
- E. Number of tanks at this location:  aboveground tanks (ASTs) 3 underground tanks (USTs)

**III. Tank Information** Please enter manufacturer and model # where appropriate.

Tank Status:	Tank # U <u>01</u>	Tank # U <u>02</u>	Tank # U <u>03</u>	Tank # U _____	Tank # U _____
Currently in use, Temporarily out, or Permanently out	In use <input checked="" type="checkbox"/> Temp Out _____ Perm Out _____	In use <input checked="" type="checkbox"/> Temp Out _____ Perm Out _____	In use <input checked="" type="checkbox"/> Temp Out _____ Perm Out _____	In use _____ Temp Out _____ Perm Out _____	In use _____ Temp Out _____ Perm Out _____
Install date or age-yrs	<u>12-23-2008</u>	<u>12-23-2008</u>	<u>12-23-2008</u>		
Date of first use:	<u>6-18-2008</u>	<u>6-18-2008</u>	<u>6-18-2008</u>		
Tank capacity (gals)	<u>20,000</u>	<u>12,000</u>	<u>8,000</u>	<u>TANKS 2 &amp; 3 ARE A SPLIT COMPARTMENT TANK</u>	
Tank dimensions	<u>10' x 37'</u>	<u>10' x 24'</u>	<u>10' x 14'</u>		
Product stored*	<u>UNL. GAS</u>	<u>PREM. UNL. GAS</u>	<u>ON-ROAD DIESEL</u>		
Single wall tank Double wall tank	<u>DWT</u>	<u>DWT</u>	<u>DWT</u>		
Tank Construction: SIP3, FBR, ACT, etc.	<u>CONTAINMENT SOLUTIONS FBR</u>	<u>CONTAINMENT SOLUTIONS FBR</u>	<u>CONTAINMENT SOLUTIONS FBR</u>		

\*If product stored is hazardous substance, please give CERCLA Name or CAS #: \_\_\_\_\_

**IV. Product Piping Information**

Line construction: Steel, FRP, Flexible, Copper, Non-metal	<u>APT-FLEX</u>	<u>APT-FLEX</u>	<u>APT-FLEX</u>		
Single wall piping Double wall piping	<u>DW</u>	<u>DW</u>	<u>DW</u>		

**V. Financial Responsibility Method: (40CFR part 280 Subpart H and part 281)**

**Must Provide Certificate of 3<sup>rd</sup> Party Liability Insurance to KDHE** showing number of tanks covered and expiration date, or proof of alternate approved method.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I have financial responsibility as specified in accordance with 40 CFR 280, Subpart I.

7/13/09  
Date

[Signature]  
Signature Name and official title of owner or owner's representative

### Kansas Registration Notification Page 2 - Compliance Information

Tank UL no. or ASTM no.:	1) <del>U4</del> 100180	2) 100181	3) 100182	4)	5)
KDHE Tank #:	U00 - 01	U00 - 02	U00 - 03	U00 - _____	U00 - _____

Please mark an "X" in the boxes below for each applicable item.

KDHE Tank/Line #	01	02	03			KDHE Tank/Line #	01	02	03		
Standby Tank (yes/no)	NO	NO	NO			Corrosion Protection Tanks					Test date: N/A
Tank Release Detection						Sacrificial Anode Cathod. Prot.					
Manual Tank Gauging						Impress. Current Cathod. Prot.					
Tightness Testing	X	X	X			Fiberglass		X	X	X	
Automatic Tank Gauging	X	X	X			Steel Clad with Fiberglass					
Vapor Monitoring						Interior Lining					
Groundwater Monitoring						Interior Lining Installation / Inspection Date:					
Interstitial Monitor DW Tank	X	X	X			Line Construction					N/A
Statistical Inventory Recon.						Copper					
Other: _____						Steel					7-13-09
Dispenser Type						Fiberglass					
Safe Suction						Double Wall		X	X	X	
Conventional Suction						Flexible Nonmetallic		X	X	X	
Pressure	X	X	X			Other: _____					
Product Line Release Detection						Corrosion Protection Lines					Test date: N/A
Vapor Monitoring						Sacrificial Anode Cathod. Prot.					
Tightness Testing						Impress. Current Cathod. Prot.					
Interstitial Monitoring						Fiberglass					
Statistical Inventory Recon.						Double Wall		X	X	X	
Automatic Line Monitor	X	X	X			Flexible Nonmetallic		X	X	X	
Other: _____						Other: _____					
Pressure Line Release Detect.						Flex Connectors					Corr. Protec. Test date: N/A
Mechanical Leak Detector (Flow Restrictor)						Product line	(Indicate I if install, B if Boot)				
Positive Shutoff						Dispenser	(Indicate I if install, B if Boot)				
Continuous Alarm w/Shutoff						Spill Prevention					
Automatic Line Monitor	X	X	X			Spill Buckets		X	X	X	
Other: _____						Overfill Prevention					
Pump and Dispenser Containment						Drop Tubes <u>and</u>					
Submersible Pump Pan	X	X	X			Overfill Shutoff Device <u>or</u>					
Dispenser Pan	X	X	X			Outside Audible Overfill Alarm <u>or</u>					
						Ball Float Valve		X	X	X	

Installation of these tanks was done under the supervision of a KDHE licensed contractor and in accordance with all federal, state and local requirements:

Company: Seneca Companies  
Signature of Installer: Edward P. Jahn

Company Lic #: C 0330  
Indiv. Lic. #: 07491

### New Underground Storage Tank System Installation Application

(Petroleum Products and Hazardous Substances)

An application fee of \$20.00 per tank must accompany this application. This completed application form and installation plan(s) must be submitted to KDHE, a minimum of ten (10) days prior to the proposed installation date.

KDHE USE ONLY:

Submit to: Kansas Department of Health and Environment  
Bureau of Environmental Remediation  
Storage Tank Section

1000 SW Jackson, Suite 410  
Topeka, KS 66612-1367

Phone: 785-296-8061  
Fax: 785-296-6190

State of Kansas - Division of Environment  
**APPROVED**

When constructed to conform with Art. 44

Date: 7-13-09

By: Marcus A. Morrison

Please Print Clearly or Type

#### I. Facility Information

- A. Facility Name: Casey's General Store #2826
- B. Facility Address: 2100 S 4th St Leavenworth KS 66048  
(street) (city) (state) (zip)
- C. Contact Person: Jill Reams-Widder Phone: (515) 965-6238
- D. Legal Location: 2100 S 4th St County: Leavenworth
- E. Qtr. Section: NE Corner of SW 4th Section 1 Township 9 Range 22-E  NW (circle one)
- F. New facility?  Existing facility?  If existing, number of tanks already at this location:
- G. Are tanks to be taken out of service due to this new installation? No  Yes  How many?
- H. Will new tank(s) occupy old tank excavation? Yes  No  If "Yes," how many?
- I. Have tank or line failures lead to this proposed new installation? Yes  No   
If yes, to whom was the leak reported?
- J. If failures have occurred, please briefly describe the incident:

K. Is this facility in the State Trust Fund for environmental cleanup?  Yes  No.

L. Number of monitoring devices already at this location:

- 1. Groundwater monitoring wells
- 2. Observation tubes: (3)
- 3. Other (please describe):

M. Is the facility located on Native American reservation or trust lands? Yes:  No:

#### II. Tank Owner Information

- A. Owner Name: Casey's General Stores Inc.
- B. Owner Address: One Convenience Blvd Ankeny IA 50021  
(street) (city) (state) (zip)
- C. Contact Person: Jill Reams-Widder Phone: (515) 965-6238  
Email: jillreamswidder@caseys.com Fax: (515) 965-6161
- D. Owner Type: State/Local Government  Federal  Private  Retail

#### III. Contractor Information

- A. Company Name: Seneca Construction LLC Lic. No. and Exp. Date: 0330 3-07-09
- B. Company Address: 13915 Century Lane Grandview MO 64030  
(street) (city) (state) (zip)
- C. Individual Licensee: 07491 Lic. No. and Exp. Date 07491 11-18-09
- D. Contact Person: Edward D Hankel Phone: (816) 761-7369  
Email: ehankel@senecaco.com Fax: (816) 761-8351
- E. List other contractors and their duties:

13378-6000

**IV. Tank Information**

(Note: Double wall tanks are required for hazardous substances. An owner may consider using secondary containment/double wall tanks if the facility is located within an environmentally sensitive area.)

Tank Numbers:	001	002	003	
A. Type of Tank FRP/STIP3/ACT-100	FRP	FRP	FRP	
B. 3 <sup>rd</sup> party certification UL no./ASTM no./ACT-100				
C. Dble/Sngl Wall	DBLE-Wall	DBLE-WALL	SPLIT	
D. Tank Capacity (gals)	20,000	20,000	12,000 - 8000 split	
E. Tank Dimensions Length, diameter	10'x37'	10'x37'	---	
F. Manufacturer	Containment Solutions			
F. Product Stored	Gas	Gas	Diesel	
G. Spill Prevention manu. & model #	EBW-15 Gal.	EBW-15 Gal	EBW-15 Gal	
H. Overfill Prev. auto. shutoff/audible alarm/ball float valve manu. & model #	BALL Float OPW-233	BALL Float OPW-233	BALL Float OPW -233	
I. Backfill Type sand/gravel/crushed rock	Approved Crushed Clean 3/8" Stone			

J. Anchoring system, please describe. If subsurface water is above the base of the tank(s), an anchoring system will be required.: Dead-man Anchor Systems

K. A volumetric tank tightness test is required at the time of installation prior to operation to insure the system is tight. Documentation of tank and line tightness may be satisfied by providing printouts from automatic tank and line monitors if testor is licensed by the State of Kansas. Submit all test results to KDHE.

Method to be performed: Tank Monitor Printout and Tankology Tank Test

V. Release detection for Tanks: Tank release detection method must meet the requirements of EPA regulations parts 280.41 and 280.43. Check and identify all that apply.

Automatic Tank Gauge (manu.&model #: Veeder Root TLS 350 plus w/PLLD)

Statistical Inventory Reconciliation (give name of vendor NIA),

Tightness Test/Inventory Control,  Manual Tank Gauging,  Interstitial Monitoring,

Vapor Monitoring,  Groundwater Monitoring, Other (describe): \_\_\_\_\_

If Interstitial Monitor or Vapor Monitor, give manu. and

model#: Veeder Root TLS 350

VI. Product Line Information: Secondary containment/double wall piping is required for hazardous substances. An owner may consider using secondary containment/double wall piping if the facility is located within an environmentally sensitive area.

A. Type of lines: Material: APT-XP 1.75 D.W. Diameter: 1.75" Length: 500

B. Corrosion Protection: NIA

C. Product Distribution System:

1. Safe Suction (only one check valve located directly under pump).

2. Conventional Suction (circle one): Foot Valve or Angle Check

3. Pressure (submersible pump in tank). Proceed to next page for Product Line Monitoring.





DEPARTMENT OF HEALTH  
AND ENVIRONMENT

06884-  
8131  
Mark Parkinson, Governor  
Roderick L. Bremby, Secretary

www.kdheks.gov

July 14, 2009

Mr. Ed Hankel, I0749  
Seneca Construction LLC  
13915 Century Lane  
Grandview, MO 64030

**RE: Underground Storage Tank New Installation  
Casey's General Store #2826 (Fac. Id # TBA)  
2100 South 4<sup>th</sup> Street  
Leavenworth, KS 66048**

Dear Mr. Hankel:

I reviewed and approved the installation application for three new underground storage tanks at the above referenced facility on July 13, 2009. The enclosed "**installation permit**" is valid for 120 days from the date of this letter. If installation is delayed beyond 120 days, this approval shall be considered void, and a new application, supplemental documents, and additional permit fees will be required. Effective June 1, 2003, the 120-day **installation permit** will be issued in place of the 180 day "temporary operating permit." The installation permit is **issued to the KDHE licensed contractor** after payment of required fees and the application is submitted and approved by KDHE. Please notify KDHE in writing if the project is canceled.

A separate 120-day "temporary operating permit" will be **issued to the owner** when the installation is complete, and KDHE **has received the tank and line tightness tests** or other approved documentation of tightness. The "temporary operating permit" must be obtained prior to operating the tanks. Contact this office at (785) 296-8061 or toll-free (877) 221-0325 prior to the anticipated date of first use. There are various 3<sup>rd</sup> party approved methods of achieving verification of tank and line tightness. For approved tightness test methods, refer to the EPA list of Leak Detection Evaluations for Underground Storage Tanks or contact a KDHE licensed tightness tester.

The UST installer should contact our **Northeast District Office** at (785) 842-4600, at least five days prior to installation in order to schedule a facility inspection. **If a tank removal is planned, the district office must be notified 30-days prior to removal.**

DIVISION OF ENVIRONMENT  
Bureau of Environmental Remediation  
CURTIS STATE OFFICE BUILDING, 1000 SW JACKSON ST., STE. 410, TOPEKA, KS 66612-1367

Voice: 785-296-6372 Fax: 785-296-6190 email: [mmmeerian@kdhe.state.ks.us](mailto:mmmeerian@kdhe.state.ks.us)

<http://www.kdheks.gov/ber/index.html>

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July 14, 2009

Responsibilities of the contractor include:

- ! Obtaining and displaying the KDHE “**New Underground Storage Tank Installation Permit**”
- ! Using the KDHE form UST011 “**Underground Storage Tank System Tightness Test**” for reporting results of installation tightness tests to KDHE within 30 days of the test.  
(An ATG leak test will only be substituted for a tightness test if it is performed according to 3rd party certification parameters and passes the tank at the 0.1 gph leak test with the tank as full as overfill device allows.)
- ! Completing and signing page two of KDHE form UST007 - “**Notification with UST Compliance Verification.**”
- ! Forwarding copies of KDHE form UST007 - “**Notification with UST Compliance Verification,**” to the Tank Owner for review as soon after the installation as possible with instructions to sign and forward it to KDHE within 30 days of operation.
- ! Providing copies of the UST011 - “**Tightness Test**” and the third party certification of release detection equipment to the owner.

Responsibilities of the tank owner include:

- ! Providing KDHE with the **Certificate of 3<sup>rd</sup> Party Liability Insurance coverage** (or equivalent) on the newly installed underground storage tank(s) prior to placing a regulated substance in the tank.
- ! Signing and completing the owner and facility information on page one of UST007 - “**Kansas Registration Notification with UST Compliance Information**” form.
- ! Sending KDHE form UST007 - “**Notification with UST Compliance Information**” form to KDHE within **30 days** of putting the tank into use,
- ! Displaying the 120-day **Temporary Operating Permit** at the installation site, *and*
- ! Complying with release detection and inventory control reporting requirements.

The KDHE “annual UST operating permit” will be issued when KDHE receives all necessary forms, including the first 30 days of Inventory control records and the initial 90-day summary sheet of tank and line Release Detection. Please use the following address to send the information listed above:

Kansas Department of Health and Environment  
Bureau of Environmental Remediation  
Storage Tank Section  
1000 SW Jackson, Suite 410  
Topeka, KS 66612-1367

DIVISION OF ENVIRONMENT  
Bureau of Environmental Remediation  
CURTIS STATE OFFICE BUILDING, 1000 SW JACKSON ST., STE. 410, TOPEKA, KS 66612-1367  
Voice: 785-296-6372 Fax: 785-296-6190 email: [mmmeerian@kdhe.state.ks.us](mailto:mmmeerian@kdhe.state.ks.us)

<http://www.kdheks.gov/ber/index.html>

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Mr. Ed Hankel, I0749

Page 3

July 14, 2009

Note this approval covers the KDHE "Storage Tank Section" requirements only and does not extend to local, county, municipal, or State Fire Marshal regulations. Contractors are reminded to obtain all necessary permits before beginning construction.

Thank you for your continued cooperation.

Sincerely,



Marcus A. Meerian  
Environmental Scientist  
KDHE-BER-Storage Tanks

MAM:AMH

Enclosures: "Notification for Underground Storage Tanks with Compliance Information," "Underground Storage Tank System Tightness Test," and a "KDHE New UST Installation Permit."

cc: KDHE-NEDO, File

DIVISION OF ENVIRONMENT  
Bureau of Environmental Remediation  
CURTIS STATE OFFICE BUILDING, 1000 SW JACKSON ST., STE. 410, TOPEKA, KS 66612-1367

Voice: 785-296-6372 Fax: 785-296-6190 email: [mmmeerian@kdhe.state.ks.us](mailto:mmmeerian@kdhe.state.ks.us)

<http://www.kdheks.gov/ber/index.html>

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Mark Parkinson, Governor  
Roderick L. Bremby, Secretary

DEPARTMENT OF HEALTH  
AND ENVIRONMENT

[www.kdheks.gov](http://www.kdheks.gov)

July 14, 2009

Ms. Jill Reams-Widder  
Casey's General Store Inc.  
One Convenience Blvd.  
Ankeny, IA 50021

**RE: Underground Storage Tank New Installation  
Casey's General Store #2826 (Fac. Id # TBA)  
2100 South 4<sup>th</sup> Street  
Leavenworth, KS 66048**

Dear Ms. Reams-Widder:

I reviewed and approved the installation application for the above referenced facility on July 13, 2009. This approval is valid for 120 days. Effective June 1, 2003, the contractor will be issued a separate "installation permit" This permit allows for installation only and does not allow for "operation" of the tanks.

o **Responsibilities of the tank owner include:**

- Obtaining a **120-day Temporary Operating Permit** prior to operating the tanks. Call this office at (785) 296-8061 or toll-free (877) 221-0325 during business hours 3-5 days prior to the anticipated date of use. KDHE will issue a **120-day Temporary Operating Permit** when 1) the installation is complete, and 2) KDHE **has received the tank and line tightness tests** or other approved documentation of tightness and 3) KDHE has received the certificate of **3<sup>rd</sup> party liability insurance** or equivalent.
- Sending the signed "**Notification with UST Compliance Verification**" to KDHE within **30 days** of putting the tank into use (obtain the completed KDHE form UST007 "**Notification with UST Compliance Verification**" from your contractor, fill out the owner and facility information on the front and sign the "**Notification**" form.)
- Providing KDHE with the **Certificate of 3<sup>rd</sup> Party Liability Insurance coverage** (or equivalent) on the newly installed underground storage tank(s) prior to placing product in the tank(s),
- Displaying the **120-day Temporary Operating Permit\*\*\*** at the installation site, and

DIVISION OF ENVIRONMENT  
Bureau of Environmental Remediation  
CURTIS STATE OFFICE BUILDING, 1000 SW JACKSON ST., STE. 410, TOPEKA, KS 66612-1367

Voice: 785-296-6372 Fax: 785-296-6190 email: [mmeerian@kdhe.state.ks.us](mailto:mmeerian@kdhe.state.ks.us)

<http://www.kdheks.gov/ber/index.html>

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Ms. Jill Reams-Widder

Page 2

July 14, 2009

- Complying with release detection and inventory control reporting requirements:
  - Begin **inventory control**. You must provide a copy of the first thirty days of inventory control to KDHE for verification after the first month of operation.
  - Begin **monthly inventory control** using your leak detection method.

**\*\*\*Failure to hold and display a valid operating permit may lead to administrative action against the owner.**

The annual KDHE UST operating permit will be issued when KDHE receives 1) the initial "Inventory Control record," and 2) the "Notification with Compliance Verification," from the owner, plus 3) the tank and line "Tightness Test" from the contractor.

Use the following address to send the information listed above:

**Kansas Department of Health and Environment  
Bureau of Environmental Remediation  
Storage Tank Section  
1000 SW Jackson, Suite 410  
Topeka, KS 66612-1367**

An approval letter has also been provided to your KDHE licensed contractor. The UST installer has been instructed to contact our KDHE **District Office** at least 30 days prior to a removal of tanks and five days prior to installation in order to schedule a facility inspection.

**Responsibilities of the KDHE licensed contractor include:**

- ! Filling out the tank information on page one of the KDHE form UST007 - "**Notification**."
- ! Completing and signing page two of KDHE form UST007 - "**UST Compliance Verification**".
- ! Using KDHE form - UST011 "**Underground Storage Tank System Tightness Test**" for reporting results of tightness tests to KDHE within 30 days of the test. (An ATG must pass the tank at the 0.1gph leak rate according to 3<sup>rd</sup> party certification of equipment with the tank as full as overflow equipment will allow to be accepted as a tightness test)
- ! Certifying proper operation of release detection equipment and providing 3<sup>rd</sup> party certification of the equipment to the owner.
- ! Forwarding copies of the "**Notification with UST Compliance Verification**," to the Tank Owner as soon after the installation as possible with instructions to forward to KDHE.

Please note: this approval covers the KDHE "Storage Tank Section" requirements only and does not extend to local, county, municipal, or State Fire Marshal regulations. Contractors

DIVISION OF ENVIRONMENT  
Bureau of Environmental Remediation  
CURTIS STATE OFFICE BUILDING, 1000 SW JACKSON ST., STE. 410, TOPEKA, KS 66612-1367

Voice: 785-296-6372 Fax: 785-296-6190 email: [mmeerian@kdhe.state.ks.us](mailto:mmeerian@kdhe.state.ks.us)

<http://www.kdheks.gov/ber/index.html>

Printed on Recycled Paper



Ms. Jill Reams-Widder

Page 3

July 14, 2009

and owners are reminded to obtain all necessary permits before beginning construction. Thank you for your continued cooperation.

Sincerely,



Marcus A. Meerian  
Environmental Scientist  
KDHE-BER-Storage Tanks

MAM:AMH

Enclosures: "Kansas Storage Tank Program Overview of Underground Storage Tank Requirements," owner checklist, and a copy of the application and installation permit.

Pc: (file, KDHE-NEDO)



**KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT  
NEW UNDERGROUND TANK INSTALLATION  
PERMIT #160  
VALID THROUGH November 13, 2009**

**Owner ID: 06884  
Casey's General Store Inc.  
One Convenience Blvd.  
Ankeny, IA 66002**

**Facility ID: TBA  
Casey's General Store #2826  
2100 South 4<sup>th</sup> Street  
Leavenworth, KS 66048**

Tank No(s). U001, U002, U003

KDHE LICENSED INSTALLER: Ed Hankel

**KDHE LICENSED CONTRACTOR: Seneca Construction LLC**

ISSUE DATE: July 13, 2009

**(POST THIS PERMIT IN A VISIBLE LOCATION)**

THIS PERMIT WILL ALLOW ONLY THE INSTALLATION OF NEW UNDERGROUND STORAGE TANKS AT THIS FACILITY. THIS PERMIT AUTHORIZES A ONE-TIME DROP OF FUEL FOR TANK AND LINE TIGHTNESS TESTING ONLY.

TANK OWNERS MUST CONTACT KDHE TO OBTAIN A "120-DAY TEMPORARY OPERATING PERMIT" PRIOR TO PLACING THE TANKS IN SERVICE. TANK OWNERS MUST SUBMIT THE KDHE FORM UST007 – "KS REGISTRATION NOTIFICATION with COMPLIANCE VERIFICATION" TO KDHE WITHIN 30 DAYS OF THE INSTALLATION OF NEW UNDERGROUND STORAGE TANKS. TANKS NOT INSTALLED BY THE EXPIRATION DATE WILL REQUIRE A NEW APPLICATION.

Bank of America Advantage®

CARRI M. GILL  
GREG R. GILL  
913-685-2712  
6240 W. 156TH ST.  
OVERLAND PARK, KS 66223-3621


3600

18-3/1010-MO  
2615

Date 7-13-2009

Pay KDHE \$ 60.00  
to the order of

SIXTY & 00/100 Dollars

 Security features are included. Details on back.

Bank of America



ACH R/T 081000032

CASEY'S LEAVENWORTH LIST'S

*Advantage*  
G R Gill MP

⑆ 101000035⑆ 030263238236⑈ 3600

### New Underground Storage Tank System Installation Application

(Petroleum Products and Hazardous Substances)

An application fee of \$20.00 per tank must accompany this application. This completed application form and installation plan(s) must be submitted to KDHE, a minimum of ten (10) days prior to the proposed installation date.

KDHE USE ONLY:

Submit to: **Kansas Department of Health and Environment  
Bureau of Environmental Remediation  
Storage Tank Section**

1000 SW Jackson, Suite 410  
Topeka, KS 66612-1367

Phone: 785-296-8061  
Fax: 785-296-6190

State of Kansas - Division of Environment  
**APPROVED**

When constructed to conform with Art. 44

Date: 7-13-09

By: Marion A. Morrison

Please Print Clearly or Type

#### I. Facility Information

- A. Facility Name: Casey's General Store #2826
- B. Facility Address: 2100 S 4th St Leavenworth KS 66048  
(street) (city) (state) (zip)
- C. Contact Person: Jill Reams-Widder Phone: (515) 965-6238  
(street) (city) (state) (zip)
- D. Legal Location: 2100 S 4th St County: Leavenworth
- E. Qtr. Section: NE Corner of SW 4th Section 1 Township 9 Range 22-E  NW (circle one)
- F. New facility? Yes Existing facility?        If existing, number of tanks already at this location:
- G. Are tanks to be taken out of service due to this new installation? No  Yes        How many?
- H. Will new tank(s) occupy old tank excavation? Yes        No  If "Yes," how many?
- I. Have tank or line failures lead to this proposed new installation? Yes        No   
If yes, to whom was the leak reported?
- J. If failures have occurred, please briefly describe the incident:

- K. Is this facility in the State Trust Fund for environmental cleanup? Yes  No
- L. Number of monitoring devices already at this location:  
1. Groundwater monitoring wells        2. Observation tubes: 3  
3. Other (please describe):
- M. Is the facility located on Native American reservation or trust lands? Yes:        No:

#### II. Tank Owner Information

- A. Owner Name: Casey's General Stores Inc.
- B. Owner Address: One Convenience Blvd Ankeny IA 50021  
(street) (city) (state) (zip)
- C. Contact Person: Jill Reams-Widder Phone: (515) 965-6238  
Email: jillreamswidder@caseys.com Fax: (515) 965-6161
- D. Owner Type: State/Local Government        Federal        Private  Retail

#### III. Contractor Information

- A. Company Name: Seneca Construction LLC Lic. No. and Exp. Date: 0330 3-07-09
- B. Company Address: 13915 Century Lane Grandview MO 64030  
(street) (city) (state) (zip)
- C. Individual Licensee: 07491 Lic. No. and Exp. Date 07491 11-18-09
- D. Contact Person: Edward D Hankel Phone: (816) 761-7369  
Email: ehankel@senecaco.com Fax: (816) 761-8351
- E. List other contractors and their duties:



**IV. Tank Information**

(Note: Double wall tanks are required for hazardous substances. An owner may consider using secondary containment/double wall tanks if the facility is located within an environmentally sensitive area.)

Tank Numbers:	001	002	003	
A. Type of Tank FRP/STIP3/ACT-100	FRP	FRP	FRP	
B. 3 <sup>rd</sup> party certification UL no./ASTM no./ACT-100				
C. Dble/Sngl Wall	DBLE-Wall	DBLE-WALL	SPLIT	
D. Tank Capacity (gals)	20,000	20,000	12,000 - 8000 split	
E. Tank Dimensions Length, diameter	10'x37'	10'x37'	---	
F. Manufacturer	Containment Solutions			
F. Product Stored	Gas	Gas	Diesel	
G. Spill Prevention manu. & model #	EBW-15 Gal.	EBW-15 Gal	EBW-15 Gal	
H. Overfill Prev. auto. shutoff/audible alarm/ball float valve manu. & model #	BALL Float OPW-233	BALL Float OPW-233	BALL Float OPW-233	
I. Backfill Type sand/gravel/crushed rock	Approved Crushed Clean 3/8" Stone			

J. Anchoring system, please describe. If subsurface water is above the base of the tank(s), an anchoring system will be required.: Dead-man Anchor Systems

K. A volumetric tank tightness test is required at the time of installation prior to operation to insure the system is tight. Documentation of tank and line tightness may be satisfied by providing printouts from automatic tank and line monitors if testor is licensed by the State of Kansas. Submit all test results to KDHE.

Method to be performed: Tank Monitor Printout and Tanknology Tank Test

V. Release detection for Tanks: Tank release detection method must meet the requirements of EPA regulations parts 280.41 and 280.43. Check and identify all that apply.

- Automatic Tank Gauge (manu. & model #: Veeder Root TLS 350 plus w/PLLD)
- Statistical Inventory Reconciliation (give name of vendor NIA),
- Tightness Test/Inventory Control,  Manual Tank Gauging,  Interstitial Monitoring,
- Vapor Monitoring,  Groundwater Monitoring, Other (describe): \_\_\_\_\_

If Interstitial Monitor or Vapor Monitor, give manu. and model#: Veeder Root TLS 350

VI. Product Line Information: Secondary containment/double wall piping is required for hazardous substances. An owner may consider using secondary containment/double wall piping if the facility is located within an environmentally sensitive area.

- A. Type of lines: Material: APT-XP 1.75 D.W. Diameter: 1.75" Length: 500
- B. Corrosion Protection: NIA
- C. Product Distribution System:
  - 1. Safe Suction (only one check valve located directly under pump).
  - 2. Conventional Suction (circle one): Foot Valve or Angle Check
  - 3. Pressure (submersible pump in tank). Proceed to next page for Product Line Monitoring.

**VII. Product Line Monitoring:** Line release detection method must meet the requirements of EPA regulations parts 280.41 and 280.43.

A. Line Release Detection - All lines: X <sup>PLLD</sup> Electronic Line Monitor, \_\_\_\_\_ Statistical Inventory Reconciliation, \_\_\_\_\_ Tightness test/Inv. Control, X Interstitial Monitoring, \_\_\_\_\_ Vapor Monitoring,

Other (describe): \_\_\_\_\_ Give manufacturer and model of if electronic line monitor, interstitial monitor, or vapor monitor checked: \_\_\_\_\_

B. Additional Release Detection - pressurized lines only: X Electronic line monitor, \_\_\_\_\_ Flow Restrictor, \_\_\_\_\_ Shutoff Device, X Continuous alarm. Give manufacturer and model of pressurized line release detection Voeder Root TLS 350 PLLD

**VIII. Plans and Notification Form**

\*\* Proposed Installation Date: 1-5-09

This completed application form and installation plan(s) must be submitted to KDHE in Topeka, a minimum of ten (10) days prior to the \*\*proposed installation date. Plans should document the location of the tanks, islands, dispensers, lines and vents, monitoring equipment, observation tubes, nearby structures, utilities, and property boundaries. Include a scale and north arrow. Please refer to the checklist below to assure that site plans are complete. Any changes to the proposed plans must be approved prior to installation. As-built drawings and the UST Compliance Verification must be submitted within 30 days of the completion of the installation. Copies of the submitted data should be provided to the facility owner.

**IX. Checklist for Submission of Site Plans**

Item on Site Plan	Yes	No
Location of tank(s), islands, and dispensers.	<u>X</u>	
Location of lines and vents.	<u>X</u>	
Location(s) of monitoring equipment.	<u>X</u>	
Location(s) of observation tubes.	<u>X</u>	
Locations of nearby structures	<u>X</u>	
Locations of utilities.	<u>X</u>	
Locations of property boundaries.	<u>X</u>	
Scale.		
North Arrow.		

RECEIVED  
 JUL 18 2009  
 DIVISION OF  
 ENVIRONMENTAL PROTECTION

**X. Applicant's Certification**

I certify that the information above is true to the best of my knowledge and that all equipment will be installed in compliance with the manufacturers' installation requirements. This installation will be performed in compliance with all federal, state, and local regulations.

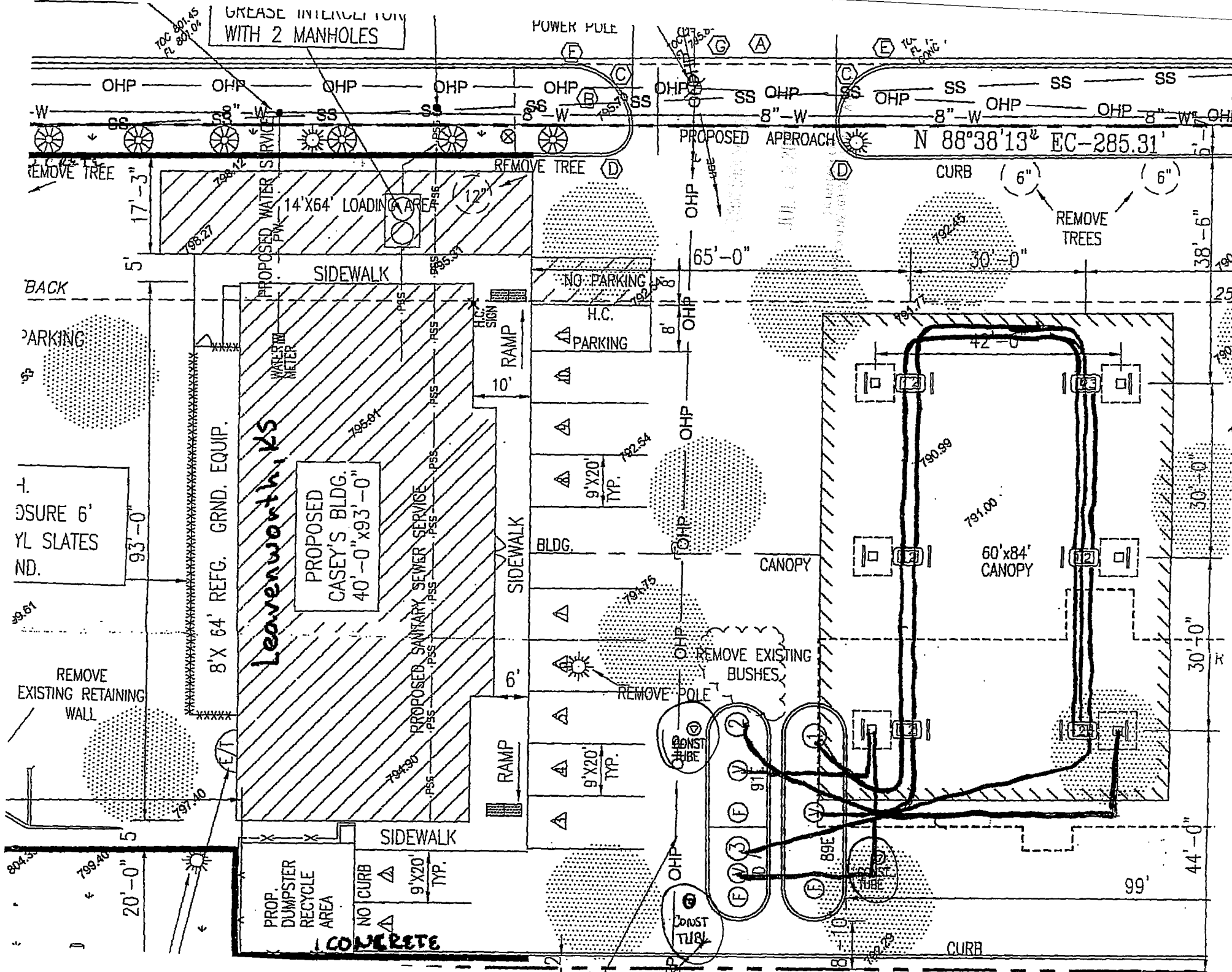
[Signature]  
 Owner's Signature

[Signature]  
 KDHE Licensed Installer Signature

12/17/08  
 (date)

12-18-08  
 (date)

Please direct questions regarding installation of USTs to KDHE, Storage Tank Section, 785-296-8061. Regulations requiring the installation of observation tubes in tank excavations follow on the next page.



GREASE INTERCEPTOR WITH 2 MANHOLES

POWER POLE

14'X64' LOADING AREA

**Leavenworth St**

PROPOSED CASEY'S BLDG.  
40'-0" X 93'-0"

PROPOSED SANITARY SEWER SERVICE

BACK

PARKING

INSURE 6' CYL SLATES IND.

