TETRA TECH

March 2, 2016

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

Subject: **Phase I Targeted Brownfields Assessment**
Elkem Carbide
Keokuk, Lee County, Iowa
EPA Region 7, START 4, Contract No. EP-S7-13-06, Task Order No. 0002.019.017
Task Monitor: Todd Davis, Site Assessment Manager

Dear Mr. Davis:

Tetra Tech, Inc. is submitting the enclosed Phase I Targeted Brownfields Assessment (TBA) report regarding the Elkem Carbide site. The goal of the TBA is to identify recognized environmental conditions (REC), historical RECs, and controlled RECs associated with the subject property. This TBA was completed in accordance with industry standard practice for Phase I Environmental Site Assessments.

If you have any questions or comments regarding this submittal, please call the Project Manager at (816) 412-1775.

Sincerely,

Robert Monnig, PE
START Project Manager

for Ted Faile, PG, CHMM
START Program Manager

Enclosures

cc: Debra Dorsey, START Project Officer (cover letter only)

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PHASE I TARGETED BROWNFIELDS ASSESSMENT

ELKEM CARBIDE
KEOKUK, IOWA

Superfund Technical Assessment and Response Team (START) 4

Contract No. EP-S7-13-06, Task Order No. 0002.019.017

Prepared For:

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

March 2, 2016

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EXECUTIVE SUMMARY

The Tetra Tech, Inc. (Tetra Tech) Region 7 Superfund Technical Assessment and Response Team (START) was tasked by the U.S. Environmental Protection Agency (EPA) Region 7 Superfund Division to conduct a Phase I Targeted Brownfields Assessment (TBA) of an approximately 79-acre property (subject property) at 365 Carbide Lane in the City of Keokuk (City), Lee County, Iowa, in the City's industrial district. The subject property, known as Elkem Carbide, has historically been used for zinc refining and manufacture of various carbide products, and is currently owned by 365 Carbide Lane, LLC (365 Carbide Lane). The City is along the Mississippi River, which is the Iowa/Illinois state line.

365 Carbide Lane requested assessment assistance under the TBA program from EPA Region 7 to assess current environmental conditions at the subject property prior to anticipated sale of the property.

START conducted this TBA in accordance with the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, ASTM International (ASTM) designation E 1527-13, and otherwise in compliance with EPA's "All Appropriate Inquiries" Rule (AAI Rule) (Title 40 *Code of Federal Regulations* [CFR] Part 312). For the purpose of this TBA, the *users* are defined as 365 Carbide Lane, Iowa Department of Natural Resources (IDNR), Southeast Iowa Regional Planning Commission, EPA, and the City (ASTM 2013 [Section 3.2.98]). EPA tasked START to conduct a TBA of the subject property to identify recognized environmental conditions (REC) to the subject property, and to identify the nature of contamination and risks posed by the contamination, if present (see Appendix A).

Purposes of the TBA were to identify RECs, historical RECs (HREC), and controlled RECs (CREC) associated with the subject property, and to identify the nature of contamination and risks posed by the contamination, if present. A REC is presence or likely presence of any hazardous substance or petroleum product in, on, or at a subject property: (1) due to any release to the environment, (2) under conditions indicative of a release to the environment, or (3) under conditions that pose a material threat of a future release to the environment. The term includes hazardous substances or petroleum products, even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment, and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies (ASTM 2013 [Section 1.1.1]). An HREC is a past release of any hazardous substances or petroleum products that has occurred in connection with the subject property and has been addressed to the satisfaction of the applicable regulatory authority, or has met unrestricted use criteria established by a

regulatory authority without subjecting the subject property to any required controls (ASTM 2013 [Section 3.2.42]). A CREC is 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, with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (ASTM 2013 [Section 3.2.18]).

Findings and Opinions

- Former uses of the subject property as a secondary zinc smelter and Frary metal (hardened lead alloy) production plant pose a REC to the subject property.

- Several containers of motor oil were observed in building #6. Heavy staining was observed surrounding the oil containers. Presence of the leaking/staining in building #6 poses a REC to the subject property.

- Two piles of solid waste were observed on the subject property—one approximately 150 feet north of building #3 and one on the northwest portion of the subject property in the wooded area (see Figure 3 in Appendix B). The waste appeared to be primarily building materials, possibly from previous building demolition. Because of the age of the buildings on the property, asbestos-containing materials (ACM) or lead-based paint (LBP) likely were present in the buildings prior to demolition. No records of inspection or abatement were provided. Possible presence of ACM and LBP in the pile of solid waste poses a REC to the subject property.

- Standing water was observed in the basement of building #6. A sheen and floating debris were observed on the water. No odor was detected; however, possible leaking petroleum products in the basement of building #6 pose a REC to the subject property.

- Staining was observed on the concrete south of building #2. The source of the staining was not apparent, but could be related to the former coal and coke stockpiles. Presence of the staining poses a REC to the subject property.

- Staining was observed surrounding a trench drain in building #6. The staining appeared to be motor oil, but the source was not apparent. The stained concrete in the maintenance building poses a REC to the subject property based on amount of staining, length of time the staining has been present based on previous reports, and potential for contamination to have reached the soil given the age and porosity of the concrete.

- The subject property was listed in the Integrated Compliance Information System (ICIS) database, which provides information on enforcement and compliance across most of EPA's programs. The subject property was cited for various Resource Conservation and Recovery Act (RCRA) violations in 1987, and underwent various RCRA enforcements. Based on the regulatory status and number of RCRA violations, these listings pose a REC to the subject property.

- The subject property is listed in the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) No Further Remedial Action Planned (NFRAP) database, which lists sites for which no further action to place these sites on the National Priorities List (NPL) is planned. The subject property was assessed during 1979-1981, did not

qualify for the NPL, and was given a low priority status for further assessment. The subject property is also listed in the Corrective Action Report (CORRACTS) database, which lists sites with RCRA corrective action activity, and according to this listing, has been assigned a low corrective action priority. Based on the regulatory status and number of RCRA violations, these listings pose a REC to the subject property.

- The subject property was listed on the RCRA Non Generators / No Longer Regulated (NonGen/NLR) database. This database lists facilities that generate, transport, store, treat, and/or dispose of hazardous waste as defined by RCRA. The subject property was assigned a medium corrective action priority on January 28, 1992, and classified as a conditionally exempt small quantity generator on July 18, 2005. The subject property was also listed in the RCRA Administrative Action Tracking System (RAATS). This database contains records based on enforcement actions issued under RCRA pertaining to major violators, and includes administrative and civil actions brought by EPA. Multiple violations were listed for the subject property between 1984 and 1989. Although each violation appears to have been addressed to gain compliance, the number of RCRA violations identified is evidence of poor waste management practices, and thus these listings pose a REC to the subject property.

- The subject property is listed in the Iowa (IA) SPILLS and Missouri (MO) SPILLS databases. A report dated December 20, 2000, stated that at least 400 gallons of mineral oil not containing polychlorinated biphenyls (PCB) was spilled into a storm drain leading to Soap Creek. Because of ice cover on the creek, none of the product could be recovered. Based on the amount of product spilled and the cleanup status, these SPILLS listings pose a REC to the subject property.

- The subject property is also listed in the Emergency Response Notification System (ERNS) database due to the spill reported on December 20, 2000. According to the ERNS report, the spill was from a transformer near the calcine furnace. Oil dry was applied and other absorbents were reportedly applied. Based on the amount of product spilled and the cleanup status, this ERNS listing poses a REC to the subject property.

- The subject property is listed in the IA ALLSITES database, a listing of all sites included in the contaminated sites tracking database. The site was in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Preremedial program, and the status is listed as closed. According to the IDNR contaminated sites database, very high concentrations of polycyclic aromatic hydrocarbons (PAH) were detected in surface soil samples near the former coal tar pitch tank farm and petroleum storage area. Contamination was not identified in surface water or groundwater. Additional investigation and/or remediation of the area was recommended (IDNR 2016b). Based on the known surface soil contamination on site, this listing poses a REC to the subject property.

- The subject property is listed in the Iowa Underground Storage Tank (UST) database. Three USTs are listed as no longer in use. No further information was available in the Environmental Data Resources, Inc. (EDR) report (EDR 2016a). According to the IDNR storage tanks database, the following USTs were installed at the subject property: a 1,000-gallon diesel UST on December 1, 1974; a 14,000-gallon used oil UST on September 1, 1976; a 560-gallon gasoline UST on June 1, 1977; and a 12,000-gallon heating oil UST on December 1, 1977. Each of these USTs was removed on June 1, 1987 (IDNR 2016a). Based on lack of information regarding presence of contamination during removal, these former USTs pose a REC to the subject property.

- The Amsted Rail Company, Inc. site at 416 Carbide Lane is approximately 45 feet west-northwest of the subject property. This site is listed in the Iowa Solid Waste Facilities / Landfill Sites (SWF/LS) database, an inventory of permitted facilities, and in the RCRA – Large Quantity Generator (LQG) database. The facility is a foundry sand landfill approximately 1,000 feet north-northwest of the subject property. The facility uses the following chemicals: graphite, calcium oxide (lime), magnesium oxide, iron, resin (phenol), carbon, manganese, silicon, rice hulls, silica, propane, oxygen, aluminum oxide, and aluminum silicate. The facility is listed in the RCRA-LQG database for the following chemicals: cadmium, lead, mercury, used oil, cadmium, lead, tetrachloroethylene, mercury, M-Cresol, chromium, P-Cresol, and silver. The facility has been cited for various violations regarding its contingency plan and emergency procedures, small quantity handlers, universal waste, manifest, general, general facility standards, preparedness and prevention, containers use and management, and pre transport. Based on close proximity of a landfill to the subject property, chemicals used at the Amsted Rail Company, Inc. site, and violations that have occurred at that facility indicating poor waste management practices, this listing poses a REC to the subject property.

- The Keokuk Ferro-Sil, Inc. Industrial Waste Landfill site is approximately 174 feet west of the subject property. The site is listed in the IA SWF/LS database as an industrial landfill. The site is currently closed. Based on close proximity of an industrial landfill to the subject property, this site poses a REC to the subject property.

- Tetra Tech completed a Tier 1 non-invasive vapor encroachment screen of the subject property. Based on results of the initial vapor encroachment screen, the following facilities (all discussed in Section 6.1.1) with chemicals of concern were identified in the EDR report within the minimum search distances (EDR 2016f):

    - 365 Carbide Lane (subject property)
    - Amsted Rail Company, Inc. (~45 feet north of the subject property).

  Presence of these facilities within the minimum search distance poses a REC to the subject property because of the possibility of a vapor encroachment condition (VEC).

- Given ages of the buildings on the subject property, LBP and ACM could be present within the structures, posing an environmental concern to the subject property.

- The subject property includes an active railroad line. Railroads are associated with various contaminants including creosote, lead, and arsenic, and leaking or spilled oils and fuels from locomotives. Presence of the active railroad line poses a REC to the subject property.

- Review of previous reports and the interview with Mr. Jerry Hamilton revealed previous storage, handling, and use of coal, coke, and coal tar pitch on the subject property. Coke and coal were previously stored on the subject property in outdoor stockpiles, and releases of coal tar pitch onto the ground have been documented. During the site reconnaissance, black coal-like granular material—likely related to the former coal and coke stockpiles--was observed over large areas of the subject property. Soil sampling during the 2010 Phase II Environmental Site Assessment (ESA) and 2012 site investigation revealed elevated PAH concentrations in shallow soil likely attributable to past storage, handling, and use of coal, coke, and/or coal tar pitch. These elevated PAH soil concentrations pose a REC to the subject property.

- Review of previous reports and the interview with Mr. Hamilton revealed presence of the closed landfill on the eastern portion of the subject property. Because the closed landfill appears to have been addressed to the satisfaction of the EPA Region 7 RCRA program without subjecting the landfill to any required controls, presence of the closed landfill poses an HREC to the subject property.

- During the 2012 sampling event, the U.S. Geological Survey (USGS) collected a groundwater sample from a temporary well constructed at the approximate center of the former manufacturing area of the subject property (location 005); the sample was found to contain chlorinated volatile organic compounds (VOC), including *cis*-1,2-dichloroethene at a concentration exceeding the EPA Maximum Contaminant Level (MCL). These detections of chlorinated VOCs in groundwater beneath the former manufacturing area pose a REC to the subject property.

- Detections of elevated lead concentrations in soil samples collected during the 2010 Phase II ESA and 2012 USGS investigation at the subject property pose a REC to the subject property.

Recommendations

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

1.0 INTRODUCTION

The Tetra Tech, Inc. (Tetra Tech) Region 7 Superfund Technical Assessment and Response Team (START) was tasked by the U.S. Environmental Protection Agency (EPA) Region 7 Superfund Division to conduct a Phase I Targeted Brownfields Assessment (TBA) of an approximately 78.83-acre property (subject property) at 365 Carbide Lane in the City of Keokuk (City), Lee County, Iowa. The subject property, known as Elkem Carbide, has historically been used for zinc refining and manufacture of various carbide products, and is currently owned by 365 Carbide Lane, LLC (365 Carbide Lane). The City is along the Mississippi River, which is the Iowa/Illinois state line.

365 Carbide Lane requested assessment assistance under the TBA program from EPA Region 7 to assess current environmental conditions at the subject property prior to anticipated sale of the property.

START conducted this TBA in accordance with the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, ASTM International (ASTM) designation E 1527-13, and otherwise in compliance with EPA's "All Appropriate Inquiries" Rule (AAI Rule) (Title 40 *Code of Federal Regulations* [CFR] Part 312). For the purpose of this TBA, the *users* are defined as 365 Carbide Lane, Iowa Department of Natural Resources (IDNR), Southeast Iowa Regional Planning Commission, EPA, and the City (ASTM 2013 [Section 3.2.98]). EPA tasked START to conduct a TBA of the subject property to identify recognized environmental conditions (REC) to the subject property, and to identify the nature of contamination and risks posed by contamination, if present (see Appendix A).

1.1 PURPOSE

The goal of this TBA is to identify RECs, historical RECs (HREC), and controlled RECs (CREC) to the subject property. A REC is presence or likely presence of any hazardous substance or petroleum product in, on, or at a subject property: (1) due to any release to the environment, (2) under conditions indicative of a release to the environment, or (3) under conditions that pose a material threat of a future release to the environment. The term includes hazardous substances or petroleum products, even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment, and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies (ASTM 2013 [Section 1.1.1]). An HREC is a past release of any hazardous substances or petroleum products that has occurred in connection with the subject property and has been addressed to the satisfaction of the applicable regulatory authority, or has met unrestricted use criteria established by a

regulatory authority without subjecting the subject property to any required controls (ASTM 2013 [Section 3.2.42]). A CREC is a REC resulting from a past release of hazardous substances of petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (ASTM 2013 [Section 3.2.18]).

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

1.2 SCOPE OF WORK

EPA developed a Scope of Work (SOW) for TBA activities at the subject property. The SOW, based on ASTM designation E1527-13, was to identify RECs, HRECs, and CRECs to the subject property. Phase I TBAs typically are conducted in a four-phase process, including: (1) records review; (2) site reconnaissance; (3) interviews with current and previous owners and occupants of the subject property, adjacent property owners and occupants, and local government agencies; and (4) preparation of a report. The EPA SOW is in Appendix A.

EPA also requested a lead-based paint (LBP) survey and an asbestos-containing materials (ACM) survey at the subject property. Results of these surveys will be presented in a Limited Asbestos Survey and Lead-Based Paint Screening Report submitted separately.

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

1.3 SIGNIFICANT ASSUMPTIONS

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

1.4 DEVIATIONS

Deletions or deviations from ASTM E 1527-13 or the SOW are as follows. For each deviation noted, the Tetra Tech Environmental Professional (EP) has conducted an analysis of the data gaps or failures, and impacts of these on Tetra Tech's ability to render an opinion regarding conditions indicative of releases or threatened releases of petroleum products or hazardous substances.

- Time gaps of more than 5 years were noted in available historical information. Documentation and observations indicate that the subject property was used for industrial manufacturing. The EP believes that presence of time gaps does not impact ability to render an opinion regarding RECs.

- START made multiple attempts to interview the owners of the subject property, however, no response was received at the time this report was completed. 365 Carbide Lane has only owned the subject property since 2008 and likely does not have additional information on the historic uses of the subject property. Tetra Tech's inability to interview the current owner of the subject property does not impact Tetra Tech's ability to render an opinion regarding potential RECs, HRECs, or CRECs.

- No interviews with adjacent property owners or occupants other than the City were conducted. ASTM Practice E 1527-13 does not require interviews with adjacent property owners unless a property has been abandoned and potential unauthorized uses or evidence of uncontrolled access to the abandoned property is evident. Documentation and observations indicate that the subject property was used for industrial manufacturing. The EP believes that information obtained from other adjacent property owners or occupants likely would not be additional to that obtained from other sources.

1.5 LIMITATIONS AND EXCEPTIONS

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

work performed hereunder shall constitute or be represented as a legal opinion of any kind or nature, but shall be a representation of findings of fact from records examined.

1.6 SPECIAL TERMS AND CONDITIONS

There were no special terms or conditions for the TBA.

1.7 STATEMENT OF USER RELIANCE

START is not required to verify independently the information provided to it by the user or gathered throughout the course of this TBA. For this TBA, 365 Carbide Lane, IDNR, Southeast Iowa Regional possessed that certain information is incorrect based on additional information obtained during the TBA or otherwise known by the person preparing this report.

2.0 SITE DESCRIPTION

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

2.1 SITE LOCATION AND LEGAL DESCRIPTION

For the purposes of the TBA, the subject property is a 78.83-acre parcel (number 21-22-200-031) owned by 365 Carbide Lane, on the southeast corner of Carbide Lane and U.S. Highway 61, Keokuk, Lee County, Iowa (see Appendix C). The legal description of the subject property is

TR C LYG IN N1/2 SEC 22 & LYG IN NW SEC 23-65-5 (Beacon 2016).

The subject property is depicted on the Keokuk, IA, USGS, U.S. Geological Survey (USGS) 7.5-minute topographic series map (USGS 1977) (see Appendix B, Figure 1). The subject property is in the north ½ of the northeast ¼ of Section 22 and in the northwest ¼ of Section 23, all in Township 65 North, Range 5 West. Coordinates at the approximate center of the subject property are 40.41956 degrees north latitude and 91.42108 degrees west longitude.

2.2 SITE AND VICINITY GENERAL CHARACTERISTICS

The subject property is in a mixed use area of the City including industrial, commercial, agricultural, and residential properties. Figure 2 in Appendix B illustrates the location and boundaries of the subject property. The subject property is bounded north by Carbide Lane; east by industrial properties; south by residential, industrial, and commercial properties; and west by U.S. Highway 61. Industrial properties are beyond to the north, northeast, east, southeast, south, and southwest. Agricultural and forested land are beyond to the west and northwest.

2.3 CURRENT AND PAST USES OF THE SITE

Historical documentation indicates that the subject property was converted from farm use to industrial manufacturing in 1915 when a secondary zinc smelter plant was constructed on the property by River Smelting and Refining Company, a subsidiary of National Lead Company. The smelter operated on the property until around 1919. Before the smelter closed, an additional plant was constructed on the subject property in 1916 by United Lead (another subsidiary of National Lead Company), and produced Frary

metal, a lead alloy hardened by calcium and barium (see Section 6.2.1). In 1929, the United Lead Company merged with Shawinigan Products to form Midwest Carbide Corporation (Midwest Carbide), and the subject property was used to produce calcium carbide (Terracon Consultants, Inc. [Terracon] 2009). In 1952, Midwest Carbide reportedly began production of Soderberg electrode paste by combining calcinated anthracite coal with coal tar pitch (Terracon 2009). In the late 1980s, the carbide plant was shut down, and in 2007, production of all other products ceased (Terracon 2009). Carbide Lane Properties, LLC purchased the subject property from Elkem Metals Company in 2008. The property was then sold to 365 Carbide Lane in 2015. The subject property is currently inactive.

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

The subject property includes nine buildings:

- An approximately 12,480-square-foot, one-story metal warehouse was constructed on the property in 1929, and an additional 16,280 square feet was added to the warehouse in 1942. The building has a steel frame and is constructed of metal. The original portion of the building is in very poor condition.

- A one-story, 2,232-square-foot office building was constructed on the property in 1920. The exterior of the building is stucco and the roof is constructed from wood decking and asphalt shingles. The building is in poor condition. Additions to the office building occurred as follows: 2,044 square feet in 1964, 512 square feet in 1970, and 1,252 square feet in 1985. The new portions of the building are constructed of concrete block or tile.

- A one-story, 544-square-foot manufacturing building was constructed on the property in 1977. The building is concrete block or tile with a steel roof, and is in very poor condition.

- A one-story, 2,144-square-foot metal office building was constructed on the property in 1975. In 1975, 576 square feet was added. The new portion of the building is constructed of concrete block or tile with rubber membrane roofing. The older portion of the building is in very poor condition.

- A one-story, 3,441-square-foot brick office building was constructed on the property in 1927. In 1975, two additions of 667 and 1,099 square feet occurred. The new portions of the building are constructed of concrete block with rubber membrane roofing. The older portion of the building is in very poor condition.

- A one-story, 35,440-square-foot manufacturing building was constructed on the property in 1964. The building was constructed of steel and metal. An addition of 3,500 square feet occurred in 1964, and 1,100 square feet was added in 1995. A 1,750-square-foot metal warehouse was added onto the building in 1990. In 1995, 1,100 square feet was added to the warehouse.

- A one-story 13,588-square-foot manufacturing building was constructed on the property in 1978. The building was constructed of steel and metal. In 1978, the following additions to the building occurred: 14,378 square feet (construction of steel and metal), 17,728 square feet of office space,

and 1,280 square feet for manufacturing. The latter two additions were constructed of concrete block or tile. The original building is in very poor condition.

- A one-story 2,592-square-foot manufacturing building was constructed on the property in 1927. The building was constructed of brick. An 832-square-foot brick warehouse was added onto the building in 1927. In 1950, a 1,302-square-foot metal shop made of steel and metal was added onto the building. In 1978, an additional 3,815 square feet and 196 square feet for manufacturing, as well as a 260-square-foot warehouse, were added. These additions were constructed of concrete block or tile. The original building is in very poor condition.

- A one-story, 684-square-foot manufacturing building was constructed on the property in 1950. The building is in poor condition.

The property is further improved with an asphalt-paved parking area. A dirt/gravel road loops from Carbide Lane around all but one of the buildings. Railroad tracks enter the subject property from the east and exit at the south border of the property.

2.5 CURRENT AND PAST USES OF ADJOINING/SURROUNDING PROPERTIES

Adjacent to the subject property are the following: to the north, Carbide Lane, followed by Amsted Rail Company Griffin Wheel Division, which produces diesel wheels for the railroad industry; to the northeast, the Keokuk Sewer Maintenance Department and Keokuk Animal Services; to the east, Burlington Railroad; to the southeast, Newberry Towing Recovery & Auto Salvage; to the south, a residential property and Archer Daniels Midland Milling Company, an agricultural processor; and to the west, U.S. Highway 61 with agricultural and forested land beyond.

2.6 GEOLOGIC, HYDROGEOLOGIC, HYDROLOGIC, AND TOPOGRAPHIC CONDITIONS

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

2.6.1 Topography

Lee County is in southeast Iowa along the state lines with Illinois and Missouri. Most of the County exhibits nearly level to gently rolling topography. The Mississippi River is the major drainage in the County and generally flows from north to south. Elevation at the subject property ranges from approximately 620 to 660 feet above mean sea level (msl).

2.6.2 Geologic Setting

Soils in the area consist primarily of loamy Orthents and Weller silt loam. Orthents are on recent erosional surfaces where former soil has been completely removed or heavily manipulated

(U.S. Department of Agriculture [USDA] Natural Resources Conservation Service [NRCS] 1999). The Weller series consists of deep, moderately well-drained, slowly permeable soils formed in loess. These soils are on convex ridgecrests, side-valley slopes, and benches. Slope ranges from 0 to 14 percent (USDA NRCS 2014).

Subsurface geologic units in the area consist of Phanerozoic-, Paleozoic-, and Carboniferous Mississippian-Early -aged, Osage series. The Osage series has an approximate total thickness of 275 feet. The primary rock type within the Osage series is dolostone, a carbonate sedimentary rock composed of more than 50% of the mineral dolomite. The secondary rock type is limestone, a sedimentary rock consisting mainly of calcium carbonate in the form of the mineral calcite. Other rock types include shale, chert, and sandstone (USGS 2014).

2.6.3 Hydrogeology

Keokuk is within the Flint-Henderson watershed (USGS 2016). The subject property is underlain by three aquifers: (1) the Mississippian aquifer, which consists primarily of dolomite in the subject property area (southeastern Iowa); (2) the Silurian-Devonian aquifer beneath which consists of dolomite and limestone approximately 200-400 feet thick; and (3) the Cambrian-Ordovician aquifer beneath which are multiple bedrock formations ranging from 300 to 2,000 feet thick (USGS 2009).

Environmental Data Resources, Inc. (EDR), a START subcontractor, identified 23 records of wells within 1 mile of the subject property by searching federal, state, and USGS database listings. Of these, one federal USGS well was identified (total depth of 815 feet below ground surface [bgs]). EDR extracted no data on groundwater flow and velocity (EDR 2016a) (see Appendix G). In the absence of site-specific data or other indicators, direction of groundwater flow may be inferred from the regional topographic gradient. Therefore, groundwater flow is inferred to the east in the direction of the topographic gradient and surface water flow (generally east and southeast toward Soap Creek, which flows south).

2.6.4 Hydrology

The subject property straddles a ridge, with the eastern portion of the subject property sloping to the east toward Soap Creek and the western portion of the subject property sloping west toward drainages that empty into Hog Thief Creek. Surface water on the subject property follows surface topography generally flowing into either Soap Creek to the east or into drainages to the west that flow into Hog Thief Creek. Soap Creek flows south to the Mississippi River, and Hog Thief creek flows west and then south into the Des Moines River, which flows south into the Mississippi River.

3.0 USER-PROVIDED INFORMATION

The following section summarizes information provided by 365 Carbide Lane, IDNR, Southeast Iowa Regional Planning Commission, EPA, and the City (users) regarding the TBA.

3.1 EXISTING STRUCTURE INFORMATION AND DRAWINGS

No structure information or drawings were provided by the users; however, such information was obtained from public property records.

3.2 SUMMARY OF TITLE INFORMATION

The subject property consists of an approximately 78.83-acre parcel (number 21-22-200-031). START contracted American Abstract & Title Guaranty to perform a title and lien search pertaining to the subject property. A copy of that report is in Appendix C. Based on the chain-of-title search, the subject property was deeded to River Smelting and Refining Company in 1915 and sold to United Lead Company in 1919. In 1929, it was sold to Midwest Carbide Corporation. Midwest Carbide Corporation merged into American Carbide and Carbon Corporation in 1983. In 1998, American Carbide and Carbon Corporation sold the property to Elkem Metals Company, which sold it to Carbide Lane Properties in 2008. Carbide Lane Properties then sold the subject property to 365 Carbide Lane in 2015. 365 Carbide Lane currently owns the subject property. Previous ownership of the subject property by River Smelting and Refining Company and United Lead Company, and uses of it for zinc refining and production of lead alloy pose a REC to the subject property. These uses could be associated with waste management practices that may have resulted in release(s) of lead-containing wastes to the subject property. RECs related to use of the subject property by Midwest Carbide Corporation and subsequent owners for manufacturing of carbide products were also identified during this Phase I ESA (see Section 7).

3.3 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

The users were unaware of any information regarding environmental liens or activity and use limitations (AUL) for the subject property. No environmental liens or AULs were identified by American Abstract & Title Guaranty (see Appendix C).

3.4 SPECIALIZED KNOWLEDGE

START was not provided with any specialized knowledge about the subject property.

3.5 OWNER, SITE MANAGER, AND OCCUPANT INFORMATION

The subject property is owned by 365 Carbide Lane. The owner identified Mr. Jerry Hamilton, former Maintenance Manager of Elkem Carbide, as having good knowledge of the uses and physical characteristics of the property; therefore, Mr. Hamilton is considered the key site manager. The subject property is currently unoccupied.

3.6 REASON FOR PERFORMING PHASE I TBA

This TBA was requested by EPA to provide an environmental assessment of the subject property. This TBA intends to satisfy one of the requirements for the innocent landowner defense to CERCLA liability: that is, the practices that constitute "all appropriate inquiry into the previous ownership and uses of the property consistent with good customary practice," as defined in 42 *United States Code* Section 9601 (35)(B).

4.0 SITE RECONNAISSANCE

START members Mr. Rob Monnig, Ms. Kaitlyn Bahr, and Ms. Joann Jeplawy conducted the site reconnaissance on February 8, 2016. Access to the property was provided by Mr. Mark Bousselot. Photographic documentation of the site reconnaissance is in Appendix D.

4.1 METHODOLOGY AND LIMITING CONDITIONS

The site reconnaissance consisted of a visual inspection of the subject property in accordance with requirements set forth in 40 CFR Part 312. The purpose of the reconnaissance of the subject property was to seek out "conditions indicative of releases or threatened releases" as required by ASTM 1527-13. START conducted the reconnaissance of the subject property for evidence of the following:

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

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

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

4.2 GENERAL SITE SETTING

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

4.2.1 Site Description

The subject property is a 78.83-acre parcel (number 21-22-200-031) owned by 365 Carbide Lane, on the southeast corner of Carbide Lane and US-61, Keokuk, Lee County, Iowa (see Attachment 1). The legal description of the subject property is

TR C LYG IN N1/2 SEC 22 & LYG IN NW SEC 23-65-5 (Beacon 2016).

The subject property is depicted on the Keokuk, IA, USGS 7.5-minute topographic series map (USGS 1975) (see Appendix B, Figure 1). The site is in the north ½ of the northeast ¼ of Section 22 and in the northwest ¼ of Section 23, all in Township 65 North, Range 5 West. Coordinates at the approximate center of the subject property are 40.41956 degrees north latitude and 91.42108 degrees west longitude.