REMOVE EXISTING RETAINING WALL

PROP. DUMPSTER RECYCLE AREA

CONCRETE

NO PARKING

H.C. PARKING

9'X20' TYP.

BLDG.

9'X20' TYP.

9'X20' TYP.

CANOPY

60'X84' CANOPY

CONST. CURB

CONST. TUB

CURB

17'-3"

93'-0"

20'-0"

SIDEWALK

SIDEWALK

SIDEWALK

RAMP

10' RAMP

65'-0"

30'-0"

38'-6"

30'-0"

30'-0"

44'-0"

N 88°38'13" EC-285.31'

CURB (6")

REMOVE TREES

PROPOSED APPROACH

OHP

OHP

OHP

OHP

OHP

OHP

OHP

OHP

OHP

OHP

W

SS

SS

SS

SS

SS

SS

SS

SS

SS

SS

PROPOSED WATER SERVICE

WATER METER

H.C. SIGN

OHP

OHP

OHP

OHP

OHP

OHP

PROPOSED APPROACH

CURB (6")

CURB (6")

CURB (6")

CURB (6")

CURB (6")

PROPOSED WATER SERVICE

SIDEWALK

PROPOSED CASEY'S BLDG.  
40'-0" X 93'-0"

PROPOSED SANITARY SEWER SERVICE

SIDEWALK

RAMP

10' RAMP

65'-0"

30'-0"

38'-6"

30'-0"

30'-0"

44'-0"

N 88°38'13" EC-285.31'

CURB (6")

REMOVE TREES

PROPOSED APPROACH

OHP

OHP

OHP

OHP

OHP

OHP

OHP

OHP

OHP

OHP

W

SS

SS

SS

SS

SS

SS

SS

SS

SS

SS

PROPOSED WATER SERVICE

WATER METER

H.C. SIGN

OHP

OHP

OHP

OHP

OHP

OHP

PROPOSED APPROACH

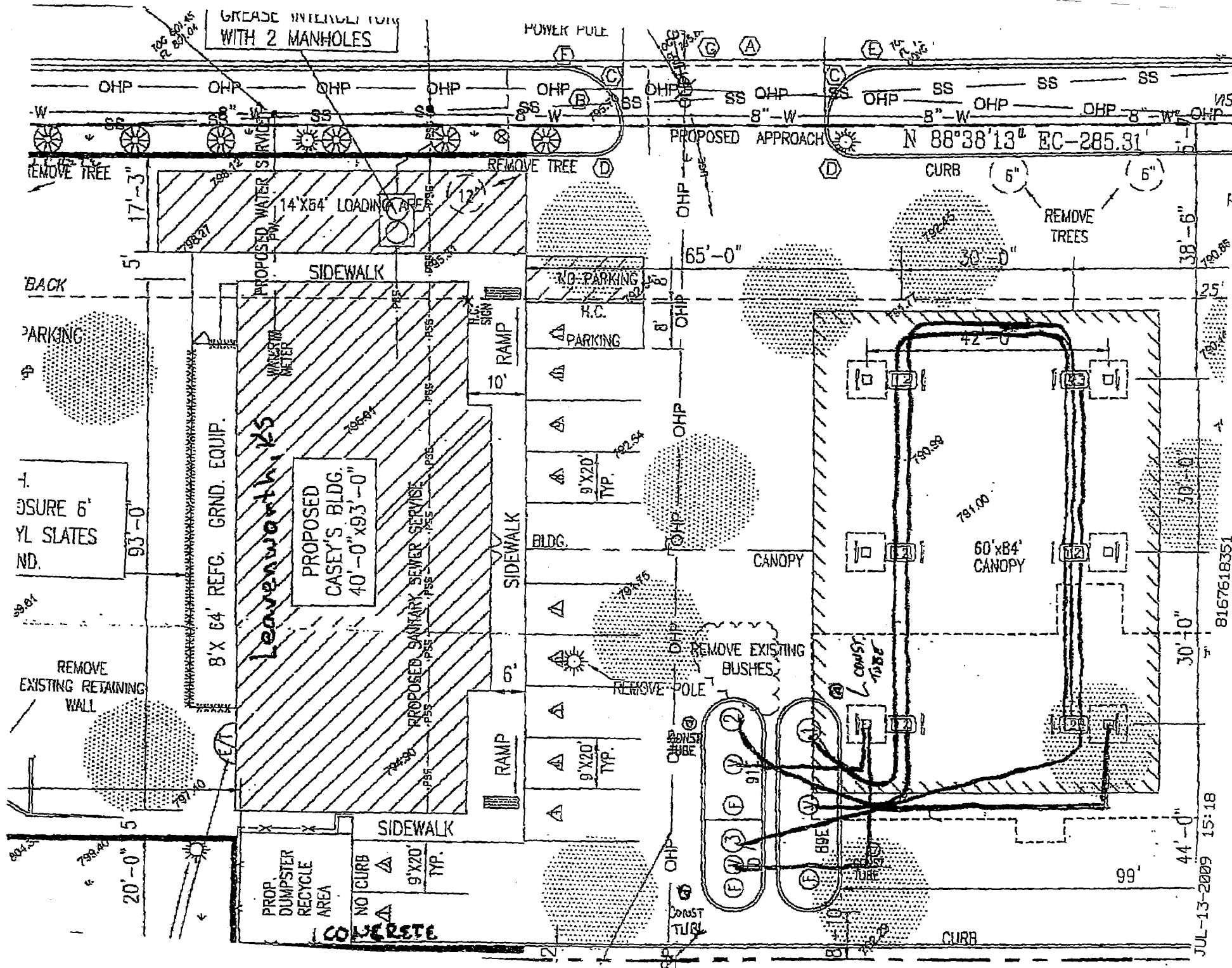
CURB (6")

CURB (6")

CURB (6")

CURB (6")

CURB (6")



CASEY'S FIELD SUPPORT

12-14

Work Order

282405

G STORE

Store LEAVENWORTH

State KS#3

Date Shipped

12-10-08

Date Called In

Called In By

Store #

3  9

Resale

#2826

Pulled By

TR

Date Revised: 02/02

Page 5 of 24

Check By

JR

*Signature*

Trk No	Quantity Ordered	Quantity Shipped	BO	Part Number	BRASS LOAD	Unit Price	TOTAL
01	24	24	-	260800	Tank Anchor	111B	
01	24	24	-	260816	Turn Buckle	111B	
01	1	1	-	601250	Tank Stick	114E	
01	2	2	-	260760	Epoxy Coating (2 part)	114B	
01				610910	Brick (Building & Ref. fence area)	41B	
01				610910	Brick ( Monument sign = 1,680brick )	41B	
01	105	105	-	610911	Brick Solid	41B	
01				610911	Brick Solid (30-lowa can shed)	41B	
01	1	1	-	311421	Roof Curb 21"		
01	2	2	-	311418	Roof Curb 18"		
01							
01							
01							
01					VAPOR RECOVERY ITEMS		
01					STAGE 1 AND 2		
01	3	3	-	260722	3" Orange Cap #OPW1711T-7085	114B	
01	3	3	-	260723	3"x4" Adpater #OPW1611AV-1620	114B	
01				260632	2" Entry Boot	114B	
01				260335	Manhole 18" EBW 781-318-18	114B	
01				100648	4" X 48" Black Nipple (VERIFY)	114B	
01				100645	4" X 42" Black Nipple (VERIFY)	114B	
01				260623	Extractor Tee 4" x 2" EBW 330-300-01	114B	
01				260620	Ball Float 2" EBW 308-205-01-7"	114B	
01				260616	Ball Float 2" EBW 308-209-01-16"	114B	
01							
01				260728	V/ Rec-2"Vent Cap(Assist/Balance)#OPW623V2203	114B	
01				260774	V/ Rec-3"Vent Cap(Assist/Balance)#OPW623V3203	114B	
01							
01				260729	Shear Valve(Vapor Saver) #60VP-1001	114B	
01							
01							

Office Copy - White Invoice Copy - Green Purchasing - Canary Driver's Copy - Pink Job Copy - Goldenrod

Job Site Signature \_\_\_\_\_

CASEY'S FIELD SUPPORT

Work Order 2826001

Store LEAVENWORTH State KS#3

Date Shipped 12-10-08

Date Called In \_\_\_\_\_

#2826

Called In By \_\_\_\_\_

Store #    3  9

Resale

Pulled By T.R.

Date Revised: 01/01

Check By [Signature]

Trk No	Quantity Ordered	Quantity Shipped	BO	Part Number	PETROLEUM UPDATE		Unit Price	TOTAL
					114B			
01	12	12	-	260633	Entry Boot 3/4"-1"	APT FEB-075D		
01	12	12	-	260632	Entry Boot 2"	APT FEB-175SC		
01	3	3	-	100762	Galv Union 2"			
01	3	3	-	100600	Blk Nipple 4"x6"			
01	3	3	-	100953	3" Blk plug			
01	16	16	-	260378	Flex hose 1 1/2"x18"x2"	HoseMaster-Fireshield		
01	6	6	-	100012	2" 90° Galv Elbow			
01	1	1	-	260940	Monitor manhole 18"	OPW 104AOW-1800		
01	3	3	-	260622	Extractor tee 3"x4"	EBW 331-300-21		
01	3	3	-	260621	Ball Float-3"x21"	EBW 308-300-21		
01	3	3	-	240130	Fill cap 4"	OPW 634TT-7085		
01	1	1	-	260725	Alum. Cap 8"	Royer-Locking		
01	3	3	-	260388	Flex hose 2"x18"x2"	HoseMaster-Fireshield		
01	6	6	-	250395	Probe Cap 4"-MOR-305XPA-0200	AK		
01	12	12	-	260700	U-Shaped Crash Post 42"			
01	6	6	-	260630	Cont. Box quad	APT-LMM3617-36		
01	16	16	-	100411	Galv Nipple 1 1/2" x 11"			
01	3	3	-	103030	Blk Nipple 4"x36"			
01	12	12	-	100500	Galv Shoulder Nipple 2"x2 1/2"			
01	3	3	-	100636	Blk Nipple 4"x14"			
01	16	16	-	240318	Shear Valve OPW #10BFP-5726			
01	6	6	-	260905	Island Form 3' x 5'			
01	3	3	-	240230	Brass extractor cap 4"	MOR 578		
01	3	3	-	260885	Cont Well 5 Gal Grade Level	EBW 400CSSPR		
01	3	3	-	260886	Cont Well 5 Gal Grade Level Adapter	(EBW 400CSSPR)		
01	3	3	-	260335	Manhole-18"-W/18" sleeve	EBW 761-418-18STL		
01	3	3	-	240267	Ball valve 2"	CSI-2" FULL PORT U/L BALL		
01	3	3	-	230348	Sub Pump-Fe Petro	ISTR2-15		
01					4" X 48" Blk Nipple			
01								
01								

*[Handwritten signature]*

CASEY'S FIELD SUPPORT

Work Order

2826004

G STORE

Store LEAVENWORTH

State KS#3

Date Shipped

12-10-08

Date Called In

#2826

Called In By

Store #

3  9

Resale

Pulled By

*J.R.*

Date Revised: 02/02

Page 4 of 24

Check By

*J.R.*

Trk No	Quantity Ordered	Quantity Shipped	BO	Part Number	BRASS LOAD	Unit Price	TOTAL
01	3	3	-	260759	Manhole-39" 114B		
01				260756	Manhole sleeve-39" 114B		
01	1	1	-	102920	Inspection Tube 8" PVC-16' (IL requires 2) 114B		
01	1	1	-	102900	8" PVC Cap (IL requires 2) 114B		
01				260940	Manhole-Monitor-18"-Locking-OPW104A1800 114B		
01				260725	8" Aluminum Locking Cap (IL requires 2) 114B		
01	1	1	-	102930	8"PVC Solid Pipe-20' (KS. only) 114B		
01	1	1	-	102910	8"PVC Coupler (KS. only) 114B		
01	1	1	-	620590	Sign Base Cage (Not needed w / monument) 31B		
01	6	6	-	620804	Canopy Cage -4 bolt 16"center (All Canopies) 31B		
01				430220	Bolt 3/4"x 30" Anchor - Ap. Light 114B		
01				430225	Approach Light Template (wood-8"CC) 114B		
01	2	2	-	260354	2" Vent Cap <i>MARLSON 354</i> 114B		
01	1	1	-	260373	3"Vent Cap <i>EGW 800-3"</i> 114B		
01					4" Fill Adapter (bronze) 114B		
01	3	3	-	260301	4"x15' Drop Tube <i>MAR 419</i> 114B		
01				260303	OPW 61SO4010 Drop Tube w/ Flapper 114B		
01	3	3	-	601340	Master Lock #3LH 114B		
01	18	18	-	250615	Withproof Conn. 3/4" (4 per tank+ 1 ea disp) 114B		
01	18	18	-	250620	Withproof Washer 3/4" (4 per tank + 1 ea disp) 114B		
01	9	9	-	250630	Withproof Jct. Box (1 per tank+ 1 ea disp) 114B		
01	6	6	-	250610	Withproof Conn. 3/8" 114B		
01				310214	Piping Box (Brick Wall) 51B		
01	1	1	-	310121	Piping Box (Ribbed Metal Wall) 51B		
01	10	10	-	610850	Bollards- 8" (Dumpster Enclosure) 51B		
01				600824	Detectable Warning Tile 24" x 24" Yellow 34B		
01				600825	Detectable Warning Tile 24" x 36" Yellow 34B		
01	7	7	-	600826	Detectable Warning Tile 24" x 48" Yellow 34B		
01	2	2	-	600827	Detectable Warning Tile 24" x 60" Yellow 34B		
01	3	3	-	240285	Extractor Test Plug <i>391-201-07</i> 114B		
1	4	4	-	260629	SBK-3 Stabilizer Bar Kit 114B		

recharging - Canary Driver's Copy - Pink Job Copy - Goldenrod

Job Site Signature

*Paul Wilson*



UNDEVELOPED SUPPORT

WORK Order

ADOREUX

U STORE

Store: 1 EAVENING ②

State KS

Date Shipped

2-19-09

Date Called In

Called In By

Store #

3 9

Resale

Pulled By

Date Revised: 09/08

Page 6 of 24

Check By

2026

Trk No	Quantity Ordered	Quantity Shipped	BO	Part Number	FIRST LOAD	Unit Price	TOTAL
01					Outside Corner	62B	
01	68	68	-	610410	FRP Board 4x10	62B	
01	27	27	-	611723	FRP BD. I/S Corner (2pc)	62B	
01	8	8	-	611648	FRP BD. O/S Corner "F"	62B	
01	8	8	-	611720	FRP BD. O/S Corner (2pc)	62B	
01	12	12	-	610795	FRP BD. Edging "J"	62B	
01	57	57	-	611727	FRP BD. Splice "T"	62B	
01	2	2	-	611646	FRP BD. Splice "H"	62B	
01	8	8	-	610533	Window 4040 w/transom	63B	
01	6	6	-	610534	Window mullion - 48" w/gasket & screws	63B	
01	8	8	-	610431	Vulkem Joint Caulking#116 Bronze	41B	
01	18	16	-	610439	Vulkem Joint Caulking#116 Redwood	41B	
01	100'	100	-	610436	Backerod 1/2" ( joint )	41B	
01	5	5	-	610475	Silicone-Sikaflex-Gray	51B	
01							
01	2	2	-	611700	Door-Service Side-Bronze	62B	
01							
01				610911	Brick Solid	41B	
01							
01				611795	Door-Steel 3670 w/jamb	62B	
01							
01	4	4	-	290401	3+0 ENGINE SEED DISPENSER		
01							
01							
01	2	2	-	290402	3+1 ENGINE SEED DISPENSER		
01							
01							

*Roller*

Office Copy - White Invoice Copy - Green Purchasing - Canary Driver's Copy - Pink Job Copy - Goldenrod

Job Site Signature

YS FIELD SUPPORT

Store LEAVENWORTH State KS

Work Order 282615  
Date Shipped 4-7-09

O STORE

Date Called In

Called In By

Pulled By

Check By

Store #

3  9

Resale

Date Revised: 10/08

Page 15 of 24

2826

Trk No	Quantity Ordered	Quantity Shipped	BO	Part Number	Environ/Encore FINAL LOAD	Unit Price	TOTAL
01	12	12		280400	Unleaded Nozzle Husky 159404-1+X 114E		
01	16	16		260688	Break Valve 33620 114E		
01	16	16		260689	Break Hose 124021 114E		
01	16	16		260010	Swivel 3/4" x 3/4" HWS 0350-6 114E		
01	16	16		260172	Hose 3/4" x 10' GARDNER HARDWARE 114E		
01				<del>290401</del>	Gilbarco Enc. #ENC500SNN1w/Grind (3+0) 114E		
01				<del>290402</del>	Gilbarco Enc. #ENC500SNL1w/Grind (3+1) 114E		
01	6	6		290409	Gilbarco Enc Dispenser Canopy 114E		
01	4	4		240051	Diesel Low Flow Nozzle 11A-0100 114E		
01	4	4		260679	Diesel Filter 400-30 CUMTEK 114E		
01	12	12		290695	Gilbarco Gas Filter 400-10 CUMTEK 114E		
01	16	16		100781	1 1/2" Union #250 114E		
01	12	12		290587	By Pass Cap 114E \$ .01 each		
01				<del>100411</del>	Galv Nipple 1 1/2" x 11" 122B		
01	<del>4</del>	<del>0</del>	<del>1</del>	<del>402500</del>	Siren (Large-for canopy) 114E		
01	1	1		402501	Siren (Small-for building) 114E		
01							
01							
01					<b>Vapor Vacuum Assist System</b>		
01				280772	Nozzle(Assist) HUS#V34 114E		
01				280744	Break Valve(Assist) #86CAS-0300 114E		
01				260743	Break Hose(Assist) #12" X 7/8 114E		
01				260742	Gas Hose(Assist) #9/8" X 7/8 114E		
01							
01					<b>Vapor Balance System</b>		
01				260775	Nozzle (Balance) Hus-5010-4 114E		
01				260733	Break Valve(Balance) #OP86CL 114E		
01				260740	Break Hose(Balance)#MP 5/8" x 12' GDY 114E		
01				260791	Hose(Balance) #MPP 5/8" x 7 1/2' GDY 114E		
01							

*[Handwritten Signature]*

Office Copy - White Invoice Copy - Green Purchasing - Canary Driver's Copy - Pink Job Copy - Goldenrod

Job Site Signature \_\_\_\_\_

CASEY'S FIELD SUPPORT

Work Order

2826009

G STORE

Store LEAVENWORTH State KS

Date Shipped

2-19-09

Date Called In

Called In By

Store #

3 9

Resale

Pulled By

Date Revised: 11/08

Page 9 of 24

Check By

T.R.

2826

Trk No	Quantity Ordered	Quantity Shipped	BO	Part Number	FIRST LOAD	Unit Price	TOTAL
01	2	2	-	601260	Emergency Exit Sign-LED-Battery Backup 122B		
01	1	1	-	601270	Emergency Combo Exit Sign LED 122B		
01	2	2	-	601271	Emergency Light-Battery Backup 122B		
01	6	6	-	401221	Relay Box - Large(12"x18"x4") 114B		
01	2	2	-	310500	Contactora-Pizza 122B		
01	1	1	-	310501	Contactora-T Iohn Fryer 122B		
01	2	2	-	310502	Contactora-Donut 122B		
01	3	3	-	400075	ITE Disconnect 122B		
01	1	1	-	270565	Decal-Exit Light Relay Box 122B		
01	1	1	-	270575	Decal-Fire Ext. Relay Box 122B		
01	1	1	-	270570	Decal-Tank/Line Monitoring Box 114B		
01	1	1	-	270580	Decal-Pump Relay Jct. Box 114B		
01	1	1	-	230300	Veeder Root TLS-350 Monitor 114B		848290-022
01	3	3	-	230306	Veeder Root TLS-350 Probe 114B		846390-109
01	2	2	-	230315	Veeder Root TLS-350 Install/Float kit-Gas 114B		846400-010
01	3	3	-	230320	Veeder Root TLS-350 PLLD Kit 114B		848420-001
01	1	1	X	230305	CSLD Software 114B		330160-002
01	1	1	-	230271	Veeder Root TLS-350 Install/Float kit-Diesel 114B		846400-011
01	2	2	-	230455	Interstitial Sensor-UGST-Non Discriminating 114B		794390-409
01	3	3	-	230349	VFC Controller FE Petro 114B		
01	1	1	-	230308	Veeder Root TLS-350 Module 114B		329358-001
01	1	1	-	230309	Veeder Root TLS-350 Expansion Module 114B		
01	9	9	-	230302	Smp Sensor-Per Tank or Dispenser 114B		794380-208
01	11	11	-	230303	Smp Sensor Install Kit-Per Tank or Dispenser 114B		330020-012
01					Light Manager-3 Island 122B		
01					Light Manager-4 Island 122B		
01	1	1	-	430806	Light Manager-6 Island 122B		
01					Light Manager-8 Island 122B		
01							

Issing - Canary Driver's Copy - Pink Job Copy - Goldenrod

Three empty boxes for document tracking.

Job Site Signature

Handwritten signature: Paul Peterson



7/13 14:59		ESTIMATION SUMMARY			EDH-0430		EQUIPMENT		Total GP%	
TX ST: KS: 7.300							FREIGHT			
Cust #		JOB TYPE: A40					INSTALL			
CUST Casey's Retail Companies		SHIP TO:					Equip Sales Tx \$ -		Inst Sales Tx \$ -	
One Convenience Blvd		Casey's General Store #					TOTAL		Total Cost	
Ankeny, IA 50021-8045		2100 south 4th street					EQUIP COST			
ATTN Gela Karas		Leavenworth, KS 66048					INSTALL COST			
PROJ Casey's Retail Companies							\$ PROF/Equip			
REF New O-Style Store Onawa, Iowa							% PROF/Equip			
Registration#		LUST #					% PROF/Install			
QTY	MU	DESCRIPTION	UNIT COST	USE TAX	TOTAL UNIT COST	UNIT SELL	UNIT PROFIT	PROFIT	TOTAL	

**Piping Materials**

- Ameron FIB-2" BELL X MALE
- Ameron FIB2" FIBERGLASS PIPE
- Ameron FIB 2" 45 ELBOW 1 PIECE
- FIB 2" FIBERGLASS SLEEVE
- Ameron COUPLING
- FIB 2" FIBERGLASS 90 ELOBWS
- Ameron 3" FIBERGLASS PIPE
- Ameron FIB-BOSTIC
- Ameron 3" FIBERGLASS ELBOW 1 PIECE
- 3" FIBERGLASS 45 ELBOW 1 PIECE
- Ameron 3" FIBERGLASS COUPLING
- Ameron 2" BELL X FEMALE
- Ameron FIB-2" BELL X FEMALE
- Ameron FIB-GLUE KIT 6-PACK
- APT 1.75-SC- DOUBLEWALL FLEX
- APT PIPE
- APT 1.75 X 2" MALE SWIVELS
- APT FITTINGS
- APT APT TEST BOOT SBT-175
- APT APT BY PASS TUBE
- APT APT REGULATOR KITS

### APT Installation Checklist & Warranty Start-up Form

Site Owner: Deid  
 Site Address: 2100 South 4th Street  
 Site Phone Number: \_\_\_\_\_  
 City: Leavenworth State: KS Zip: 662048  
 Owner/Operator: \_\_\_\_\_  
 Installation Completion Date: 3-4-09

Installation Contractor: Seneca Co.  
 Address: 13915 Century Lane  
 City: Grandview State: MO Zip: \_\_\_\_\_  
 Telephone: 816-761-1270  
 Distributor: Seneca Companies

Complete Fuel Transfer & Containment System utilizes all APT Products

#### Pre-Installation Check:

- Installer has copy of Installation Guide
- Installer has visually inspected all materials for shipping and storage damage

#### Tank Information:

- New Tanks
- UST Manufacturer: CONTAINMENT SOLUTIONS

#### Tank Installation Information:

- Tanks Anchored
  - Deadman Anchoring
  - Tank Tie-Down Slab

#### Tank Excavation Information:

- High Water
- Has site ever been Contaminated/Remediated

#### Trenching:

- Excavation depth allows for 4" bedding
- Bedding installed, graded, and has proper slope
- Width is sufficient to accommodate all runs of pipe with proper spacing
- Minimum pipe burial depth verified
- Direction changes wide enough to accommodate proper bend radii

#### Bedding and Backfill:

- Clean sand
- Pea gravel
- Crushed stone (1/8" to 3/4")

#### Tank Sumps, Dispenser Sumps, Intermediate Sumps, Etc.:

- Tank sumps mounted to tanks using approved method
- APT Tank Sump: N/A
- Model #: \_\_\_\_\_
- APT Dispenser Sump: \_\_\_\_\_
- Model #: LBM 3600

APT Factory Certified Installer

Print Name: HERB WELCH

Signature: Herb Welch

As owner/operator I have read and comprehend the APT warranty document FFS-0012.

Print Name: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

This form must be properly completed, signed and returned to FFS no later than 60 days after the installation of the APT products.

#### Fittings:

- Clamshell
- Swage

#### Piping:

Total footage installed at this site: 496'  
Flexpipe Model #: XP-175 Date Code: 1-15-08

#### Primary Piping:

- Fittings installed properly with clamps tightened metal to metal
- All 45 degree, 90 degree, elbows and T's rated at 150 LB schedule 40 or greater
- Primary pipe tested (not to exceed 100 PSI)
- All metal fittings installed in accessible sumps

#### Secondary Containment:

- Scuff guard cut outside of sump wall
- Secondary containment jacket has been stripped to proper length
- All secondary containment air test boots properly installed
- Secondary containment air test performed between 5-8 PSI

#### Ducting:

- Ducting installed
- Ducting air test performed at 3 PSI

#### Installation Procedures:

- All piping runs installed with proper spacing

#### Final Inspection:

- Air relieved from secondary containment jacket
- Secondary air test boots loosened to allow free flow
- Air relieved from primary lines
- Back filled to grade with finish surface installed

#### Site Completion:

- Concrete
  - Total inches over pipes 24"
- Asphalt
  - Total inches over pipes \_\_\_\_\_



**Franklin Fueling Systems**

www.franklinfueling.com

3760 Marsh Road • Madison, WI 53718, U.S.A.

Tel: +1 608 838 8786 • Fax: +1 608 838 6433

Tel: USA & Canada 1 800 225 9787 • Tel: México 001 800 738 7610



# Seneca Companies

**BRANCH ADDRESS**

13915 Century Lane  
Grandview, MO 64030  
Phone: 816-761-1270  
Toll-Free: 866-961-1270  
Fax: 816-761-8351

**HEADQUARTERS**

Des Moines, Iowa  
P.O. Box 3360  
Des Moines, Iowa  
50313-0360  
Toll-Free: 800-369-5500

*The Complete Solution*

**FACSIMILE TRANSMITTAL COVER PAGE**

**TO:** MARCUS MEERIAN

**FROM:** GREG GILL

**COMPANY:** KDHE-BER

**DATE:** 7-13-09

**FAX NUMBER:** 785-296-6190

**TOTAL PAGES-(WITH COVER):** 10

**PHONE NUMBER:**

**SENDERS PHONE NUMBER:**

**RE:** CASEY'S LEAVENWORTH

**SENDERS FAX NUMBER:**

URGENT

FOR REVIEW

PLEASE COMMENT

PLEASE REPLY

**NOTES/COMMENTS:**

**Other Branch Locations**

Bettendorf, IA • Jackson, MS • Oreana, IL • Omaha, NE • Baldwin, MS • Sioux City, IA

[www.senecacompanies.com](http://www.senecacompanies.com)

Petroleum Equipment • Petroleum Construction • Petroleum Service • Automotive Service Equipment • Industrial Fluids Handling System • Car Wash Systems • Electrical Contracting • Environmental Services Remediation Systems • Waste Solutions/Hydro-Blasting





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50313-0360  
Toll-Free: 800-369-5500

*The Complete Solution*

**FACSIMILE TRANSMITTAL COVER PAGE**

**TO:** MARCUS MEERIAN

**FROM:** GREG BELL

**COMPANY:** KDHE-BER

**DATE:** 7-13-09

**FAX NUMBER:** 785-296-6190

**TOTAL PAGES (WITH COVER):** 2

**PHONE NUMBER:**

**SENDER'S PHONE NUMBER:**

**RE:** LEAVENWORTH

**SENDER'S FAX NUMBER:**

URGENT

FOR REVIEW

PLEASE COMMENT

PLEASE REPLY

**NOTES/COMMENTS:** PARTS LIST COMING NEXT FAX.

**Other Branch Locations**

Bettendorf, IA • Jackson, MS • Oreana, IL • Omaha, NE • Baldwin, MS • Sioux City, IA

[www.senecacompanies.com](http://www.senecacompanies.com)

Petroleum Equipment • Petroleum Construction • Petroleum Service • Automotive Service Equipment • Industrial Fluids Handling  
Systems • Car Wash Systems • Electrical Contracting • Environmental Services Remediation Systems • Waste Solutions/Hydro-Blasting



Bank of America Advantage


CARRI M. GILL  
GREG R. GILL  
913-685-2712  
6240 W. 156TH ST.  
OVERLAND PARK, KS 66223-3621

3600

18-3/1010-MQ  
2615

Date 7-13-2009

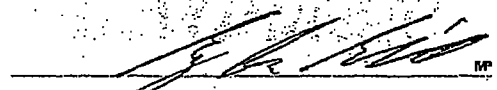
Pay KD HE \$ 60.00  
to the order of  
SIXTY & 00/100 Dollars

 Security features are included. Details on back.

Bank of America 

ACH R/T 081000032

CASEY'S LEAVENWORTH LIST'S



⑆ 101000035⑆ 030263238236⑆ 3600



Kathleen Sebelius, Governor  
Roderick L. Bremby, Secretary

DEPARTMENT OF HEALTH  
AND ENVIRONMENT

[www.kdheks.gov](http://www.kdheks.gov)

Division of Environment

**DATE: July 13, 2009**

**TO: Jill Reams-Widder**

**FROM: Marcus Meerian**

**NUMBER OF PAGES (INCLUDING COVER SHEET): 2**

**RE: Approved Temporary Permit**

**Notes: Casey's General Store #2826 Fac. Id 30435**

MODE = MEMORY TRANSMISSION

START=JUL-13 16:50

END=JUL-13 16:51

FILE NO.=309

STN NO.	COMM.	ONE-TOUCH/ ABBR NO.	STATION NAME/TEL NO.	PAGES	DURATION
001	OK	*	#85159656161	002/002	00:00:24

-KDHE BER STORAGE TANKS -

\*\*\*\*\* -BER - \*\*\*\*\* 785 296 6190- \*\*\*\*\*



Kathleen Sebelius, Governor  
Roderick L. Bremby, Secretary

DEPARTMENT OF HEALTH  
AND ENVIRONMENT

[www.kdheks.gov](http://www.kdheks.gov)

Division of Environment

**DATE: July 13, 2009**

**TO: Jill Reams-Widder**

**FROM: Marcus Meerian**

**NUMBER OF PAGES (INCLUDING COVER SHEET): 2**

**RE: Approved Temporary Permit**

**Notes: Casey's General Store #2826 Fac. Id 30435**

10/18 UST011

KDHE Reference No.: Owner ID: 06884 Facility ID: 30485

### Underground Storage Tank System Tightness Test and Function Check

Submit to: Kansas Department of Health and Environment  
Bureau of Environmental Remediation  
Storage Tank Section  
1000 SW Jackson, Suite 410  
Topeka, KS 66612-1367

Phone: 785 296-1678  
Fax: 785 559-4260

Date of Test	<u>6-3-2019</u>
Tester ID	<u>I 1274</u>
Company ID	<u>COST8</u>
Signature	<u>[Signature]</u>
	<u>JUN 03 2019</u>

Please Print Clearly or Type  
Facility Information

A. Facility Name: Casey's # 2826

B. Facility Address: 2100 S. 4th Leavenworth KS 66048  
(Street) (City) (State) (Zip)

C. Contact Person: Jin Reams Widder Phone: ( ) - ( ) - ( )

Tank Tightness Test Method: \_\_\_\_\_ Leak Threshold: \_\_\_\_\_

KDHE Tank Number					
Total Capacity (gals)					
Capacity during Test (gals)					
Year Installed				RECEIVED	
Tank Tightness Test (Pass / Fail)				JUN 04 2019	
Leak rate				BUREAU OF ENVIRONMENTAL REMEDIATION	
3 <sup>rd</sup> Party Certification met	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___

Line Tightness Test Method: \_\_\_\_\_ Leak Threshold: \_\_\_\_\_

MLD/ALM Function Check Test Method: TSC 1000 60 Tester Leak Threshold: 3gph  
line pre Diase 1

KDHE Line Number	<u>001</u>	<u>002</u>	<u>003</u>		
Dispenser type: Safe/Conventional/Pressure	<u>Pressure</u>	<u>Pressure</u>	<u>Pressure</u>		
Mech. Leak Det. or Auto. Line Mon. Model:	<u>VR PHD</u>	<u>VR PHD</u>	<u>VR PHD</u>		
MLD or ALM Function Check (Pass / Fail)	<u>Pass</u>	<u>Pass</u>	<u>Pass</u>		
Line Tightness Test (Pass / Fail)					
Leak rate					
3 <sup>rd</sup> Party Certification met	Yes <u>h</u> No ___	Yes <u>h</u> No ___	Yes <u>h</u> No ___	Yes ___ No ___	Yes ___ No ___

Contact KDHE at (785) 296-1678 within 24 hours if (1) tank fails tightness test or (2) line fails tightness test or (3) MLD/ALM fails function check.

All supporting documents are to be submitted with this form. Failure to submit supporting documents, will result in a delay in accepting test results.

**NOTE: UST SYSTEM OWNER/OPERATOR ARE REQUIRED TO MAINTAIN A COPY OF THIS FORM FOR ONE (1) YEAR.**

**TSC 1000 Leak Detector Tester  
DATA COLLECTION AND REPORT FORM**

Facility Name: Casey's # 2826  
 Facility Address: 2100 S 4th Leavenworth KS 66048  
 Facility Phone: \_\_\_\_\_ Test Date: 6-3-2019  
 Test Contractor: Haselwood Inc  
 Address: 504 Applewood Dr  
Manhattan, KS 66503  
 Contractor Phone #: 785-630-0299

Product	Leak Detector Model	Serial Number	Line PSI	Seating PSI	Slow Flow PSI	Flow Rate at 10 PSI	Pass or Fail
Ure	UR-PLW		28	21	Shut down	3	Pass
Men.	UR-PLW		29	21	Shut down	3	Pass
1st Diesel	UR-PLW		28	21	<del>21</del>	10	FAIL
2nd Diesel	UR-PLW		29	21	Shut down	3	Pass

Test Technician: Jordan Bughart Signature: [Signature]  
 Date: 6-3-2019 Time: 11:00

Comments: Replaced syphon jet, purged air, & re tested



PRESSURE LINE LEAK ALARM  
Q 1:UNLEAD LINE  
GROSS LINE FAIL  
JUN 3. 2019 10:50 AM

CASEYS 2826  
2100 SO. 4TH  
LEAVENWORTH KS

JUN 3. 2019 8:41 AM

SYSTEM STATUS REPORT

ALL FUNCTIONS NORMAL

INVENTORY REPORT

T 1:UNLEADED

VOLUME = 9015 GALS  
ULLAGE = 10936 GALS  
90% ULLAGE= 8940 GALS  
TC VOLUME = 9013 GALS  
HEIGHT = 55.32 INCHES  
WATER VOL = 0 GALS  
WATER = 0.00 INCHES  
TEMP = 60.3 DEG F

T 2:PREMIUM

VOLUME = 3925 GALS  
ULLAGE = 7948 GALS  
90% ULLAGE= 6760 GALS  
TC VOLUME = 3922 GALS  
HEIGHT = 44.45 INCHES  
WATER VOL = 0 GALS  
WATER = 0.00 INCHES  
TEMP = 60.7 DEG F

T 3:DIESEL

VOLUME = 4684 GALS  
ULLAGE = 3847 GALS  
90% ULLAGE= 2998 GALS  
TC VOLUME = 4681 GALS  
HEIGHT = 64.32 INCHES  
WATER VOL = 0 GALS  
WATER = 0.00 INCHES  
TEMP = 61.3 DEG F

\*\*\*\*\* EMD \*\*\*\*\*

PRESSURE LINE LEAK ALARM  
Q 1:UNLEAD LINE  
PLLD SHUTDOWN ALARM  
JUN 3. 2019 10:50 AM

PRESSURE LINE LEAK DIAG  
JUN 3. 2019 10:56 AM

Q 1:UNLEAD LINE

3.0 TEST PASSES

PON	P1	P2
JUN 3. 2019 10:55 AM		
49.7	22.0	21.5
JUN 3. 2019 10:37 AM		
31.0	21.8	21.8
JUN 3. 2019 10:30 AM		
30.1	21.7	21.8
JUN 3. 2019 10:23 AM		
39.9	21.9	21.7
JUN 3. 2019 10:14 AM		
29.9	21.7	21.8

3.0 TEST FAILS

PON	P1	P2
JUN 3. 2019 10:50 AM		
37.3	14.3	9.9
MAR 14. 2018 11:41 AM		
33.6	17.4	11.3
MAR 15. 2017 9:34 AM		
40.0	19.6	8.7
MAR 10. 2016 10:02 AM		
34.0	17.7	11.4
MAR 17. 2015 2:22 PM		
37.2	19.4	8.6

3.0 HI PRESSURE EVENTS

PON P1 P2  
NO TEST DATA AVAILABLE

PRESSURE LINE LEAK ALARM  
Q 2:PREM LINE  
GROSS LINE FAIL  
JUN 3. 2019 10:46 AM

PRESSURE LINE LEAK ALARM  
Q 2:PREM LINE  
PLLD SHUTDOWN ALARM  
JUN 3. 2019 10:46 AM

PRESSURE LINE LEAK DIAG  
JUN 3. 2019 10:56 AM

Q 2:PREM LINE

3.0 TEST PASSES

PON	P1	P2
JUN 3. 2019 10:56 AM		
50.2	22.8	21.9
JUN 3. 2019 10:22 AM		
30.7	22.6	22.3
JUN 3. 2019 9:30 AM		
30.8	22.6	22.3
JUN 3. 2019 9:08 AM		
41.0	22.8	22.2
JUN 3. 2019 8:56 AM		
30.4	22.6	22.3

3.0 TEST FAILS

PON	P1	P2
JUN 3. 2019 10:46 AM		
36.1	20.2	10.3
MAR 30. 2019 6:26 PM		
5.5	5.8	5.9
MAR 14. 2018 11:45 AM		
32.8	19.2	6.4
AUG 21. 2017 7:06 AM		
5.8	5.4	5.2
MAR 15. 2017 9:38 AM		
37.4	20.6	9.9

3.0 HI PRESSURE EVENTS

PON P1 P2  
NO TEST DATA AVAILABLE

PRESSURE LINE LEAK ALARM  
Q 3:DIESEL LINE  
GROSS LINE FAIL  
JUN 3. 2019 10:21 AM

PRESSURE LINE LEAK ALARM  
Q 3:DIESEL LINE  
PLLD SHUTDOWN ALARM  
JUN 3. 2019 10:21 AM

PRESSURE LINE LEAK DIAG  
JUN 3. 2019 10:29 AM

Q 3:DIESEL LINE

3.0 TEST PASSES

PON	P1	P2
JUN 3. 2019 10:29 AM		
43.3	26.6	25.6
JUN 3. 2019 10:16 AM		
29.6	25.1	25.2
JUN 3. 2019 10:09 AM		
29.1	25.8	25.7
JUN 3. 2019 9:53 AM		
28.1	18.4	16.6
JUN 3. 2019 9:47 AM		
44.1	26.8	21.9

3.0 TEST FAILS

PON	P1	P2
JUN 3. 2019 10:21 AM		
37.6	22.4	7.5
JUN 3. 2019 9:07 AM		
35.3	12.2	11.1
MAR 14. 2018 11:15 AM		
39.7	24.0	12.0
MAR 15. 2017 9:14 AM		
39.5	23.1	11.6
MAR 10. 2016 9:34 AM		
41.1	12.6	11.7

3.0 HI PRESSURE EVENTS

PON P1 P2  
NO TEST DATA AVAILABLE

LIQUID DIAGNOSTIC

L 1:DISP 1 2  
SAMPLES= 5  
LOW REF1= 163  
HIGH REF1= 984  
VALUE1= 101832

L 2:DISP 3 4  
SAMPLES= 5  
LOW REF1= 163  
HIGH REF1= 984  
VALUE1= 101942

L 3:DISP 5 6  
SAMPLES= 5  
LOW REF1= 163  
HIGH REF1= 984  
VALUE1= 101572

L 4:DISP 11 12  
SAMPLES= 5  
LOW REF1= 163  
HIGH REF1= 984  
VALUE1= 100020

L 5:DISP 9 10  
SAMPLES= 5  
LOW REF1= 163  
HIGH REF1= 984  
VALUE1= 102224

L 6:DISP 11 12  
SAMPLES= 5  
LOW REF1= 163  
HIGH REF1= 984  
VALUE1= 100866

L 7:UNL SUMP  
SAMPLES= 5  
LOW REF1= 163  
HIGH REF1= 985  
VALUE1= 101799

L 8:PREM SUMP  
SAMPLES= 5  
LOW REF1= 163  
HIGH REF1= 985  
VALUE1= 101788

L 9:DIESEL SUMP  
SAMPLES= 5  
LOW REF1= 164  
HIGH REF1= 983  
VALUE1= 101908

L10:PREM DIESEL INTERSTIC  
SAMPLES= 5  
LOW REF1= 164  
HIGH REF1= 983  
VALUE1= 0

L11:UNLE INTERSTICE  
SAMPLES= 5  
LOW REF1= 164  
HIGH REF1= 983  
VALUE1= 0

L12:  
SAMPLES= 5  
LOW REF1= 164  
HIGH REF1= 983  
VALUE1=999999680

L13:  
SAMPLES= 5  
LOW REF1= 163  
HIGH REF1= 984  
VALUE1=999999680

L14:  
SAMPLES= 5  
LOW REF1= 163  
HIGH REF1= 984  
VALUE1=999999680

L15:  
SAMPLES= 5  
LOW REF1= 163  
HIGH REF1= 984  
VALUE1=999999680

L16:  
SAMPLES= 5  
LOW REF1= 163  
HIGH REF1= 984  
VALUE1=999999680

----- SENSOR ALARM -----  
L 2:DISP 3 4  
DISPENSER PAN  
FUEL ALARM  
JUN 3. 2019 12:08 PM

----- SENSOR ALARM -----  
L 3:DISP 5 6  
DISPENSER PAN  
FUEL ALARM  
JUN 3. 2019 12:09 PM

----- SENSOR ALARM -----  
L 6:DISP 11 12  
DISPENSER PAN  
FUEL ALARM  
JUN 3. 2019 12:09 PM

----- SENSOR ALARM -----  
L 4:DISP 11 12  
DISPENSER PAN  
FUEL ALARM  
JUN 3. 2019 12:10 PM

----- SENSOR ALARM -----  
L 5:DISP 9 10  
DISPENSER PAN  
FUEL ALARM  
JUN 3. 2019 12:12 PM

----- SENSOR ALARM -----  
L 1:DISP 1 2  
DISPENSER PAN  
FUEL ALARM  
JUN 3. 2019 12:08 PM

----- SENSOR ALARM -----  
L 8:PREM SUMP  
STP SUMP  
FUEL ALARM  
JUN 3. 2019 11:15 AM

----- SENSOR ALARM -----  
L 9:DIESEL SUMP  
STP SUMP  
FUEL ALARM  
JUN 3. 2019 11:22 AM

----- SENSOR ALARM -----  
L11:UNLE INTERSTICE  
ANNULAR SPACE  
FUEL ALARM  
JUN 3. 2019 11:35 AM

----- SENSOR ALARM -----  
L 7:UNL SUMP  
STP SUMP  
FUEL ALARM  
JUN 3. 2019 11:36 AM

**Electronic Release Detection Equipment Test  
(Monitor – Probe – Sensor)**

(This form must accompany monitor/probe/sensor results)

Submit to: Kansas Department of Health and Environment  
Bureau of Environmental Remediation  
Storage Tank Section  
1000 SW Jackson, Suite 410  
Topeka, KS 66612-1367

Phone: 785 296-1678  
Fax: 785 559-4260

Date of Test	<u>6-3-2014</u>
Tester ID	<u>F1274</u>
Company ID	<u>CO S2K</u>
Signature	<u>[Signature]</u>

Please Print Clearly or Type

**Facility Information**

A. Facility Name: Casey's # 2826  
B. Facility Address: 2100 S. 4th Leavenworth KS 66048  
(Street) (City) (State) (Zip)

**Monitoring Console Information (Include all failures, repairs or maintenance documents)**

Console Type (example: ATG, IM)	Manufacturer (example: Incon)	Model # (example: TLS 350)	Serial #	Function Check (Pass / Fail)	Alarms Test (Pass / Fail)
<u>ATG</u>	<u>Veeber Root</u>	<u>TLS 356</u>		<u>Pass</u>	<u>Pass</u>

**Automatic Tank Gauge Probe Information (Include all failures, repairs or maintenance documents)**

Tank (Example: U001, U002)	Probe Type Inventory Only 0.2 – 0.1 test CSLD – SCALD	Manufacturer (Example: Incon)	Probe Model # (Example: TSP-LL2)	Serial #	Function Check (Pass / Fail)
<u>001 UMC</u>	<u>CSLD</u>	<u>Veeber Root</u>	<u>Mag Plus</u>	<u>413490</u>	<u>Pass</u>
<u>002 UMC</u>	<u>CSLD</u>	<u>Veeber Root</u>	<u>Mag Plus</u>	<u>413488</u>	<u>Pass</u>
<u>003 Diesel</u>	<u>CSLD</u>	<u>Veeber Root</u>	<u>Mag Plus</u>	<u>727429</u>	<u>Pass</u>

**Sensor Information (Include all failures, repairs or maintenance documents)**

Sensor Location (Example: Sump, Dispenser)	Sensor Type (Example: Float-switch, Discriminating, Dry Interstitial, Solid state)	Manufacturer (Example: Incon)	Sensor Model (Example: TSP-DTS)	Serial #	Function Check (Pass / Fail)
<u>L1 Disp 1-2 Sump</u>	<u>float</u>	<u>Veeber Root</u>	<u>tri state</u>		<u>Pass</u>
<u>L2 Disp 3-4 Sump</u>	<u>float</u>	<u>Veeber Root</u>	<u>tri state</u>		<u>Pass</u>
<u>L3 Disp 5-6 Sump</u>	<u>float</u>	<u>Veeber Root</u>	<u>tri state</u>		<u>Pass</u>
<u>L4 Disp 7-8 Sump</u>	<u>float</u>	<u>Veeber Root</u>	<u>tri state</u>		<u>Pass</u>
<u>L5 Disp 9-6 Sump</u>	<u>float</u>	<u>Veeber Root</u>	<u>tri state</u>		<u>Pass</u>
<u>L6 Disp 11-12 Sump</u>	<u>float</u>	<u>Veeber Root</u>	<u>tri state</u>		<u>Pass</u>
<u>L7 UMC STP Sump</u>	<u>float</u>	<u>Veeber Root</u>	<u>tri state</u>		<u>Pass</u>
<u>L8 Prem. STP Sump</u>	<u>float</u>	<u>Veeber Root</u>	<u>tri state</u>		<u>Pass</u>
<u>L9 Diesel STP Sump</u>	<u>float</u>	<u>Veeber Root</u>	<u>tri state</u>		<u>Pass</u>
<u>L10 Prem/Diesel Interst</u>	<u>dry interst</u>	<u>Veeber Root</u>	<u>tri state</u>		<u>Pass</u>
<u>L4 UMC interst</u>	<u>dry interst</u>	<u>Veeber Root</u>	<u>tri state</u>		<u>Pass</u>

If you have any questions on how to fill out this form or to request a review of the facility records, please contact the KDHE Storage Tank section at (785) 296-1678 or visit our website at: <http://www.kdheks.gov/tanks/index.html>.

**NOTE: UST SYSTEM OWNER/OPERATOR ARE REQUIRED TO MAINTAIN A COPY OF THIS FORM FOR ONE (1) YEAR.**

APR 09 2018

KDHE Reference No.: Owner ID: 06884 Facility ID: 30485

### Underground Storage Tank System Tightness Test

(This form must accompany tank/line tightness test results)

Submit to: Kansas Department of Health and Environment  
Bureau of Environmental Remediation  
Storage Tank Section  
1000 SW Jackson, Suite 410  
Topeka, KS 66612-1367

Phone: 785 296-8061  
Fax: 785 559-4260

Date of Test	<u>3-14-2018</u>
Tester I.D.	<u>10975 1</u>
Company ID	<u>CO578</u>
Signature	<u>Ed Hankel</u>

Please Print Clearly or Type

#### I. Facility Information

A. Facility Name: Casey's General Store #2826

B. Facility Address: 2100 S 4<sup>th</sup> Leavenworth KS 66048  
(Street) (City) (State) (Zip)

C. Contact Person: Jill Reams Widder Phone: ( ) -

#### II. Owner Information

A. Owner Name: Casey's Retail Company

B. Owner Address: PO Box 3004 One Convenience Blvd Pinkey IA 50021  
(Street) (City) (State) (Zip)

C. Owner Contact Person: Phone: ( ) -

#### III. Test Information

A. Test Method: ISC 1000 LD Tester Leak Threshold: 3gph

#### IV. Tank Systems Tested When performing line tests always provide corresponding tank information.

KDHE tank no.					
Total Capacity (gals)					
Capacity during Test (gals)					
Year installed					
Pass/Fail					
Leak rate					
3 <sup>rd</sup> Party Certification met	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___

	<u>UNL</u>	<u>Prem</u>	<u>Diesel</u>		
KDHE tank/line no.	<u>001</u>	<u>002</u>	<u>003</u>		<u>APR 09 2018</u>
Dispenser type: Safe/Conventional/Pressure	<u>Pressure</u>	<u>Pressure</u>	<u>Pressure</u>		
Mech. Leak Det. or Auto. Line Mon. Model:	<u>veeder Root PLLD</u>	<u>veeder Root PLLD</u>	<u>veeder Root PLLD</u>		
MLD or ALM Pass Function Test: Y/N	<u>Y</u>	<u>Y</u>	<u>Y</u>		
Pass/Fail					
Leak rate					
3 <sup>rd</sup> Party Certification met	Yes <input checked="" type="checkbox"/> No ___	Yes <input checked="" type="checkbox"/> No ___	Yes <input checked="" type="checkbox"/> No ___	Yes ___ No ___	Yes ___ No ___

#### V. If tank or line has failed, a release is suspected. To whom has suspected release been reported?

Please direct questions regarding tank and line tests to KDHE, Storage Tank Section, 785-296-8061.

**TSC 1000 Leak Detector Tester  
DATA COLLECTION AND REPORT FORM**

Facility Name: Casey's # 2826

Facility Address: 2100 S 4<sup>th</sup>  
Leavenworth, KS

Facility Phone: \_\_\_\_\_ Test Date: 3-14-2018

Test Contractor: Haselwood, Inc  
Address: 504 Applewood Dr  
Manhattan, KS 66503

Contractor Phone #: 785-630-0299

Product	Leak Detector Model	Serial Number	Line PSI	Seating PSI	Slow Flow PSI	Flow Rate at 10 PSI	Pass or Fail
JNL	VR PLLD		30	24	shut down	3	Pass
Item	VR PLLD		30	24	shut down	3	Pass
Diesel	VR PLLD		30	23	30	+10	Fail
Diesel	VR PLLD		30	23	shut down	3	Pass

**Test**  
Technician: Ed Haselwood Signature: [Signature]  
Date: 3-14-2018 Time: 11:55

Comments: Diesel Failed initial tests Replaced syphon jet in  
STP, purged air from line & retested

PRESSURE LINE LEAK ALARM  
Q 1:UNLEAD LINE  
GROSS LINE FAIL  
MAR 14. 2018 11:41 AM

PRESSURE LINE LEAK ALARM  
Q 2:PREM LINE  
GROSS LINE FAIL  
MAR 14. 2018 11:45 AM

PRESSURE LINE LEAK ALARM  
Q 3:DIESEL LINE  
GROSS LINE FAIL  
MAR 14. 2018 11:15 AM

CASEYS 2826  
2100 SO. 4TH  
LEAVENWORTH KS

MAR 14. 2018 9:59 AM

SYSTEM STATUS REPORT

ALL FUNCTIONS NORMAL

INVENTORY REPORT

T 1:UNLEADED

VOLUME = 7816 GALS  
ULLAGE = 12135 GALS  
90% ULLAGE= 10139 GALS  
TC VOLUME = 7904 GALS  
HEIGHT = 49.82 INCHES  
WATER VOL = 0 GALS  
WATER = 0.00 INCHES  
TEMP = 43.8 DEG F

T 2:PREMIUM

VOLUME = 3824 GALS  
ULLAGE = 8049 GALS  
90% ULLAGE= 6861 GALS  
TC VOLUME = 3847 GALS  
HEIGHT = 43.66 INCHES  
WATER VOL = 0 GALS  
WATER = 0.00 INCHES  
TEMP = 51.1 DEG F

T 3:DIESEL

VOLUME = 3718 GALS  
ULLAGE = 9413 GALS  
90% ULLAGE= 3000 GALS  
TC VOLUME = 3740 GALS  
HEIGHT = 33.04 INCHES  
WATER VOL = 0 GALS  
WATER = 0.00 INCHES  
TEMP = 51.3 DEG F

\*\*\* END \*\*\*

PRESSURE LINE LEAK ALARM  
Q 1:UNLEAD LINE  
PLLD SHUTDOWN ALARM  
MAR 14. 2018 11:41 AM

PRESSURE LINE LEAK ALARM  
Q 2:PREM LINE  
PLLD SHUTDOWN ALARM  
MAR 14. 2018 11:45 AM

PRESSURE LINE LEAK ALARM  
Q 3:DIESEL LINE  
PLLD SHUTDOWN ALARM  
MAR 14. 2018 11:15 AM

PRESSURE LINE LEAK DIAG  
MAR 14. 2018 12:47 PM

PRESSURE LINE LEAK DIAG  
MAR 14. 2018 12:47 PM

PRESSURE LINE LEAK DIAG  
MAR 14. 2018 11:25 AM

Q 1:UNLEAD LINE

3.0 TEST PASSES

PON	P1	P2
MAR 14. 2018 12:46 PM	30.3	21.9
MAR 14. 2018 12:39 PM	30.5	21.9
MAR 14. 2018 12:37 PM	33.2	21.9
MAR 14. 2018 12:33 PM	31.8	21.9
MAR 14. 2018 12:30 PM	34.6	21.9

3.0 TEST FAILS

PON	P1	P2
MAR 14. 2018 11:41 AM	33.6	17.4
MAR 15. 2017 9:34 AM	40.0	19.6
MAR 10. 2016 10:02 AM	34.0	17.7
MAR 17. 2015 2:22 PM	37.2	19.4

3.0 HI PRESSURE EVENTS

NO TEST DATA AVAILABLE

Q 2:PREM LINE

3.0 TEST PASSES

PON	P1	P2
MAR 14. 2018 12:10 PM	31.6	22.7
MAR 14. 2018 11:51 AM	43.9	22.6
MAR 14. 2018 11:18 AM	29.8	22.8
MAR 14. 2018 11:03 AM	33.7	22.6
MAR 14. 2018 10:36 AM	39.3	22.8

3.0 TEST FAILS

PON	P1	P2
MAR 14. 2018 11:45 AM	32.8	19.2
AUG 21. 2017 7:00 AM	5.3	5.4
MAR 15. 2017 9:33 AM	37.4	20.6
MAR 10. 2016 10:06 AM	35.3	19.6
MAR 17. 2015 2:27 PM	41.0	20.9

3.0 HI PRESSURE EVENTS

NO TEST DATA AVAILABLE

Q 3:DIESEL LINE

3.0 TEST PASSES

PON	P1	P2
MAR 14. 2018 11:25 AM	45.9	28.2
MAR 14. 2018 11:08 AM	42.7	13.1
MAR 14. 2018 10:57 AM	47.9	26.8
MAR 14. 2018 10:21 AM	36.5	13.8
MAR 14. 2018 9:31 AM	31.1	24.3

3.0 TEST FAILS

PON	P1	P2
MAR 14. 2018 11:15 AM	39.7	24.0
MAR 15. 2017 9:14 AM	39.5	23.1
MAR 10. 2016 10:04 AM	41.1	13.6
MAR 17. 2015 2:26 PM	40.8	13.9

3.0 HI PRESSURE EVENTS

NO TEST DATA AVAILABLE

**UST System Interstitial Sensor Test**

Complete for new installs and upgrades that require interstitial monitoring

Submit To: Kansas Department of Health and Environment  
 Bureau of Environmental Remediation  
 Storage Tank Section  
 1000 SW Jackson, Suite 410  
 Topeka, KS 66612-1367

Date of Test: 3-14-2018  
 Worker ID: 20 9751  
 Company ID: CO 578  
 Signature: [Signature]

Phone: 785-296-8061 Fax: 785-559-4260

- I. Facility Information  
 a. Facility Name: Casey's General Store # 2826  
 b. Facility Address: 2100 S 4<sup>th</sup> Leavenworth KS 66048  
(Street) (City) (State) (ZIP)  
 c. Contact Person: Jill Reams-Widder Phone: \_\_\_\_\_
- II. Owner Information  
 a. Owner Name: Casey's Retail Company  
 b. Owner Address: PO Box 2001 One Convenience Blvd Arkansas IA 50021  
(Street) (City) (State) (ZIP)  
 c. Owner Contact Person: [Signature] Phone: \_\_\_\_\_
- III. Test Method: Veeder Root TLS 350  
Include copies of the alarm history and current sensor status reports for each sensor tested.

IV. Test Results

Sensor Location & Model Number	Discriminating or Non-Discriminating	Sensor Programming (Alarm, Shutdown or both)	Tank Interstitial (Dry or Brine)	Sensor Correctly Mounted (Yes or No)	Sensor Operational (Yes or No)
L1 Disp 1-2 Sump	Non	Alarm	N/A	yes	yes
L2 Disp 3-4 Sump	Non	Alarm	N/A	yes	yes
L3 Disp 5-6 Sump	Non	Alarm	N/A	yes	yes
L4 Disp 7-8 Sump	Non	Alarm	N/A	yes	yes
L5 Disp 9-10 Sump	Non	Alarm	N/A	yes	yes
L6 Disp 11-12 Sump	Non	Alarm	N/A	yes	yes
L7 UWL STP Sump	Non	Alarm	N/A	yes	yes
L8 Prem STP Sump	Non	Alarm	N/A	yes	yes
L9 Diesel STP Sump	Non	Alarm	N/A	yes	yes
L10 Prem/Diesel Interstice	Non	Alarm	Dry	corroded - sensor could not be removed for test	
L11 UWL Interstice	Non	Alarm	Dry	yes	yes



CASEYS 2826  
2100 SO. 4TH  
LEAVENWORTH KS

MAR 14. 2018 12:44 PM

LIQUID STATUS

MAR 14. 2018 12:44 PM

L 1:DISP 1 2  
SENSOR NORMAL

L 2:DISP 3 4  
SENSOR NORMAL

L 3:DISP 5 6  
SENSOR NORMAL

L 4:DISP 11 12 *7/8*  
SENSOR NORMAL

L 5:DISP 9 10  
SENSOR NORMAL

L 6:DISP 11 12  
SENSOR NORMAL

L 7:UNL SUMP  
SENSOR NORMAL

L 8:PREM SUMP  
SENSOR NORMAL

L 9:DIESEL SUMP  
SENSOR NORMAL

L10:PRENDIESEL INTERSTICE  
SENSOR NORMAL

L11:UNLE INTERSTICE  
FUEL ALARM

\* \* \* \* \* END \* \* \* \* \*

----- SENSOR ALARM -----  
L 1:DISP 1 2  
DISPENSER PAN  
FUEL ALARM  
MAR 14. 2018 11:49 AM

----- SENSOR ALARM -----  
L 9:DIESEL SUMP  
STP SUMP  
FUEL ALARM  
MAR 14. 2018 10:33 AM

----- SENSOR ALARM -----  
L 2:DISP 3 4  
DISPENSER PAN  
FUEL ALARM  
MAR 14. 2018 12:11 PM

----- SENSOR ALARM -----  
L11:UNLE INTERSTICE  
ANNULAR SPACE  
FUEL ALARM  
MAR 14. 2018 12:26 PM

----- SENSOR ALARM -----  
L 3:DISP 5 6  
DISPENSER PAN  
FUEL ALARM  
MAR 14. 2018 12:11 PM

----- SENSOR ALARM -----  
L 7:UNL SUMP  
STP SUMP  
FUEL ALARM  
MAR 14. 2018 12:27 PM

----- SENSOR ALARM -----  
L 6:DISP 11 12  
DISPENSER PAN  
FUEL ALARM  
MAR 14. 2018 12:15 PM

----- SENSOR ALARM -----  
L 8:PREM SUMP  
STP SUMP  
FUEL ALARM  
MAR 14. 2018 12:40 PM

----- SENSOR ALARM -----  
L 5:DISP 9 10  
DISPENSER PAN  
FUEL ALARM  
MAR 14. 2018 12:16 PM

----- SENSOR ALARM -----  
L 4:DISP 11 12 *7/8*  
DISPENSER PAN  
FUEL ALARM  
MAR 14. 2018 12:16 PM

APR 04 2017

12/16 UST011

KDHE Reference No.: Owner ID : 06884 Facility ID: 30435

### Underground Storage Tank System Tightness Test

(This form must accompany tank/line tightness test results)

Submit to: Kansas Department of Health and Environment

Bureau of Environmental Remediation

Storage Tank Section

1000 SW Jackson, Suite 410

Topeka, KS 66612-1367

RECEIVED

Phone: 785 296-8061

Fax: 785 559-4260

Date of Test	<u>3-15-2017</u>
Tester I.D.	<u>IO 9751</u>
Company ID	<u>CO 578</u>
Signature	<u>[Signature]</u>

Please Print Clearly or Type

#### I. Facility Information

A. Facility Name: Casey's Grocery Store BUREAU OF ENVIRONMENTAL REMEDIATION 2826

B. Facility Address: 2100 S 4<sup>th</sup> Leavenworth KS 66048  
(Street) (City) (State) (Zip)

C. Contact Person: Jill Reams-Widder Phone: ( ) - ( )

#### II. Owner Information

A. Owner Name: Casey's Retail Company

B. Owner Address: 70 Burt 3001 One Convenience Blvd Arkeny IA 50221  
(Street) (City) (State) (Zip)

C. Owner Contact Person: \_\_\_\_\_ Phone: ( ) - ( )

#### III. Test Information

A. Test Method: TSC 1000 LD Tester Leak Threshold: 3gph

#### IV. Tank Systems Tested When performing line tests always provide corresponding tank information.

KDHE tank no.					
Total Capacity (gals)					
Capacity during Test (gals)					
Year installed					
Pass/Fail					
Leak rate					
3 <sup>rd</sup> Party Certification met	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___

	<u>UNL</u>	<u>Prem</u>	<u>Diesel</u>		
KDHE tank/line no.	<u>001</u>	<u>002</u>	<u>003</u>		
Dispenser type: Safe/Conventional/Pressure	<u>Pressure</u>	<u>Pressure</u>	<u>Pressure</u>		
Mech. Leak Det. or Auto. Line Mon. Model:	<u>Veeder Root PLLD</u>	<u>Veeder Root PLLD</u>	<u>Veeder Root PLLD</u>		
MLD or ALM Pass Function Test: Y/N	<u>Y</u>	<u>Y</u>	<u>Y</u>		
Pass/Fail					
Leak rate					
3 <sup>rd</sup> Party Certification met	Yes <u>/</u> No ___	Yes <u>/</u> No ___	Yes <u>/</u> No ___	Yes ___ No ___	Yes ___ No ___

#### V. If tank or line has failed, a release is suspected. To whom has suspected release been reported?

Please direct questions regarding tank and line tests to KDHE, Storage Tank Section. 785-296-8061.

**TSC 1000 Leak Detector Tester  
DATA COLLECTION AND REPORT FORM**

Facility Name: Casey's 2826

Facility Address: 2100 S 4<sup>th</sup>  
Leavenworth, KS

Facility Phone: \_\_\_\_\_ Test Date: 3-15-2017

Test Contractor: Haselwood Inc  
Address: 504 Applewood Dr  
Manhattan, KS 66503

Contractor Phone #: 785-630-0299

Product	Leak Detector Model	Serial Number	Line PSI	Seating PSI	Slow Flow PSI	Flow Rate at 10 PSI	Pass or Fail
U.N.L	JR PLLD		32	25	shut Down	3	Pass
Prom	JR PLLD		30	25	shut Down	3	Pass
Diesel	JR PLLD		40	25	40	710	Fail
Diesel	JR PLLD		38	27	shut Down	3	Pass

Test Technician: Ed Haselwood Signature: [Signature]  
Date: 3-15-2017 Time: 9:45

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

CASEYS 2826  
2100 SO. 4TH  
LEAVENWORTH KS

MAR 15. 2017 8:22 AM

SYSTEM STATUS REPORT

T 2:DELIVERY NEEDED

INVENTORY REPORT

T 1:UNLEADED

VOLUME = 15867 GALS  
ULLAGE = 4084 GALS  
90% ULLAGE= 2088 GALS  
TC VOLUME = 16062 GALS  
HEIGHT = 87.88 INCHES  
WATER VOL = 0 GALS  
WATER = 0.00 INCHES  
TEMP = 42.4 DEG F

T 2:PREMIUM

VOLUME = 1559 GALS  
ULLAGE = 10304 GALS  
90% ULLAGE= 9116 GALS  
TC VOLUME = 1573 GALS  
HEIGHT = 23.92 INCHES  
WATER VOL = 0 GALS  
WATER = 0.00 INCHES  
TEMP = 55.8 DEG F

T 3:DIESEL

VOLUME = 4325 GALS  
ULLAGE = 4206 GALS  
90% ULLAGE= 3352 GALS  
TC VOLUME = 4334 GALS  
HEIGHT = 60.35 INCHES  
WATER VOL = 0 GALS  
WATER = 0.00 INCHES  
TEMP = 55.1 DEG F

PRESSURE LINE LEAK ALARM  
Q 1:UNLEAD LINE  
GROSS LINE FAIL  
MAR 15. 2017 9:34 AM

PRESSURE LINE LEAK ALARM  
Q 1:UNLEAD LINE  
PLLD SHUTDOWN ALARM  
MAR 15. 2017 9:34 AM

PRESSURE LINE LEAK DIAG  
MAR 15. 2017 9:46 AM

Q 1:UNLEAD LINE

3.0 TEST PASSES

PON	P1	P2
MAR 15. 2017 9:43 AM		
45.4	22.3	21.6
MAR 15. 2017 9:24 AM		
40.2	22.2	21.6
MAR 15. 2017 9:15 AM		
30.6	22.3	21.9
MAR 15. 2017 9:04 AM		
33.4	22.1	21.7
MAR 15. 2017 9:00 AM		
33.6	22.1	21.7

3.0 TEST FAILS

PON	P1	P2
MAR 15. 2017 9:34 AM		
40.0	19.6	8.7
MAR 10. 2016 10:02 AM		
34.0	17.7	11.4
MAR 17. 2015 2:22 PM		
37.2	19.4	8.6

3.0 HI PRESSURE EVENTS

PON	P1	P2
NO TEST DATA AVAILABLE		

PRESSURE LINE LEAK ALARM  
Q 2:PREM LINE  
GROSS LINE FAIL  
MAR 15. 2017 9:38 AM

PRESSURE LINE LEAK ALARM  
Q 2:PREM LINE  
PLLD SHUTDOWN ALARM  
MAR 15. 2017 9:38 AM

PRESSURE LINE LEAK DIAG  
MAR 15. 2017 9:46 AM

Q 2:PREM LINE

3.0 TEST PASSES

PON	P1	P2
MAR 15. 2017 9:43 AM		
42.0	22.7	21.9
MAR 15. 2017 8:09 AM		
37.9	22.8	22.1
MAR 15. 2017 7:33 AM		
29.4	22.6	22.0
MAR 15. 2017 6:18 AM		
38.0	22.8	22.1
MAR 15. 2017 5:56 AM		
37.8	22.7	22.0

3.0 TEST FAILS

PON	P1	P2
MAR 15. 2017 9:38 AM		
37.4	20.6	9.9
MAR 10. 2016 10:06 AM		
35.3	19.6	7.0
MAR 17. 2015 3:56 PM		
41.0	20.0	9.8

3.0 HI PRESSURE EVENTS

PON	P1	P2
NO TEST DATA AVAILABLE		

PRESSURE LINE LEAK ALARM  
Q 3:DIESEL LINE  
GROSS LINE FAIL  
MAR 15. 2017 9:14 AM

PRESSURE LINE LEAK ALARM  
Q 3:DIESEL LINE  
PLLD SHUTDOWN ALARM  
MAR 15. 2017 9:14 AM

PRESSURE LINE LEAK DIAG  
MAR 15. 2017 9:26 AM

Q 3:DIESEL LINE

3.0 TEST PASSES

PON	P1	P2
MAR 15. 2017 9:24 AM		
44.5	28.0	26.1
MAR 15. 2017 8:46 AM		
40.7	19.2	14.9
MAR 15. 2017 8:16 AM		
28.3	24.2	24.1
MAR 14. 2017 7:58 PM		
50.1	25.1	25.0
MAR 14. 2017 6:14 PM		
28.7	24.1	24.0

3.0 TEST FAILS

PON	P1	P2
MAR 15. 2017 9:14 AM		
39.5	23.1	11.6
MAR 10. 2016 9:34 AM		
41.1	12.6	11.7
MAR 17. 2015 3:56 PM		
36.8	12.0	7.4

3.0 HI PRESSURE EVENTS

PON	P1	P2
NO TEST DATA AVAILABLE		

**UST System Interstitial Sensor Test**

Complete for new installs and upgrades that require interstitial monitoring

Submit To: Kansas Department of Health and Environment  
 Bureau of Environmental Remediation  
 Storage Tank Section  
 1000 SW Jackson, Suite 410  
 Topeka, KS 66612-1367

Date of Test: 3-12-2017  
 Worker ID: 20 9751  
 Company ID: 60578  
 Signature: [Signature]

Phone: 785-296-8061 Fax: 785-559-4260

**I. Facility Information**

- a. Facility Name: Casey's General Store #2826
- b. Facility Address: 2100 S 47<sup>th</sup> Leavenworth KS 66048  
(Street) (City) (State) (ZIP)
- c. Contact Person: Jill Reams-Widder Phone: \_\_\_\_\_

**II. Owner Information**

- a. Owner Name: Casey's Retail Company
- b. Owner Address: PO Box 3001 One Convenience Blvd Arkansas IA 50031  
(Street) (City) (State) (ZIP)
- c. Owner Contact Person: \_\_\_\_\_ Phone: \_\_\_\_\_

**III. Test Method:** \_\_\_\_\_

Include copies of the alarm history and current sensor status reports for each sensor tested.