4.2.2 Exterior Observations

The subject property is a 78.83-acre parcel in a mixed use area of the City. The subject property is currently inactive.

The eastern portion of the subject property, a known closed landfill, is a fenced-in grassy area. The western portion of the subject property is a wooded area. The central portion of the subject property is where historical manufacturing occurred, and includes nine buildings, driveways, railroad tracks, and a parking area.

4.2.3 Interior Observations

The subject property hosts nine commercial buildings, all locations of which are depicted on Figure 3 in Appendix B:

- Building #1, the northernmost building, is a former office space. The building is generally finished with drywall walls, lay-in acoustic tile ceilings, and vinyl floor tile. Building #1 contains

an assortment of office supplies left behind, including desks, filing cabinets, a copier, and a fax machine. The building is equipped with a heating, venting, and air conditioning (HVAC) system.

- Building #2, south of Building #1, is a corrugated metal sheet siding warehouse. It was formerly used for carbide container storage (Terracon 2009).

- Building #3 was formerly a laboratory and first aid center. The paint on the interior is heavily flaking. Building # 3 contains old laboratory supplies such as ovens, sampling equipment, and x-ray equipment. Water intrusion rendered the basement inaccessible.

- Building #4 is a former office space. The interior of the building is finished with drywall and vinyl floor tile.

- Building #5 is the North Substation. The building was locked and the interior was inaccessible.

- Building #6 served as the receiving and maintenance building. The interior is generally finished with painted brick walls and concrete floors. Water intrusion rendered the basement inaccessible.

- Building #7 is a corrugated metal sheet siding shed currently used to store a few drums.

- Building #8, the southernmost building, formerly served as the carbon block manufacturing building. The building is made of corrugated metal sheeting and brick.

- Building #9 is a corrugated metal sheeting manufacturing building formerly used for production of electrode paste.

The subject property includes an active railroad line. Railroads are associated with various contaminants including creosote, lead, and arsenic, and leaking or spilled oils and fuels from locomotives. Presence of the active railroad poses a REC to the subject property.

4.3 SPECIFIC RECONNAISSANCE ITEMS

The following sections are related to items observed during the site reconnaissance.

4.3.1 Hazardous Substances and Petroleum Products

Several containers of motor oil were observed in building #6. Heavy staining observed surrounding the oil drums in building #6 poses a REC to the subject property. Many other containers labeled as oil were observed on the subject property. No leaking or staining was observed around these containers, so their presence does not pose a REC to the subject property.

Numerous containers of paint and household cleaners were observed throughout the buildings on the subject property. No leaking or staining was observed surrounding these containers, so they do not pose a REC to the subject property.

An AST labeled as diesel fuel was observed south of building #3 in a concrete containment area. The AST appeared to be in good condition, and no evidence of leaking or spilling was observed in the surrounding area; therefore, these observations do not pose a REC to the subject property.

4.3.2 Hazardous Waste

Numerous fire extinguishers were identified throughout the buildings on the subject property. A pile of fire extinguishers was observed in building #2. Presence of the fire extinguishers is a de minimis condition, but contents and containers must be disposed of properly.

No other hazardous waste was observed on the subject property during the site reconnaissance.

4.3.3 Landfills, Dumps, Burials, or Solid Waste Disposal

Two piles of solid waste were observed on the subject property—one approximately 150 feet north of building #3 and one on the northwest portion of the subject property in the wooded area (see Figure 3 in Appendix B). The waste appeared to be primarily building materials, possibly from previous building demolition. Because of the age of the buildings on the property, ACM or LBP likely was present in the buildings prior to demolition. No records of inspection or abatement were provided. Possible presence of ACM and LBP in the pile of solid waste poses a REC to the subject property.

The eastern portion of the subject property is a closed landfill. An EPA file review on May 20, 2011, reported that the landfill was approximately 30 feet deep and had been used for disposal of lime sludge and dust, and coke dust and carbide. According to Mr. Hamilton, at one point all waste generated on the property was dumped into the on-site landfill, including trash, scrap, carbon dust, and lime from the furnace. He recalled that the contents of the landfill had often generated heat and would flame when wet. Mr. Hamilton did not know when the landfill had opened. Mr. Hamilton recalled that the landfill had been present when he began working on the property in 1966, and thought it had been closed sometime in the 1970s due to unsuitable environmental conditions revealed in results from sampling the monitoring wells. Additional information regarding the closed landfill was found during review of previous reports (see Section 6.2.6). Based on the information provided in these reports, the closed landfill poses a HREC to the subject property.

During the site reconnaissance, black coal-like granular material—likely related to the former coal and coke stockpiles—was observed over large areas within the former manufacturing portion of the subject property.

4.3.4 Storage Tanks

Underground Storage Tanks

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

The subject property is listed in the Iowa UST database. Three USTs are listed as no longer in use. No further information was available in the EDR report. According to the IDNR storage tanks database, the following installations of USTs occurred at the subject property: a 1,000-gallon diesel UST on December 1, 1974; a 14,000-gallon used oil UST on September 1, 1976; a 560-gallon gasoline UST on June 1, 1977; and a 12,000-gallon heating oil UST on December 1, 1977. All these USTs were removed on June 1, 1987 (IDNR 2016a). According to Mr. Hamilton, one UST on the property also had been removed sometime in the early 1990s. Mr. Hamilton was not aware of any oversight of the removals or of location(s) where disposal of contents had occurred. Based on lack of information regarding presence of contamination during those removals, these former USTs pose a REC to the subject property.

Aboveground Storage Tanks

A polyethylene AST was observed near the eastern boundary of the subject property. The AST was labeled as hydrochloric acid, and according to Mr. Hamilton, had been historically used to dispense acid into the water to adjust the pH of Soap Creek.

A diesel fuel AST was observed south of building #3. Two unlabeled ASTs were observed within a fenced area near the east entrance gate. The ASTs appeared to be associated with an emergency generator. No staining or leaking was observed surrounding the ASTs on the subject property; however, snow cover may have concealed stains.

According to Mr. Hamilton, the former petroleum storage area included two large ASTs—one gasoline and one diesel. Previously, two liquefied propane (LP) tanks also had been on the property, part of an LP inverting system that allowed the plant to switch from natural gas to LP if necessary. A smaller LP tank had been on a concrete pad by the west warehouse. A larger LP tank had been on a concrete pad at the east end of the plant by the road. Both of these tanks had been removed and sold in 2006.

4.3.5 PCB-containing Equipment

One pad-mounted electrical transformer was observed on the site at the time of the site visit. Three pole-mounted transformers were observed north of building #1 along Carbide Lane. No leaking or staining

was observed in the vicinity of the transformers; therefore, they do not pose a REC to the subject property.

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

Building #1 contains an HVAC system. The building is heated by a boiler. A water heater and water pressure tank were observed in basement of the building. According to Mr. Hamilton, a boiler also had been present in the flooded basement of building #6.

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

Standing water was observed in the basements of buildings #3 and #6. According to Mr. Hamilton, no oil was ever stored in the basements. Flooding of these basements was common because they have no drains. The water had to be pumped out of the basements. A sheen and floating debris were observed on the water in building #6. No odor was detected; however, possibility of leaking petroleum products in the basement of building #6 poses a REC to the subject property.

Standing water was observed in the containment area surrounding the diesel fuel AST south of building #3. The water was frozen at the time of the site reconnaissance, disallowing personnel to determine if a sheen was present.

Floor drains were observed in several of the buildings. In general, Mr. Hamilton indicated that building drains would lead to the waste water treatment area in the pump house where acid would be added to the water. Staining was observed surrounding a trench drain in building #6. The staining appeared to be motor oil, but the source was not apparent. The stained concrete in the maintenance building poses a REC to the subject property based on amount of staining, length of time the staining has been present based on previous reports, and possibility that the contamination reached soil given the age and porosity of the concrete.

4.3.8 Pits, Ponds, and Lagoons

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

4.3.9 Stains or Corrosion and Stained Soil or Pavement

Stained concrete was observed at several locations on the subject property. Large areas of motor oil staining were observed in building #6. The areas of staining surrounding the leaking oil drums pose a REC to the subject property.

Staining was also observed on the concrete south of building #2. The source of the staining was not apparent, but could be related to the former coal and coke stockpiles. Presence of the staining poses a REC to the subject property.

Staining was observed surrounding a trench drain in building #6. The staining appeared to be motor oil, but the source was not apparent. The stained concrete in the maintenance building poses a REC to the subject property based on amount of staining, length of time the staining has been present based on previous reports, and possibility that contamination reached soil given the age and porosity of the concrete.

According to Mr. Hamilton, coal tar pitch tanks previously present on the property were old railroad tank cars covered with insulation and a plaster-like material to hold in heat. The tar from the tanks was pumped into the manufacturing building to be used as binder for coal during production of electrodes. The cars did not have any kind of containment, but Mr. Hamilton did not recall leakage from the cars. However, the pumps often leaked, and even though the pumps and tanks had been removed, some product was observed on the ground where the material had been stored. This remaining product and associated staining pose a REC to the subject property.

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

Dead vegetation was observed because the site reconnaissance occurred during winter. No other areas of distressed, discolored, or stained vegetation that indicate RECs were observed on the subject property during the site reconnaissance; however, snow cover may have concealed distressed, discolored, or stained vegetation.

4.3.11 Possible Fill, Grading, or Solid Waste Disposal

The subject property was likely graded before construction of the buildings. Grading necessary for construction does not pose a REC to the subject property.

Two piles of solid waste were observed on the subject property—one approximately 150 feet north of building #3 and one on the northwest portion of the subject property in the wooded area (see Figure 3 in Appendix B). The waste appeared to be primarily building materials, possibly from previous building demolition. Because of the age of the buildings on the property, ACM or LBP likely were present in the buildings prior to demolition. No records of inspection or abatement were provided. Possible presence of ACM and LBP in the pile of solid waste poses a REC to the subject property.

The eastern portion of the subject property is a former landfill. An EPA file review on May 20, 2011, reported that the landfill was approximately 30 feet deep and had been used for disposal of lime sludge and dust, and coke dust and carbide. According to Mr. Hamilton, at one point all waste generated on the property was dumped into the on-site landfill, including trash, scrap, carbon dust, and lime from the furnace. He recalled that the contents of the landfill often generated heat, and would flame when wet. Mr. Hamilton did not know when the landfill had opened. Mr. Hamilton recalled that the landfill had been present when he began working on the property in 1966, and thought that it had been closed sometime in the 1970s due to unsuitable environmental conditions revealed in results from sampling monitoring wells. Additional information regarding the closed landfill was found during review of previous reports (see Section 6.2.6). Based on the information provided in these reports, the closed landfill is poses a HREC to the subject property.

No other evidence of fill, grading, or solid waste disposal was observed during the site reconnaissance.

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

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

4.3.13 Wastewater and Stormwater Systems and Discharges

Wastewater from the subject property is discharged into the City's sanitary sewer system.

Stormwater runoff in the former manufacturing area is reportedly conveyed by a stormwater sewer system to an outfall (observed at the east side of the property) that empties into Soap Creek. A former "acid treatment shed" was observed near this outfall. The shed contained a storage tank and piping that reportedly had been used to adjust the pH of the stormwater outfall entering Soap Creek. During the site reconnaissance, a fine, tan-colored sedimentation—possibly hydrated calcium carbide—was observed in the earthen drainage that had conveyed water to Soap Creek from the stormwater sewer outfall near the acid treatment shed.

Stormwater runoff from other areas appears to either infiltrate into the ground or flows into drainages that enter Soap Creek or Hog Thief Creek.

4.3.14 Wells and Potable Water Supply

Potable water is supplied to the subject property from the City's public water utility. Several groundwater monitoring wells were observed on the eastern portion of the subject property between the former landfill and Soap Creek.

4.3.15 Other Site-specific Environmental Conditions

ASTM Practice E 1527-13 does not require a survey or testing for presence of LBP. Based on the age of the buildings present on the subject property, LBP was likely used.

ASTM Practice E 1527-13 does not require testing for presence of ACM as part of a Phase I ESA. Building materials included drywall, joint compound, vinyl floor tile, lay-in acoustic ceiling tile, and cove base. These materials could contain ACM.

EPA requested an LBP survey and an ACM survey of the subject property. Results of these surveys will be presented in a Limited Asbestos Survey and Lead-Based Paint Screening Report submitted separately.

4.4 VICINITY RECONNAISSANCE

The reconnaissance consisted of a survey of adjoining properties and land uses that could exert adverse environmental impacts on the subject property. The 78.83-acre subject property is in a mixed use area of the City. Figure 2 in Appendix B illustrates the location and boundaries of the subject property.

Adjacent to the subject property are the following: to the north, Carbide Lane, followed by Amsted Rail Company Griffin Wheel Division, which produces diesel wheels for the railroad industry; to the northeast, the Keokuk Sewer Maintenance Department and Keokuk Animal Services; to the east, Burlington Railroad; to the southeast, Newberry Towing Recovery & Auto Salvage; to the south, a residential property and Archer Daniels Midland Milling Company, an agricultural processor; to the west, U.S. Highway 61 with agricultural and forested land beyond.

5.0 INTERVIEWS

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

5.1 INTERVIEW WITH OWNER

The subject property is owned by 365 Carbide Lane. START made multiple attempts to interview the owners of the subject property, however, no response was received at the time this report was completed. 365 Carbide Lane has only owned the subject property since 2008 and likely does not have additional information on the historic uses of the subject property. Tetra Tech's inability to interview the current owner of the subject property does not impact Tetra Tech's ability to render an opinion regarding potential RECs, HRECs, or CRECs.

5.2 INTERVIEWS WITH KEY SITE MANAGER

The owner identified Mr. Jerry Hamilton, former Maintenance Manager of Elkem Carbide, as having good knowledge of uses and physical characteristics of the property; therefore, Mr. Hamilton is considered the key site manager. Mr. Hamilton was interviewed as described in Section 5.4.

5.3 INTERVIEWS WITH CURRENT OCCUPANTS

The subject property is currently unoccupied; therefore, no interviews were conducted with current occupants.

5.4 INTERVIEWS WITH PAST SITE OWNERS/OCCUPANTS

Tetra Tech contacted Mr. Jerry Hamilton, former Maintenance Manager, to inquire about previous activities on the subject property. Mr. Hamilton began working on the subject property in 1966 and worked there for nearly 50 years. According to Mr. Hamilton, the first company to own the property was United Lead, which separated lead from ore and cleaned the lead in an acid bath before shipping it. The property then became a carbide plant, where carbide was mixed with water to produce acetylene gas. After this, United Lead began producing carbon paste by mixing various stages of coals to make carbon electrodes. Mr. Hamilton recalled that much of the equipment and buildings had been removed or demolished by Frontier Industrial Corporation in 2006 after operations had been shut down. This

included the paste block cooling building, paste block molding building, coal unloading docks, hot well pumps, cooling towers, ASTs, and coal pitch tanks. Mr. Hamilton noted only one UST on the subject property, and stated that it had been removed 10 to 15 years prior to the other equipment by a local contractor. Mr. Hamilton was not aware of any oversight of the removal or of the location where disposal of contents had occurred.