**IV. Test Results**

Sensor Location & Model Number	Discriminating or Non-Discriminating	Sensor Programming (Alarm, Shutdown or both)	Tank Interstitial (Dry or Brine)	Sensor Correctly Mounted (Yes or No)	Sensor Operational (Yes or No)
L1 Disp 1-2 sump	Non	Alarm	N/A	Yes	Yes
L2 Disp 3-4 sump	Non	Alarm	N/A	Yes	Yes
L3 Disp 5-6 sump	Non	Alarm	N/A	Yes	Yes
L4 Disp 7-8 sump	Non	Alarm	N/A	Yes	Yes
L5 Disp 9-10 sump	Non	Alarm	N/A	Yes	Yes
L6 Disp 11-12 sump	Non	Alarm	N/A	Yes	Yes
L7 UWL STP Sump	Non	Alarm	N/A	Yes	Yes
L8 Prem STP sump	Non	Alarm	N/A	Yes	Yes
L9 Diesel STP sump	Non	Alarm	N/A	Yes	Yes
L10 UWL Interstitial	Non	Alarm	Dry	Corroded would not	move - not tested
L11 Diesel/Prem Interstitial	Non	Alarm	Dry	Yes	Yes

CASEYS 2826  
2100 SO. 4TH  
LEAVENWORTH KS

MAR 15. 2017 10:33 AM

LIQUID STATUS

MAR 15. 2017 10:33 AM

L 1:DISP 1 2  
SENSOR NORMAL

L 2:DISP 3 4  
SENSOR NORMAL

L 3:DISP 5 6  
SENSOR NORMAL

L 4:DISP 11 12  
SENSOR NORMAL

L 5:DISP 9 10  
SENSOR NORMAL

L 6:DISP 11 12  
SENSOR NORMAL

L 7:UNL SUMP  
SENSOR NORMAL

L 8:PREM SUMP  
SENSOR NORMAL

L 9:DIESEL SUMP  
SENSOR NORMAL

L10:UNL INTER  
SENSOR NORMAL

L11:DIESEL PREM INTER  
SENSOR NORMAL

\* \* \* \* \*

----- SENSOR ALARM -----

L 1:DISP 1 2  
DISPENSER PAN  
FUEL ALARM  
MAR 15. 2017 9:47 AM

----- SENSOR ALARM -----

L 2:DISP 3 4  
DISPENSER PAN  
FUEL ALARM  
MAR 15. 2017 9:47 AM

----- SENSOR ALARM -----

L 3:DISP 5 6  
DISPENSER PAN  
FUEL ALARM  
MAR 15. 2017 9:48 AM

----- SENSOR ALARM -----

L 6:DISP 11 12  
DISPENSER PAN  
FUEL ALARM  
MAR 15. 2017 9:53 AM

----- SENSOR ALARM -----

L 5:DISP 9 10  
DISPENSER PAN  
FUEL ALARM  
MAR 15. 2017 9:54 AM

----- SENSOR ALARM -----

L 4:DISP 11 12  
DISPENSER PAN  
FUEL ALARM  
MAR 15. 2017 9:54 AM

----- SENSOR ALARM -----

L 8:PREM SUMP  
STP SUMP  
FUEL ALARM  
MAR 15. 2017 10:05 AM

----- SENSOR ALARM -----

L 7:UNL SUMP  
STP SUMP  
FUEL ALARM  
MAR 15. 2017 10:18 AM

----- SENSOR ALARM -----

L11:DIESEL PREM INTER  
ANGULAR SPACE  
FUEL ALARM  
MAR 15. 2017 10:28 AM

----- SENSOR ALARM -----

L 9:DIESEL SUMP  
STP SUMP  
FUEL ALARM  
MAR 15. 2017 8:52 AM

MAR 18 2016

10-12 UST011

KDHE Reference No.: Owner ID: 06884 Facility ID: 30435

### Underground Storage Tank System Tightness Test

(This form must accompany tank/line tightness test results)

Submit to: Kansas Department of Health and Environment  
Bureau of Environmental Remediation  
Storage Tank Section  
1000 SW Jackson, Suite 410  
Topeka, KS 66612-1367

Phone: 785 296-8061  
Fax: 785 296-6190

Date of Test	<u>3-10-2016</u>
Tester I.D.	<u>IO 9751</u>
Company ID	<u>CO 578</u>
Signature	<u>[Signature]</u>

Please Print Clearly or Type

#### I. Facility Information

A. Facility Name: Casey's General Store # ~~2826~~  
 B. Facility Address: 2100 S 4<sup>th</sup> Leavenworth KS 66048  
(Street) (City) (State) (Zip)  
 C. Contact Person: Jill Reams-Widder Phone: ( ) -

#### II. Owner Information

A. Owner Name: Casey's Retail Company  
 B. Owner Address: PO Box 3001, One Convenience Blvd, Ankeny IA 50021  
(Street) (City) (State) (Zip)  
 C. Owner Contact Person: Jill Reams-Widder Phone: (515) 965-6100 ext 6238

#### III. Test Information

A. Test Method: TSC 1000 LD tester Leak Threshold: 3 gph

#### IV. Tank Systems Tested When performing line tests always provide corresponding tank information.

KDHE tank no.					
Total Capacity (gals)					
Capacity during Test (gals)					
Year installed					
Pass/Fail					
Leak rate					
3 <sup>rd</sup> Party Certification met	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___

JNL Flam Diesel

KDHE tank/line no.	<u>001</u>	<u>002</u>	<u>003</u>		
Dispenser type: Safe/Conventional/Pressure	<u>Pressure</u>	<u>Pressure</u>	<u>Pressure</u>		
Mech. Leak Det. or Auto. Line Mon. Model:	<u>veeder Root PLLD</u>	<u>veeder Root PLLD</u>	<u>veeder Root PLLD</u>		
MLD or ALM Pass Function Test: Y/N	<u>Y</u>	<u>Y</u>	<u>Y</u>		
Pass/Fail					
Leak rate					
3 <sup>rd</sup> Party Certification met	Yes / No ___	Yes / No ___	Yes / No ___	Yes ___ No ___	Yes ___ No ___

#### V. If tank or line has failed, a release is suspected. To whom has suspected release been reported?

Please direct questions regarding tank and line tests to KDHE, Storage Tank Section, 785-296-8061.



**TSC 1000 Leak Detector Tester  
DATA COLLECTION AND REPORT FORM**

Facility Name: Casey's General Store # 2826  
 Facility Address: 2100 S 4<sup>th</sup>  
Leavenworth, KS  
 Facility Phone: \_\_\_\_\_ Test Date: 3-10-2016  
 Test Contractor: Haselwood Inc  
 Address: 100 Dexter St  
Clay Center, KS 67432  
 Contractor Phone #: 785-630-0299

Product	Leak Detector Model	Serial Number	Line PSI	Seating PSI	Slow Flow PSI	Flow Rate at 10 PSI	Pass or Fail
JNL	<sup>VR</sup> PLLD		30	22	shut down	3	Pass
Prom	<sup>VR</sup> PLLD		30	24	shut down	3	Pass
<sup>1<sup>st</sup> Test</sup> Diesel	<sup>VR</sup> PLLD		38	24	38	+10	Fail
<sup>2<sup>nd</sup> Test</sup> Diesel	<sup>VR</sup> PLLD		38	24	shut down	3	Pass

Test Technician: Ed Haselwood Signature: *Ed Haselwood*  
 Date: 3-10-2016 Time: 10:15

Comments: Replaced syphon jet in diesel SIP after failing initial test, purged air & Retested

CHASEYS 2826  
2100 SO. 4TH  
LEAVENWORTH KS

MAR 10. 2016 8:47 AM

SYSTEM STATUS REPORT

ALL FUNCTIONS NORMAL

INVENTORY REPORT

T 1:UNLEADED  
VOLUME = 8472 GALS  
ULLAGE = 11479 GALS  
90% ULLAGE= 9483 GALS  
TC VOLUME = 8521 GALS  
HEIGHT = 52.84 INCHES  
WATER VOL = 0 GALS  
WATER = 0.00 INCHES  
TEMP = 51.6 DEG F

T 2:PREMIUM  
VOLUME = 3411 GALS  
ULLAGE = 8462 GALS  
90% ULLAGE= 7274 GALS  
TC VOLUME = 3427 GALS  
HEIGHT = 40.35 INCHES  
WATER VOL = 0 GALS  
WATER = 0.00 INCHES  
TEMP = 53.2 DEG F

T 3:DIESEL  
VOLUME = 2826 GALS  
ULLAGE = 5705 GALS  
90% ULLAGE= 4851 GALS  
TC VOLUME = 2832 GALS  
HEIGHT = 43.61 INCHES  
WATER VOL = 0 GALS  
WATER = 0.00 INCHES  
TEMP = 53.8 DEG F

\* \* \* \* \* END \* \* \* \* \*

PRESSURE LINE LEAK ALARM  
Q 1:UNLEAD LINE  
GROSS LINE FAIL  
MAR 10. 2016 10:02 AM

PRESSURE LINE LEAK ALARM  
Q 1:UNLEAD LINE  
PLLD SHUTDOWN ALARM  
MAR 10. 2016 10:02 AM

PRESSURE LINE LEAK DIAG  
MAR 10. 2016 10:12 AM

Q 1:UNLEAD LINE

3.0 TEST PASSES

PON	P1	P2
MAR 10. 2016 10:11 AM		
46.5	21.7	21.3
MAR 10. 2016 9:53 AM		
31.2	21.6	21.6
MAR 10. 2016 9:46 AM		
32.2	21.6	21.6
MAR 10. 2016 9:43 AM		
29.4	21.6	21.6
MAR 10. 2016 9:34 AM		
38.8	21.8	21.5

3.0 TEST FAILS

PON	P1	P2
MAR 10. 2016 10:02 AM		
34.0	17.7	11.4
MAR 17. 2015 2:22 PM		
37.2	19.4	8.6

3.0 HI PRESSURE EVENTS

PON P1 P2  
NO TEST DATA AVAILABLE

PRESSURE LINE LEAK ALARM  
Q 2:PREM LINE  
GROSS LINE FAIL  
MAR 10. 2016 10:06 AM

PRESSURE LINE LEAK ALARM  
Q 2:PREM LINE  
PLLD SHUTDOWN ALARM  
MAR 10. 2016 10:06 AM

PRESSURE LINE LEAK DIAG  
MAR 10. 2016 10:12 AM

Q 2:PREM LINE

3.0 TEST PASSES

PON	P1	P2
MAR 10. 2016 10:12 AM		
45.2	22.9	22.1
MAR 10. 2016 8:40 AM		
34.0	22.9	22.4
MAR 9. 2016 10:07 PM		
30.8	22.8	22.3
MAR 9. 2016 7:57 PM		
29.9	22.7	22.3
MAR 9. 2016 6:45 PM		
29.7	22.7	22.2

3.0 TEST FAILS

PON	P1	P2
MAR 10. 2016 10:06 AM		
35.3	19.6	7.0
MAR 17. 2015 2:27 PM		
41.0	20.9	9.8

3.0 HI PRESSURE EVENTS

PON P1 P2  
NO TEST DATA AVAILABLE

PRESSURE LINE LEAK ALARM  
Q 3:DIESEL LINE  
GROSS LINE FAIL  
MAR 10. 2016 9:34 AM

PRESSURE LINE LEAK ALARM  
Q 3:DIESEL LINE  
PLLD SHUTDOWN ALARM  
MAR 10. 2016 9:34 AM

PRESSURE LINE LEAK DIAG  
MAR 10. 2016 9:48 AM

Q 3:DIESEL LINE

3.0 TEST PASSES

PON	P1	P2
MAR 10. 2016 9:47 AM		
47.1	27.6	25.2
MAR 10. 2016 9:15 AM		
37.7	25.4	20.8
MAR 10. 2016 9:11 AM		
43.2	14.6	12.9
MAR 10. 2016 7:41 AM		
30.8	23.5	23.7
MAR 9. 2016 8:25 PM		
33.1	23.8	24.0

3.0 TEST FAILS

PON	P1	P2
MAR 10. 2016 9:34 AM		
41.1	12.6	11.7
MAR 17. 2015 3:56 PM		
46.8	12.9	7.4

3.0 HI PRESSURE EVENTS

PON P1 P2  
NO TEST DATA AVAILABLE

MAR 22 2015

10-12 UST011

KDHE Reference No.: Owner ID : 06884 Facility ID: 30435

### Underground Storage Tank System Tightness Test

(This form must accompany tank/line tightness test results)

Submit to: Kansas Department of Health and Environment  
Bureau of Environmental Remediation  
Storage Tank Section  
1000 SW Jackson, Suite 410  
Topeka, KS 66612-1367

Phone: 785 296-8061  
Fax: 785 296-6190

Date of Test	<u>3-17-2015</u>
Tester I.D.	<u>IO 975 1</u>
Company ID	<u>CO 578</u>
Signature	<u>Ed [Signature]</u>

Please Print Clearly or Type

#### I. Facility Information

A. Facility Name: Casey's General Store #2826  
 B. Facility Address: 2100 S 4<sup>th</sup> Leavenworth KS 66048  
(Street) (City) (State) (Zip)  
 C. Contact Person: Jill Reams-Widder Phone: ( ) -

#### II. Owner Information

A. Owner Name: Casey's Retail Company  
 B. Owner Address: PO Box 3001, One Convenience Blvd, Ankeny IA 50021  
(Street) (City) (State) (Zip)  
 C. Owner Contact Person: Jill Reams-Widder Phone: (515) 965-6100 ext 6238

#### III. Test Information

A. Test Method: TSC 1000 LD tester Leak Threshold: 3 gph

#### IV. Tank Systems Tested When performing line tests always provide corresponding tank information.

KDHE tank no.					
Total Capacity (gals)					
Capacity during Test (gals)					
Year Installed					
Pass/Fail					
Leak rate					
3 <sup>rd</sup> Party Certification met	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___

UWL Prem Diesel

KDHE tank/line no.	<u>001</u>	<u>002</u>	<u>003</u>		
Dispenser type: Safe/Conventional/Pressure	<u>Pressure</u>	<u>Pressure</u>	<u>Pressure</u>		
Mech. Leak Det. or Auto. Line Mon. Model:	<u>VeederRoot PLLD</u>	<u>VeederRoot PLLD</u>	<u>VeederRoot PLLD</u>		
MLD or ALM Pass Function Test: Y/N	<u>Y</u>	<u>Y</u>	<u>Y</u>		
Pass/Fail					
Leak rate					
3 <sup>rd</sup> Party Certification met	Yes / No ___	Yes / No ___	Yes / No ___	Yes ___ No ___	Yes ___ No ___

#### V. If tank or line has failed, a release is suspected. To whom has suspected release been reported?

Please direct questions regarding tank and line tests to KDHE, Storage Tank Section, 785-296-8061.

**TSC 1000 Leak Detector Tester  
DATA COLLECTION AND REPORT FORM**

Facility Name: Casey's General Store # 2826

Facility Address: 2100 S 4<sup>th</sup>  
Leavenworth, KS 66048

Facility Phone: \_\_\_\_\_ Test Date: 3-17-2015

Test Contractor: Haselwood Inc  
Address: 100 Dexter St  
Clay Center, KS 67432

Contractor Phone #: 785-630-0299

Product	Leak Detector Model	Serial Number	Line PSI	Seating PSI	Slow Flow PSI	Flow Rate at 10 PSI	Pass or Fail
UNL	VR PLLD		30	22	shut Down	3	Pass
Proxm	VR PLLD		30	25	shut Down	3	Pass
1 <sup>st</sup> test Diesel	VR PLLD		34	24	34	+10	Fail
2 <sup>nd</sup> test Diesel	VR PLLD		34	24	shut Down	3	Pass

Test Technician: Ed Haselwood Signature: [Signature]  
Date: 3-17-2015 Time: 4:30

Comments: Replaced syphon jet in Diesel STP, purged air + retested

CASEYS 2826  
2100 SO. 4TH  
LEAVENWORTH KS

MAR 17. 2015 2:15 PM

SYSTEM STATUS REPORT

ALL FUNCTIONS NORMAL

INVENTORY REPORT

T 1:UNLEADED

VOLUME = 10760 GALS  
ULLAGE = 9191 GALS  
90% ULLAGE= 7195 GALS  
TC VOLUME = 10846 GALS  
HEIGHT = 63.27 INCHES  
WATER VOL = 0 GALS  
WATER = 0.00 INCHES  
TEMP = 48.5 DEG F

T 2:PREMIUM

VOLUME = 3287 GALS  
ULLAGE = 8586 GALS  
90% ULLAGE= 7398 GALS  
TC VOLUME = 3306 GALS  
HEIGHT = 39.35 INCHES  
WATER VOL = 0 GALS  
WATER = 0.00 INCHES  
TEMP = 51.6 DEG F

T 3:DIESEL

VOLUME = 5210 GALS  
ULLAGE = 3321 GALS  
90% ULLAGE= 2467 GALS  
TC VOLUME = 5231 GALS  
HEIGHT = 70.19 INCHES  
WATER VOL = 0 GALS  
WATER = 0.00 INCHES  
TEMP = 51.0 DEG F

\*\*\*\*\* END \*\*\*\*\*

PRESSURE LINE LEAK ALARM  
Q 1:UNLEAD LINE  
GROSS LINE FAIL  
MAR 17. 2015 2:22 PM

PRESSURE LINE LEAK ALARM  
Q 1:UNLEAD LINE  
PLLD SHUTDOWN ALARM  
MAR 17. 2015 2:22 PM

PRESSURE LINE LEAK DIAG  
MAR 17. 2015 2:32 PM

Q 1:UNLEAD LINE

3.0 TEST PASSES

PON	P1	P2
MAR 17. 2015 2:31 PM	46.6	22.0 21.7
MAR 17. 2015 2:13 PM	39.8	22.0 21.9
MAR 17. 2015 2:08 PM	33.4	21.9 22.0
MAR 17. 2015 2:05 PM	29.8	21.8 21.9
MAR 17. 2015 1:58 PM	31.8	22.0 22.0

3.0 TEST FAILS

PON	P1	P2
MAR 17. 2015 2:22 PM	37.2	19.4 8.6

3.0 HI PRESSURE EVENTS

PON	P1	P2
NO TEST DATA AVAILABLE		

PRESSURE LINE LEAK ALARM  
Q 2:PREM LINE  
GROSS LINE FAIL  
MAR 17. 2015 2:27 PM

PRESSURE LINE LEAK ALARM  
Q 2:PREM LINE  
PLLD SHUTDOWN ALARM  
MAR 17. 2015 2:27 PM

PRESSURE LINE LEAK DIAG  
MAR 17. 2015 2:32 PM

Q 2:PREM LINE

3.0 TEST PASSES

PON	P1	P2
MAR 17. 2015 2:32 PM	49.9	23.0 22.1
MAR 17. 2015 2:12 PM	35.3	22.6 22.4
MAR 17. 2015 1:59 PM	39.3	23.0 22.3
MAR 17. 2015 12:37 PM	39.7	22.9 22.3
MAR 17. 2015 12:14 PM	29.0	22.3 22.2

3.0 TEST FAILS

PON	P1	P2
MAR 17. 2015 2:27 PM	41.0	20.9 9.8

3.0 HI PRESSURE EVENTS

PON	P1	P2
NO TEST DATA AVAILABLE		

PRESSURE LINE LEAK ALARM  
Q 3:DIESEL LINE  
GROSS LINE FAIL  
MAR 17. 2015 3:56 PM

PRESSURE LINE LEAK ALARM  
Q 3:DIESEL LINE  
PLLD SHUTDOWN ALARM  
MAR 17. 2015 3:56 PM

PRESSURE LINE LEAK DIAG  
MAR 17. 2015 4:12 PM

Q 3:DIESEL LINE

3.0 TEST PASSES

PON	P1	P2
MAR 17. 2015 4:11 PM	54.1	24.6 23.4
MAR 17. 2015 3:52 PM	31.7	24.3 23.5
MAR 17. 2015 3:43 PM	28.6	23.8 21.1
MAR 17. 2015 2:55 PM	41.5	26.4 23.4
MAR 17. 2015 2:50 PM	39.5	25.6 23.8

3.0 TEST FAILS

PON	P1	P2
MAR 17. 2015 3:56 PM	46.8	12.9 7.4

3.0 HI PRESSURE EVENTS

PON	P1	P2
NO TEST DATA AVAILABLE		

**Underground Storage Tank System  
Tightness Test**

(This form must accompany tank/line tightness test results)

Submit to: Kansas Department of Health and Environment  
Bureau of Environmental Remediation  
Storage Tank Section  
1000 SW Jackson, Suite 410  
Topeka, KS 66612-1367

Phone: 785 296-8061  
Fax: 785 296-6190

*Entered  
2-31-14  
WJL*

Date of Test	<u>3-21-14</u>
Tester I.D.	<u>I 1107-2</u>
Company ID	<u>C0021</u>
Signature	<i>[Signature]</i>

Please Print Clearly or Type

**I. Facility Information**

A. Facility Name: CASEY'S GENERAL STORE #2826  
 B. Facility Address: 2100 S 4th St, LEAVENWORTH, KS 66048  
(Street) (City) (State) (Zip)  
 C. Contact Person: JILL WIDDER Phone: (515) 965-6238

**II. Owner Information**

A. Owner Name: CASEY'S GENERAL STORE  
 B. Owner Address: ONE CONVENIENCE BLVD, ANKENY IA 50021  
(Street) (City) (State) (Zip)  
 C. Owner Contact Person: JILL WIDDER Phone: (515) 965-6238

**III. Test Information**

A. Test Method: \_\_\_\_\_ Leak Threshold: \_\_\_\_\_

**IV. Tank Systems Tested** When performing line tests *always* provide corresponding tank information.

KDHE tank no.					
Total Capacity (gals)					
Capacity during Test (gals)					
Year installed					
Pass/Fail					
Leak rate					
3 <sup>rd</sup> Party Certification met	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___

KDHE tank/line no.	<u>DSL3</u>				
Dispenser type: Safe/Conventional/Pressure					
Mech. Leak Det. or Auto. Line Mon. Model:					
MLD or ALM Pass Function Test: Y/N	<u>ALM</u>				
Pass/Fail	<u>PASS</u>				
Leak rate	<u>3.0</u>				
3 <sup>rd</sup> Party Certification met	Yes <input checked="" type="checkbox"/> No ___	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___

**V. If tank or line has failed, a release is suspected. To whom has suspected release been reported?**

Please direct questions regarding tank and line tests to KDHE, Storage Tank Section, 785-296-8061.



4000 Raytown Road, Kansas City, MO 64129  
1355 S Young, Wichita, KS 67209

5125 SW Topeka Blvd, Topeka, KS 66609  
1228 N Halstead, Hutchinson, KS 67501

5005 Murray Road, Manhattan, KS 66503  
841 Commercial Circle, Enid, OK 73703

# Electronic Line Leak Detection Operability Check

Date: 3.21.14

Site Name: Casey #2826  
Address: 2100 S. 4th St  
City, St Zip: Leavenworth KS 66048

TESTING PROCEDURE		
SENSOR FUNCTION PROPERLY		
YES OR NO		
TANK SUMP SENSOR	DISPENSER SUMP SENSOR	TANK INTERSTITIAL SENSOR
Y	Y	Y

	ALM FUNCTION CORRECTLY	PLLD SERIAL NUMBER
TANK #1 Does the ALM recognize a 3.0 GPH simulated leak rate at 10 PSI? Does the ALM shut down the associated submerged turbine pump when the alarm is triggered?	✓ ✓	287748
TANK #2 Does the ALM recognize a 3.0 GPH simulated leak rate at 10 PSI? Does the ALM shut down the associated submerged turbine pump when the alarm is triggered?		
TANK #3 Does the ALM recognize a 3.0 GPH simulated leak rate at 10 PSI? Does the ALM shut down the associated submerged turbine pump when the alarm is triggered?		
TANK #4 Does the ALM recognize a 3.0 GPH simulated leak rate at 10 PSI? Does the ALM shut down the associated submerged turbine pump when the alarm is triggered?		
TANK #5 Does the ALM recognize a 3.0 GPH simulated leak rate at 10 PSI? Does the ALM shut down the associated submerged turbine pump when the alarm is triggered?		
TANK #6 Does the ALM recognize a 3.0 GPH simulated leak rate at 10 PSI? Does the ALM shut down the associated submerged turbine pump when the alarm is triggered?		

3.0 GPH leak rate recertification performed by Red Jacket FX tester?  
ALM = Automatic line monitor  
NR = Not readable

Technician Name: Justin Williams  
Technician Certification #: B43484



MAR 27 2014

10-12 UST011

KDHE Reference No.: Owner ID : 06884 Facility ID: 30435

**Underground Storage Tank System  
Tightness Test**

(This form must accompany tank/line tightness test results)

Submit to: Kansas Department of Health and Environment

Bureau of Environmental Remediation

Storage Tank Section

1000 SW Jackson, Suite 410

Topeka, KS 66612-1367

Phone: 785 296-8061

Fax: 785 296-6190

Date of Test	<u>3-19-2014</u>
Tester I.D.	<u>IO 9 JUN/24 2014</u>
Company ID	<u>CO 578</u>
Signature	<u>[Signature]</u>

Please Print Clearly or Type

**I. Facility Information**

A. Facility Name: Casey's General Store # 2826

B. Facility Address: 200 S 4<sup>th</sup> Leavenworth KS 66048  
(Street) (City) (State) (Zip)

C. Contact Person: Jill Reams-Widder Phone: ( ) -

**II. Owner Information**

A. Owner Name: Casey's Retail Company

B. Owner Address: PO Box 3001 One Convenience Blvd, Ankeny IA 50021  
(Street) (City) (State) (Zip)

C. Owner Contact Person: Jill Reams-Widder Phone: (515) 965-6100 ext 6238

**III. Test Information**

A. Test Method: TSC 1000 LD tester Leak Threshold: 3 gph

**IV. Tank Systems Tested** When performing line tests *always* provide corresponding tank information.

KDHE tank no.					
Total Capacity (gals)					
Capacity during Test (gals)					
Year installed					
Pass/Fail					
Leak rate					
3 <sup>rd</sup> Party Certification met	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___

U/L Prem Diesel

KDHE tank/line no.	<u>001</u>	<u>002</u>	<u>003</u>		
Dispenser type: Safe/Conventional/Pressure	<u>Pressure</u>	<u>Pressure</u>	<u>Pressure</u>		
Mech. Leak Det. or Auto. Line Mon. Model:	<u>Veeder Root PLLD</u>	<u>Veeder Root PLLD</u>	<u>Veeder Root PLLD</u>		
MLD or ALM Pass Function Test: Y/N	<u>Y</u>	<u>Y</u>	<u>Y/N</u>		
Pass/Fail					
Leak rate					
3 <sup>rd</sup> Party Certification met	Yes <input checked="" type="checkbox"/> No ___	Yes <input checked="" type="checkbox"/> No ___	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Yes ___ No ___	Yes ___ No ___

**V. If tank or line has failed, a release is suspected. To whom has suspected release been reported?**

Please direct questions regarding tank and line tests to KDHE, Storage Tank Section, 785-296-8061.



**TSC 1000 Leak Detector Tester  
DATA COLLECTION AND REPORT FORM**

Facility Name: Casey's General Store 2826  
 Facility Address: 2100 S 4<sup>th</sup>  
Leavenworth, KS 66048  
 Facility Phone: \_\_\_\_\_ Test Date: 3-19-2014  
 Test Contractor: Haselwood Inc  
 Address: 100 Dexter St  
Clay Center, KS 67432  
 Contractor Phone #: 785-630-0299

Product	Leak Detector Model	Serial Number	Line PSI	Seating PSI	Slow Flow PSI	Flow Rate at 10 PSI	Pass or Fail
UNL	VR PLLD		32	25	Shut Down	3	Pass
Prem	VR PLLD		32	27	Shut Down	3	Pass
Diesel	VR PLLD		40	26	40	410	Fail

**Test**  
 Technician: Ed Haselwood Signature: Ed Haselwood  
 Date: 10:30 Time: 3-19-2014

Comments: Replace syphon jet in Diesel STP, reopened dispensers tested next morning, 3-20-14, no improvement corrosion particles again found in syphon jet. Double check called, I understand the swift check was replace, another syphon jet installed + pump cleaned for corrosion, lines purged + finally passed.



PRESSURE LINE LEAK ALARM  
Q 1:UNLEAD LINE  
GROSS LINE FAIL  
MAR 19. 2014 9:32 AM

PRESSURE LINE LEAK ALARM  
J 2:PREM LINE  
GROSS LINE FAIL  
MAR 19. 2014 9:35 AM

CASEYS 2826  
2100 SO. 4TH  
LEAVENWORTH KS

MAR 19. 2014 8:27 AM

PRESSURE LINE LEAK ALARM  
Q 1:UNLEAD LINE  
PLLD SHUTDOWN ALARM  
MAR 19. 2014 9:32 AM

PRESSURE LINE LEAK ALARM  
Q 2:PREM LINE  
PLLD SHUTDOWN ALARM  
MAR 19. 2014 9:35 AM

SYSTEM STATUS REPORT

ALL FUNCTIONS NORMAL

INVENTORY REPORT

T 1:UNLEADED

VOLUME = 10231 GALS  
ULLAGE = 9720 GALS  
90% ULLAGE= 7724 GALS  
TC VOLUME = 10339 GALS  
HEIGHT = 60.85 INCHES  
WATER VOL = 0 GALS  
WATER = 0.00 INCHES  
TEMP = 44.9 DEG F

PRESSURE LINE LEAK DIAG  
MAR 19. 2014 9:43 AM

PRESSURE LINE LEAK DIAG  
MAR 19. 2014 9:43 AM

T 2:PREMIUM

VOLUME = 4011 GALS  
ULLAGE = 7862 GALS  
90% ULLAGE= 6874 GALS  
TC VOLUME = 4042 GALS  
HEIGHT = 45.13 INCHES  
WATER VOL = 0 GALS  
WATER = 0.00 INCHES  
TEMP = 49.1 DEG F

Q 1:UNLEAD LINE

3.0 TEST PASSES

PON	P1	P2	
MAR 19. 2014 9:42 AM	45.3	21.5	20.8
MAR 19. 2014 9:15 AM	28.9	21.4	21.0
MAR 19. 2014 9:11 AM	34.0	21.4	21.0
MAR 19. 2014 9:09 AM	29.8	21.4	21.0
MAR 19. 2014 9:04 AM	39.5	21.5	21.0

3.0 TEST FAILS

PON	P1	P2	
MAR 19. 2014 9:32 AM	37.9	19.1	8.3

3.0 HI PRESSURE EVENTS

NO TEST DATA AVAILABLE

\* \* \* \* \* END \* \* \* \* \*

Q 2:PREM LINE

3.0 TEST PASSES

PON	P1	P2	
MAR 19. 2014 9:42 AM	48.1	22.8	21.8
MAR 19. 2014 8:18 AM	33.5	22.6	22.0
MAR 19. 2014 7:24 AM	29.5	22.5	21.9
MAR 18. 2014 11:17 PM	39.1	22.7	22.0
MAR 18. 2014 6:57 PM	29.5	22.5	22.0

3.0 TEST FAILS

PON	P1	P2	
MAR 19. 2014 9:35 AM	40.0	20.5	9.4

3.0 HI PRESSURE EVENTS

NO TEST DATA AVAILABLE



MAY 07 2013

KDHE Reference No.: Owner ID : 06884 Facility ID: 30435

**Underground Storage Tank System  
Tightness Test**

(This form must accompany tank/line tightness test results)

Submit to: Kansas Department of Health and Environment  
Bureau of Environmental Remediation  
Storage Tank Section  
1000 SW Jackson, Suite 410  
Topeka, KS 66612-1367 Phone: 785 296-8061  
Fax: 785 296-6190

Date of Test	<del>5-2-13</del> <u>5-2-13</u>
Tester I.D.	<u>109751</u> <u>6-29</u>
Company ID	<u>10578</u>
Signature	<u>[Signature]</u>

Please Print Clearly or Type

**I. Facility Information**

A. Facility Name: Casey's General Store # 2826  
 B. Facility Address: 2100 S 4<sup>th</sup> Leavenworth KS 66048  
(Street) (City) (State) (Zip)  
 C. Contact Person: Jill Reams-Widder Phone: ( ) - ( )

**II. Owner Information**

A. Owner Name: Casey's Retail Company  
 B. Owner Address: PO Box 3001 One Convenience Blvd, Antenay IA 50021  
(Street) (City) (State) (Zip)  
 C. Owner Contact Person: Jill Reams-Widder Phone: (515) 965-6100 ext 6238

**III. Test Information**

A. Test Method: TSC 1000 LD tester Leak Threshold: 3 gph

**IV. Tank Systems Tested** When performing line tests *always* provide corresponding tank information.

KDHE tank no.					
Total Capacity (gals)					
Capacity during Test (gals)					
Year installed					
Pass/Fail					
Leak rate					
3 <sup>rd</sup> Party Certification met	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___

Diesel

KDHE tank/line no.	<u>003</u>				
Dispenser type: Safe/Conventional/Pressure	<u>Pressure</u>				
Mech. Leak Det. or Auto. Line Mon. Model:	<u>Veeder Root PLLD</u>				
MLD or ALM Pass Function Test: Y/N	<u>Y</u>				
Pass/Fail					
Leak rate					
3 <sup>rd</sup> Party Certification met	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___

**V. If tank or line has failed, a release is suspected. To whom has suspected release been reported?**

\_\_\_\_\_

Please direct questions regarding tank and line tests to KDHE, Storage Tank Section, 785-296-8061.



**TSC 1000 Leak Detector Tester  
DATA COLLECTION AND REPORT FORM**

Facility Name: Casey's General Store #2826

Facility Address: 2100 S 4<sup>th</sup>  
Leavenworth KS 66048

Facility Phone: \_\_\_\_\_ Test Date: 5-2-2013

Test Contractor: Haselwood Inc  
Address: 100 Dexter St  
Clay Center, KS 67432

Contractor Phone #: 785-630-0299

Product	Leak Detector Model	Serial Number	Line PSI	Seating PSI	Slow Flow PSI	Flow Rate at 10 PSI	Pass or Fail
Diesel	VR PLLO	287748	30	25	shut Down	3	Pass

Test Technician: Ed Haselwood Signature: Ed Haselwood  
Date: 5-2-2013 Time: 2:30 pm

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7  
PRESSURE LINE LEAK ALARM  
Q 3:DIESEL LINE  
CROSS LINE FAIL  
MAY 2, 2013 2:08 PM

PRESSURE LINE LEAK ALARM  
Q 3:DIESEL LINE  
FLD SHUTDOWN ALARM  
MAY 2, 2013 2:08 PM

PRESSURE LINE LEAK DIAG  
MAY 2, 2013 2:14 PM

Q 3:DIESEL LINE

3.0 TEST PASSES

PON	F1	F2
MAY 2, 2013 2:14 PM	34.6	22.4
MAY 2, 2013 11:29 PM	37.1	22.8
MAY 2, 2013 11:31 PM	35.1	22.8
MAY 2, 2013 11:35 PM	28.3	20.7
MAY 2, 2013 11:41 PM	28.8	22.8

3.0 TEST FAILS:

PON	F1	F2
MAY 2, 2013 11:03 PM	30.0	13.2
JUN 5, 2009 11:58 AM	17.4	5.2

3.0 HI PRESSURE EVENTS:

PON	F1	F2
NO TEST DATA AVAILABLE		

PDSO  
MAR 26 2013

8 10-12 UST011

KDHE Reference No.: Owner ID: 06884 Facility ID: 30435

**Underground Storage Tank System  
Tightness Test**

(This form must accompany tank/line tightness test results)

Submit to: Kansas Department of Health and Environment  
Bureau of Environmental Remediation  
Storage Tank Section  
1000 SW Jackson, Suite 410  
Topeka, KS 66612-1367 Phone: 785 296-8061  
Fax: 785 296-6190

Date of Test	<u>3-20-2013</u>
Tester I.D.	<u>JUN 29 2013 775</u>
Company ID	<u>CO 578</u>
Signature	<u>Ed Harwood</u>

Please Print Clearly or Type

**I. Facility Information**

A. Facility Name: Casey's General Store # 2826  
 B. Facility Address: 2100 S 4<sup>th</sup> Leavenworth KS 66048  
 (Street) (City) (State) (Zip)  
 C. Contact Person: Jill Reams-Widder Phone: ( ) -

**II. Owner Information**

A. Owner Name: Casey's Retail Company  
 B. Owner Address: PO Box 300, One Convenience Blvd, Ankeny IA 50021  
 (Street) (City) (State) (Zip)  
 C. Owner Contact Person: Jill Reams-Widder Phone: (515) 965-6100 ext 6238

**III. Test Information**

A. Test Method: TSC 1000 LD tester Leak Threshold: 3 gph

**IV. Tank Systems Tested** When performing line tests always provide corresponding tank information.

KDHE tank no.					
Total Capacity (gals)					
Capacity during Test (gals)					
Year installed					
Pass/Fail					
Leak rate					
3 <sup>rd</sup> Party Certification met	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___

JNL Prem Diesel

KDHE tank/line no.	<u>001</u>	<u>002</u>	<u>003</u>		
Dispenser type: Safe/Conventional/Pressure	<u>Pressure</u>	<u>Pressure</u>	<u>Pressure</u>		
Mech. Leak Det. or Auto. Line Mon. Model:	<u>Veeder Root PLLD</u>	<u>Veeder Root PLLD</u>	<u>Veeder Root PLLD</u>		
MLD or ALM Pass Function Test: Y/N	<u>Y</u>	<u>Y</u>	<u>N</u>		
Pass/Fail					
Leak rate					
3 <sup>rd</sup> Party Certification met	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___	Yes ___ No ___

**V. If tank or line has failed, a release is suspected. To whom has suspected release been reported?**

Please direct questions regarding tank and line tests to KDHE, Storage Tank Section, 785-296-8061.

**TSC 1000 Leak Detector Tester  
DATA COLLECTION AND REPORT FORM**

Facility Name: Casey's General Store #2826 fac 30435

Facility Address: 200 S 4<sup>th</sup>  
Leavenworth, KS 66048

Facility Phone: \_\_\_\_\_ Test Date: 3-20-2013

Test Contractor: Haselwood Inc  
Address: 100 Dexter St  
Clay Center, KS 67432

Contractor Phone #: 785-630-0299

Product	Leak Detector Model	Serial Number	Line PSI	Seating PSI	Slow Flow PSI	Flow Rate at 10 PSI	Pass or Fail
UWL	VR PLLD	287489	30	23	Shut Down	3	Pass
Prem	VR PLLD	288432	30	24	Shut Down	3	Pass
Diesel	VR PLLD	287748	<sup>35</sup> <sub>to 42</sub>	<sup>26</sup> <sub>to 33</sub>	34	15+	Fail

Test Technician: Ed Haselwood Signature: Ed Haselwood  
Date: 3-20-2013 Time: 12:00 PM

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Q 3:DIESEL LINE

3.0 GAL/HR RESULTS:

LAST TEST:  
MAR 20.2013 10:00AM PASS

CASEYS 2826  
2100 SO. 4TH  
LEAVENWORTH KS

NUMBER OF TESTS PASSED  
PREV 24 HOURS : 9  
SINCE MIDNIGHT : 6

MAR 20, 2013 10:03 AM

0.20 GAL/HR RESULTS:

MAR 19.2013 3:22PM PASS  
MAR 15.2013 6:40PM PASS  
MAR 11.2013 9:08AM PASS  
MAR 7.2013 9:40AM PASS  
MAR 3.2013 9:01AM PASS  
FEB 27.2013 8:56AM PASS  
FEB 23.2013 11:36AM PASS  
FEB 19.2013 9:51AM PASS  
FEB 15.2013 8:59AM PASS  
FEB 11.2013 9:26AM PASS

PRESSURE LINE LEAK ALARM  
Q 1:UNLEAD LINE  
GROSS LINE FAIL  
MAR 20, 2013 10:33 AM

PRESSURE LINE LEAK ALARM  
Q 2:PREM LINE  
GROSS LINE FAIL  
MAR 20, 2013 10:39 AM

0.10 GAL/HR RESULTS:

DEC 5.2012 5:55PM PASS  
JUN 4.2012 5:39PM PASS  
DEC 3.2011 1:48PM PASS  
JUN 2.2011 2:53PM PASS  
NOV 30.2010 12:47PM PASS  
MAY 30.2010 7:06PM PASS  
NOV 27.2009 4:23PM PASS  
MAY 27.2009 11:40AM PASS

PRESSURE LINE LEAK ALARM  
Q 1:UNLEAD LINE  
PLLD SHUTDOWN ALARM  
MAR 20, 2013 10:33 AM

PRESSURE LINE LEAK ALARM  
Q 2:PREM LINE  
PLLD SHUTDOWN ALARM  
MAR 20, 2013 10:39 AM

PRESSURE LINE LEAK DIAG  
MAR 20, 2013 10:46 AM

PRESSURE LINE LEAK DIAG  
MAR 20, 2013 12:01 PM

PRESSURE LINE LEAK DIAG  
MAR 20, 2013 10:45 AM

Q 2:PREM LINE

Q 3:DIESEL LINE

3.0 TEST PASSES

PON	P1	P2
MAR 20, 2013 12:00 PM	40.9	29.0 25.5
MAR 20, 2013 11:58 AM	35.6	27.4 24.4
MAR 20, 2013 11:23 AM	42.5	28.5 26.2
MAR 20, 2013 11:19 AM	34.9	19.5 19.2
MAR 20, 2013 11:16 AM	40.2	27.2 25.8

3.0 TEST FAILS

PON	P1	P2
JUN 5, 2009 11:55 AM	17.4	5.2 2.1

3.0 HI PRESSURE EVENTS

NO TEST DATA AVAILABLE

Q 1:UNLEAD LINE

3.0 TEST PASSES

PON	P1	P2
MAR 20, 2013 10:44 AM	46.2	22.2 21.5
MAR 20, 2013 10:23 AM	30.1	22.1 21.9
MAR 20, 2013 10:20 AM	30.2	22.1 21.8
MAR 20, 2013 10:19 AM	38.7	22.3 21.8
MAR 20, 2013 10:16 AM	29.8	22.2 21.9

3.0 TEST FAILS

PON	P1	P2
MAR 20, 2013 10:33 AM	34.2	19.6 9.8
MAY 14, 2010 4:38 PM	29.3	11.0 11.0
MAY 27, 2009 10:20 AM	41.7	5.5 6.3

3.0 HI PRESSURE EVENTS

NO TEST DATA AVAILABLE

3.0 TEST PASSES

PON	P1	P2
MAR 20, 2013 10:45 AM	48.1	22.6 21.7
MAR 20, 2013 9:13 AM	29.8	22.5 21.9
MAR 20, 2013 8:35 AM	39.5	22.6 21.8
MAR 20, 2013 8:04 AM	29.7	22.4 21.7
MAR 19, 2013 8:45 PM	39.6	22.6 21.8

3.0 TEST FAILS

PON	P1	P2
MAR 20, 2013 10:39 AM	36.3	20.2 11.2
JAN 13, 2012 2:24 PM	1.8	1.5 1.4
NOV 24, 2011 4:35 PM	3.0	3.0 3.3
JUN 5, 2009 12:01 PM	29.9	14.7 6.8
MAY 27, 2009 10:44 AM	28.8	6.9 7.3

3.0 HI PRESSURE EVENTS

NO TEST DATA AVAILABLE

system wide open

**UNDERGROUND STORAGE TANK SYSTEM  
Tightness Test**

(This form must accompany tank tightness results)

SUBMIT TO: KANSAS DEPT. OF HEALTH & ENVIRONMENT  
BUREAU OF ENVIRONMENTAL REMEDIATION  
STORAGE TANK SECTION  
1000 SW JACKSON, SUITE 410  
TOPEKA, KANSAS 66612-1367 PHONE: 785 296-8061  
FAX: 785 296-6190

Date of Test	<u>06/08/2009</u>
Tester I.D.	<u>IO949-1</u>
Company ID	<u>CO147</u>
Signature	<i>Ronald O. Young</i>

Please Print Clearly or Type

**I. FACILITY INFORMATION**

A. Facility Name CASEY'S 2826

B. Address 2100 S 4TH ST LEAVENWORTH, KS. 66048  
(street) (city) (state) (zip)

C. Contact SUE @ CASEY'S Phone 515 965-6167

**II. TANK OWNER INFORMATION**

A. Owner Name CASEY'S GENERAL STORES

B. Owner Address ONE CONVENIENCE BLVD ANKENY, IA 50021

C. Owner Contact Person JILL REAMS-WIDDER Phone 515 965-6238

**III. Test Information**

A. Tester Method VacuTect B. Leak Threshold: \_\_\_\_\_

**IV. Tank Systems Tested** When performing line test always provide corresponding tank information!

KDHE tank no	1	2	3	
Tank Capacity (Gallons)	20000	12000	8000	
Capacity during Test(gals)	0	0	0	0
Year installed	2009			
Pass/Fail	PASS			
Leak rate	0.000			
3rd Party Certification met	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>

KDHE tank/line no				
Dispenser type *				
Safe/Conventional /Pressue				
Mech.Leak Det.(MLD) Model:				
MLD operating correctly: Y/N				
Pass/Fail				
Leak rate				
3rd Party Certification met	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>

**V. If tank or line has failed, a release is suspected. To whom has suspected release been reported?**

\_\_\_\_\_

Please direct questions regarding tank and line tests to KDHE, Storage Tank Section, 785-296-8061

*not used  
7/20/09*



**TANKNOLOGY CERTIFICATE OF TESTING**  
 8501 N MOPAC EXPRESSWAY, SUITE 400 AUSTIN, TEXAS 78759  
 TELEPHONE (512) 451-6334 FAX (512) 459-1459

PURPOSE: COMPLIANCE

**TEST RESULT SUMMARY REPORT**

TEST DATE: 06/08/09

WORK ORDER NUMBER: 6330027

CUSTOMER PO:

CLIENT: CASEY'S GENERAL STORES  
 ONE CONVENIENCE BLVD  
 P.O. BOX 3001  
 ANKENY, IA 50021  
 JILL REAMS-WIDDER  
 (515)965-6238

SITE: CASEY'S 2826  
 2100 S 4TH ST  
 LEAVENWORTH, KS 66048

SUE @ CASEY'S  
 (515)965-6167

**Tank Tightness Tests Results**

TEST TYPE: VacuTect

TANK ID	PRODUCT	TANK CAPACITY	TANK DIAMETER	TANK MATERIAL	PRODUCT LEVEL	EXTERNAL WATER LEVEL	TEST RESULT
1	UNLEADED	20,000	119.0	DW FIBERG	94.50	155.00	PASS
2	PREMIUM	12,000	119.0	DW FIBERG			
3	DIESEL	8,000	119.0	DW FIBERG			

\*Where regulations require, for VacuTect external water level may be depth of dry well or water is assumed at lowest point that can be confirmed dry.

**Product Pipe Tightness Test Results**

LINE ID	LINE MATERIAL	DELIVERY TYPE	TEST RESULT				FINAL LEAKRATE (gph)				TEST METHOD	IMPACT VALVE FUNCTION
			A	B	C	D	A	B	C	D		
1												
2												
3												

**Existing Line Leak Detector Test**

LINE ID	EXISTING LEAK DETECTOR #1				EXISTING LEAK DETECTOR #2			
	MANUFACTURER	MODEL #	SERIAL #	RESULT	MANUFACTURER	MODEL #	SERIAL #	RESULT
1								
2								
3								

**New Replacement Line Leak Detector Test**

LINE ID	REPLACED LEAK DETECTOR #1				REPLACED LEAK DETECTOR #2			
	MANUFACTURER	MODEL #	SERIAL #	RESULT	MANUFACTURER	MODEL #	SERIAL #	RESULT

For owner detailed report information, visit [www.tanknology.com](http://www.tanknology.com) and select On-Line Reports-WRAP, or contact your local Tanknology office.

Tester Name: RON YORGOVAN

Technician Certification Number: KS IO949 CO147



# INDIVIDUAL TANK INFORMATION AND TEST RESULTS



TEST DATE: 06/08/09  
CLIENT: CASEY'S GENERAL

8501 N MOPAC EXPRESSWAY, SUITE 400  
AUSTIN, TEXAS 78759 (512) 451-6334

WORK ORDER NUMBER 6330027  
SITE: CASEY'S 2826

## TANK INFORMATION

Tank ID: 1	Tank manifolded: NO	Bottom to top fill in inches: 182.0
Product: UNLEADED	Vent manifolded: NO	Bottom to grade in inches: 192.0
Capacity in gallons: 20,000	Vapor recovery manifolded: NO	Fill pipe length in inches: 63.0
Diameter in inches: 119.00	Overfill protection: YES	Fill pipe diameter in inches: 4.0
Length in inches: 419	Overspill protection: YES	Stage I vapor recovery: COAX
Material: DW FIBERG	Installed: ATG	Stage II vapor recovery: NONE
	CP installed on: / /	

**COMMENTS**

TANK TEST RESULTS Test Method: VacuTect		
	Start (in)	End (in)
Dipped Water Level:	0.00	0.00
Dipped Product Level:	94.50	94.50
Probe Water Level:	0.037	0.035
Ingress Detected: Water <sup>N</sup>	Bubble <sup>N</sup>	Ullage <sup>N</sup>
Test time:	10:03-12:23	
Inclinometer reading:	0.00	
VacuTect Test Type:	Single tank	
VacuTect Probe Entry Point:	Gauge	
Pressure Set Point:	-0.50	
Tank water level in inches:	0.00	
Water table depth in inches:	155.00	
Determined by (method):	WELL	
Result:	PASS	

**COMMENTS**  
vent tested with tank tank was partly uncovered  
spill bucket was removed by Seneca.

LEAK DETECTOR TEST RESULTS Test method: BTA				
	New/passed L.D. #1	Failed/replaced L.D. #1	New/passed L.D. #2	Failed/replaced L.D. #2
Make:				
Model:				
S/N:				
Open time in sec:				
Holding psi:				
Resiliency cc:		NOT		NOT
Test leak rate ml/m:		TESTED		TESTED
Metering psi:				
Calib. leak in gph:				
Results:				

**COMMENTS**

LINE TEST RESULTS Test type: TLD-1				
	LINE A	B	C	D
Material:	FLEX			
Diameter (in):	2.0			
Length (ft):	250.0			
Test psi:				
Bleedback cc:				
Test time (min):	NOT	NOT	NOT	NOT
Start time:	TESTED	TESTED	TESTED	TESTED
End time:				
Final gph:				
Result:				
Pump type:	PRESSURE			
Pump make:	FE PETRO			

**COMMENTS** Impact Valves Operational:



8501 N MOPAC EXPRESSWAY, SUITE 400  
AUSTIN, TEXAS 78759  
(512) 451-6334  
FAX (512) 459-1459

TEST DATE:06/08/09

WORK ORDER NUMBER6330027

CLIENT:CASEY'S GENERAL STORES

SITE:CASEY'S 2826

### COMMENTS

Re-tested the unleaded tank with passing results. Vents were tested under vacuum with the tank.

### PARTS REPLACED

QUANTITY	DESCRIPTION

### HELIUM PINPOINT TEST RESULTS (IF APPLICABLE)

ITEMS TESTED

### HELIUM PINPOINT LEAK TEST RESULTS

--

# SITE DIAGRAM



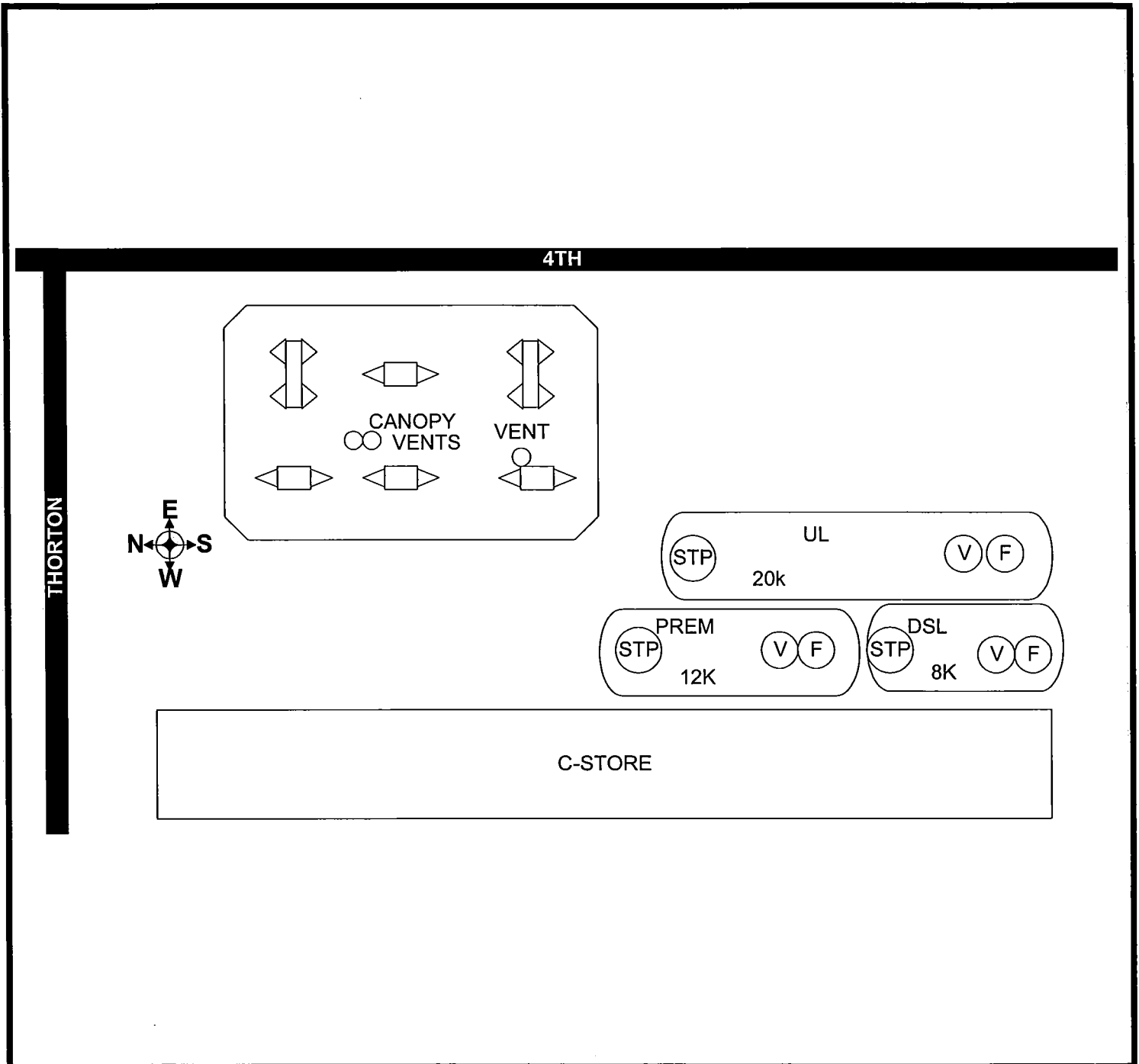
8501 N MOPAC EXPRESSWAY, SUITE 400  
AUSTIN, TEXAS 78759  
(512) 451-6334  
FAX (512) 459-1459

TEST DATE: 06/08/09

WORK ORDER NUMBER 6330027

CLIENT: CASEY'S GENERAL STORES

SITE: CASEY'S 2826





8501 N. MoPac Expressway, Suite 400  
Austin, Texas 78759  
Phone: (512) 451-6334  
Fax: (512) 459-1459

Date Printed and Mailed: 06/10/2009

KANSAS DEPT. OF HEALTH  
BUREAU OF ENVIRONMENTAL  
STORAGE TANK SECTION  
1000 SW JACKSON STREET, STE. 410  
TOPEKA, KS. 66612

RECEIVED  
JUN 15 2009  
BUREAU OF ENVIRONMENTAL STORAGE TANK SECTION

Test Date: 06/08/2009  
Order Number: 6330027

Dear Regulator,

Enclosed are the results of recent testing performed at the following facility:

CASEY'S 2826  
2100 S 4TH ST

LEAVENWORTH, KS. 66048

Testing performed:  
Tank Tests

Sincerely,

A handwritten signature in black ink that reads 'Dawn Kohlmeier'.

Dawn Kohlmeier  
Manager, Field Reporting

**UNDERGROUND STORAGE TANK SYSTEM  
Tightness Test**

(This form must accompany tank tightness results)

SUBMIT TO: KANSAS DEPT. OF HEALTH & ENVIRONMENT  
BUREAU OF ENVIRONMENTAL REMEDIATION  
STORAGE TANK SECTION  
1000 SW JACKSON, SUITE 410  
TOPEKA, KANSAS 66612-1367 PHONE: 785 296-8061  
FAX: 785 296-6190

Date of Test	<u>06/05/2009</u>
Tester I.D.	<u>IO949-1</u>
Company ID	<u>CO147</u>
Signature	<i>Ronald O Young</i>

Please Print Clearly or Type

**I. FACILITY INFORMATION**

A. Facility Name CASEY'S 2826

B. Address 2100 S 4TH ST LEAVENWORTH, KS. 66048  
(street) (city) (state) (zip)

C. Contact SUE @ CASEY'S Phone 515 965-6167

**II. TANK OWNER INFORMATION**

A. Owner Name CASEY'S GENERAL STORES

B. Owner Address ONE CONVENIENCE BLVD ANKENY,IA50021

C. Owner Contact Person JILL REAMS-WIDDER Phone 515 965-6238

**III. Test Information**

A. Tester Method VacuTect / TLD-1 B. Leak Threshold: \_\_\_\_\_

**IV. Tank Systems Tested** When performing line test always provide corresponding tank information!

KDHE tank no	1	2	3	
Tank Capacity (Gallons)	20000	12000	8000	
Capacity during Test(gals)	0	0	0	0
Year installed	2009	2009	2009	
Pass/Fail	FAIL	PASS	PASS	
Leak rate	0.000	0.000	0.000	
3rd Party Certification met	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>

KDHE tank/line no	1	2	3	
Dispenser type * Safe/Conventional /Pressue				
Mech.Leak Det.(MLD) Model:	VEEDERRO	VEEDERRO ELECTRON		
MLD operating correctly: Y/N	YES	YES		
Pass/Fail	PASS	PASS	PASS	
Leak rate	0.000	0.000	0.000	
3rd Party Certification met	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>

**V. If tank or line has failed, a release is suspected. To whom has suspected release been reported?**

\_\_\_\_\_

Please direct questions regarding tank and line tests to KDHE, Storage Tank Section, 785-296-8061

*Handwritten signature/initials*



TANKNOLOGY CERTIFICATE OF TESTING  
 8501 N MOPAC EXPRESSWAY, SUITE 400 AUSTIN, TEXAS 78759  
 TELEPHONE (512) 451-6334 FAX (512) 459-1459

PURPOSE: COMPLIANCE

**TEST RESULT SUMMARY REPORT**

TEST DATE: 06/05/09

WORK ORDER NUMBER: 6329963

CUSTOMER PO:

CLIENT: CASEY'S GENERAL STORES  
 ONE CONVENIENCE BLVD  
 P.O. BOX 3001  
 ANKENY, IA 50021  
 JILL REAMS-WIDDER  
 (515)965-6238

SITE: CASEY'S 2826  
 2100 S 4TH ST  
 LEAVENWORTH, KS 66048  
 SUE @ CASEY'S  
 (515)965-6167

**Tank Tightness Tests Results**

TEST TYPE: VacuTect

TANK ID	PRODUCT	TANK CAPACITY	TANK DIAMETER	TANK MATERIAL	PRODUCT LEVEL	EXTERNAL WATER LEVEL	TEST RESULT
1	UNLEADED	20,000	119.0	DW FIBERG	94.50	195.00	FAIL
2	PREMIUM	12,000	119.0	DW FIBERG	89.00	195.00	PASS
3	DIESEL	8,000	119.0	DW FIBERG	80.00	195.00	PASS

\*Where regulations require, for VacuTect external water level may be depth of dry well or water is assumed at lowest point that can be confirmed dry.

**Product Pipe Tightness Test Results**

LINE ID	LINE MATERIAL	DELIVERY TYPE	TEST RESULT				FINAL LEAK RATE (gph)				TEST METHOD	IMPACT VALVE FUNCTION	
			A	B	C	D	A	B	C	D			
1	FLEX	PRESSURE	P					0.000				TLD-1	Y
2	FLEX	PRESSURE	P					0.000				TLD-1	Y
3	FLEX	PRESSURE	P					0.000				TLD-1	Y

**Existing Line Leak Detector Test**

LINE ID	EXISTING LEAK DETECTOR #1				EXISTING LEAK DETECTOR #2			
	MANUFACTURER	MODEL #	SERIAL #	RESULT	MANUFACTURER	MODEL #	SERIAL #	RESULT
1	VEEDERROOT		287749	P				
2	VEEDERROOT	ELECTRONIC	287432	P				
3	VEEDERROOT	ELECTRONIC	287748	P				

**New Replacement Line Leak Detector Test**

LINE ID	REPLACED LEAK DETECTOR #1				REPLACED LEAK DETECTOR #2			
	MANUFACTURER	MODEL #	SERIAL #	RESULT	MANUFACTURER	MODEL #	SERIAL #	RESULT

For owner detailed report information, visit [www.tanknology.com](http://www.tanknology.com) and select On-Line Reports-WRAP, or contact your local Tanknology office.

Tester Name: RON YORGOVAN

Technician Certification Number: KS IO949 CO147

# INDIVIDUAL TANK INFORMATION AND TEST RESULTS



TEST DATE: 06/05/09  
 CLIENT: CASEY'S GENERAL

8501 N MOPAC EXPRESSWAY, SUITE 400  
 AUSTIN, TEXAS 78759 (512) 451-6334

WORK ORDER NUMBER 6329963  
 SITE: CASEY'S 2826

## TANK INFORMATION

Tank ID: 1	Tank manifolded: NO	Bottom to top fill in inches: 182.0
Product: UNLEADED	Vent manifolded: NO	Bottom to grade in inches: 192.0
Capacity in gallons: 20,000	Vapor recovery manifolded: NO	Fill pipe length in inches: 63.0
Diameter in inches: 119.00	Overfill protection: YES	Fill pipe diameter in inches: 4.0
Length in inches: 419	Overspill protection: YES	Stage I vapor recovery: COAX
Material: DW FIBERG	Installed: ATG	Stage II vapor recovery: NONE
	CP installed on: / /	

**COMMENTS**

TANK TEST RESULTS Test Method: VacuTect		
	Start (in)	End (in)
Dipped Water Level:	0.00	0.00
Dipped Product Level:	94.50	94.50
Probe Water Level:	0.082	0.080
Ingress Detected: Water <b>N</b> Bubble <b>N</b> Ullage <b>Y</b>		
Test time:	11:31-15:58	
Inclinometer reading:	0.00	
VacuTect Test Type:	Single tank	
VacuTect Probe Entry Point:	Fill	
Pressure Set Point:	-0.50	
Tank water level in inches:	0.00	
Water table depth in inches:	195.00	
Determined by (method):	WELL	
Result:	FAIL	

**COMMENTS**  
 TANK FAILS ON ULLAGE INGRESS.

LEAK DETECTOR TEST RESULTS Test method: DTA				
	New/passed L.D. #1	Failed/replaced L.D. #1	New/passed L.D. #2	Failed/replaced L.D. #2
Make:	VEEDERROOT			
Model:				
S/N:	287749			
Open time in sec:				
Holding psi:				
Resiliency cc:	NOT TESTED			
Test leak rate ml/m:	189.0			
Metering psi:				
Calib. leak in gph:	3.00			
Results:	PASS			

**COMMENTS**  
 PASS

LINE TEST RESULTS Test type: TLD-1				
	A	B	C	D
Material:	FLEX			
Diameter (in):	2.0			
Length (ft):	250.0			
Test psi:	60			
Bleedback cc:	515			
Test time (min):	60			
Start time:	09:48		NOT TESTED	NOT TESTED
End time:	10:48		NOT TESTED	NOT TESTED
Final gph:	0.000			
Result:	PASS			
Pump type:	PRESSURE			
Pump make:	FE PETRO			

**COMMENTS**  
 DISPENSER TO BALL VALVE  
 Impact Valves Operational: YES



# INDIVIDUAL TANK INFORMATION AND TEST RESULTS



TEST DATE: 06/05/09  
 CLIENT: CASEY'S GENERAL

8501 N MOPAC EXPRESSWAY, SUITE 400  
 AUSTIN, TEXAS 78759 (512) 451-6334

WORK ORDER NUMBER 6329963  
 SITE: CASEY'S 2826

## TANK INFORMATION

Tank ID: 2	Tank manifolded: NO	Bottom to top fill in inches: 180.0
Product: PREMIUM	Vent manifolded: NO	Bottom to grade in inches: 192.0
Capacity in gallons: 12,000	Vapor recovery manifolded: NO	Fill pipe length in inches: 61.0
Diameter in inches: 119.00	Overfill protection: YES	Fill pipe diameter in inches: 4.0
Length in inches: 252	Overspill protection: YES	Stage I vapor recovery: DUAL
Material: DW FIBERG	Installed: ATG	Stage II vapor recovery: NONE
	CP installed on: / /	

**COMMENTS**

TANK TEST RESULTS	Test Method: VacuTect	LEAK DETECTOR TEST RESULTS	Test method: EWA																																																																																																	
<table border="0" style="width: 100%;"> <tr> <td></td> <td style="text-align: center;">Start (in)</td> <td style="text-align: center;">End (in)</td> </tr> <tr> <td>Dipped Water Level:</td> <td style="text-align: center;">0.00</td> <td style="text-align: center;">0.00</td> </tr> <tr> <td>Dipped Product Level:</td> <td style="text-align: center;">89.00</td> <td style="text-align: center;">89.00</td> </tr> <tr> <td>Probe Water Level:</td> <td style="text-align: center;">0.074</td> <td style="text-align: center;">0.073</td> </tr> <tr> <td>Ingress Detected: Water <sup>N</sup></td> <td>Bubble <sup>N</sup></td> <td>Ullage <sup>N</sup></td> </tr> <tr> <td>Test time:</td> <td colspan="2" style="text-align: center;">09:04-11:15</td> </tr> <tr> <td>Inclinometer reading:</td> <td colspan="2" style="text-align: center;">0.00</td> </tr> <tr> <td>VacuTect Test Type:</td> <td colspan="2" style="text-align: center;">Single tank</td> </tr> <tr> <td>VacuTect Probe Entry Point:</td> <td colspan="2" style="text-align: center;">Fill</td> </tr> <tr> <td>Pressure Set Point:</td> <td colspan="2" style="text-align: center;">-0.50</td> </tr> <tr> <td>Tank water level in inches:</td> <td colspan="2" style="text-align: center;">0.00</td> </tr> <tr> <td>Water table depth in inches:</td> <td colspan="2" style="text-align: center;">195.00</td> </tr> <tr> <td>Determined by (method):</td> <td colspan="2" style="text-align: center;">WELL</td> </tr> <tr> <td>Result:</td> <td colspan="2" style="text-align: center;">PASS</td> </tr> </table>		Start (in)	End (in)	Dipped Water Level:	0.00	0.00	Dipped Product Level:	89.00	89.00	Probe Water Level:	0.074	0.073	Ingress Detected: Water <sup>N</sup>	Bubble <sup>N</sup>	Ullage <sup>N</sup>	Test time:	09:04-11:15		Inclinometer reading:	0.00		VacuTect Test Type:	Single tank		VacuTect Probe Entry Point:	Fill		Pressure Set Point:	-0.50		Tank water level in inches:	0.00		Water table depth in inches:	195.00		Determined by (method):	WELL		Result:	PASS		<table border="0" style="width: 100%;"> <tr> <td></td> <td style="text-align: center;">New/passed L.D. #1</td> <td style="text-align: center;">Failed/replaced L.D. #1</td> <td style="text-align: center;">New/passed L.D. #2</td> <td style="text-align: center;">Failed/replaced L.D. #2</td> </tr> <tr> <td>Make:</td> <td colspan="4" style="text-align: center;">VEEDERROOT</td> </tr> <tr> <td>Model:</td> <td colspan="4" style="text-align: center;">ELECTRONIC</td> </tr> <tr> <td>S/N:</td> <td colspan="4" style="text-align: center;">287432</td> </tr> <tr> <td>Open time in sec:</td> <td colspan="4"></td> </tr> <tr> <td>Holding psi:</td> <td colspan="4"></td> </tr> <tr> <td>Resiliency cc:</td> <td colspan="4" style="text-align: center;">NOT TESTED</td> </tr> <tr> <td>Test leak rate ml/m:</td> <td colspan="2" style="text-align: center;">189.0</td> <td colspan="2"></td> </tr> <tr> <td>Metering psi:</td> <td colspan="4"></td> </tr> <tr> <td>Calib. leak in gph:</td> <td colspan="2" style="text-align: center;">3.00</td> <td colspan="2"></td> </tr> <tr> <td>Results:</td> <td colspan="4" style="text-align: center;">PASS</td> </tr> </table>		New/passed L.D. #1	Failed/replaced L.D. #1	New/passed L.D. #2	Failed/replaced L.D. #2	Make:	VEEDERROOT				Model:	ELECTRONIC				S/N:	287432				Open time in sec:					Holding psi:					Resiliency cc:	NOT TESTED				Test leak rate ml/m:	189.0				Metering psi:					Calib. leak in gph:	3.00				Results:	PASS				<p><b>COMMENTS</b>                  PASS</p>	
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## LINE TEST RESULTS

LINE	A	B	C	D																																																												
<table border="0" style="width: 100%;"> <tr> <td>Material:</td> <td colspan="4" style="text-align: center;">FLEX</td> </tr> <tr> <td>Diameter (in):</td> <td colspan="4" style="text-align: center;">2.0</td> </tr> <tr> <td>Length (ft):</td> <td colspan="4" style="text-align: center;">250.0</td> </tr> <tr> <td>Test psi:</td> <td colspan="4" style="text-align: center;">60</td> </tr> <tr> <td>Bleedback cc:</td> <td colspan="4" style="text-align: center;">515</td> </tr> <tr> <td>Test time (min):</td> <td colspan="4" style="text-align: center;">60</td> </tr> <tr> <td>Start time:</td> <td colspan="2" style="text-align: center;">09:48</td> <td style="text-align: center;">NOT TESTED</td> <td style="text-align: center;">NOT TESTED</td> </tr> <tr> <td>End time:</td> <td colspan="2" style="text-align: center;">10:48</td> <td style="text-align: center;">NOT TESTED</td> <td style="text-align: center;">NOT TESTED</td> </tr> <tr> <td>Final gph:</td> <td colspan="4" style="text-align: center;">0.000</td> </tr> <tr> <td>Result:</td> <td colspan="4" style="text-align: center;">PASS</td> </tr> <tr> <td>Pump type:</td> <td colspan="4" style="text-align: center;">PRESSURE</td> </tr> <tr> <td>Pump make:</td> <td colspan="4" style="text-align: center;">FE PETRO</td> </tr> </table>	Material:	FLEX				Diameter (in):	2.0				Length (ft):	250.0				Test psi:	60				Bleedback cc:	515				Test time (min):	60				Start time:	09:48		NOT TESTED	NOT TESTED	End time:	10:48		NOT TESTED	NOT TESTED	Final gph:	0.000				Result:	PASS				Pump type:	PRESSURE				Pump make:	FE PETRO							
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<p><b>COMMENTS</b>                  DISPENSER TO BALL VALVE</p>		<p>Impact Valves Operational: YES</p>																																																														

# INDIVIDUAL TANK INFORMATION AND TEST RESULTS



TEST DATE: 06/05/09  
CLIENT: CASEY'S GENERAL

8501 N MOPAC EXPRESSWAY, SUITE 400  
AUSTIN, TEXAS 78759 (512) 451-6334

WORK ORDER NUMBER 6329963  
SITE: CASEY'S 2826

## TANK INFORMATION

Tank ID: 3	Tank manifolded: NO	Bottom to top fill in inches: 180.0
Product: DIESEL	Vent manifolded: NO	Bottom to grade in inches: 192.0
Capacity in gallons: 8,000	Vapor recovery manifolded:	Fill pipe length in inches: 61.0
Diameter in inches: 119.00	Overfill protection: YES	Fill pipe diameter in inches: 4.0
Length in inches: 168	Overspill protection: YES	Stage I vapor recovery: DUAL
Material: DW FIBERG	Installed: ATG	Stage II vapor recovery: NONE
	CP installed on: / /	

**COMMENTS**

### TANK TEST RESULTS Test Method: VacuTect

	Start (in)	End (in)
Dipped Water Level:	0.00	0.00
Dipped Product Level:	80.00	80.00
Probe Water Level:	0.052	0.050
Ingress Detected: Water N Bubble N Ullage N		
Test time:	09:04-11:15	
Inclinometer reading:	0.00	
VacuTect Test Type:	Multiple tanks	
VacuTect Probe Entry Point:	Fill	
Pressure Set Point:	-0.50	
Tank water level in inches:	0.00	
Water table depth in inches:	195.00	
Determined by (method):	WELL	
Result:	PASS	

**COMMENTS**

VENT TESTED WITH TANK, HAD TO ISOLATE FILL SPILL BUCKET.