According to Mr. Hamilton, at one point all waste generated on the property was dumped into the on-site landfill, including trash, scrap, carbon dust, and lime from the furnace. He recalled that the contents of the landfill often had generated heat and would flame when wet. Mr. Hamilton did not know when the landfill had opened. It had been present when he began working on the property in 1966, and had been closed sometime in the 1970s due to unsuitable environmental conditions revealed in results from sampling the monitoring wells.

According to Mr. Hamilton, the coal tar pitch tanks previously located on the property had been old railroad tank cars covered with insulation and a plaster-like material to hold in heat. Tar from the tanks had been pumped into the manufacturing building for use as binder for coal during production of electrodes. The cars did not have any kind of containment, but Mr. Hamilton did not recall leakage from the cars. However, the pumps often leaked and even though the pumps and tanks had been removed, some product was observed on the ground where the material had been stored.

Two large machines are in the Paste Block Building (building #9). Mr. Hamilton indicated that one of these machines had extruded electrode paste. A hopper dumped coal into a machine that extruded 2- to 3-inch pellets. These pellets were cooled and shipped off the property. The other machine in the building had been used to process electrode paste. The paste would go into a hopper, be dumped into a shoot leading to a fill mold, go through the cooling system, then into the cuber and put on a skid. Next to this paste mixing area had been an oil-water separator. According to Mr. Hamilton, food grade oil was sprayed onto the molds to keep the paste from sticking. The oily water from the cooling system drained first into one room, then into another room containing the oil-water separator. The oil was then skimmed off and reused on the molds.

Mr. Hamilton recalled three explosions on the property. The first explosion occurred when water leaked into the carbide furnace. The second occurred when water got into the boot of the elevator in the screening and packing room. Hot carbide then went into the cool water, resulting in an explosion. The third explosion happened not long before the plant closed. The company had quickly developed a new

product line in the paste plant furnace building. Proper safety procedures had been overlooked, leading to an explosion.

Although Mr. Hamilton was not familiar with the specifics surrounding installation of the acid treatment shed, he knew that it had been constructed sometime in the 1990s to introduce acid into the water. Mr. Hamilton stated that since the plant had shut down, lines from the acid treatment shed had plugged up approximately twice a year. This backup in the lines causes lime to leach out of the former landfill. Mr. Hamilton had to hire a contractor to clean out the lines to stop the leaching.

Mr. Hamilton indicated that dust from the dust collectors had not been disposed of on site. Some of the dust had been hauled off to a disposal site. The lime dust from the dust collectors went into a bin, and then into a screw pipe bagging machine. The lime dust was bagged and sent either to an off-site disposal area or to local farmers. This process was referred to as "lime bagging."

According to Mr. Hamilton, the former petroleum storage area had included two large ASTs—one gasoline and one diesel. Previously, two LP tanks also had been present on the property, part of an LP inverting system that had allowed the plant to switch from natural gas to LP if necessary. A smaller LP tank had been on a concrete pad by the west warehouse. A larger LP tank had been on a concrete pad at the east end of the plant by the road. Both of these tanks had been removed and sold in 2006. According to Mr. Hamilton, no oil was stored in the petroleum storage area. Oil and used oil were stored in the maintenance building (building #6). Used oil was often dumped into the oil-water separator at the Paste Plant to be used for the molds. As far as Mr. Hamilton was aware, the oil barrels in the maintenance shop were left behind after shutdown.

Mr. Hamilton was not aware of anything stored in the basement of the maintenance building. He stated that the basement previously had contained an old boiler used to heat the building, valves for city water, a fire pump, and a natural gas line. According to Mr. Hamilton, no oil was ever stored in the basement. Flooding of this basement was a common occurrence because no drain was present. The water had to be pumped out of the basement. In general, Mr. Hamilton indicated that building drains would lead to the waste water treatment area in the pump house where acid would be added to the water.

Mr. Hamilton was not familiar with the types of chemicals used in the laboratory. He recalled that the materials produced would often be tested for plasticity by the mixer in the manufacturing buildings, and that such tests may have also been conducted in the laboratory.

5.5 INTERVIEWS WITH LOCAL/STATE GOVERNMENT OFFICIALS

START contacted Mr. Gabe Rose, Keokuk Fire Chief, to inquire about any incidents at the subject property. Mr. Rose did not have any records regarding the subject property.

6.0 RECORDS REVIEW

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

6.1 ENVIRONMENTAL RECORDS SOURCES

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

6.1.1 Environmental Database Search

Federal, state, regional, and local records were reviewed to assess whether the subject property or facilities within the approximate minimum search distance have undergone significant unauthorized releases of hazardous substances or other events with potentially adverse environmental effects. EDR performed a database search of the subject property in accordance with the ASTM E 1527-13.

The databases searched have been developed and are updated by federal, state, and local agencies. While these databases are reliable and comprehensive, cases have occurred of data out of date and no longer reflective of actual facility conditions. The Government Records Searched/Data Currency Tracking section of the EDR report in Appendix G identifies when each database was updated.

A review of the facilities listed within the EDR-Radius Map with GeoCheck report revealed the following (EDR 2016a):

The subject property was identified on 11 databases in the EDR:

- The subject property was listed on the Integrated Compliance Information System (ICIS) database. The ICIS database provides information on enforcement and compliance across most of EPA's programs. The subject property received various Resource Conservation and Recovery Act (RCRA) enforcements. The subject property was cited for various RCRA violations in 1987. Based on the regulatory status and number of RCRA violations, these listings pose a REC for the subject property.

- The subject property was listed on the Facility Index System/Facility Registry System (FINDS) database. The FINDS database contains both facility information and "pointers" to other sources that contain more detail. The subject property was identified in the following databases: the National Compliance Database (NCDB), which supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions and settlements. The US EPA Toxic Release Inventory System (TRIS) database contains information from facilities on amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off site. The RCRA Info database is a national information system that supports the RCRA program through tracking of

events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. Listing of the subject property in these databases alone does not pose a REC to the subject property.

- The subject property is listed in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) No Further Remedial Action Planned (NFRAP) database, which lists sites for which no further action to place the site on the National Priorities List (NPL) is planned. The subject property was assessed during 1979-1981, did not qualify for the NPL, and was given a low priority status for further assessment. It is also listed in the Corrective Action Report (CORRACTS) database, which lists sites with RCRA corrective action activity, and according to this listing, has been assigned a low corrective action priority. Based on the regulatory status and number of RCRA violations, these listings pose a REC to the subject property.

- The subject property was listed on the FIFRA and TSCA (FTTS) and historic (HIST) FFTS databases. The FTTS database tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA, and the Emergency Planning and Community Right-to-Know Act (EPCRA). The facility was listed on the TSCA database in 1995. Listing on this database alone does not pose a REC to the subject property.

- The subject property was listed on the RCRA Non Generators / No Longer Regulated (NonGen/NLR) database. This database lists facilities that generate, transport, store, treat, and/or dispose of hazardous waste as defined by RCRA. The site was assigned a medium corrective action priority on January 28, 1992, and classified as a conditionally exempt small quantity generator on July 18, 2005. The subject property was also listed in the RCRA Administrative Action Tracking System (RAATS). This database contains records based on enforcement actions issued under RCRA pertaining to major violators, and includes administrative and civil actions brought by EPA. Multiple violations were listed for the subject property between 1984 and 1989. Each violation appears to have been addressed to gain compliance. Although the facility gained compliance on each violation, the number of RCRA violations identified is evidence of poor waste management practices, and therefore these listings pose a REC to the subject property.

- The subject property is listed in the IA SPILLS and MO SPILLS databases. A report from December 20, 2000, stated that at least 400 gallons of non-PCB mineral oil were spilled into a storm drain leading to Soap Creek. Because of ice cover on the creek, none of the product could be recovered. Based on the amount of product spilled and the cleanup status, this SPILLS listing poses a REC to the subject property.

- The subject property is also listed in the Emergency Response Notification System (ERNS) due to the spill reported on December 20, 2000. According to the ERNS report, the spill was from a transformer near the calcine furnace. Oil dry was applied, and other absorbents were reportedly applied. Based on the amount of product spilled and the cleanup status, this SPILLS listing poses a REC to the subject property.

- The subject property is listed in the Iowa UST database. Three USTs are listed as no longer in use. No further information was available in the EDR report. According to the IDNR storage tanks database, the following installations of USTs occurred at the subject property: a 1,000-gallon diesel UST on December 1, 1974; a 14,000-gallon used oil UST on September 1, 1976; a 560-gallon gasoline UST on June 1, 1977; and a 12,000-gallon heating oil UST on December 1, 1977. All of these USTs were removed on June 1, 1987 (IDNR 2016a). Based on

the lack of information regarding presence of contamination during these removals, those former USTs pose a REC to the subject property.

- The subject property is listed on the IA ALLSITES database. The IA ALLSITES database contains all sites included in the contaminated sites tracking database. The subject property was in the CERCLA Pre-remedial program, and the status is listed as closed. According to the IDNR contaminated sites database, very high concentrations of polycyclic aromatic hydrocarbons (PAH) were detected in surface soil samples near the former coal tar pitch tank farm and petroleum storage area. Contamination was not identified in surface water or groundwater. Additional investigation and/or remediation of the area was recommended (IDNR 2016b). Based on the known surface soil contamination on site, this listing poses a REC to the subject property.

The EDR report identified 15 database listings of facilities within the ASTM standard search distances of the subject property.

- Amsted Rail Company, Inc. at 416 Carbide Lane is approximately 45 feet west-northwest of the subject property. The site is listed in the Iowa Solid Waste Facilities/Landfill Sites (SWF/LS) database, an inventory of permitted facilities, and in the RCRA Large Quantity Generator (LQG) database. The facility is a foundry sand landfill and is approximately 1,000 feet west-northwest of the subject property. The facility uses the following chemicals: graphite, calcium oxide (lime), magnesium oxide, iron, resin (phenol), carbon, manganese, silicon, rice hulls, silica, propane, oxygen, aluminum oxide, and aluminum silicate. The facility is listed in the RCRA-LQG database for the following chemicals: cadmium, lead, mercury, used oil, cadmium, lead, tetrachloroethylene, mercury, M-Cresol, chromium, P-Cresol, and silver. The facility has been cited for various violations regarding its contingency plan and emergency procedures, small quantity handlers, universal waste, manifest, general, general facility standards, preparedness and prevention, containers use and management, and pre transport. Based on the close proximity of a landfill to the subject property, chemicals used at the facility, and violations that have occurred at the facility indicating poor waste management practices, this listing poses a REC to the subject property.

- The Keokuk Ferro-Sil, Inc. Industrial Waste Landfill site is approximately 174 feet west of the subject property. The site is listed in the IA SWF/LS database as an industrial landfill. The site is currently closed. Based on close proximity of an industrial landfill to the subject property, this site poses a REC to the subject property.

- The Pryor Trucking Inc. site at 1304 S Navajo Drive is approximately 412 feet east of the subject property. The site is listed on the IA LUST and IA UST database. The facility had one 15,000-gallon diesel UST that was removed on April 29, 1994. Contamination was identified during removal of the tank. According to the IDNR storage tank database, the site received a no action required status on January 16, 1996 (IDNR 2016a). Based on the regulatory status, this listing does not pose a REC to the subject property.

- The Casey's General Store #1346 site at 3531 Main Street is approximately 0.326 feet east-northeast of the subject property. The site is listed in the LUST database; however, no further information was available from the EDR report or the IDNR storage tank database. Based on the location downgradient of the subject property, this listing does not pose a REC to the subject property.

- The Trellex Morse-Keokuk site at 3588 Main Street is approximately 0.341 mile east-northeast of the subject property. The site was listed in the CERCLIS-NFRAP and IA ALLSITES databases. A preliminary assessment of the site in 1993 assigned it a low priority status for further assessment; the site was archived in 2007 and does not qualify for the NPL. The site type for the ALLSITES listing is disposal and the status is open. According to the IDNR contaminated sites database, the site has had subsurface trichloroethene (TCE) contamination from degreasing operations at the facility in the late 1990s (IDNR 2016b). Based on the location downgradient of the subject property, this listing does not pose a REC to the subject property.

- The Stone Container Corp site at 3972 Main Street Road is approximately 0.411 mile northeast of the subject property. The site is listed on the IA LUST database. The facility had two 10,000-gallon diesel USTs that were removed on April 1, 1989. According to the IDNR storage tank database, the site received a no action required status on September 23, 1991 (IDNR 2016a). Based on the regulatory status and location downgradient of the subject property, this listing does not pose a REC to the subject property.

- The Kast Metals Corporation at 240 Royal Road is approximately 0.411 mile northeast of the subject property. The site is listed in the CERCLIS-NFRAP database. A preliminary assessment at the site in 1985 assigned it a low priority status for further assessment; the site was archived in 1985, and does not qualify for the NPL. Based on the location downgradient of the subject property, this listing does not pose a REC to the subject property.

- The Keokuk Steel Castings Co is approximately 0.411 mile northeast of the subject property. The site is listed in the IA ALLSITES database. No further information was available in the EDR report or the IDNR contaminated sites database. Based on the location downgradient of the subject property, this listing does not pose a REC to the subject property.

- The Frank Millard & Co., Inc. site at 3763 Main Street Road is approximately 0.445 mile northeast of the subject property. The site is listed in the IA SWF/LS database as an appliance demanufacturer. Based on the location downgradient of and distance from the subject property, this listing does not pose a REC to the subject property.

- The Sheller-Globe Corp – Keokuk site at 3200 Main Street is approximately 0.628 mile east-southeast of the subject property. The site is listed in the CORRACTS database. The site is a rubber product manufacturer with numerous corrective actions. Based on the distance and location crossgradient of the subject property, this listing does not pose a REC to the subject property.

The EDR report identified one "orphan" facility, Carbide, which, because of poor or inadequate address information, could not be mapped by EDR. This facility is the subject property and is listed in the PCB Transformer database, which contains PCB transformer registrations. Presence of a PCB transformer alone does not pose a REC to the subject property.