### LEAK DETECTOR TEST RESULTS

Test method: PTA

	New/passed L.D. #1	Failed/replaced L.D. #1	New/passed L.D. #2	Failed/replaced L.D. #2
Make:	VEEDERROOT			
Model:	ELECTRONIC			
S/N:	287748			
Open time in sec:				
Holding psi:				
Resiliency cc:	NOT TESTED			
Test leak rate ml/m:	189.0			
Metering psi:				
Calib. leak in gph:	3.00			
Results:	PASS			

**COMMENTS**

PASS

### LINE TEST RESULTS

Test type: MID-1

LINE	A	B	C	D
Material:	FLEX			
Diameter (in):	2.0			
Length (ft):	250.0			
Test psi:	60			
Bleedback cc:	180			
Test time (min):	60			
Start time:	09:48	NOT TESTED	NOT TESTED	NOT TESTED
End time:	10:48			
Final gph:	0.000			
Result:	PASS			
Pump type:	PRESSURE			
Pump make:	FE PETRO			

**COMMENTS**

DISPENSER TO BALL VALVE

Impact Valves Operational: YES



8501 N MOPAC EXPRESSWAY, SUITE 400  
AUSTIN, TEXAS 78759  
(512) 451-6334  
FAX (512) 459-1459

TEST DATE:06/05/09

WORK ORDER NUMBER:6329963

CLIENT:CASEY'S GENERAL STORES

SITE:CASEY'S 2826

### COMMENTS

Premium and diesel lines and leak detectors passed. Unleaded line and leak detector passed. The unleaded tank failed due to an air ingress above the product level. The product level was at 94.5" at the time of the test meaning the air leak was in the upper 24.5" of the tank. During the test, all risers were isolated down to tank top eliminating any tank top components. This included isolation of the vent and removal of the submersible pump. Recommend to uncover the tank top, inspect, repair, and re-test. Recommend to not fill the tank beyond the 94.5" of product that was present during the time of the test.

### PARTS REPLACED

QUANTITY	DESCRIPTION

### HELIUM PINPOINT TEST RESULTS (IF APPLICABLE)

ITEMS TESTED

### HELIUM PINPOINT LEAK TEST RESULTS

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# SITE DIAGRAM



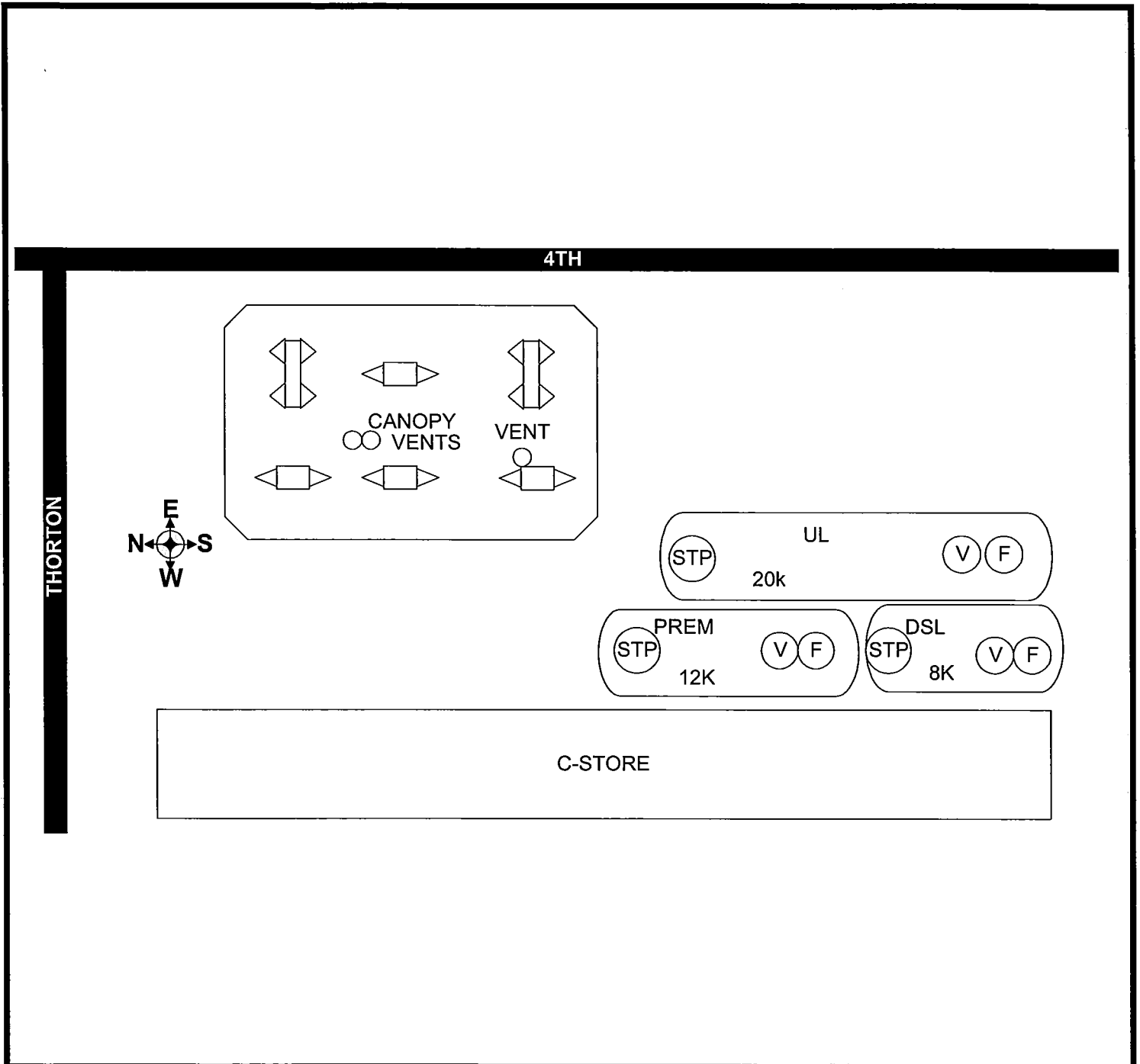
8501 N MOPAC EXPRESSWAY, SUITE 400  
AUSTIN, TEXAS 78759  
(512) 451-6334  
FAX (512) 459-1459

TEST DATE: 06/05/09

WORK ORDER NUMBER 6329963

CLIENT: CASEY'S GENERAL STORES

SITE: CASEY'S 2826





8501 N. MoPac Expressway, Suite 400  
Austin, Texas 78759  
Phone: (512) 451-6334  
Fax: (512) 459-1459

Date Printed and Mailed: 06/11/2009

KANSAS DEPT. OF HEALTH  
BUREAU OF ENVIRONMENTAL  
STORAGE TANK SECTION  
1000 SW JACKSON STREET, STE. 410  
TOPEKA, KS. 66612

Test Date: 06/05/2009  
Order Number: 6329963

Dear Regulator,

Enclosed are the results of recent testing performed at the following facility:

CASEY'S 2826  
2100 S 4TH ST

LEAVENWORTH, KS. 66048

Testing performed:  
Leak detector tests  
Line tests  
Tank Tests

Sincerely,

A handwritten signature in cursive script that reads 'Dawn Kohlmeier'.

Dawn Kohlmeier  
Manager, Field Reporting

06/11/2009  
JUN 11 2009  
BUREAU OF ENVIRONMENTAL STORAGE TANK SECTION  
KANSAS DEPARTMENT OF HEALTH

# **Appendix E**

## **Historical Documentation**

**2107 South 4th Street**  
2107 South 4th Street  
Leavenworth, KS 66048

Inquiry Number: 5723933.5  
July 26, 2019

## The EDR-City Directory Image Report



## TABLE OF CONTENTS

### SECTION

Executive Summary

Findings

City Directory Images

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

### **Disclaimer - Copyright and Trademark Notice**

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## EXECUTIVE SUMMARY

### DESCRIPTION

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

### RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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Data by

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### RESEARCH SUMMARY

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

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2014	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
1995	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
1992	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
1989	<input checked="" type="checkbox"/>	<input type="checkbox"/>	POLK DIRECTORY CO
1984	<input checked="" type="checkbox"/>	<input type="checkbox"/>	POLK DIRECTORY CO
1979	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	POLK DIRECTORY CO
1974	<input checked="" type="checkbox"/>	<input type="checkbox"/>	POLK DIRECTORY CO
1969	<input checked="" type="checkbox"/>	<input type="checkbox"/>	POLK DIRECTORY CO
1963	<input checked="" type="checkbox"/>	<input type="checkbox"/>	POLK DIRECTORY CO

## FINDINGS

### TARGET PROPERTY STREET

2107 South 4th Street  
Leavenworth, KS 66048

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
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### S 4TH ST

2014	pg A2	EDR Digital Archive
2010	pg A4	EDR Digital Archive
2005	pg A6	EDR Digital Archive
2000	pg A8	EDR Digital Archive
1995	pg A10	EDR Digital Archive
1992	pg A12	EDR Digital Archive
1989	pg A14	POLK DIRECTORY CO
1989	pg A15	POLK DIRECTORY CO
1984	pg A17	POLK DIRECTORY CO
1979	pg A20	POLK DIRECTORY CO
1979	pg A21	POLK DIRECTORY CO
1974	pg A24	POLK DIRECTORY CO
1969	pg A27	POLK DIRECTORY CO
1969	pg A28	POLK DIRECTORY CO
1963	pg A30	POLK DIRECTORY CO

## FINDINGS

### CROSS STREETS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
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### MARION ST

2014	pg. A1	EDR Digital Archive
2010	pg. A3	EDR Digital Archive
2005	pg. A5	EDR Digital Archive
2000	pg. A7	EDR Digital Archive
1995	pg. A9	EDR Digital Archive
1992	pg. A11	EDR Digital Archive
1989	pg. A13	POLK DIRECTORY CO
1984	pg. A16	POLK DIRECTORY CO
1979	pg. A18	POLK DIRECTORY CO
1979	pg. A19	POLK DIRECTORY CO
1974	pg. A22	POLK DIRECTORY CO
1974	pg. A23	POLK DIRECTORY CO
1969	pg. A25	POLK DIRECTORY CO
1969	pg. A26	POLK DIRECTORY CO
1963	pg. A29	POLK DIRECTORY CO

## **City Directory Images**

**MARION ST 2014**

108	KLOSTERMAN, SHAQUANDA M
110	DAVIS, DAVID L
111	CHINN, RICHARD L
112	SCHAUB, JOE F
115	ELLIOTT, CONNIE R
119	WOODS, DONNA R
123	UTTERFIELD, DOROTHY L
150	ENAULT, DEE
	FLOWERS, XAVIER B
	HARRIS, EDWARD L
	KUYKENDALL, JACQULYN
	LANTER, DUSTIN
	NEAL, L
	PAYNE, ARNOLD
	REED, JAMES
	VALLEJOS, MARY
	YOUMANS, CARILYN
151	RAMPTON, D
201	AMERICAN LAWN AND FENCE LLC
	AMERICAN OVERHEAD DOOR & FENCE
211	CENTURY VAN LINES INC
235	LAKE ROBERT
315	ADVANCED AUTO TRCK & TRLR REPR
408	OCCUPANT UNKNOWN,
409	JEFFRIES, RICH L
410	STONE, MATTHEW M
411	RUNYAN, TERRILL L
412	LORD, RON
414	OCCUPANT UNKNOWN,
416	WILSON, SHANNON S
418	OCCUPANT UNKNOWN,
420	ANDERSON, SHANNA
750	MOUNT MUNCIE AIRPORT (72KS)
768	STEPP PAINTING SERVICES LLC
810	RON CHMIDLING CONSTRUCTION
	SHMIDLING RONALD J
900	TRINITY LUTHERAN CHURCH

## S 4TH ST 2014

1904 CRESPO, MIGUEL  
 MEYER, ANDREW  
 1906 OCCUPANT UNKNOWN,  
 1908 OCCUPANT UNKNOWN,  
 1910 OCCUPANT UNKNOWN,  
 1912 OCCUPANT UNKNOWN,  
 1918 LING, RACHEL  
 1922 TURNAGE, KEITH O  
 1926 PRICE, JOE C  
 2017 GREAT WESTERN MFG CO INC  
 2024 GRAJA INC  
 HANS MANAGEMENT  
 2030 LAND OF AHZ  
 2100 CASEYS GENERAL STORES INC  
 2106 RENT-A-CENTER INC  
 2107 FOUR B CORP  
 2110 USA NAILS  
 2127 WILLIAMS RETAIL LIQUOR  
 2200 BRANSON, TIM  
 2201 BALANCED BDY CHRPRTC  
 2205 A & D HEARING AID CENTER  
 A & K RENTALS  
 ALBEE, KEVIN H  
 AMERICAN PAYDAY LOANS  
 ANESTHESIA SERVICES PA  
 2209 GENERAL PARTS INC  
 2212 AH TANNERY INC  
 2300 DAWSON THOMAS ATTORNEY AT LAW  
 DAWSON, THOMAS M  
 GAIL RRDONS THRAPEUTIC MASSAGE  
 REARDON KEVIN E  
 WILLCOTT MICHEAL F  
 WILLCOTT, MICHAEL  
 2309 SMITH TANYA  
 SONIC CORP  
 2310 MIDAMERICAN BANK AND TR CO NA  
 2508 OCCUPANT UNKNOWN,  
 2510 PENNINGTON, MIKE  
 2516 BEST, SHEILA  
 THOMAS, MARK A



**MARION ST 2010**

108 BRANDON SHELLEY PAINTING/TILE  
OCCUPANT UNKNOWN,  
110 DAVIS, DAVID L  
111 CHINN, RICHARD L  
112 OCCUPANT UNKNOWN,  
115 OCCUPANT UNKNOWN,  
119 SIMPSON, CHAYNE  
123 WELLS, RICHARD R  
150 FLOWERS, XAVIER  
MEIKLE, THOMAS  
NEAL, L  
PAYNE, ARNOLD  
PIERCE, MARK  
REED, JAMES  
151 MARION APARTMENTS  
211 CENTURY VAN LINES INC  
235 LAKE ROBERT  
313 WAGES REPAIR SERVICE  
315 ADVANCED AUTO TRCK & TRLR REPR  
408 BISHOP, ROBERT E  
409 DZIADURA, DARLENE  
410 RUSSELL, MARVIN  
411 PRO POWER WASH  
RUNYAN, TERRILL L  
412 EDWARDS, SHIRLEY  
LORD, RON  
414 WHITE, MICHAEL  
416 HERSKIND, ASHLEY  
418 OCCUPANT UNKNOWN,  
420 OCCUPANT UNKNOWN,  
620 ELIZABETH RAMIREZ  
750 MOUNT MUNCIE AIRPORT (72KS)  
810 SHMIDLING RONALD J  
905 TRINITY LUTHERAN CHURCH

## S 4TH ST 2010

1904 MEYER, ANDREW  
 1906 OCCUPANT UNKNOWN,  
 1908 OCCUPANT UNKNOWN,  
 1910 OCCUPANT UNKNOWN,  
 1912 LAWSON, TYRONE  
 1918 DAME, TRACY  
 1922 OCCUPANT UNKNOWN,  
 1926 PRICE, JOE C  
 2017 GREAT WESTERN MFG CO INC  
 2024 GRAJA INC  
 HANS MANAGEMENT  
 2030 JC PENNEY CORPORATION INC  
 LAND OF AHZ  
 2100 CASEY GENERAL STORE  
 2106 RENT-A-CENTER INC  
 2107 FOUR B CORP  
 RICE GARDEN INC  
 2110 USA NAILS  
 2127 WILLIAMS RETAIL LIQUOR  
 2200 BRANSON, TIM  
 2201 BALANCED BODY CHIRO CLINIC LLC  
 2205 A & D HEARING AID CENTER  
 A & K RENTALS  
 ALBEE, KEVIN H  
 AMERICAN PAYDAY LOANS  
 ANESTHESIA SERVICES PA  
 2209 GENERAL PARTS INC  
 2212 AH TANNERY INC  
 2300 DAWSON THOMAS ATTORNEY AT LAW  
 DAWSON, THOMAS M  
 GAIL RRDONS THRAPEUTIC MASSAGE  
 LOBER, TERENCE  
 REARDON KEVIN E  
 WILLCOTT MICHEAL F  
 WILLCOTT, MICHAEL  
 2309 HENES ROBERT  
 SMITH TANYA  
 2310 MIDAMERICAN BANK AND TR CO NA  
 2500 JOHNSON ELLIS CORP  
 2508 GOFF, CHRIS  
 2510 PENNINGTON, MIKE  
 2516 GALLAGHER, SUZANNE  
 HELFER, JAMES  
 MASTERS, NATHAN  
 SCHELL, LELAND  
 WILLIAMS, KENNETH W

**MARION ST 2005**

108	OCCUPANT UNKNOWN,
110	DAVIS, DAVID L
111	CHINN, JOEL M
112	SCHAUB, CLINT J
115	ELLIOTT, RICHARD
123	WELLS, RICHARD R
151	MARION APARTMENTS
211	CENTURY VAN LINES INC
235	LAKE ROBERT
313	WAGES REPAIR SERVICE
315	ADVANCED AUTO TRCK & TRLR REPR
408	BISHOP, ROBERT E
409	JEFFRIES, MARY J
411	OCCUPANT UNKNOWN, PRO POWER WASH
412	HAYS, MICHELLE D LORD, RON
414	OCCUPANT UNKNOWN,
416	WILSON, SHANNON S
418	DAVIS, ELZADA
420	WHITE, ANTOINETTE
605	LIGHT REMODELING LLC
810	SHMIDLING RONALD J
905	TRINITY LUTHERAN CHURCH

## S 4TH ST 2005

1904	GIBSON, LUKE
1906	OCCUPANT UNKNOWN,
1908	OCCUPANT UNKNOWN,
1910	OCCUPANT UNKNOWN,
1918	DAME, TRACY MULLINS, HARRY
1922	OCCUPANT UNKNOWN,
1926	SIMANOWITZ, MICHAEL B
2017	GREAT WESTERN MANUFACTURING CO
2024	GRAJA INC
2025	TADS TROPICAL SNO
2030	LAND OF AHZ
2100	BURGER KING CORPORATION
2106	RENT-A-CENTER INC
2107	FOUR B CORP PRICE CHOPPER PRICE CHOPPER BARBER SHOP PRICE HOPPER FLOWER MARKET RICE GARDEN INC
2110	TFSNET INC INTERNET USA NAILS
2127	WILLIAMS RETAIL LIQUOR
2200	ALLENS FURNITURE & APPLIANCE BRANSON, TIM HAGEMASTER, ABIGAIL
2201	AMERICAN CREATIVE ENTERPRISES ANAND MAN MD
2205	A & D HEARING AID CENTER A & K RENTALS ALBEE, LEE D AMERICAN PAYDAY LOANS ANESTHESIA SERVICES BREWSTER TERRY DEAN EXCEL TEAM LEAVENWORTH
2209	MCQUEEN, CHARLENE A
2212	AH TANNERY INC
2300	DAWSON THOMAS ATTORNEY AT LAW FULLER, GARY L NANCY CASADO PSYCHIATRIC PROFESSIONAL ASSOC REARDON KEVIN E THOMAS W HILL LSCSW
2309	SMITH TANYA
2310	MIDAMERICAN BANK AND TR CO NA
2500	JOHNSON ELLIS CORP
2508	OCCUPANT UNKNOWN,
2516	GALLAGHER, SUZANNE TURNER, JEFF G

**MARION ST 2000**

110 DAVIS, DAVID L  
111 OCCUPANT UNKNOWN,  
112 SCHAUB, JOE F  
115 HAYASHI, OLGA  
119 TAYLOR, E  
211 CENTURY VAN LINES INC  
235 LAKES AUTO SALVAGE  
313 WAGES REPAIR SERVICE  
WOODWORKING BY SUZANNE  
315 ADVANCED AUTO TRCK & TRLR REPR  
408 THOMAS, VEDA M  
409 OCCUPANT UNKNOWN,  
410 RUNNEBAUM, RAY  
411 BARNETT, MELVIN  
412 OCCUPANT UNKNOWN,  
418 PILKINGTON, RICK  
905 TRINITY LUTHERAN CHURCH

**S 4TH ST      2000**

1904	GIBSON, LUKE
1906	VINES, ANITA J
1910	OCCUPANT UNKNOWN,
1918	MULLINS, HARRY
1926	SIMANOWITZ, MICHAEL B
2017	GREAT WESTERN MANUFACTURING CO SCHROEDER, DAVID
2024	NEWKIRK FOODS INC
2030	LAND OF AHZ
2031	BURGER KING CORPORATION BURGER, KING
2107	FOUR B CORP
2110	BOAL COMPUTERS TFSNET INC INTERNET
2111	TACO MINNIE INC
2127	WILLIAMS RETAIL LIQUOR
2200	ALLENS FURNITURE & APPLIANCE
2201	ANAND MAN MD
2205	A & D HEARING AID CENTER A & K RENTALS A&D HEARING AID CENTER ANESTHESIA SERVICES EMERY CHIROPRACTIC GEM SOURCE S & S COMPUTERS LLC
2300	CASADO, NANCY DAWSON THOMAS M REARDON KEVIN E
2310	MIDAMERICAN BANK AND TR CO NA
2500	JOHNSON ELLIS CORP
2510	PENNINGTON, EVERETT
2516	MATHIS, CAROLYN A

**MARION ST 1995**

108 OCCUPANT UNKNOWNN  
110 DAVIS, DAVID L  
112 SCHAUB, JOE F  
115 OCCUPANT UNKNOWNN  
123 HYSON, HAROLD E  
141 OCCUPANT UNKNOWNN  
203 ONE STOP AUTO SHOP  
211 AERO MAYFLOWER AGENCY  
CENTURY VAN LINES INC  
313 OCCUPANT UNKNOWNN  
WAGES REPAIR SERVICE  
WOODWORKING BY SUZANNE  
319 ADVANCED AUTO & TRUCK REPAIR  
HUPP, DANNY  
408 THOMAS, VEDA M  
409 OCCUPANT UNKNOWNN  
410 OCCUPANT UNKNOWNN  
411 BARNETT, MELVIN  
412 OCCUPANT UNKNOWNN  
414 DIJOSEPH, JOHN  
418 YADON, BOBBIE  
420 OCCUPANT UNKNOWNN  
600 MAGRUDER, J E



**S 4TH ST 1995**

2017 GREAT WESTERN MANUFACTURING CO  
2024 NEWKIRK FOODS INC  
2030 OF AHZ  
2031 BURGER KING  
2106 VIDEO EXPRESS  
2107 FOUR B CORP  
2111 TACO MINNIE INC  
2127 WILLIAMS RETAIL LIQUOR  
2201 ANAND MAN M  
DE SOUZA DERRICK J MD PA  
HABIB FARIZ  
HABIB, FARIZ  
NORTH HILLS HOSPITAL  
2205 A&D HEARING AID CENTER  
ANESTHESIA SERVICE INC  
OCCUPANT UNKNOWNN  
2209 BUDY, JOHN  
2212 LITTLE CAESARS PIZZA  
2215 SONIC  
2300 CASADO, NANCY  
COURTNEY, WILLIAM H  
DAWSON THOMAS M  
DAWSON, THOMAS M  
FULLER GARY L  
HUMAN POTENTIAL DEVELOPMENT CO  
MARTINEZ, ED  
POL, P A  
REARDON KEVIN E  
2500 SCIENCE APPLICATIONS INTL CORP  
T G INC  
2508 BRESHEARS, S  
2510 PENNINGTON, EVERETT  
2516 BURNS, JOHN  
MATHIS, C  
MERRIMAN, HEATH  
MOODY, TAMMY J

**MARION ST 1992**

110	DAVIS, DAVID L
112	SCHAUB, JOE F
115	BRILLOUET, TRUDY
123	HYSON, HAROLD E
211	CENTURY VAN LINES INC
235	LAKES AUTO SALVAGE
313	WAGES REPAIR SERVICE
319	HUPP, DANNY
408	THOMAS, VEDA M
410	PARKER, D J
411	SWITZER, DOUGLAS H
414	HENDERSON, VICKI
418	BROWN, DENNIS JR
600	MAGRUDER, J E

**S 4TH ST      1992**

1904    DEEKEN, L J  
1926    SIMANOWITZ, MICHAEL B  
2017    GREAT WESTERN MANUFACTURING CO  
2024    NEWKIRK FOODS INC  
2106    VIDEO EXPRESS  
2107    FOUR B CORP  
       PRICE, CHOPPER  
2110    MARTIES WHOLESale  
2111    TACO MINNIE INC  
2201    DE SOUZA DERRICK J MD PA  
2205    ANESTHESIA SERVICE INC  
2209    BUDY, JOHN  
2215    SONIC  
2300    DAWSON THOMAS M  
2500    SCIENCE APPLICATIONS INTL CORP  
2507    HAAS, FRED J  
2510    PENNINGTON, EVERETT  
2516    WATKINS, L

## MARION ST 1989

8

MARION ST -FROM 2200 1ST  
WEST

ZIP CODE 66048

103 Anderson Rick © 682-1911

106 Biczak Agnes 682-4756

107 Outlaw Geo

108★Sittenauer M

110 No Return

111 Chinn Richd

112 Schaub Joseph F © 682-4871

115★Brillouet Trudy L

119★Clark Jeffrey L

123 Hyson Harold © 682-6110

S 2D ST INTERSECTS

201 Auto Center repr 682-3576

207-09 Storage Box Inc whse  
rental stge 727-1236

211 Century Van Lines 651-3600

220 Regnier Dennis

235 Lake's Auto Salvage 682-3191

236 Lake Cath P Mrs © 682-7627

S 3D ST INTERSECTS

City Of Leavenworth Street

Department 682-9201

6

309 No Return

313 Wages Repair Service wldr  
682-7086315 Dan's Truck Repair & Mobile  
Shop 651-2079

S 4TH ST INTERSECTS

408 Pleaz U Hair Salon 651-4240

Thomas Veda 651-4240

409 No Return

410★Benntt W Scot 682-9847

ROSE ST INTERSECTS

411 Switzer Douglas © 651-3727

412 Vacant

414 Valencia John

416 Vacant

418 No Return

420 Wessel Marvin A 651-0309

S 5TH ST INTERSECTS

2D AV INTERSECTS

NUMBERS IRREGULAR

## S 4TH ST 1989

1900 Fuji Restaurant 651-2552

2000 Voss J L © 682-6675

1918 Vacant

1 Vacant (12 Apts 1-12)

2006 Vacant

1914 Leavenworth Decorating

Center Inc carpets ret

682-8483

APACHE ST INTERSECTS

2010 Kentucky Fried Chicken

682-1811

2017 Great Western Mfg Co Inc

mach shop 682-2291

1926 Simanowitz Josephine M ©

682-5853

2030 Flower Garden ret 682-0309

THORNTON ST INTERSECTS

2100 Burger King restr 682-9889

2031 Simpson Helen L Mrs ©

682-0917

2105 No Return

2106 Expressi Video movie & vcr

rntl 651-3622

2109 C & D Sales II new-used

furn 651-4910

2110 Brune Retail Liquor 682-7410

2111 Taco Grande restr 651-6336

MARION ST INTERSECTS

2200 Vacant



S 4TH ST 1989

**S 4TH ST-Contd**

2200½ Vacant

2201 Vacant

2205 A & D Hearing Aid Center  
682-1308Anesthesia Service Inc  
682-1189

2206 Vacant

2209 Budy John C © 682-5870

2212 Little Caesar's Pizza 651-5333

2216 No Return

**EVERGREEN ST INTERSECTS**2300 Monarch Financial Group  
682-30002309 Sonic Drive-In restr  
682-4545**STATE AV INTERSECTS**2300 Dawson Thos M Hon lwyr  
682-5331

Kelly Michl E lwyr 682-5331

2300½ No Return

2310 Leavenworth National Bank  
& Trust 682-2300**FIVE MILE CREEK BRIDGE  
INTERSECTS****SANTA FE ST INTERSECTS**

2500 Vacant

Perceptronics Inc computer  
software 682-7434

## MARION ST 1984

	8	5
MARION ST —FROM 2200 1ST		5
WEST		5
ZIP CODE 66048		5
103 Early Abe L © 651-6696		5
106 Biczak Agnes L © 682-4756		5
107 Vacant		
108 Vacant		
111 Murphy James B Jr ©		
682-1763		
112 Schaub Joseph F © 682-4871		
115★Haas Francis J © 651-2713		9
119 Schmidt Terry L		9
123 No Return		
S 2D ST INTERSECTS		
207-09 Storage Box Inc whse		
rental stge 682-1786		9
211 Century Van Lines 651-3600		
220★Tillen Cindy L 682-5240		
235 Lake's Auto Salvage 682-3191		
236 Lake Harley L © 682-7627		
S 3D ST INTERSECTS		1
City Street Department		
Service Center (shop)		
682-9201		
	6	
309 No Return		
313 Wages Repair Service wldr		
682-7086		
315 M & M Body Shop auto body		
repr 682-6842		
319½ Vacant		
S 4TH ST INTERSECTS		
408 Wrigley David E		
409 Loboda Helen A © 682-3749		
410 Vacant		
ROSE ST INTERSECTS		
411 No Return		
412 Vacant (412-420)		
S 5TH ST INTERSECTS		
2D AV INTERSECTS		
550 Magruder Carrie G Mrs ©		
682-1028		
4TH AV INTERSECTS		
554 Summers Ralph E © 682-1021		
560 Cott Gerald D © 651-3558		
561 Vacant		



## S 4TH ST 1984

## S 4TH ST—Contd

- 1728 No Return  
 1732 T C R Work-N-Western  
 western wear ret 651-5623  
 1734 Paradise Donuts 651-6351  
 1738 Taco Johns restr 682-7666  
 PENNSYLVANIA ST BEGINS  
 1802 Vacant  
 1808 Thompson Ernest D ©  
 682-9065  
 1812 Hughes Bill & Son Used  
 Cars 682-3383  
 1901 G N B Batteries Inc auto  
 battery mfrs 682-1551  
 1904 Quest Lena J Mrs ©  
 682-4086  
 1912 A & W Family Restaurant  
 682-3077  
 1924 Saco Service Station gas &  
 beverage 682-0233  
 REES ST BEGINS  
 1936 Oriental Food & Gift Store  
 651-2552  
 2000 Voss J L 682-6675  
 2002 Decorating Center carpet  
 vinyl tile retail 682-8483  
 2004 Piechowiak Clarence J  
 682-1053  
 2006 Simanowitz Josephine M Mrs  
 © 682-5853  
 APACHE ST INTERSECTS  
 2010 Kentucky Fried Chicken  
 682-1811  
 2017 Vacant  
 2020 Flower Garden flowers ret  
 682-0309  
 THORNTON ST INTERSECTS  
 2100 Burger King restr 682-9889  
 2101 Simpson Helen L Mrs ©  
 682-0917  
 2105 No Return  
 2106 Freight Furniture Warehouse  
 furniture retail 682-4441  
 2109 Vacant  
 2110 Barnhart Retail Liquor  
 682-7410  
 2111 Taco Grande restr 651-6336  
 MARION ST INTERSECTS  
 2200 Mor-Gain com sys 682-3142  
 2200½ Vacant  
 2201 De Souza Derrick J phys  
 651-6030  
 De Souza Cherilyn M phys  
 651-6030  
 2205 Burns Grigsby & Thompson  
 dentists 682-8480  
 Grigsby Keith dentist  
 682-8480  
 Burns F Robt dentist  
 682-8480  
 Thompson R Wayne  
 orthodontist 682-8480  
 2206 Urdea Stella G © 682-3542  
 2209 Budy John C © 682-5870  
 2212 Mister Donut donuts ret  
 651-7031  
 EVERGREEN ST INTERSECTS  
 2215 Vacant  
 STATE AV INTERSECTS  
 2300 Kellner Realty Inc 682-8882  
 2300½ Inselman Edmund 682-3362  
 2310 Vacant  
 FIVE MILE CREEK BRIDGE  
 INTERSECTS  
 SANTA FE ST INTERSECTS  
 2500 Century Twenty-One-  
 American Real Estate  
 682-5550  
 Perceptronic Inc computer  
 software 682-7434  
 2501★Nichols Mary  
 2507 Phillips Margt I Mrs ©  
 682-8696  
 2508 Vacant  
 2509 First A G Church Annex  
 682-0508  
 2510 Pennington Everett M ©  
 682-6206  
 2516 Apartments  
 1 Vacant  
 2★Jefferson David W  
 682-2171  
 3 Vacant  
 4★Ellis Christie  
 SHERIDAN ST INTERSECTS  
 2601 Assembly Of God Church  
 682-0508  
 2604 Vacant  
 2606 Horton Mike © 651-5097  
 2608 Sienkowski Michl C ©  
 682-4870  
 2612 Paulson Merritt E ©  
 2613 Willey James H © 682-3996  
 2616 Martin Ann E Mrs ©  
 682-1297  
 2619 Coffey's Wrecker Service  
 682-3091  
 A R B's Body Shop auto  
 reprs 682-3091  
 Coffey Roy B Jr 682-3091  
 2620★Beckner Wm F 682-5239  
 VILAS ST INTERSECTS