6.1.2 Vapor Encroachment Screen

Tetra Tech completed an initial vapor encroachment screen to determine if a vapor encroachment condition (VEC) exists in the subsurface below any proposed subject property structures from hazardous

substances, petroleum, and petroleum products that can include volatile organic compounds (VOC), semivolatile organic compounds (SVOC), and inorganic volatile compounds. The Tier 1 non-invasive vapor encroachment screen assessed presence of the chemicals of concern within the following approximate recommended minimum search distances specified in ASTM E 2600-10 *Standard Guide for Vapor Encroachment Screening on Sites Involved in Real Estate Transactions* (ASTM 2010):

Area of Concern and Approximate Minimum Search Distances Surrounding the Subject Property (miles)		
Standard Environmental Record Sources (where available)	**Chemicals of Concern**	**Petroleum Hydrocarbon Chemicals of Concern**
Federal NPL	0.33	0.10
Federal CERCLIS	0.33	0.10
Federal RCRA CORRACTS	0.33	0.10
Federal RCRA non-CORRACTS TSD	0.33	0.10
Federal RCRA Generators	Subject Property Only	Subject Property Only
Federal Institutional Control/Engineering Control	Subject Property Only	Subject Property Only
Federal ERNS	Subject Property Only	Subject Property Only
State and Tribal-equivalent NPL	0.33	0.10
State and Tribal-equivalent CERCLIS	0.33	0.10
State and Tribal Landfill or Solid Waste Disposal Sites	0.33	0.10
State and Tribal LUST	0.33	0.10
State and Tribal UST	Subject Property Only	Subject Property Only
State and Tribal Institutional Control/Engineering Control	Subject Property Only	Subject Property Only
State and Tribal Voluntary Cleanup	0.33	0.10
State and Tribal Brownfield	0.33	0.10

Notes:

CERCLIS Comprehensive Environmental Response, Compensation, and Liability Information System
CORRACTS RCRA Corrective Action Activity
ERNS Emergency Response Notification System
LUST Leaking Underground Storage Tank
NPL National Priorities List
RCRA Resource Conservation and Recovery Act
TSD RCRA Treatment, Storage, and Disposal
UST Underground Storage Tank

Based on results of the initial vapor encroachment screen, the following facilities with chemicals of concern were identified in the EDR report within the minimum search distances (EDR 2016f):

- The subject property was listed in multiple databases for RCRA violations, an approximately 400-gallon spill of mineral oil at the property entered Soap Creek, and four USTs were removed from the subject property (no documentation was available regarding sampling to determine if contamination was present). Based on possible presence of contamination including petroleum and other chemicals of concern, these listings pose a VEC to the subject property.

- Amsted Rail Company, Inc. at 416 Carbide Lane is approximately 45 feet west-northwest of the subject property. The site is listed in the Iowa SWF/LS database, an inventory of permitted facilities, and in the RCRA-LQG database. The facility is a foundry sand landfill and is

approximately 1,000 feet west-northwest of the subject property. The facility uses the following chemicals: graphite, calcium oxide (lime), magnesium oxide, iron, resin (phenol), carbon, manganese, silicon, rice hulls, silica, propane, oxygen, aluminum oxide, and aluminum silicate. The facility is listed in the RCRA-LQG database for the following chemicals: cadmium, lead, mercury, used oil, cadmium, lead, tetrachloroethylene, mercury, M-Cresol, chromium, P-Cresol, and silver. The facility has been cited for various violations regarding contingency plan and emergency procedures, small quantity handlers, universal waste, manifest, general, general facility standards, preparedness and prevention, containers use and management, and pre transport. Based on close proximity of a landfill to the subject property, chemicals used at the facility, and violations that have occurred at the facility indicating poor waste management practices, this listing poses a VEC to the subject property.

- The Keokuk Ferro-Sil, Inc. Industrial Waste Landfill site is approximately 174 feet west of the subject property. The site is listed in the IA SWF/LS database as an industrial landfill. The site is currently closed. Based on close proximity of an industrial landfill to the subject property and possible disposal of chemicals of concern in the land fill, this site poses a REC to the subject property.

6.1.3 Valuation Reduction for Environmental Issues

The users provided no information regarding valuation reduction for environmental issues associated with the assessed property. The users were unaware of any information regarding environmental liens or AULs for the assessed property. No environmental liens or AULs were identified by American Abstract & Title Guaranty (see Appendix C).

6.1.4 Engineering and Institutional Controls

As part of the environmental records search by EDR, federal and state databases for institutional and engineering controls were searched, including EPA's Engineering Controls Sites List and Sites with Institutional Controls and the U.S. Department of the Navy's Land Use Control Information System. EDR did not identify any listings for institutional and engineering controls.

6.2 HISTORICAL USE INFORMATION REGARDING THE SITE AND ADJOINING PROPERTIES

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

6.2.1 Historical Property Ownership

Table 3-4 lists the chain-of-title search of the subject property (American Abstract & Title Guaranty 2016) (see Appendix C).

TABLE 6-1

CHAIN OF TITLE SUMMARY
365 CARBIDE LANE, KEOKUK, IOWA

Date Executed	Transaction Description	Type	Book	Page
12/24/1919	River Smelting & Refining Company to United Lead Company	Deed	81	129
7/1/1929	United Lead Company (by President Edward J. Cornish) to Midwest Carbide Corporation	Warranty Deed	92	207
4/22/1947	Midwest Carbide Corporation (by President L F. Loutrel) to Union Electric Power Company (by John A. Woodbridge)	Right of Way Permit	119	156
7/19/1957	Midwest Carbide Corporation (by Vice President and General Manager W. J. Fulton) to the State of Iowa	Quit Claim Deed	129	277
5/6/1966	Midwest Carbide Corporation (by President W. J. Fulton) to Lee County, Iowa	Easement for Public Highway	143	354
6/4/1973	City of Keokuk, Plaintiff; vs, Midwest Carbide Co., et al, Defendants	Annexation by Decree	6	120
7/22/1975	Midwest Carbide Corporation (by Vice President G. J. Kiedaisch) to Union Electric Company	Easement	164	293
November 1975	Midwest Carbide Corporation (by Vice President G. Jenkins Kiedaisch) to General Mills Chemicals, Inc.	Easement and Right of Way	164	499
February 27, 1976	Midwest Carbide Corporation (by Vice President G. J. Kiedaisch) to General Mills Chemicals, Inc.	Easement and Right of Way	164	619
2/23/1977	Midwest Carbide Corporation (by President K. C. Clarke) to Union Electric Company	Easement	165	669
NA	Midwest Carbide Corporation (by G. J. Kiedaisch) to Keokuk Gas Service Company	Right of Way Agreement	174	368
2/27/1980	City of Keokuk, Iowa (by Mayor Robert L. Seabold) to Midwest Carbide Corporation	Permanent Easement	174	712
10/14/1983	Merging Midwest Carbide Corporation into American Carbide and Carbon Corporation	Certificate of Ownership and Merger	87S43	A4
10/13/1995	American Carbide and Carbon Corporation (aka Midwest Carbide Corporation) (by President R. H. Scott) to IES Utilities, Inc.	Electric Line Easement	95S-85	A1
12/31/1998	American Carbide and Carbon Corporation (by Vice President Andrew R. Cichocki) to Elkem Metals Company, L.P.	Special Warranty Deed	99S-2	B3
6/23/1999	Elkem Metals Company, L.P. to Elkem Metals Company – Keokuk, L.P.	Quit Claim Deed	99S-60	D6
12/10/1999	Elkem Metals company L.P. (by Vice President Francis A. King) to IES Utilities, Inc.	Electric Line Easement	00S-12	B10

TABLE 6-1 (Continued)

CHAIN OF TITLE SUMMARY
365 CARBIDE LANE, KEOKUK, IOWA

Date Executed	Transaction Description	Type	Book	Page
1/2/2003	Elkem Metals Company, L.P. to Atmos Energy Corporation	Natural Gas Line Easement	03S-175	NA
5/9/2008	Elkem Metals Company – Keokuk, L.P. (by President Geir Kvemmo) to Carbide Lane Properties, LLC	Special Warranty Deed	08S	1051 and 2799
9/11/2015	Carbide Lane Properties, LLC (by David P. Franjoine) to 365 Carbide Lane, LLC	Special Warranty Deed	2015	4071 and 4565

Based on the chain-of-title search, the subject property was owned by River Smelting and Refining Company until 1919 when it was deeded to United Lead Company. In 1929, the subject property was sold to Midwest Carbide Corporation. Midwest Carbide Corporation merged into American Carbide and Carbon Corporation in 1983. In 1998, American Carbide and Carbon Corporation sold the property to Elkem Metals Company, which sold it to Carbide Lane Properties in 2008. Carbide Lane Properties then sold the subject property to 365 Carbide Lane in 2015. 365 Carbide Lane currently owns the subject property.

An internet search for information regarding the River Smelting and Refining Company (River Smelting) yielded historical articles from the Keokuk newspaper, *The Daily Gate City* (Daily), and other sources that describe River Smelting and United Lead's use of the subject property: In 1915, the Keokuk Industrial Association reportedly purchased a 185-acre farm, from which it deeded 100 acres to River Smelting for constructing a secondary zinc smelter (Daily 1915b, 1920). Construction of the smelter began the same year, and its stated purpose was to "recover metals such as copper, zinc, lead, silver, and gold" via electrolytic or electro-thermal process (Daily 1915a). Subsequent paper articles indicate the plant was predominately used to recovery and purify zinc from metallic and oxide forms of ore that had already undergone processing in a primary smelter at another location (Daily 1917). In 1916, an announcement was made of planned construction of an additional plant on the site that would be used to produce a lead alloy hardened by calcium and barium, a process owned by the United Lead Company, a subsidiary of the National Lead Company (Daily 1916). In May 1919, it was announced that the River Smelting zinc smelter would be closing (Daily 1919), and as evidenced by the chain of title, United Lead purchased the land from River Smelting in December 1919. A description of the United Lead plant in the *Transactions of the American Electrochemical Society* indicates the plant was still operating in 1921, producing "Frary metal"—a hardened lead alloy used in manufacture of bearings (American Electrochemical Society [AES] 1921). Photographs of the plant in the 1921 AES publication show a battery of electrolytic pots and mixing kettles holding molten lead (AES 1921). Past uses of the subject

property as a secondary zinc smelter plant and a lead alloy product plant pose RECs to the subject property.

6.2.2 Sanborn Map Report

No Sanborn® Map Reports of the subject property were available.

6.2.3 Aerial Photographs

START reviewed aerial photographs of the subject property and surrounding area for years dating back to 1936 (EDR 2016c and HIG 2016) (see Appendix G-2). Table 6-1 is a summary of information obtained from the aerial photographs.

TABLE 6-2

SUMMARY OF AERIAL PHOTOGRAPHS

Year	Comments
1936	**Subject Property:** The central portion of the subject property is developed with approximately 10 structures, apparently comprising the Midwest Carbide Corporation plant. Features to the east and southeast of the manufacturing area appear to be landfill areas. Other areas of the subject property are either wooded or cleared. **Surrounding Properties:** Areas surrounding the subject property are either wooded or agricultural.
1947	**Subject Property:** The subject property appears similar to the 1936 photograph, except a feature on the west side of the manufacturing area is present and appears to be either a serious of impoundments, or possibly stockpiles of solid material. The photograph shows smoke being emitted from the facility. **Surrounding Properties:** The surrounding area appears similar to the 1936 photograph.
1956	**Subject Property:** The impoundments or stockpiles at the western side of the manufacturing area are no longer distinguished in this photograph. The landfill area to the east appears to have expanded further east. **Surrounding Property:** The surrounding area appears similar to the 1936 and 1947 photographs.
1963	**Subject Property:** The manufacturing area appears similar to the 1956 photograph, except that additional roadways appear to have been developed. The photograph shows smoke being emitted from the facility. **Surrounding Property:** The surrounding area appears similar to the 1956 photograph.
1974	**Subject Property:** The subject property appears similar. Landfill appears to continue on the east portion of the subject property. **Surrounding Property:** The surrounding area appears similar to the 1963 photograph.
1985	**Subject Property:** Additional development appears in the manufacturing area of the subject property, including construction of the carbon block plant at the south end of the manufacturing area and the extension of a rail line across the subject property to provide access to the newly constructed manufacturing facility to the south of the subject property. A large coal pile at the east side of the manufacturing area is visible. **Surrounding Property:** Industrial facilities have been constructed to the north and south of the subject property.
1994	**Subject Property:** The subject property appears similar to the 1985 photograph. **Surrounding Property:** The surrounding area appears similar to the 1985.

TABLE 6-2 (Continued)

SUMMARY OF AERIAL PHOTOGRAPHS

Year	Comments
1996	**Subject Property:** The subject property appears similar to the 1994 photograph, except three areas of apparent standing water are visible on the western portion of the subject property and the landfill area to the east appears to have been covered. **Surrounding Property:** The surrounding area appears similar to the 1994, except that a pond had been constructed on the property to the west.
2000	**Subject Property:** The subject property appears similar to the 1996 photograph, except only one area of standing water appears on the west portion. **Surrounding Property:** The surrounding area appears similar to the 1996.
2005	**Subject Property:** The subject property appears similar to the 2000 photograph. **Surrounding Property:** The surrounding area appears similar to the 2000.
2006	**Subject Property:** The subject property appears similar to the 2005 photographs. **Surrounding Property:** The surrounding area appears similar to the 2005 photograph, except that the pond on the property to the west appears to have been filled.
2007	**Subject Property:** The subject property appears similar to the 2006 photographs. **Surrounding Property:** The surrounding area appears similar to the 2006 photographs.
2008	**Subject Property:** The subject property appears similar to the 2007 photographs. **Surrounding Property:** The surrounding area appears similar to the 2007 photographs.
2009	**Subject Property:** The subject property appears similar to the 2008 photographs. **Surrounding Property:** The surrounding area appears similar to the 2008 photographs.
2010	**Subject Property:** The subject property appears similar to the 2009 photographs. **Surrounding Property:** The surrounding area appears similar to the 2009 photographs.
2011	**Subject Property:** The subject property appears similar to the 2010 photographs. **Surrounding Property:** The surrounding area appears similar to the 2010 photographs.
2012	**Subject Property:** The subject property appears similar to the 2011 photographs. **Surrounding Property:** The surrounding area appears similar to the 2011 photographs.

Aerial photographs can be used in conjunction with other historical records presented in this section to determine previous land use on the subject property. Review of aerial photographs did not identify any additional RECs to the subject property.

6.2.4 Historical Topographic Maps

Topographic maps can be used as indicators of land use and structural changes on the subject property, and thus can help determine historical land use that might pose an environmental issue to the subject property. START reviewed USGS Keokuk, Iowa quadrangle topographic maps of the subject property and surrounding area for years 1936, 1950, 1964, 1975 and 2013 (EDR 2016d) (see Appendix G-3). Table 6-2 is a summary of information obtained from the historical topographic maps of the subject property.

TABLE 6-3

SUMMARY OF HISTORICAL TOPOGRAPHIC MAPS

Year	Description
1936	The topographic map does not provide sufficient detail to identify the location of the subject property.
1950	The topographic map does not provide sufficient detail to identify the location of the subject property.
1964	Several structures and railroad spurs appear on the subject property. The subject property appears to be bounded north by Carbide Lane, east by CB & Q Railroad, and west by U.S. Highway 61. The adjacent property to the south appears undeveloped.
1975	The subject property and surrounding area appear similar to the 1964 topographic map.
2013	The structures and railroad spurs are no longer depicted on the subject property. The surrounding area appears similar to the 1975 topographic map except the railroad to the west is no longer visible.

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

6.2.5 City Directories

City directories can be used in conjunction with other historical records presented in this section to determine previous land uses on the site. EDR provided applicable pages from Polk's City Directory for years 1961, 1967, 1972, 1977, 1982, and 1987, as well as applicable pages from Cole Information Services for years 1992, 1995, 1999, 2003, 2008, and 2013 (EDR 2016e) (see Appendix G-4).

The subject property was not listed in the Carbide Lane directory for 1961, 1967, 1972, 1992, 1995, or 2013. The subject property was listed as Midwest Carbide Corporation, manufacturers of calcium carbide, in 1977, 1982, 1987, and 2003. In 2003, the subject property was also listed as Air Gas, Elkem Metals Company, Institute Management Accountant, Inc., and Nitrous Oxide Corporation. The subject property was listed as Elkem Carbon Corporation and Nitrous Oxide in 2008.

EDRs search included listings for Carbide Lane. Properties of concern are as follows:

- Griffin Wheel Company Manufacturers (Amsted Industries) at 416 Carbide Lane – 1982, 1987, 1995, 2008, 2013
- Ideal Ready-Mix Company at 209 Carbide Lane – 1987, 2003, 2008, 2013

- Lee County Solid Waste Comm. / Great River Regional Waste Authority at 111 Carbide Lane – 1995, 2003, 2008, 2013
- Van Meter Industrial, Inc. at 116 Carbide Lane – 2003, 2008, 2013.

Except Griffin Wheel Company Manufactures, these listings are all crossgradient of the subject property and therefore do not pose a REC to the subject property. The environmental database records review revealed an industrial landfill on the Griffin Wheel property that poses a REC to the subject property (see Section 6.1.1).

6.2.6 Previous Reports

EPA Region 7 provided previous reports related to past investigations and management of the subject property as a RCRA facility, reports documenting a Phase I and II ESA of the subject property by Terracon in 2009 and 2010 as part of an EPA Brownfields Assessment Grant Project, and a report documenting a site investigation of the subject property conducted for EPA by USGS. The individual reports are summarized in Appendix H. The following are summaries of findings from the reports organized by particular subject property features.

Landfill and Underlying Groundwater

Landfilling of manufacturing wastes on the eastern portion of the subject property began as early as 1914 (CDM Federal Programs Corporation [CDM] 1987). According to an EPA questionnaire completed by Midwest Carbide Corporation (MCC) in 1985, the eastern portion of the subject property was used as a landfill for disposal of "dusts from the furnace dust collector, carbide magnetic separator, packing room, coke drying, raw material dust collect, and flue gas dust collector, as well as wastes from gas testing residues, scrap pastes, spilled bond material, construction rubbles, and other miscellaneous solid wastes" (MCC 1985). The bulk of the landfilled material is reportedly waste calcium carbide that the facility would first stabilize by allowing the waste to react with water. This reaction of calcium carbide with water yielded hydrated calcium hydroxide (lime) (which was landfilled) and acetylene gas (which was allowed to escape to the atmosphere).

EPA required MCC to assess groundwater underlying the landfill to determine if the landfill had caused any adverse effects. Groundwater investigation appeared to have begun as early as 1980 and included installation of groundwater monitoring wells between the landfill and Soap Creek to the east. In 1985, Shive-Hattery Engineers (Shive-Hattery) installed additional groundwater monitoring wells (monitoring wells 5S, 5D, 6S, 6D, 7S, 7D, 8, and 9) (Shive-Hattery 1986). Assessment of groundwater sampling data

appeared to largely concern whether the groundwater monitoring well network could adequately characterize upgradient/background groundwater quality (U.S. Army Corps of Engineers [USACE] 1987), although the previous reports did identify some groundwater monitoring results of potential environmental concern. A 1987 report indicated elevated radiological parameters in groundwater (gross beta average of 182 picoCuries per liter (pCi/L) and a gross alpha average of 122 pCi/L for well 9) (USACE 1987), and a 1988 report indicated "elevated" levels of sulfates, total organic carbon (TOC), total organic halides (TOX), cadmium, chromium, and gross alpha, but concluded that information was insufficient to determine whether the elevated measurements were related to the landfill or traced to naturally occurring groundwater conditions (Jacobs Engineering Group, Inc. 1988).

Landfill closure activities began in January 1989 when the landfill was graded to create stable slopes, and a soil cover over the landfill was installed; these activities were completed in May 1989 (Hunter/ESE, Inc. 1989). In 1988, in anticipation of the landfill closure, samples from the landfill were collected via soil boring and submitted for laboratory analysis to characterize the landfill material. Sampling of the landfill material established presence of coal tar pitch constituents—primarily PAHs—and elevated metals concentrations. Comparing results from a leaching analysis of the landfill samples to EPA Maximum Concentration Levels (MCL) (drinking water standards), the facility concluded that coal tar pitch constituents (including PAHs and metals) in the landfill material did not raise concerns regarding possible groundwater impact (Hunter/ESE, Inc. 1989).

Based on information presented in a June 1989 clean closure report, an EPA geologist presented this conclusion in an EPA memorandum (EPA 1989a):

> "Midwest Carbide has adequately demonstrated that hazardous waste or hazardous waste constituents have not impacted the groundwater underlying their Keokuk facility. This conclusion is based on the following criteria:
>
> 1. The groundwater monitoring system is placed in such a way as to have been impacted by a release of hazardous waste if one had occurred.
>
> 2. The rate of groundwater movement across the site from the most upgradient well to the furthest downgradient well has been estimated to be on the order of 14 years. Since the plant has been in operation since 1914, groundwater in the vicinity of the downgradient wells should be within any plumes of contamination if they exist.
>
> 3. Statistical increases in indicator parameters during past monitoring is thought to be as a result of the non-hazardous portions of the waste management unit. Large quantities of lime disposed of at the site would impact specific conductivity as well as pH. Detection of hazardous waste or hazardous waste constituents have not been verified by groundwater monitoring to date even though all possible suspected compounds have been tested for."

In November 1989, EPA notified MCC that the agency had accepted the facility's closure certification and that the facility was no longer required to conduct groundwater monitoring under 40 CFR Part 265 Subpart F (EPA 1989b). During a 1990 inspection by EPA, MCC told the EPA inspector that the facility was in the process of plugging all monitoring wells associated with the closed landfill (EPA 1990).

The 2010 Phase II ESA and 2012 sampling by USGS for EPA included sampling groundwater underlying/downgradient of the landfill. Results from these groundwater samples do not appear to indicate adverse effects on groundwater from the closed landfill (Terracon 2009 and USGS 2013).

Considering that the closed landfill appears to have been addressed to the satisfaction of the EPA Region 7 RCRA program without subjecting the landfill to any required controls, presence of the closed landfill poses an HREC to the subject property.

Container Storage Yard/DT-167 Solvent Storage Area

In August 1987, Environmental Science and Engineering, Inc. (ESE) conducted soil sampling for MCC to determine if storage of used DT-167 solvent (which contains 63 percent dichlorobenzene) had affecting soils around the container storage yard. The sampling identified dichlorobenzene in soil at concentrations requiring soil to be excavated and removed from the subject property. A maximum dichlorobenzene concentration of 99.2 micrograms per gram (µg/g) was reported (ESE 1987). In January 1988, a contractor for MCC conducted a removal action at the DT-167 solvent storage area, excavating contaminated soil and transporting it off site to a disposal facility. Following excavation, soil samples were collected to confirm effectiveness of remediation (ESE 1988a). A closure report prepared by ESE presented a basis for a proposed "clean closure" status of the DT-167 solvent storage area following the January 1988 removal action. The report indicated that o-dichlorobenzene in the closure soil samples ranged from less than detection levels to 0.60 µg/g, and chlorobenzene concentrations ranged from less than detection levels to 0.07 µg/g. These concentrations were below the allowable soil limits established during the removal action (2,550 µg/g for o-dichlorobenzene and 500 µg/g for chlorobenzene) (ESE 1988b).

Storm Sewer System/Soap Creek Area of Concern/Acid Treatment Shed

A 1987 interim RCRA Facility Assessment report prepared by CDM Federal Programs Corporation (CDM) for EPA Region 7 identified Soap Creek as an "area of concern." The report describes a permit application dated June 25, 1971, for an outfall of a storm sewer system that discharged into Soap Creek. The sources of wastewater reportedly included sanitary sewage, laboratory wastes, contact cooling water

from the paste block production area, lime sludge, and general drainage from the manufacturing area and storage piles at the facility. In September 1974, the facility reportedly connected with the city sewer system for disposal of its sanitary wastes, and, in October 1975, the facility installed an American Petroleum Institute (API) oil separator that allowed the City to direct its contact cooling water from the Soap Creek outfall to the City's sanitary sewer system. The assessment report also included analytical data reports from previous sediment sampling of Soap Creek; the analytical results are difficult to discern due to poor reproduction quality; however, it is apparent that some sediment samples contained elevated PAH concentrations (CDM 1987).

A 1988 RCRA Facility Assessment Report, also prepared by CDM for EPA Region 7, notes elevated pH (between 12 and 13 standard units) phenol constituents, metals, and PAHs detected in leachate and sediments affected by the landfill. In addition, elevated concentrations of lead and zinc were detected in a sediment sample collected below a storm sewer outfall to a drainage of Soap Creek. A downstream water sample from Soap Creek had an elevated lead concentration (0.25 parts per million [ppm]); lead was not detected in an upstream Soap Creek water sample. High concentrations of PAHs and lead were reported in a downstream sediment sample of Soap Creek (CDM 1988).

The 2009 Phase I ESA identified the Soap Creek area of concern as a REC (Terracon 2009), and sediment sampling at the creek and outfalls leading to the creek occurred during the 2010 Phase II ESA and 2012 USGS sampling event. The sediment samples collected during the 2010 Phase II ESA did not exhibit contaminant concentrations exceeding Iowa statewide soil standards (Terracon 2010); however, sediment samples collected by USGS in 2012 did exhibit PAH concentrations exceeding residential and industrial EPA Regional Screening Levels (RSL) (USGS 2013). The 2009 Phase I ESA also had noted an "Acid Treatment Shed" situated on drainage of Soap Creek between the eastern slope of the closed landfill and Soap Creek. The shed apparently housed a treatment system that would dispense hydrochloric acid, presumably to adjust the pH of drainage flowing into Soap Creek.

Overall, the Soap Creek area of concern, with associated storm sewer outfalls and the former Acid Treatment Shed, poses an REC to the subject property.

Storage, Handling, and Use of Coke, Coal, and Coal Tar Pitch

The 1987 interim RCRA Facility Assessment recognized MCC's storage, handling, and use of coke, coal, and coal tar pitch as an environmental concern, and identified the coal tar pitch pumping area, a working coke pile, a coal stock pile, and a coke stockpile as Solid Waste Management Units (SWMU). The inspector noted a release of coal tar pitch on the ground beneath five coal tar pitch ASTs. In addition, the

inspector reported entry of surface water runoff from the coke and coal piles into the stormwater sewer system that discharges to Soap Creek (CDM 1987). The 1988 RCRA Facility Assessment report noted that a sludge sample collected from beneath a coal tar pitch bond tank exhibited elevated PAH and metals concentrations.

The 2009 Phase I ESA identified the coal tar pitch tank area and former coal stockpiles as RECs (Terracon 2009), and shallow soil samples were collected in these areas during the 2010 Phase II ESA and 2012 USGS sampling event. Numerous soil samples collected at the subject property within the manufacturing areas, including within the footprint of the former coal and coke piles and coal tar pitch tanks, exhibited PAH concentrations exceeding Iowa statewide soil standards, as well as EPA residential and industrial RSLs. Based on the sampling results, PAH contamination of soil appeared to be widespread across the former manufacturing area of the subject property. In addition, lead and arsenic concentrations in some samples exceeded soil screening values.

Overall, past storage, handling, and use of coke, coal, and coal tar pitch appears to be associated with elevated PAH concentrations in shallow soil of the manufacturing area, and poses a REC to the subject property.

Groundwater Underlying Manufacturing Area

During the 2012 sampling event, USGS collected a groundwater sample from a temporary well constructed at the approximate center of the former manufacturing area of the subject property (location 005). This sample contained *cis*-1,2-dichloroethene at concentration of 210 micrograms per liter (µg/L), exceeding the EPA MCL of 70 µg/L. TCE, 1,2-dichloroethane, and vinyl chloride were also detected in the groundwater sample. This detection of chlorinated VOCs in groundwater beneath the former manufacturing area poses a REC to the subject property.

Elevated Lead Concentrations in Soil

Several soil samples collected within the manufacturing areas during the 2010 Phase II ESA and 2012 USGS investigation exhibited lead concentrations exceeding Iowa statewide soil standards, as well as EPA residential and industrial RSLs. The highest lead concentration detected was 20,000 milligrams per kilogram (mg/kg) in sample B-8, collected in the area of the former coal tar pitch tanks within the depth interval of 0-2 feet bgs. These elevated lead soil concentrations pose a REC to the subject property.

Other Previously Identified RECs

The 2009 Phase I ESA identified the following features as also posing RECs to the subject property:

- API oil-water separator system
- Release from non-PCB transformer near calcine furnace
- Former USTs at north side of carbon block plant, near oil-water separator, and at east side of container storage building
- Presence of foundry sand landfill on adjacent Griffin Wheel Foundry property
- Former waste water pit
- Former 560-gallon AST
- Former diesel and gasoline ASTs
- Staining near 55-gallon Petroleum Barrels.

Sampling to confirm or eliminate these RECs occurred during the 2010 Phase II ESA and 2012 USGS investigation. Soil samples exhibited elevated PAH concentrations. Although the elevated PAH concentrations could be related to the above-listed features, sample results appear more likely to indicate widespread PAH contamination of soil within the former manufacturing area, possibly related to former use, storage, and handling of coke, coke, or coal tar pitch.

The 2009 Phase I ESA also identified a former hydraulic lift adjacent to the Maintenance Shop as a REC and, during the 2010 Phase II ESA, a shallow soil sample collected to assess this area did not exhibit metals, PAH, or TEH concentrations exceeding Iowa state standards. Deeper soil samples were not collected, and an attempt was made to sample groundwater at this location; however, groundwater was not encountered. Because only a shallow soil sample was collected, sampling information was insufficient to confirm this REC.

One REC identified during the 2009 Phase I ESA was not subsequently confirmed or eliminated via sampling—oil staining observed near two air compressors at the northwest corner of the Paste Block structure accompanied by a heavy oil sheen observed on standing water in a nearby trench train. Sampling of the trench water was planned for the 2010 Phase II ESA; however, the water was frozen during the Phase II sampling, and no sample could be collected. Therefore, no sampling data were obtained to confirm or eliminate this REC.

7.0 FINDINGS AND OPINIONS

The following significant findings were identified from records review, interview, or reconnaissance:

- Former uses of the subject property as a secondary zinc smelter and Frary metal (hardened lead alloy) production plant pose a REC to the subject property.

- Several containers of motor oil were observed in building #6. Heavy staining was observed surrounding the oil containers. Presence of the leaking/staining in building #6 poses a REC to the subject property.

- Two piles of solid waste were observed on the subject property—one approximately 150 feet north of building #3 and one on the northwest portion of the subject property in the wooded area (see Figure 3 in Appendix B). The waste appeared to be primarily building materials, possibly from previous building demolition. Because of the age of the buildings on the property, ACM or LBP likely were present in the buildings prior to demolition. No records of inspection or abatement were provided. Possible presence of ACM and LBP in the pile of solid waste poses a REC to the subject property.

- Standing water was observed in the basement of building #6. A sheen and floating debris were observed on the water. No odor was detected; however, possible leaking petroleum products in the basement of building #6 pose a REC to the subject property.