MARION ST 1979

8

**MARION ST —FROM 2200 1ST  
WEST****ZIP CODE 66048****103★Earl A L © 651-6696****106 Biczak Agnes L © 682-4756****107 Bennion Jim ©****111 No Return****112 Schaub Joseph F © 682-4871****115 Vacant****S 2D ST INTERSECTS**



## MARION ST 1979

204 No Return

207-09 Storage Box Inc whse  
rental stge 682-1786

220 Honey Ira R ©

228 Vacant

**FIVE MILE CREEK BRIDGE**

235 Lake's Auto Salvage 682-3191

236 Lake Harley L © 682-7627

**S 3D ST INTERSECTS**

City Street Department

Service Center shop 682-9201

**C NW RY CROSSES**

**6**

309★Mills Hawley

313 Wages Repair Service wldr  
682-7086

315 No Return

319½ Vacant

**S 4TH ST INTERSECTS**

408 Wrigley David E © 651-4517

409 Loboda Helen A © 682-3749

**ROSE ST INTERSECTS**

411★Brown Rita Mrs 651-7570

**S 5TH ST INTERSECTS**

**2D AV INTERSECTS**

550 Magruder Jerrel E ©  
682-1028

S 4TH ST 1979

**S 4TH ST—Contd**

2004 Piechowiak Clarence J  
682-1053

2006 Simanowitz Josephine M Mrs  
© 682-5853

**APACHE ST INTERSECTS**

2010 Kentucky Fried Chicken  
682-1811

2017 Simon Johnson Co food  
processing equip mfr  
682-8150

2020 Vacant

**THORNTON ST INTERSECTS**

2100 Burger King (restr) 682-9889

2101 Simpson Helen L Mrs ©  
682-0917

2105 Oertel Leo R © 682-3310

2106 Pay Less Shoe Store  
682-2693

2109 Holly Goldie F Mrs ©

2110 Barnhart Dixie E Retail  
Liquor 682-7410

2111 Taco Grande restr 651-6336

**MARION ST INTERSECTS**

2200 Mor Gain Co mfg antennas  
682-8822

2200½ Crowley Sheryl F 682-3249

2201 Vacant

S 4TH ST 1979

2205 Vernon Burns & Neath P A  
dentists 682-8480

Vernon Jerry pedodontist  
682-8480

Burns F Robt dentist  
682-8480

Neath Charles pedodontist  
682-8480

Thompson Wayne  
orthodontist 682-8480

Grigsby Keith dentist  
682-8480

2206 Urdea Stella G © 682-3542

2209 Budy John C © 682-5870

2212 Vacant

EVERGREEN ST INTERSECTS

2215 Sonic Drive In restr 682-5088

STATE AV BEGINS

2300 Kellner Realty 682-8882

2310 J B's Big Boy restr 651-3972

FIVE MILE CREEK BRIDGE

SANTA FE ST INTERSECTS

2500 Ko Brothers Body Shop auto  
body repr 651-4573



MARION ST 1974

6

**MARION ST —FROM 2200 1ST  
WEST****ZIP CODE 66048****106 Biczak Agnes L © 682-4756****S 2D ST INTERSECTS****220 Honey Ira R © 682-8684****FIVE MILE CREEK BRIDGE****235 Lake's Auto Salvage 682-3191****236 Lake Harley L © 682-4300****300 ★ Birk Gerald L 682-8157****309 Call Albert L © 651-2423****313 Wages Repair Service wldr  
682-7086****S 4TH ST INTERSECTS****408 ★ Wrigley Vincent J 651-3544****ROSE ST INTERSECTS****411 ★ Baskas James A 651-5207****S 5TH ST INTERSECTS**

## MARION ST 1974

101

**MARION ST—Contd****2D AV INTERSECTS****550 Magruder Jerrel E ©****682-1028****554 Summers Ralph E © 682-1021****560 Cott Photography coml****682-8085****Cott Gerald D © 682-8085****561 Eisler Charles 682-4947****562 Bogner James F © 682-0385****563 Maupin Harry E © 682-0427****564 Spencer Lawrence W****565 Freeman Frank F © 682-4458****566 No Return****567 Chaffee Robert D © 682-7004****30****MAPLE AV INTERSECTS**



## S 4TH ST 1974

## S 4TH ST—Contd

1901 Gould Inc Automotive  
     Battery Div 682-1551  
 1904 ★ Sanders Adolph A ©  
     682-3579  
 1906 Pizza Go-Go 682-9403  
 1912 A & W Root Beer 682-3077  
 1924 Wood Charles R Oil Co Inc  
     REES ST BEGINS  
 2000 Voss Henry L © 682-9699  
     Voss Motel 682-9699  
 2002 Kester Frank  
 2002½ Vacant  
 2004 ★ Piechowiak Clarence  
 2006 Simanowitz Josephine M Mrs  
     © 682-5853  
 2010 Kentucky Fried Chicken  
     682-1811  
 2017 Johnson Gordon Co poultry  
     processing equip mfr  
     682-8150  
 2020 Taco Grande restr 682-6436  
     THORNTON ST INTERSECTS  
 2100 Waltrip Garold S ©  
     682-7163  
     Leavenworth Motel 682-7163  
 2101 Simpson Noah A © 682-0917  
 2105 Oertel Leo R © 682-3310  
 2106 Pay Less Shoe Store  
     682-2693  
 2109 Holly Orville ©  
 2110 Johnson Liquor Store  
     682-7410  
     MARION ST INTERSECTS  
 2201 Salvation Army Family Serv  
     Store 682-7573  
 2205 Burns Veron Fletcher  
     Thompson & Assoc dentists  
     682-8480  
     Beall Robt D atty 682-7132  
     Hurley Patk J lwyr 682-7132  
     Vernon Jerry dentist  
     682-8480  
     Burns F Robt dentist  
     682-8480  
     Fletcher John A dentist  
     682-8480  
     Metropolitan Life Insurance  
     Co 682-5135  
 2206 Vacant  
 2208 Vacant  
 2209 Budy John C © 682-5870  
 2210 ★ Kennedy Vicki E  
 2212 Vacant  
     EVERGREEN ST INTERSECTS  
     STATE AV BEGINS  
 2300 Tingle Nelson E © 682-0633  
 2310 Barnwell Millard E ©  
     682-3163  
 2404 No Return  
     FIVE MILE CREEK BRIDGE  
 2415 Vacant  
     SANTA FE ST INTERSECTS

## MARION ST 1969

6

MARION ST -FROM 2200 1ST  
WEST

---ZIP CODE 66048

101 TAYLOR JAMES W ●

103 REED BENJ P ●

106 BICZAK AGNES L ●

682-4756

114 JEFFERSON RAYMOND S ●

682-0294

116 FITZHUGH CHARLES N ●

682-6819

---S 2D ST INTERSECTS

219 VACANT

220 HONEY IRA R ● 682-8684

228 VACANT

---FIVE MILE CREEK BRIDGE

235 LAKE'S AUTO SALVAGE

682-3191

236 LAKE HARLEY L ●

682-4300

300 QUALLEY PURLEY D ●

682-5579

309 ARNOLD RETTIA V MRS

682-9449

RETTIA'S CONFECTIONERY

682-9449



## MARION ST 1969

**MARION ST—Contd**

313 WAGES REPAIR SERVICE  
WLDR 682-7086  
---S 4TH ST INTERSECTS  
408 GORSKI PEARL F MRS ●  
682-2453  
---ROSE ST INTERSECTS  
411 MEYERS FRANK J ●  
682-4873  
---S 5TH ST INTERSECTS  
550 MAGRUDER JERREL E ●  
682-1028  
554 SUMMERS RALPH E ●  
682-1021  
560 COTT GERALD D ●  
682-8085  
561 NO RETURN  
562 BOGNER JAMES F ●  
682-0385  
563 MAUPIN HARRY E ●  
682-0427  
564 NORRIS CHARLES F  
682-7070  
565 FREEMAN FRANK F ●  
682-4458  
566 EDMINSTER TED H ●  
682-4926  
567 CHAFFEE ETHEL E MRS ●  
682-1291

## S 4TH ST 1969

---REES ST BEGINS  
 2000 VOSS HENRY L •  
 682-9699  
 VOSS MOTEL 682-9699  
 2002 VACANT  
 REAR VACANT  
 2004 VOSSMER JOHN F •  
 682-1053  
 2006 VACANT  
 2010 VACANT  
 2017 JOHNSON GORDON CO  
 POULTRY PROCESSING  
 EQUIP MFR 682-8150  
 2020 TACO GRANDE RESTR  
 2100 WALTRIP GAROLD S •  
 682-7163  
 LEAVENWORTH MOTEL  
 682-7163  
 2101 SIMPSON NOAH A •  
 682-0917  
 ---THORNTON ST INTERSECTS  
 2105 OERTEL LEO R •  
 682-3310  
 2109 HOLLY ORVILLE •  
 2110 MC CARBREY'S LIQUOR  
 STORE 682-7410  
 2111 VACANT  
 2113 VACANT  
 2115 CURT'S MOTORCYCLES  
 682-4175  
 ---MARION ST INTERSECTS  
 2200 SCHALIPP BROCK E •  
 682-2951  
 BROCK'S ANTIQUES  
 682-2951  
 2201 VACANT  
 2204 NO RETURN  
 2205 BEALL ROBT D LWYR  
 682-7132  
 DANIELSON RICHD R  
 DENTIST 682-8567  
 METROPOLITAN LIFE  
 INSURANCE CO  
 682-5135  
 WATKINS CHARLES B  
 DENTIST 682-1312  
 2206 KEETH GARY A 682-5519



S 4TH ST 1969

16

## 4TH ST S—Contd

2208 ZINK JOHN J JR ●

682-2954

2209 BUDY JOHN C ●

682-5870

---EVERGREEN ST INTERSECTS

---STATE AV BEGINS

2300 LEE VESTLE ● 682-0741

2301 HENSLEY GEO E

2309 BARNETT JAMES D ●

682-5838

2310 BARNWELL MILLARD E

682-3163

---FIVE MILE CREEK BRIDGE

---SNYDER ST INTERSECTS

2415 DOSS VERNON E MRS ●

651-2318

---SANTA FE ST INTERSECTS

2501 BERRY IVAN C ●

682-7797

2507 PHILLIPS MARGT MRS ●

682-8696

## MARION ST 1963

6

**MARION — From 2200 1st west  
to S 18th**

- 101△ Taylor Jas W ⊙ carp  
 103 Reed Benj P  
 106 Biczak Agnes L ⊙  
 108 Oglesby Jake  
 114 Jefferson Strawther W ⊙  
 115 Vacant  
 116 Fitzhugh Chas N  
 118 Jefferson Thelma J Mrs

**S 2d intersects**

- 201△ Nolan Walter H ⊙  
 219 Vacant  
 220△ Honey Ira R ⊙  
 224 Vacant  
 228△ Janasz Anthony  
**Five Mile Creek Bridge**  
 236△ Lake's Auto Salvage  
 △ Lake Harley L ⊙  
 300△ Qualley Purley D  
 309△ Arnold Hettia V Mrs ⊙  
 Rettia's Place beer  
 313△ Wages Repair Service  
**S 4th intersects**  
 408△ Gorski Pearl F Mrs ⊙  
 409△ Loboda Gussie Mrs ⊙  
**Rose intersects**

- 411△ Meyers Frank J ⊙

**S 5th intersects**

- 550△ Magruder Jerrel E ⊙  
 554△ Summers Ralph E ⊙  
 560△ Cott Gerald D  
 561△ Smith Margt Mrs ⊙  
 562△ Bogner Jas F ⊙  
 563△ Maupin Harry E ⊙  
 564△ Norris Chas F

DOOR COVERING DOOR



## S 4TH ST 1963

## 4th S—Contd

1948△Marsh School of Accordion  
mus tchr

## Rees begins

2000△Voss Henry L (C)

△Voss Motel

2002△Marshall Lloyd E (C)

rear△Beaver Chas E (C)

2004△Vossmer John F (C)

2006△Simanowitz Michl B (C)

2010△Conrad Minnie A Mrs (C)

2017△Johnson Grodon Co poultry  
processing equip mfr  
Gordon Johnson Co poultry  
processing equip

2020△Buddie's Drive In restr

2100△Leavenworth Motel

△Waltrip Garold S (C)

2101△Simpson Allen N (C)

## Thornton intersects

2105△Oertel Leo R (C)

2109 Holley Orville E (C)

2110△Woellhart Liquor Store

2111 Vacant

2113 Coryell Mary E Mrs

2115△Thrift Shop used mdse

## Marion intersects

2200 Vacant

2200½ Vacant

2201△Pike Tavern

2203 Vacant

2204△Myers Robt L

2206 Courter Gladys M Mrs

2208△Zink John J jr (C)

2209△Budy John C (C)

## Evergreen intersects

## State av begins

2300△Drees Harold A

2301 Huff Oscar E (C)

2309△Herring Grace C Mrs (C)

2310△Barnwell Millard E (C)

## Five Mile Creek Bridge

## Snyder intersects

2404 Barnett Luther D

2409 Catt Fred A

2415 Doss Howard A (C)

## Santa Fe intersects

2501△Schumann Gertrude O  
Mrs (C)





2107 South 4th Street

2107 South 4th Street

Leavenworth, KS 66048

Inquiry Number: 5723933.3

July 23, 2019

## Certified Sanborn® Map Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# Certified Sanborn® Map Report

07/23/19

**Site Name:**

2107 South 4th Street  
2107 South 4th Street  
Leavenworth, KS 66048  
EDR Inquiry # 5723933.3

**Client Name:**

Environmental Works Inc.  
1455 East Chestnut Expressway  
Springfield, MO 65802  
Contact: Nicole Lounsberry



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## Certified Sanborn Results:

**Certification #** D983-4502-8FE9

**PO #** NA

**Project** 9068

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Sanborn® Library search results

Certification #: D983-4502-8FE9

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

*The Sanborn Library LLC Since 1866™*

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**2107 South 4th Street**

2107 South 4th Street

Leavenworth, KS 66048

Inquiry Number: 5723933.8

July 23, 2019

## The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Aerial Photo Decade Package

07/23/19

**Site Name:**

2107 South 4th Street  
2107 South 4th Street  
Leavenworth, KS 66048  
EDR Inquiry # 5723933.8

**Client Name:**

Environmental Works Inc.  
1455 East Chestnut Expressway  
Springfield, MO 65802  
Contact: Nicole Lounsberry



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**Search Results:**

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2017	1"=500'	Flight Year: 2017	USDA/NAIP
2014	1"=500'	Flight Year: 2014	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2007	1"=500'	Flight Year: 2007	USDA/NAIP
2002	1"=750'	Flight Date: February 13, 2002	USGS
1997	1"=500'	Acquisition Date: March 26, 1997	USGS/DOQQ
1991	1"=500'	Flight Date: October 12, 1991	USGS
1985	1"=500'	Flight Date: July 09, 1985	NHAP
1982	1"=500'	Flight Date: March 01, 1982	USGS
1975	1"=500'	Flight Date: May 04, 1975	USGS
1970	1"=500'	Flight Date: October 16, 1970	USGS
1960	1"=500'	Flight Date: November 24, 1960	USGS
1950	1"=500'	Flight Date: May 23, 1950	USGS
1947	1"=500'	Flight Date: November 30, 1947	USGS

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INQUIRY #: 5723933.8

YEAR: 2017

— = 500'







INQUIRY #: 5723933.8

YEAR: 2014

— = 500'







INQUIRY #: 5723933.8

YEAR: 2010

— = 500'







INQUIRY #: 5723933.8

YEAR: 2007

— = 500'







INQUIRY #: 5723933.8

YEAR: 2002

— = 750'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.





INQUIRY #: 5723933.8

YEAR: 1997

— = 500'





INQUIRY #: 5723933.8

YEAR: 1991

— = 500'







INQUIRY #: 5723933.8

YEAR: 1985

— = 500'







INQUIRY #: 5723933.8

YEAR: 1982

— = 500'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.



INQUIRY #: 5723933.8

YEAR: 1975

— = 500'







INQUIRY #: 5723933.8

YEAR: 1970

— = 500'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.



INQUIRY #: 5723933.8

YEAR: 1960

— = 500'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.





INQUIRY #: 5723933.8

YEAR: 1950

— = 500'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.





INQUIRY #: 5723933.8

YEAR: 1947

— = 500'



2107 South 4th Street

2107 South 4th Street

Leavenworth, KS 66048

Inquiry Number: 5723933.4

July 22, 2019

# EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Historical Topo Map Report

07/22/19

**Site Name:**

2107 South 4th Street  
2107 South 4th Street  
Leavenworth, KS 66048  
EDR Inquiry # 5723933.4

**Client Name:**

Environmental Works Inc.  
1455 East Chestnut Expressway  
Springfield, MO 65802  
Contact: Nicole Lounsberry



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Environmental Works Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

**Search Results:****Coordinates:**

<b>P.O.#</b>	NA	<b>Latitude:</b>	39.295671 39° 17' 44" North
<b>Project:</b>	9068	<b>Longitude:</b>	-94.907637 -94° 54' 27" West
		<b>UTM Zone:</b>	Zone 15 North
		<b>UTM X Meters:</b>	335497.98
		<b>UTM Y Meters:</b>	4351323.06
		<b>Elevation:</b>	778.48' above sea level

**Maps Provided:**

2012	1948
1984	1910
1976	1894
1975	1890
1970	
1961	
1951	
1949	

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## **Topo Sheet Key**

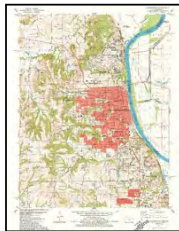
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### **2012 Source Sheets**



Leavenworth  
2012  
7.5-minute, 24000

### **1984 Source Sheets**



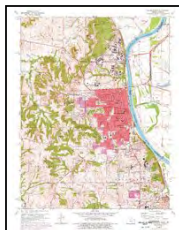
Leavenworth  
1984  
7.5-minute, 24000  
Aerial Photo Revised 1982

### **1976 Source Sheets**



LEAVENWORTH  
1976  
15-minute, 50000

### **1975 Source Sheets**



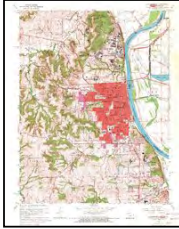
Leavenworth  
1975  
7.5-minute, 24000  
Aerial Photo Revised 1975



## **Topo Sheet Key**

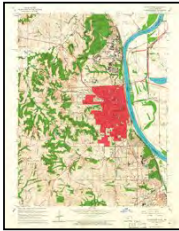
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### **1970 Source Sheets**



Leavenworth  
1970  
7.5-minute, 24000  
Aerial Photo Revised 1970

### **1961 Source Sheets**



Leavenworth  
1961  
7.5-minute, 24000  
Aerial Photo Revised 1947

### **1951 Source Sheets**



Leavenworth  
1951  
7.5-minute, 24000  
Aerial Photo Revised 1947

### **1949 Source Sheets**



LEAVENWORTH  
1949  
7.5-minute, 25000

## **Topo Sheet Key**

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

### **1948 Source Sheets**



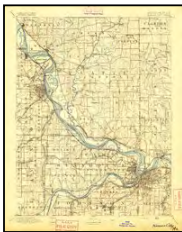
LEAVENWORTH  
1948  
15-minute, 50000

### **1910 Source Sheets**



Leavenworth  
1910  
15-minute, 62500

### **1894 Source Sheets**



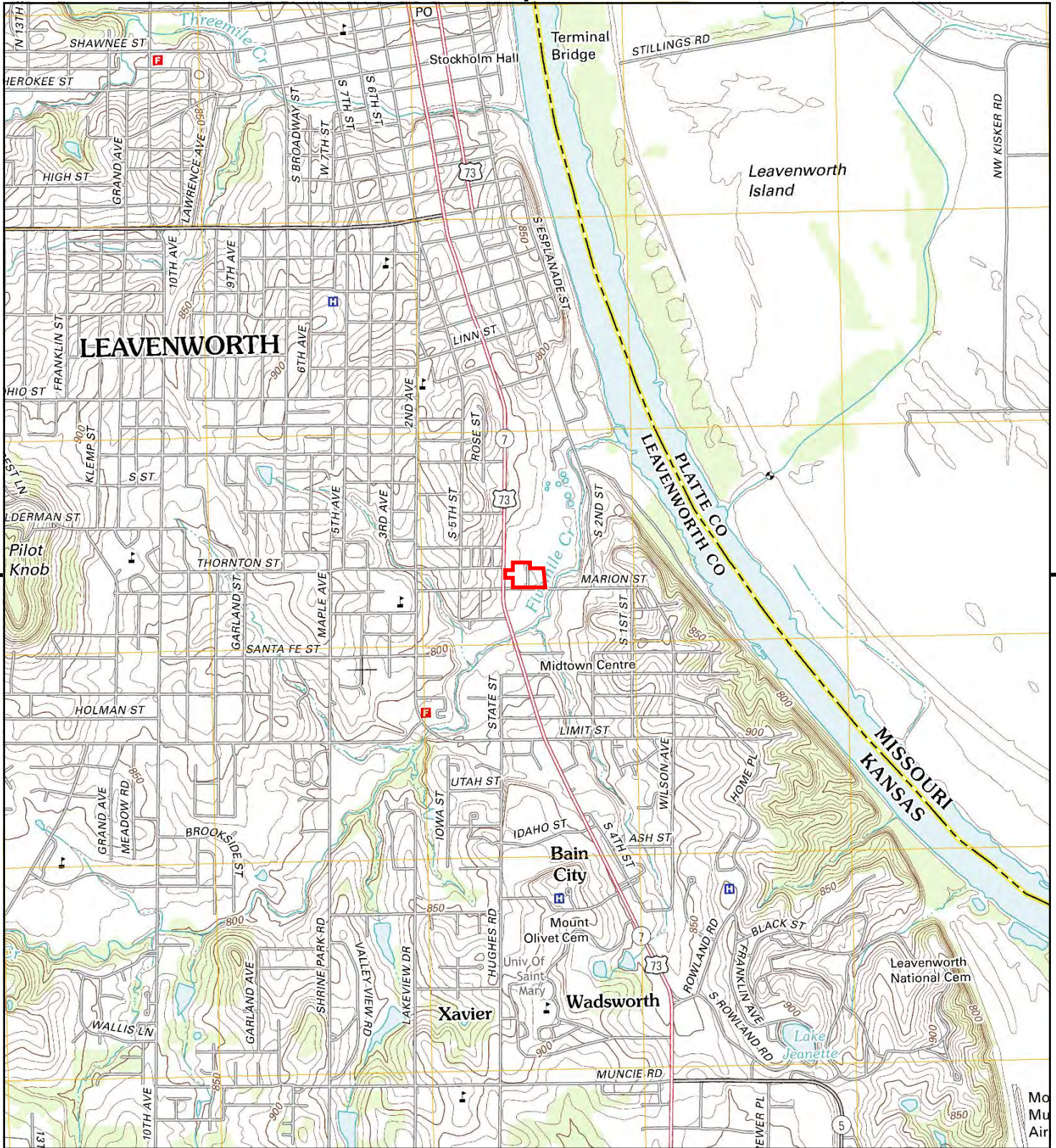
Kansas City  
1894  
30-minute, 125000

### **1890 Source Sheets**

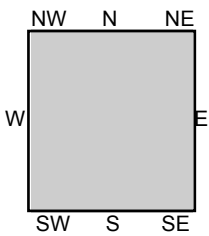


Kansas City  
1890  
30-minute, 125000





This report includes information from the following map sheet(s).

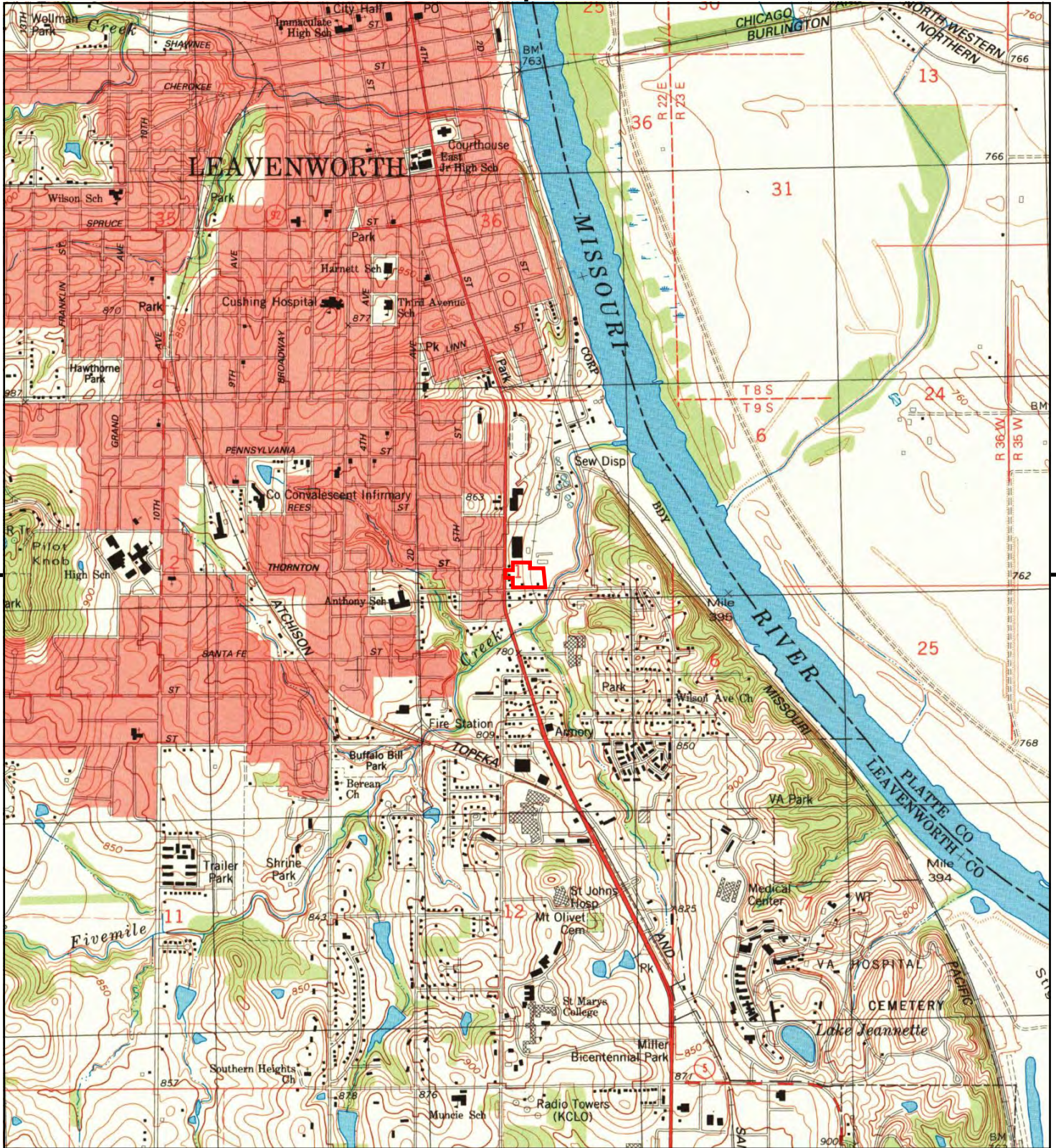


TP, Leavenworth, 2012, 7.5-minute

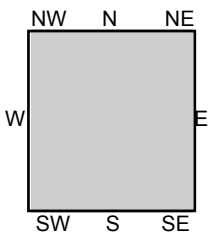
SITE NAME: 2107 South 4th Street  
 ADDRESS: 2107 South 4th Street  
 Leavenworth, KS 66048  
 CLIENT: Environmental Works Inc.







This report includes information from the following map sheet(s).

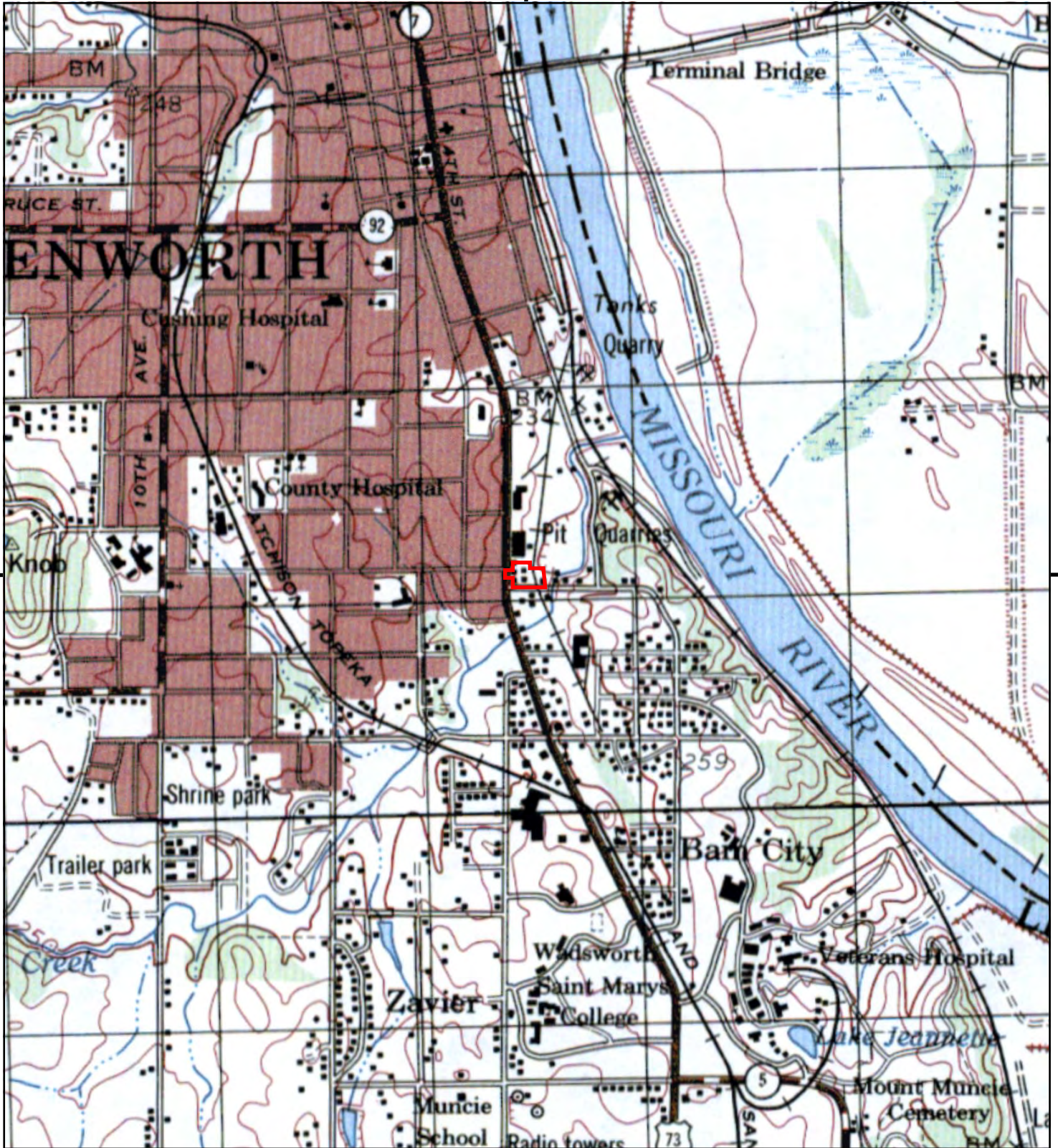


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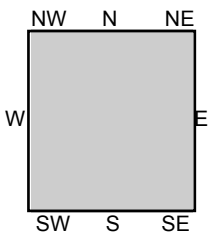
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 ADDRESS: 2107 South 4th Street  
 Leavenworth, KS 66048  
 CLIENT: Environmental Works Inc.







This report includes information from the following map sheet(s).

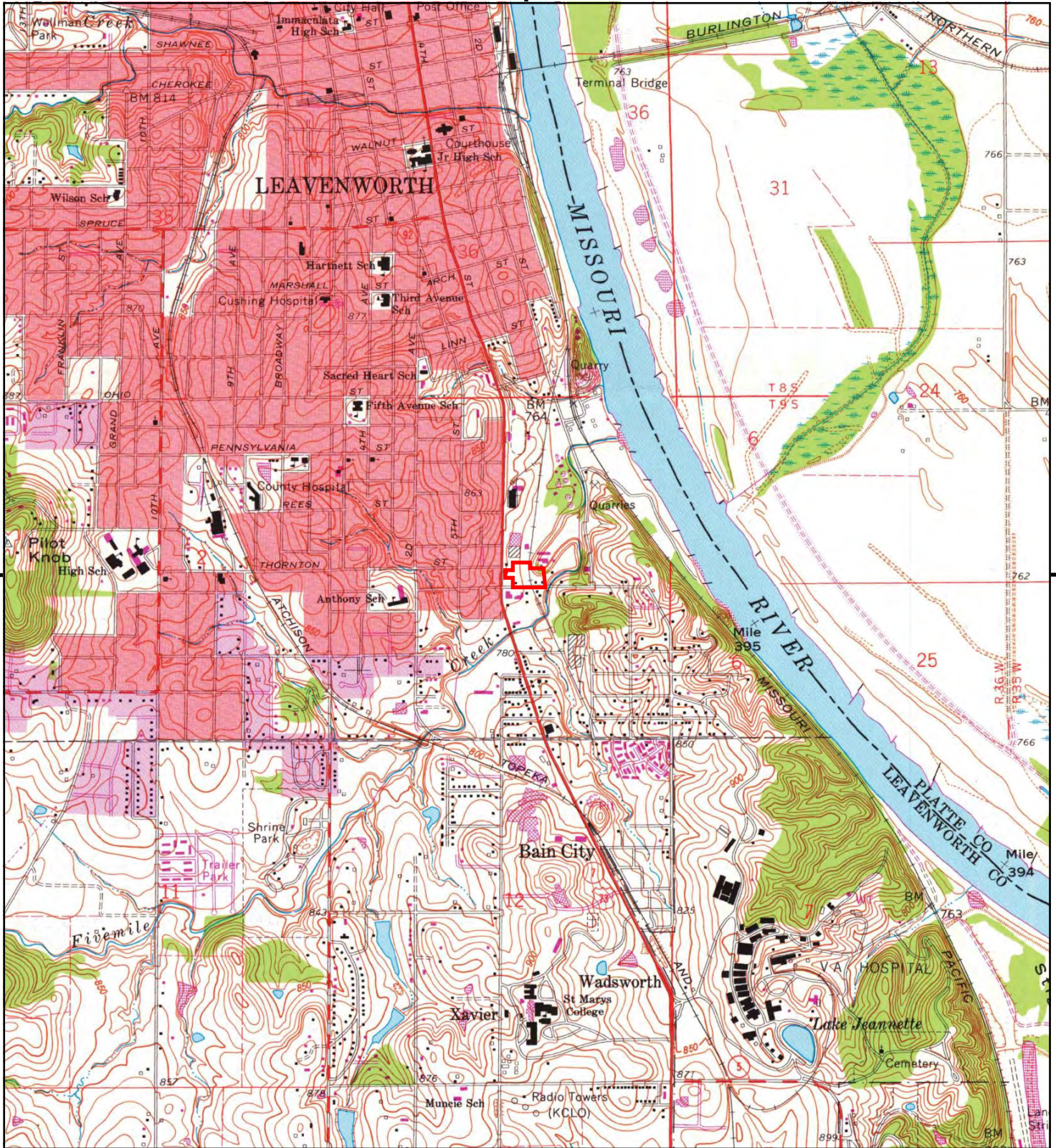


TP, LEAVENWORTH, 1976, 15-minute

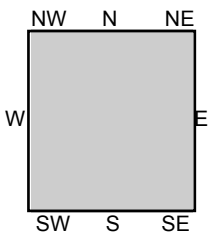
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 ADDRESS: 2107 South 4th Street  
 Leavenworth, KS 66048  
 CLIENT: Environmental Works Inc.