- Staining was observed on the concrete south of building #2. The source of the staining was not apparent, but could be related to the former coal and coke stockpiles. Presence of the staining poses a REC to the subject property.

- Staining was observed surrounding a trench drain in building #6. The staining appeared to be motor oil, but the source was not apparent. The stained concrete in the maintenance building poses a REC to the subject property based on amount of staining, length of time the staining has been present based on previous reports, and potential for contamination to have reached the soil given the age and porosity of the concrete.

- The subject property was listed in the ICIS database, which provides information on enforcement and compliance across most of EPA's programs. The subject property was cited for various RCRA violations in 1987, and underwent various RCRA enforcements. Based on the regulatory status and number of RCRA violations, these listings pose a REC to the subject property.

- The subject property is listed in the CERCLIS NFRAP database, which lists sites for which no further action to place these sites on the NPL is planned. The subject property was assessed during 1979-1981, did not qualify for the NPL, and was given a low priority status for further assessment. The subject property is also listed in the CORRACTS database, which lists sites with RCRA corrective action activity, and according to this listing, has been assigned a low corrective action priority. Based on the regulatory status and number of RCRA violations, these listings pose a REC to the subject property.

- The subject property was listed on the RCRA NonGen/NLR database. This database lists facilities that generate, transport, store, treat, and/or dispose of hazardous waste as defined by RCRA. The subject property was assigned a medium corrective action priority on January 28, 1992, and classified as a conditionally exempt small quantity generator on July 18, 2005. The

subject property was also listed in the RCRA RAATS. This database contains records based on enforcement actions issued under RCRA pertaining to major violators, and includes administrative and civil actions brought by EPA. Multiple violations were listed for the subject property between 1984 and 1989. Although each violation appears to have been addressed to gain compliance, the number of RCRA violations identified are evidence of poor waste management practices, and thus these listings pose a REC to the subject property.

- The subject property is listed in the IA SPILLS and MO SPILLS databases. A report dated December 20, 2000, stated that at least 400 gallons of mineral oil not containing PCBs was spilled into a storm drain leading to Soap Creek. Because of ice cover on the creek, none of the product could be recovered. Based on the amount of product spilled and the cleanup status, these SPILLS listings pose a REC to the subject property.

- The subject property is also listed in the ERNS database due to the spill reported on December 20, 2000. According to the ERNS report, the spill was from a transformer near the calcine furnace. Oil dry was applied and other absorbents were reportedly applied. Based on the amount of product spilled and the cleanup status, this ERNS listing poses a REC to the subject property.

- The subject property is listed in the IA ALLSITES database, a listing of all sites included in the contaminated sites tracking database. The site was in the CERCLA Preremedial program, and the status is listed as closed. According to the IDNR contaminated sites database, very high concentrations of PAHs were detected in surface soil samples near the former coal tar pitch tank farm and petroleum storage area. Contamination was not identified in surface water or groundwater. Additional investigation and/or remediation of the area was recommended (IDNR 2016b). Based on the known surface soil contamination on site, this listing poses a REC to the subject property.

- The subject property is listed in the Iowa UST database. Three USTs are listed as no longer in use. No further information was available in the EDR report (EDR 2016a). According to the IDNR storage tanks database, the following USTs were installed at the subject property: a 1,000-gallon diesel UST on December 1, 1974; a 14,000-gallon used oil UST on September 1, 1976; a 560-gallon gasoline UST on June 1, 1977; and a 12,000-gallon heating oil UST on December 1, 1977. Each of these USTs was removed on June 1, 1987 (IDNR 2016a). Based on lack of information regarding presence of contamination during removal, these former USTs pose a REC to the subject property.

- The Amsted Rail Company, Inc. site at 416 Carbide Lane is approximately 45 feet west-northwest of the subject property. This site is listed in the Iowa SWF/LS database, an inventory of permitted facilities, and in the RCRA-LQG database. The facility is a foundry sand landfill approximately 1,000 feet north-northwest of the subject property. The facility uses the following chemicals: graphite, calcium oxide (lime), magnesium oxide, iron, resin (phenol), carbon, manganese, silicon, rice hulls, silica, propane, oxygen, aluminum oxide, and aluminum silicate. The facility is listed in the RCRA-LQG database for the following chemicals: cadmium, lead, mercury, used oil, cadmium, lead, tetrachloroethylene, mercury, M-Cresol, chromium, P-Cresol, and silver. The facility has been cited for various violations regarding its contingency plan and emergency procedures, small quantity handlers, universal waste, manifest, general, general facility standards, preparedness and prevention, containers use and management, and pre transport. Based on close proximity of a landfill to the subject property, chemicals used at the Amsted Rail Company, Inc. site, and violations that have occurred at that facility indicating poor waste management practices, this listing poses a REC to the subject property.

- The Keokuk Ferro-Sil, Inc. Industrial Waste Landfill site is approximately 174 feet west of the subject property. The site is listed in the IA SWF/LS database as an industrial landfill. The site is currently closed. Based on close proximity of an industrial landfill to the subject property, this site poses a REC to the subject property.

- Tetra Tech completed a Tier 1 non-invasive vapor encroachment screen of the subject property. Based on results of the initial vapor encroachment screen, the following facilities (all discussed in Section 6.1.1) with chemicals of concern were identified in the EDR report within the minimum search distances (EDR 2016f):

    - 365 Carbide Lane (subject property)
    - Amsted Rail Company, Inc. (~45 feet north of the subject property).

  Presence of these facilities within the minimum search distance poses a REC to the subject property because of the possibility of a VEC.

- Given ages of the buildings on the subject property, LBP and ACM could be present within the structures, posing an environmental concern to the subject property.

- The subject property includes an active railroad line. Railroads are associated with various contaminants including creosote, lead, and arsenic, and leaking or spilled oils and fuels from locomotives. Presence of the active railroad line poses a REC to the subject property.

- Review of previous reports and the interview with Mr. Jerry Hamilton revealed previous storage, handling, and use of coal, coke, and coal tar pitch on the subject property. Coke and coal were previously stored on the subject property in outdoor stockpiles, and releases of coal tar pitch onto the ground have been documented. During the site reconnaissance, black coal-like granular material—likely related to the former coal and coke stockpiles--was observed over large areas of the subject property. Soil sampling during the 2010 Phase II ESA and 2012 site investigation revealed elevated PAH concentrations in shallow soil likely attributable to past storage, handling, and use of coal, coke, and/or coal tar pitch. These elevated PAH soil concentrations pose a REC to the subject property.

- Review of previous reports and the interview with Mr. Hamilton revealed presence of the closed landfill on the eastern portion of the subject property. Because the closed landfill appears to have been addressed to the satisfaction of the EPA Region 7 RCRA program, and without subjecting the landfill to any required controls, presence of the closed landfill poses an HREC to the subject property.

- During the 2012 sampling event, USGS collected a groundwater sample from a temporary well constructed at the approximate center of the former manufacturing area of the subject property (location 005); the sample was found to contain chlorinated VOCs, including *cis*-1,2-dichloroethene at a concentration exceeding the EPA MCL. These detections of chlorinated VOCs in groundwater beneath the former manufacturing area pose a REC to the subject property.

  Detections of elevated lead concentrations in soil samples collected during the 2010 Phase II ESA and 2012 USGS investigation at the subject property pose a REC to the subject property.

8.0 CONCLUSIONS AND RECOMMENDATIONS

START has performed a TBA, in conformance to the scope and limitations of ASTM E 1527-13, of the 78.83-acre subject property at 365 Carbide Lane in Keokuk, Lee County, Iowa. Exceptions to or deletions from this practice are described in Section 1.4 of this report. Based on available information, this assessment has revealed evidence of RECs in connection with the subject property, as described in Section 7.0.

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

9.0 CERTIFICATION STATEMENT

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

If you have any questions concerning the findings and conclusions of this report, please call START Program Manager Ted Faile at (816) 412-1754 or START Project Manager Rob Monnig at (816) 412-1775.

Assessor

Joann Jeplawy
Environmental Scientist

Reviewer/Environmental Professional

Dave Zimmermann, CHMM

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APPENDIX A

STATEMENT OF WORK

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VII
11201 Renner Boulevard
LENEXA, KANSAS 66219

December 17, 2015

Tetra Tech , Inc.
415 Oak
Kansas City, Missouri 64106
Attn: Ted Faile

Subject: Contract #EP-S7-13-06, START 4, Subtask under Task Order #0002; Site Assessment Umbrella;

Dear Mr. Faile:

Enclosed is a statement of work for the Elkem Carbide site.

This requirement has been issued under the Site Assessment Umbrella in accordance with Contract Clause G.2 entitled "Ordering - By Designated Ordering Officers, Tetra Tech shall provide the undersigned within 10 calendar days, a proposed staffing plan for accomplishing the assigned task within the period specified. You shall notify the Contracting Officer in writing within 10 calendar days, stating why you consider the price or completion date unreasonable. If the change(s) affect the price, the contractor shall provide a revised cost estimate to the contracting officer. The total amount shall not exceed **$96,618.73.**

Existing funds are available for use against the umbrella for this subtask. When you have reason to believe that the labor and support costs for this order, which will accrue in the next thirty days, will bring the total cost to over 85% of the ceiling price, you shall notify the Contracting Officer. If you have any questions, please contact me at (913) 551-7228.

Sincerely,

Anthony LaMaster
Contracting Officer

enclosure
cc: Debra Dorsey
Todd Davis

Sub-Task

Under Task Order #02 – Brownfields TBAs

START 4 CONTRACT #: EP-S7-13-06

Activity Type: Targeted Brownfield Assessment, Remediation Planning

Created On: 12/16/2015

Task: Environmental Site Assessment, ABCA

PO: Debra Dorsey

Task Monitors: Todd Davis

General Task Description: Phase I/II ESA, ABCA, and Remediation Plan

Task Codes:

Estimated Completion Date: August 30, 2015

Site/Project Name: Elkem Carbide Site

Address: 365 Carbide Lane

City, State, Zip: Keokuk, Iowa 52632

Ste ID No: N/A

I. INTRODUCTION

A. PURPOSE

The contractor shall be prepared to provide scientific/technical support for EPA activities in the Agency's primary mission: the protection of human health and the environment. Additionally, the contractor shall provide advisory and assistance services to other programs, such as site assessment, and remedial support activities. For each assigned task, the contractor shall provide appropriately experienced, trained, and accredited personnel with current credentials/certifications as well as all supplies, materials, tools, and equipment necessary to complete the job.

B. BACKGROUND

Under the authority of legislation, Presidential Directives, and promulgated regulations, EPA is responsible for protecting human health and the environment. EPA is delegated authority to undertake removal and remedial response actions. EPA is responsible for conducting evaluations and cleanups of uncontrolled hazardous substance disposal sites and placing those that are considered to pose a significant threat to human health or the environment on the National Priorities List (NPL). Site assessment is the first step in determining whether a site meets the criteria for placement on the NPL. Listing a site on the NPL is one tool among many that are available to EPA and state cleanup program managers to accomplish the cleanup of contaminated waste sites. For additional information, see EPA OSWER Directive 9203.1-06, "Guidance on Setting Priorities for NPL Candidates sites."

II. TECHNICAL REQUIREMENTS

EPA Targeted Brownfields Assessment
TASK ORDER
Elkem Carbide
365 Carbide Lane
Keokuk, Lee County, Iowa 52632
December 16, 2015

1.0 Introduction/Background Discussion

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

The City of Keokuk Iowa has requested EPA to perform a Phase I Environmental Site Assessment (ESA) and Phase II ESA for hazardous substances. The Site is located at 365 Carbide Lane in Lee County, Keokuk, Iowa.

2.0 Site Description

The Site is located at 365 Carbide Lane in Keokuk Iowa. The site covers 79 acres and contains 13 buildings.

2.1 Location

The property is a separate and distinct site located at 365 Carbide Lane in Keokuk Iowa.

2.2 Description and Current Conditions of Sites

Access to the site is being provided through an agreement with the current property owner.

3.0 History of Operation

The Site has been used for industrial manufacturing since 1915.

4.0 Summary of Pertinent Previous Investigations

Previous investigations may have been conducted and may be available from the City or the State of Iowa.

5.0 Scope of Work

The contractor shall perform a Phase I and a Phase II environmental site assessment (ESA) on the Elkem Carbide site as well as lead based paint and asbestos sampling on various surfaces, materials, and debris in the building and at the site, if necessary. The contractor shall conduct a hazardous materials inventory of the site. The contractor shall meet with the applicant or designee, IDNR and EPA Region 7 staff to discuss the site history, the Phase I and scope of the Phase II, and potential or planned future site uses.

The Phase I ESA will identify any potential recognized environmental conditions (REC) located on or in the vicinity of the sites in accordance with ASTM Standard E 1527-13, Standard Practice for Phase I Environmental Site Assessments. The Phase II ESA will further assess the site in accordance with ASTM Standard E 1903-97-11, Standard Guide for Phase II Environmental Site Assessments.

The Contractor shall prepare an Analysis of Brownfield Cleanup Alternatives for the site based on the results of the Phase II and potential future uses of the site. A completed Property Profile Form shall be included with the Phase II Report.

The Contractor may also be tasked with conducting additional sampling, preparing a long term monitoring plan and/or remediation plan for the applicant.

6.0 Description of Tasks

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

The contractor will conduct the Phase I and II ESAs in accordance with EPA's final regulations governing All Appropriate Inquires (40 CFR 312) or ASTM International's E 1527-13 and E1903-97-11 standard for Phase I & II ESAs as wells as the guidance documents listed at the end of this task order.

From the information and documents reviewed for the Phase I and Phase II ESAs and inclusive of all EPA comments on the draft report, the contractor shall prepare 2 bound color hard copies and one electronic copy of each of the ASTM/AAI Phase I and Phase II site investigation reports covering the individual site and including a property profile form for the site. The report will detail the execution of the site inspections and summarize the findings of the site investigation. All hard copies and the electronic copy will be provided to the EPA Project Contact identified below.

6.1 Quality Assurance Project Plan (QAPP). The Contractor shall prepare a Quality Assurance Project Plan for the environmental assessment as well as the asbestos, and lead-based paint surveys. The QAPP shall present the objectives, organization, activities, and quality control procedures that will be employed to ensure that all technical data generated during the assessment and the asbestos and lead-based paint surveys are accurate and representative of the conditions at the project site. The QAPP shall contain a Title and Approval Page. A draft

version of the QAPP shall be submitted to the EPA Task Order Project Officer (TOPO) and must be approved by the EPA TOPO prior to conducting the surveys. Electronic submittal is acceptable for the QAPP. For guidance on creating a QAPP, refer to the guide EPA Requirements for Quality Assurance Project Plans (QA/R-5) found at: http://www.epa.gov/quality/qs-docs/r5-final.pdf

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

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

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

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

6.4 Phase I Environmental Site Assessment. The Contractor shall conduct a Phase I Environmental Site Assessment (ESA) in accordance with the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments, E1527-13, to meet the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) "all appropriate inquiry" standard and identify all "recognized environmental conditions" associated with the property. The Phase I ESA shall be as complete as possible with all ASTM requirements attempted and documented (including title search for environmental liens, assessments of any specialized knowledge or experience of the prospective landowner, and commonly known or reasonably ascertainable information the prospective purchaser is aware of.). The Phase I ESA shall be submitted in draft and final versions.