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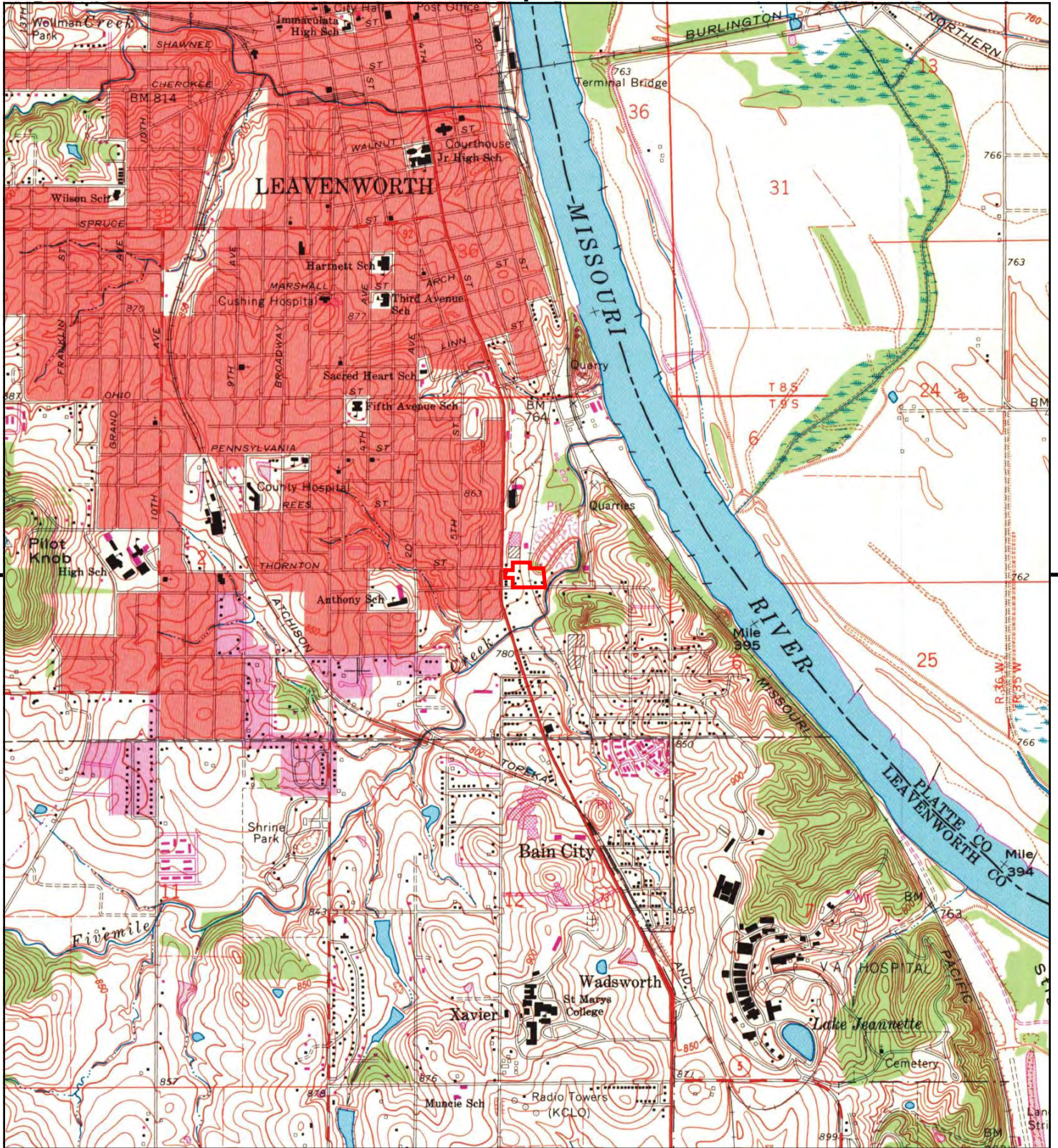


TP, Leavenworth, 1975, 7.5-minute

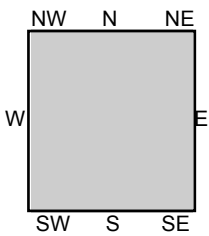
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 ADDRESS: 2107 South 4th Street  
 Leavenworth, KS 66048  
 CLIENT: Environmental Works Inc.







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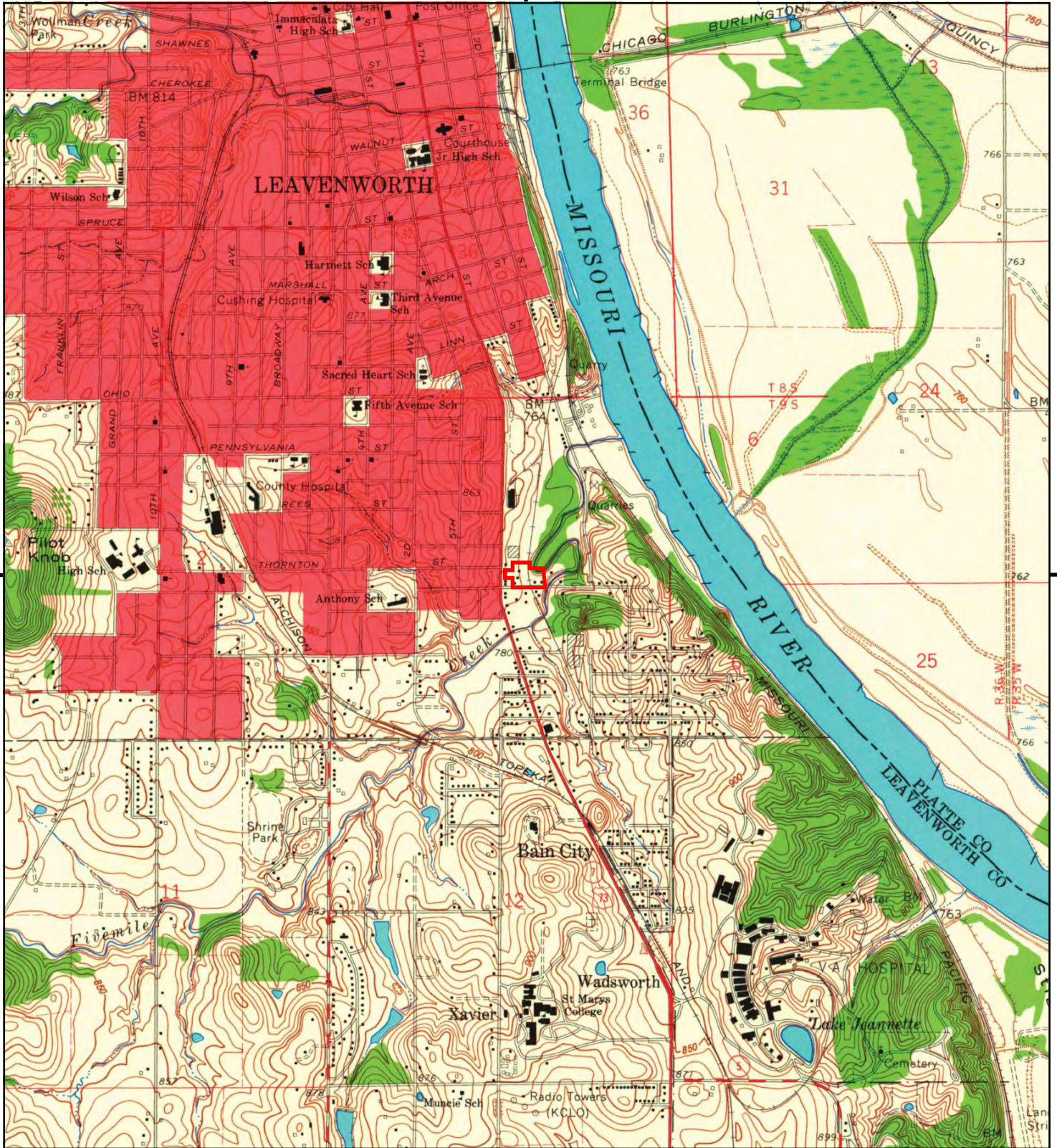


TP, Leavenworth, 1970, 7.5-minute

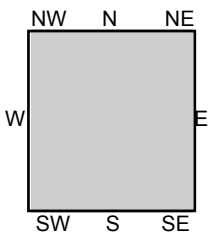
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 ADDRESS: 2107 South 4th Street  
 Leavenworth, KS 66048  
 CLIENT: Environmental Works Inc.







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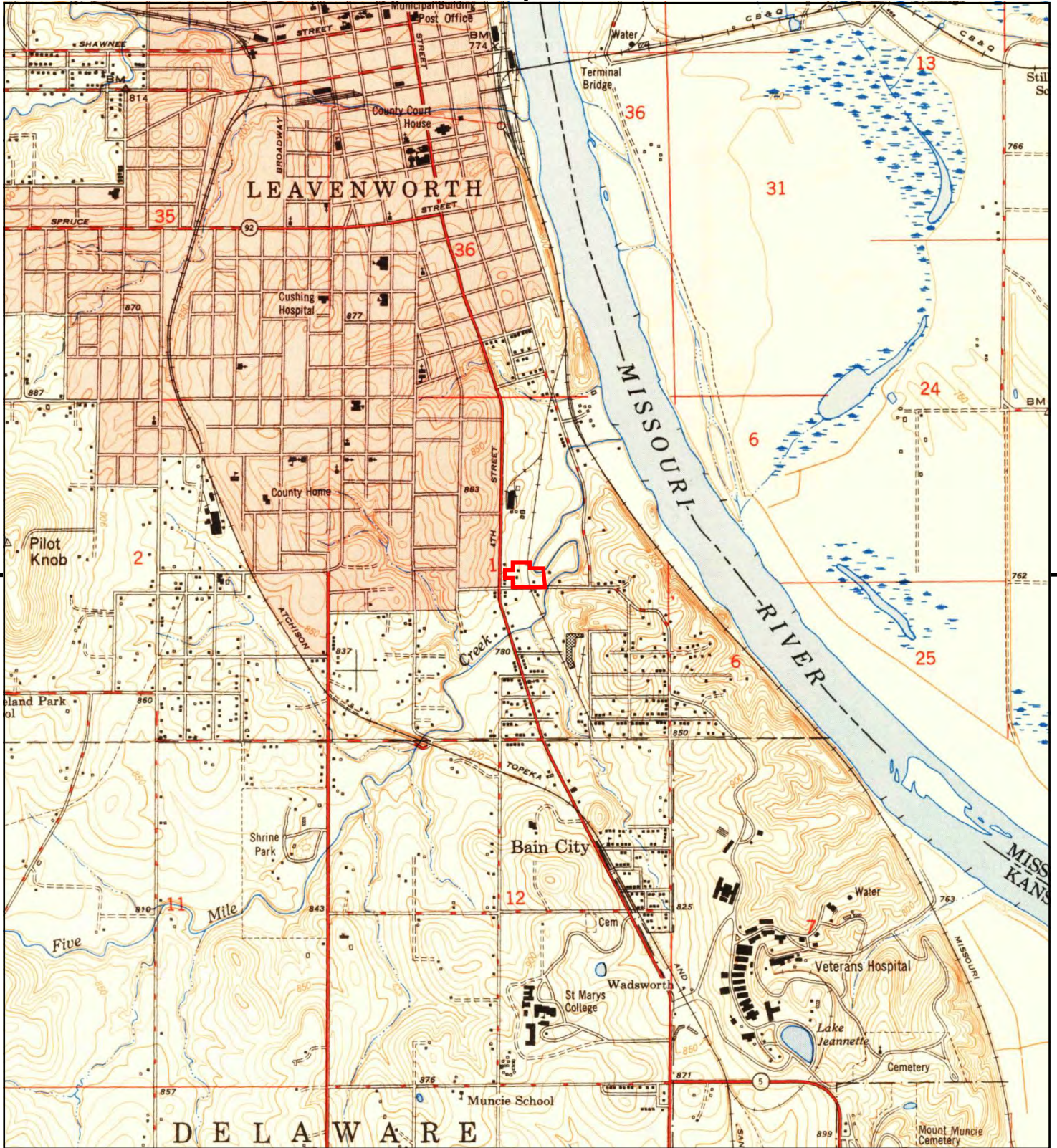


TP, Leavenworth, 1961, 7.5-minute

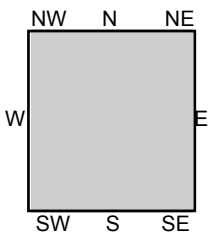
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 ADDRESS: 2107 South 4th Street  
 Leavenworth, KS 66048  
 CLIENT: Environmental Works Inc.







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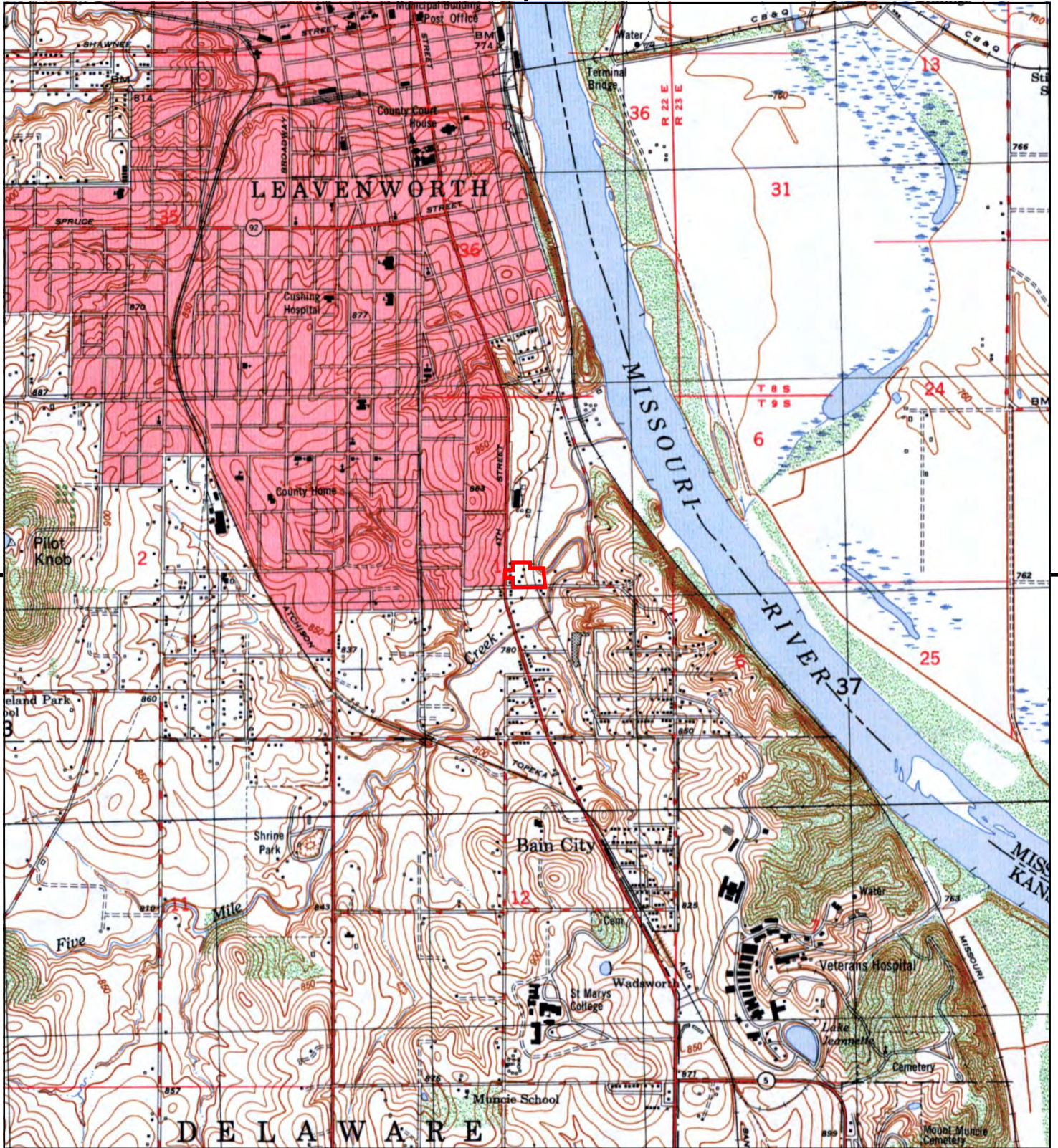


TP, Leavenworth, 1951, 7.5-minute

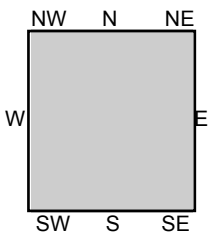
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 Leavenworth, KS 66048  
 CLIENT: Environmental Works Inc.







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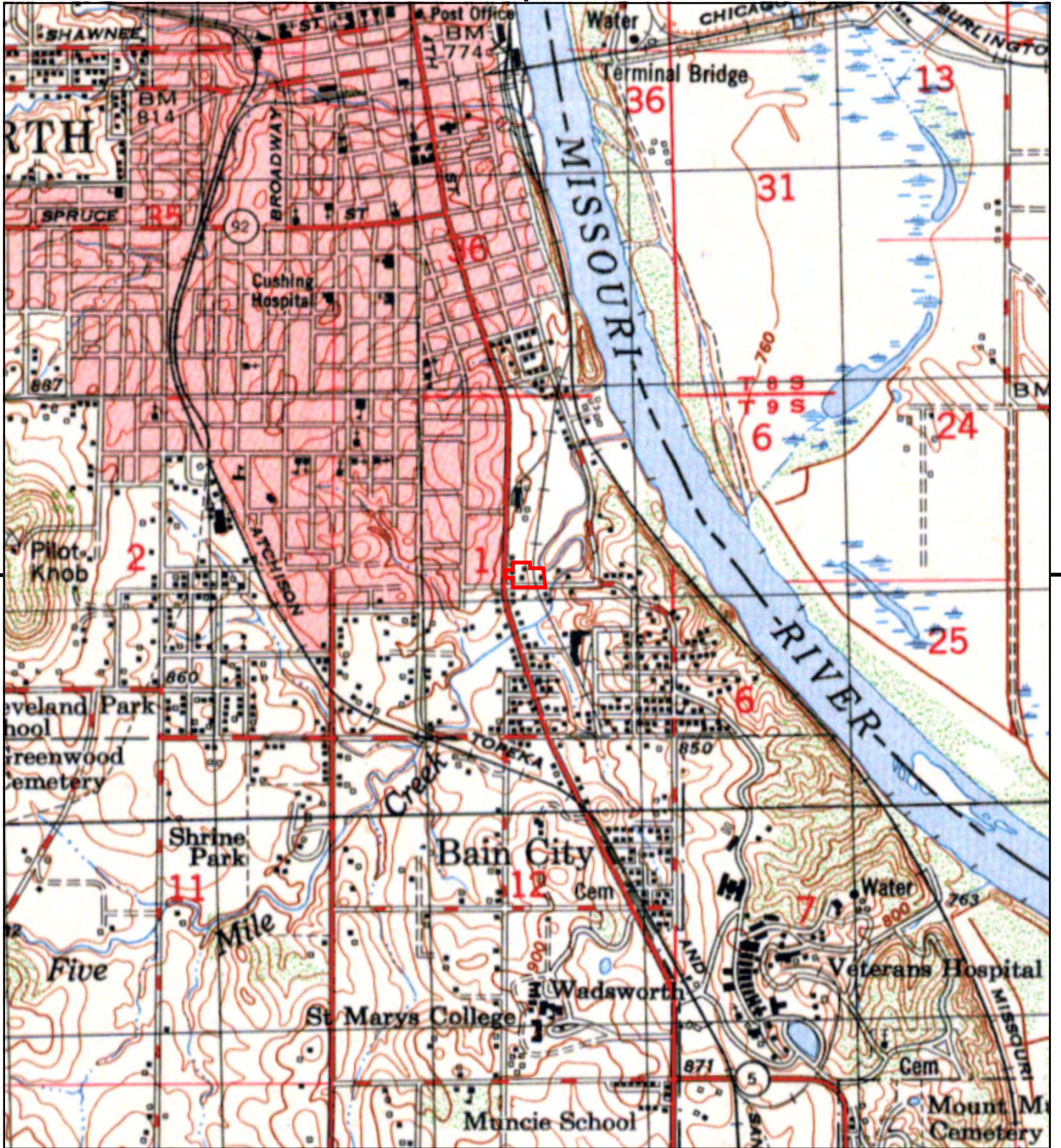


TP, LEAVENWORTH, 1949, 7.5-minute

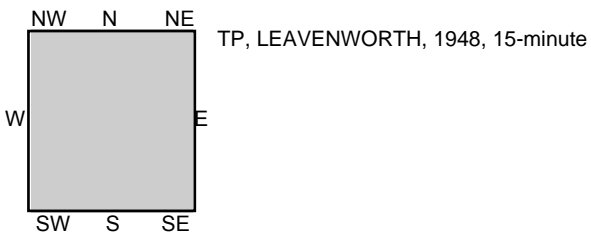
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 Leavenworth, KS 66048  
 CLIENT: Environmental Works Inc.







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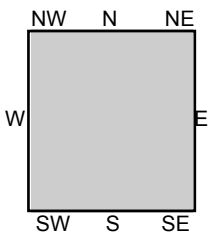
SITE NAME: 2107 South 4th Street  
 ADDRESS: 2107 South 4th Street  
 Leavenworth, KS 66048  
 CLIENT: Environmental Works Inc.







This report includes information from the following map sheet(s).



TP, Leavenworth, 1910, 15-minute

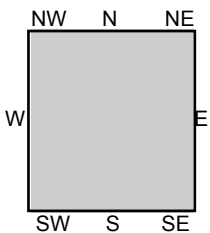
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 Leavenworth, KS 66048  
 CLIENT: Environmental Works Inc.







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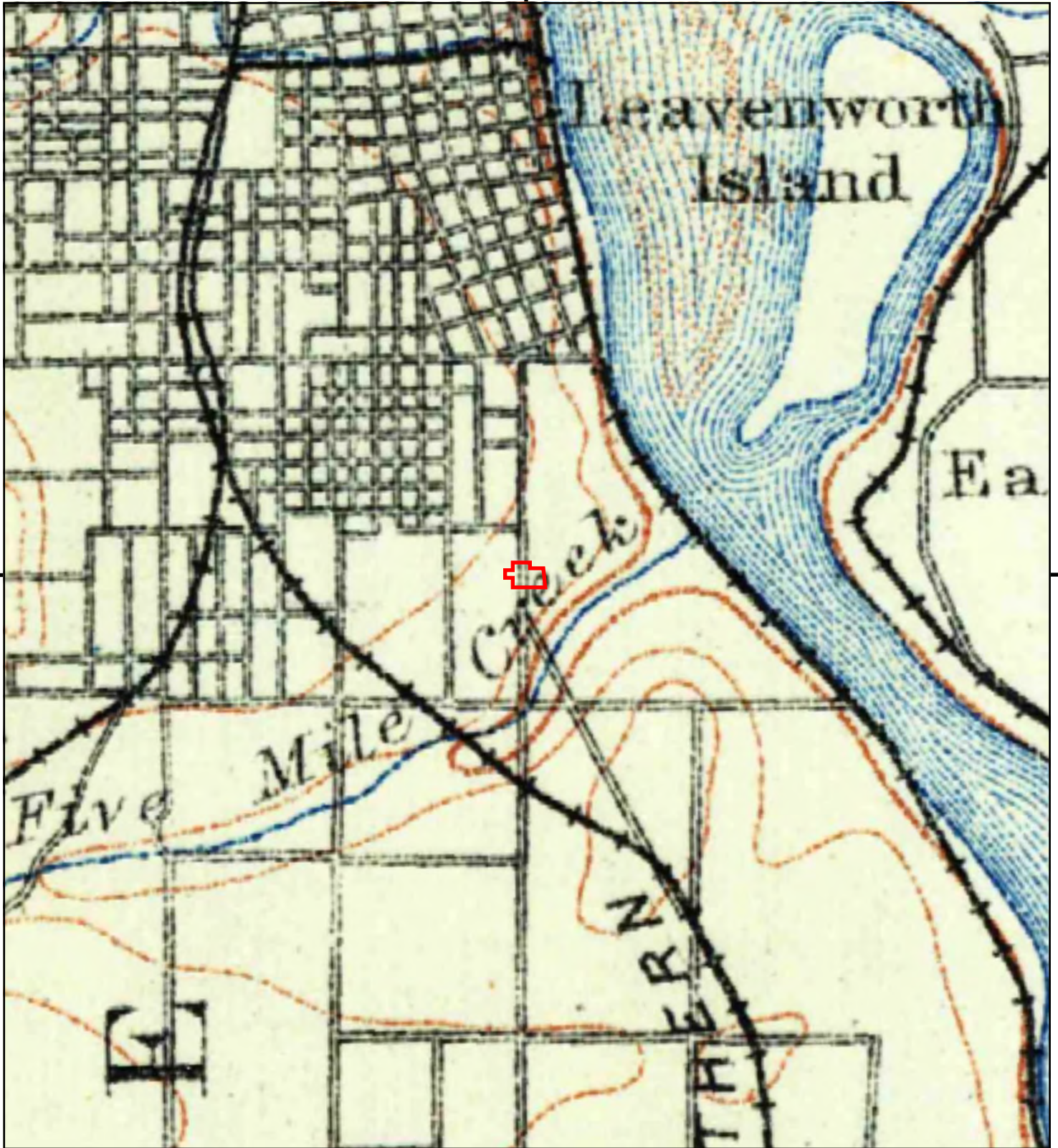


TP, Kansas City, 1894, 30-minute

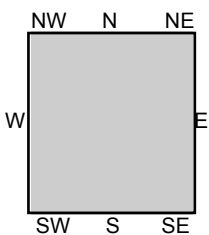
SITE NAME: 2107 South 4th Street  
ADDRESS: 2107 South 4th Street  
Leavenworth, KS 66048  
CLIENT: Environmental Works Inc.







This report includes information from the following map sheet(s).



TP, Kansas City, 1890, 30-minute

SITE NAME: 2107 South 4th Street  
ADDRESS: 2107 South 4th Street  
Leavenworth, KS 66048  
CLIENT: Environmental Works Inc.



## **Appendix F**

# **Photographic Documentation**





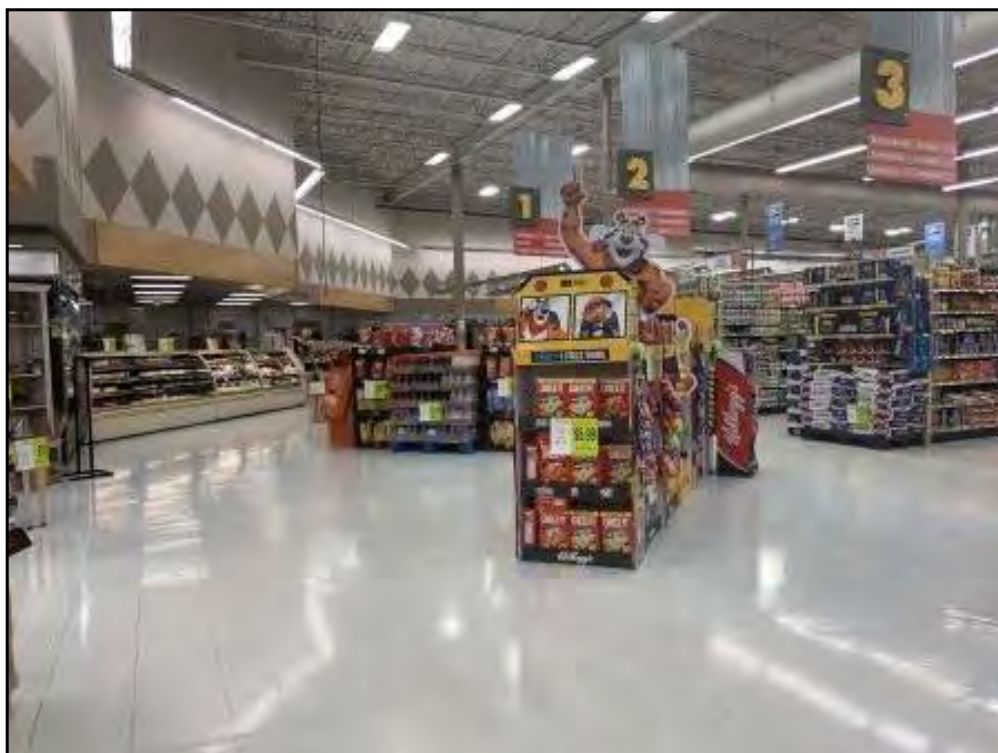
Southeast- Overview of the subject property from the northwest corner.



Southeast- View of the vacant tenant space on the southwest corner of the structure.



Northeast- View of the barber shop located onsite.



North- Interior view of the Price Chopper.



North- View of a kitchen area.



Northeast- View of a kitchen grease trap.





North- View of the back storage/stock area.



North- View of the hydraulic box compactor located in the back storage/stock area.



Southeast- View of the used cooking oil receptacle located in the back storage/stock area.



West- View of the hydraulic trash compactor on the north side of the structure.



North- View of the de minimis spill observed in connection with the hydraulic trash compactor.



West- View of the 5-gallon buckets containing porta plus.





West- View of the loading docks on the southeast side of the structure.



Northwest- View of the transformers located east of the structure. De minimis staining is visible on the platform beneath.



Northeast- View of the north adjoining parking lot.



North- View of the east adjoining auto salvage.



South- View of Marion Street with automotive facilities beyond,



North- View of Great Western Manufacturing with nitrogen and argon ASTs to the north.





West- View of the northwest adjoining parking lot with S 4th Street and Casey's beyond.

## **Appendix G**

# **Resumes of Environmental Personnel Participating in this Environmental Assessment**



## MANDY FLAGEOLLE

### Project Manager

#### ENVIRONMENTAL WORKS

#### EDUCATION/CERTIFICATIONS

B.S., Geology and Geophysics,  
University of Missouri – Rolla, Missouri, 2003

Registered Professional Geologist: Missouri

ASTM Environmental Professional 2008 to Current

OSHA 40-hr HAZWOPER Certification

OSHA 8-hr Annual Refresher

BNSF Contractor Safety Training

E-RAILSAFE Certification

Certification in First Aid and CPR

#### FIELDS OF SPECIALIZATION

- ASTM Phase I Environmental Site Assessments
- SBA Records Search with Risk Assessments
- ASTM Transaction Screens
- Limited Phase II Subsurface Investigations
- National Environmental Policy Act (NEPA) for telecommunication towers
- National Programmatic Agreement (NPA), Form 620/621 for telecommunication towers
- HUD Environmental Reviews under 24 CFR 58.6
- Project Management
- Account Management

#### EXPERIENCE SUMMARY:

Ms. Flageolle has 16 years of environmental consulting experience. As a Registered Geologist in Missouri, she performs various duties including Phase I Environmental Site Assessments (Phase I ESAs), National Environmental Policy Act (NEPA) Reviews, and SBA Records Search with Risk Assessments (RSRA). Ms. Flageolle has also conducted Limited Site Investigations and stormwater sampling. Ms. Flageolle is an Environmental Professional (as defined in 40 CFR 312) for Phase I ESAs.

#### KEY PROJECT SUMMARY:

- Conducted and managed over 800 Phase I ESAs ranging from undeveloped land, cellular towers, wind energy developments, multi-family residential structures, gasoline stations, multi-tenant shopping centers, research facilities, industrial facilities, automobile repair facilities, and office/commercial buildings. Conducted multiple Phase I ESAs to comply with HUD and SBA requirements. In conjunction with Phase I ESAs, managed client driven scopes providing site specific information on asbestos containing materials (ACM), mold, radon, lead-based paint, natural areas review, threatened and endangered species review, historic sites review, historic properties/archaeological resources review, and wetland reviews.
- Project Manager on telecommunications market buildout including multiple locations across Kansas and Missouri. Tasks included preparation for a multitude of raw land sites and co-locations of cellular equipment on telecommunication towers such as completion of Phase I ESAs, NEPA, National Programmatic Agreement (NPA), Form 620/621, asbestos containing materials (ACM) surveys, and lead-based paint (LBP) surveys..
- Project Manager for an urban Housing Authority project to conduct environmental reviews for 47 projects. Tasks included evaluating potential environmental impacts to determine if the project meets federal, state, and local environmental standards. Checklists were completed using the 24 CFR 58.6 including Airport clear zones, Endangered species, Environmental justice, Historic preservation, Noise abatement and control, and Site contamination.
- In conjunction with Phase I ESAs, Ms. Flageolle has conducted visual inspections of properties including multi-family residential structures, office buildings, retail malls, commercial developments, and heavy industrial sites in KS and MO.
- Conduct and manage LSIs in Kansas and Missouri. Responsibilities include preparation of work scopes, collection of soil and groundwater samples, preparation of samples for shipment to a laboratory for analysis, interpretation of analytical results, and preparation of client deliverables. Specific sites of concern have included impact by aboveground storage tanks (ASTs) and underground storage tanks (USTs).



**Nicole Lounsberry**

**Associate Scientist**

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## ENVIRONMENTAL WORKS

### EDUCATION/CERTIFICATIONS

B.S. Biology

Rockhurst University, 2016

OSHA 40-hr HAZWOPER Certification

Certified in First Aid and CPR

AHERA Certified Asbestos Inspector

Licensed Asbestos Inspector in Missouri,  
Kansas and Nebraska

### FIELDS OF SPECIALIZATION

- ASTM Phase I Environmental Site Assessments
- Asbestos Inspections
- Environmental Assessments for SBA Loans
- Site Characterization and Investigation
- Historical Research
- Hazardous Material Surveys
- Data Interpretation and Management
- Limited Phase II Subsurface Investigations
- Site Monitoring and Oversight
- Groundwater Sampling
- AutoCAD Engineer

### EXPERIENCE SUMMARY:

Ms. Lounsberry is an Associate Scientist whose main responsibilities include conducting ASTM Phase I Environmental Site Assessments, asbestos inspections and AutoCAD assignments. Ms Lounsberry also has experience in hazardous material surveys, Phase II Environmental Site Assessments and oversight activities. Ms. Lounsberry has an educational background that includes knowledge of biological and environmental science as well as a history of independent research and field assessments.

### KEY PROJECT SUMMARY:

- Completed numerous Phase I ESAs which includes historical research, regulatory review, interviews and reconnaissance for large scale industrial manufacturing facilities, gas stations, automotive repair sites, multi-tenant commercial properties , residential and vacant sites throughout the Midwest. Ms. Lounsberry has experience conducting environmental assessments in Missouri, Kansas, Arkansas, Nebraska, Oklahoma, Illinois, Colorado, Texas, Florida, Oregon, North Carolina, Mississippi and Louisiana.
- Performed NESHAP, OSHA and AHERA compliant asbestos inspections on a variety of properties including multi-family and single-family residences, commercial spaces and industrial buildings within Missouri and Kansas. Inspections include sampling of suspect materials, quantification and mapping. Ms. Lounsberry produces reports with follow up recommendations based on client requests.
- Assisted in Phase II ESA activities including direct-push soil and groundwater sampling,.
- Assisted in the oversight of field operations of a large scale lead remediation EPA Superfund site that covered approximately 3 square miles of residential properties.
- Completing projects under short deadlines, enabling clients to make informed decisions regarding environmental risk.
- Completing detailed AutoCAD assignments and adjustments for various projects including Phase I ESAs, Limited Phase II Subsurface Investigations and long-term monitoring projects often under short deadlines.