7.0 Project Schedule

- The contractor will submit to the EPA Project Contact identified below in accordance with the Task Order Schedule for Deliverables/Activities.
- Comments will be made and returned to the contractor within 60 business days.

The final deliverables as described above are due 30 business days after EPA provides comments on the draft reports.

8.0 Project Contacts

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

Guidance Documents/References

- "Standard Practice for Environmental Site Assessment: Phase I Environmental Site Assessment Process, " ASTM, E 1527-00-13

- "Standard Practice for Environmental Assessments: Phase II Environmental Site Assessment Process," ASTM 1903-97-11; and

- "Generic Quality Assurance Project Plan for the Superfund Site Assessment and Targeted Brownfields Assessment Programs," EPA-Region VII, Superfund Division, July 2007

III. DOCUMENTATION REQUIREMENTS

In the course of performing tasks identified in this SOW, the contractor shall submit all analyses, options, recommendations, reports, and any other work products in draft form for review by the Contracting Officer (CO) or the Contracting Officer's Representative (COR) prior to use or distribution.

The contractor shall not publish, release, use, or disclose any work product generated under this SOW without EPA's written approval; interpret EPA policies or regulations when conducting any training, seminars, or presentations; and/or provide any legal advice or legal interpretations.

The Government will make all final regulatory, policy, and interpretative decisions resulting from contractor provided advice and assistance; and will also make all final decisions regarding compliance determinations, or the violations of an order, law, regulation, etc.

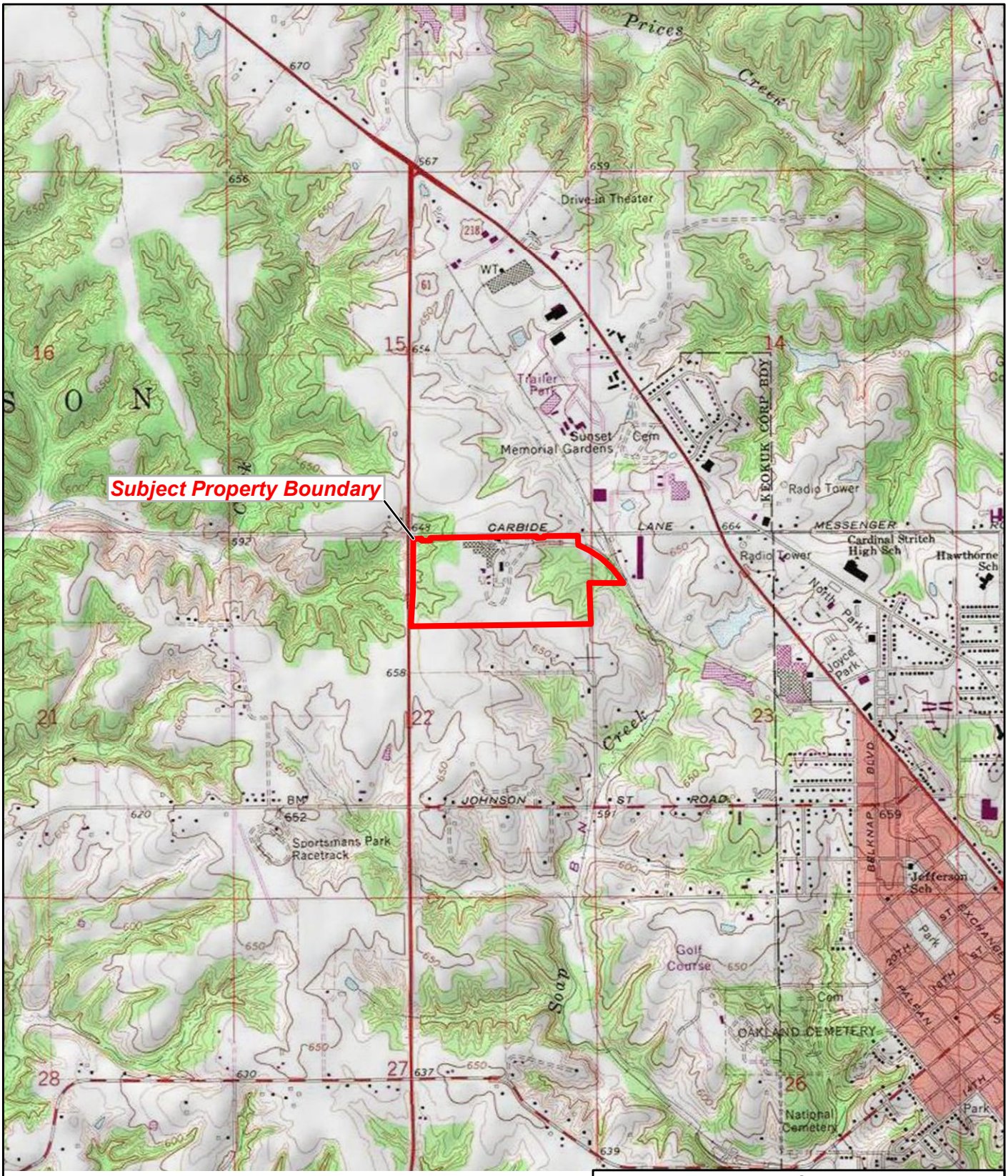
The contractor shall submit documents that demonstrate a good command and correct usage of the English language (e.g, discussion of facts flow in a coherent and organized manner); use proper grammar (noun and verb tense correspond, etc.); and are free of incomplete sentences and misspelled words.

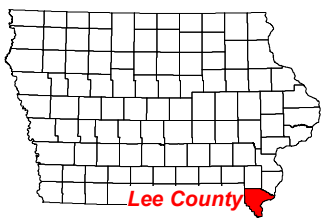
For deliverables that contain recommendations, the contractor shall explain or rank policy; explain or rank alternative actions; describe procedures used to arrive at recommendations; summarize the substance of deliberation; report any dissenting views; and cite sources relied upon.

Deliverable/Activity	**Due Date**
Kickoff Conference Call with City, IDNR, and EPA	1/13/2016
Review existing Reports, recommend plan and schedule for additional work	2/1/2016
Draft QAPP	February 10, 2016
Draft Phase II Report, draft ABCA, draft Remediation Plan, draft QAPP Addendum	May 15, 2016
Draft Phase III Report, draft ABCA, draft Remediation Plan	August 1, 2016

APPENDIX B

FIGURES





N

0 1,000 2,000

Feet

Source: USGS Keokuk, IA 7.5 Minute Topo Quad, 1977

Elkem Carbide
365 Carbide Lane
Keokuk, Iowa

Figure 1
Site Location Map

TETRA TECH

Date: 1/20/2016 Drawn By: Nick Wiederholt Project No: X9025.14.0002.019.017

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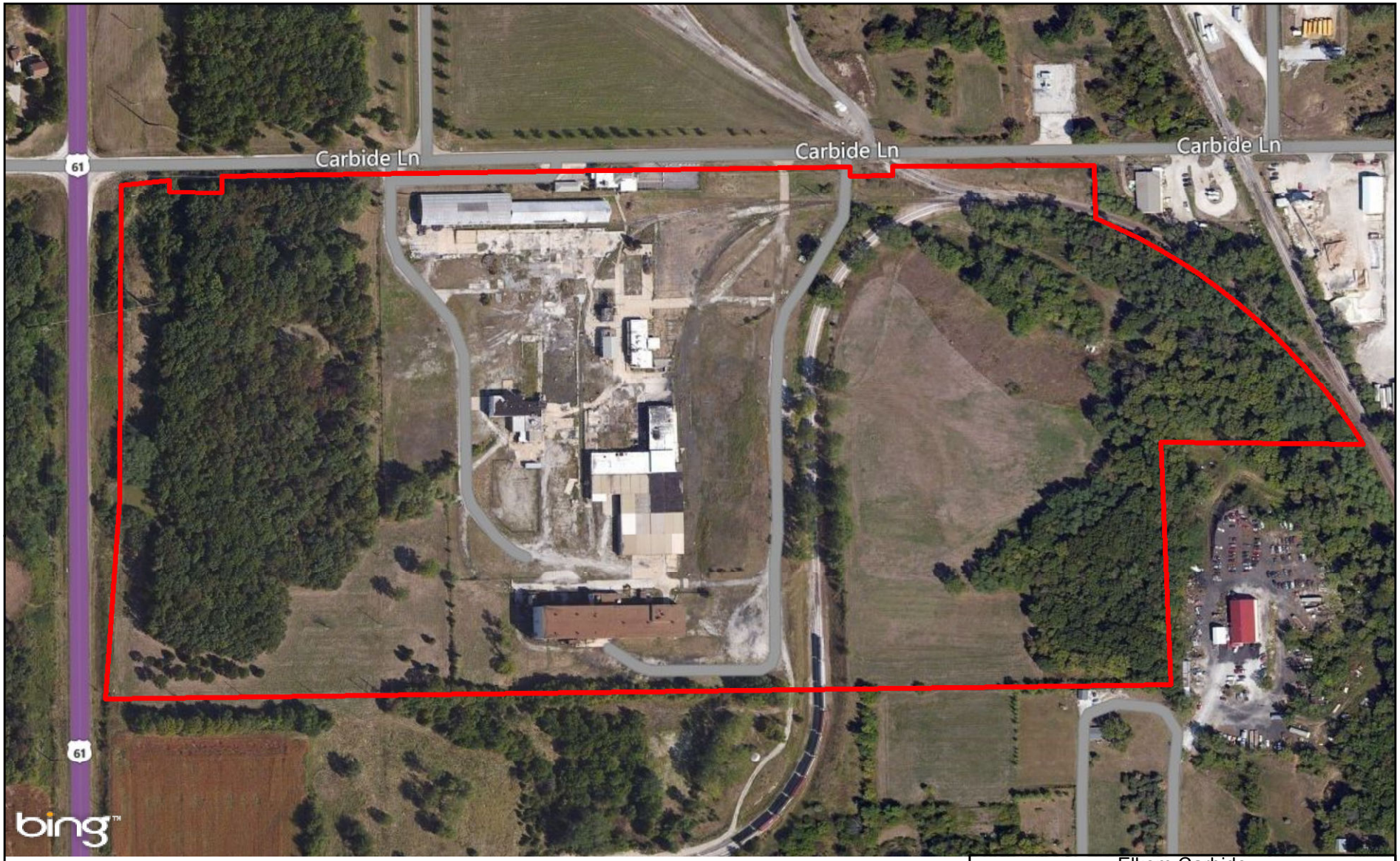

Legend

Subject property boundary

N

0 175 350

Feet

Source: ESRI, ArcGIS Online, Bing Maps Hybrid, 2011; Lee County Iowa, Web Mapping Application, 2016

Elkem Carbide
365 Carbide Lane
Keokuk, Iowa

Figure 2
Site Layout Map

TETRA TECH

Date: 1/20/2016 Drawn By: Nick Wiederholt Project No: X9025.14.0002.019.017

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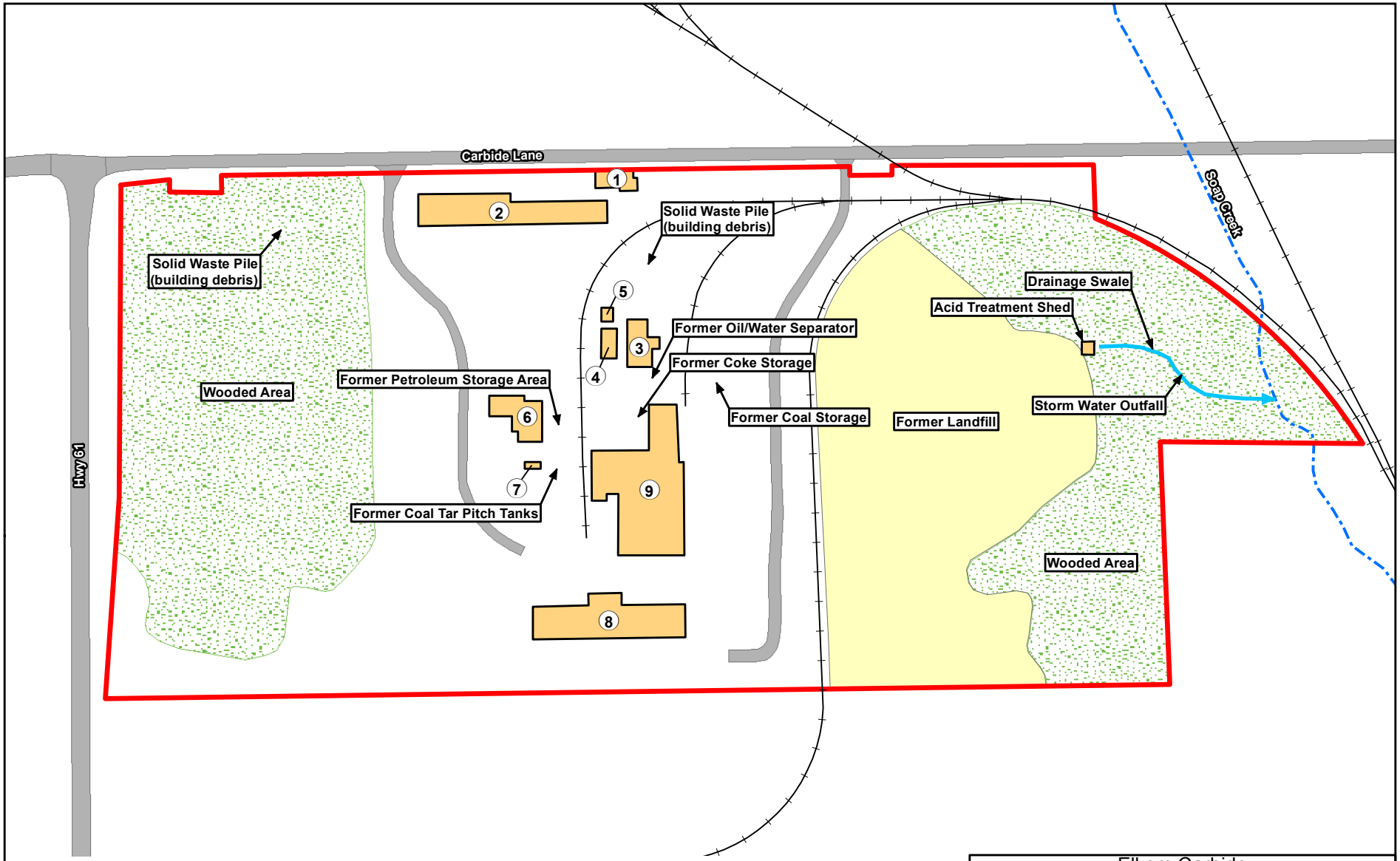

Legend

- Drainage swale
- Soap Creek
- Railroad
- Subject property boundary
- ② Building
- Former landfill
- Road
- Wooded area

N

0 175 350

Feet

Source: Lee County Iowa, Web Mapping Application, 2016; Terracon, Site Diagram-Phase II Environmental Site Assessment-Former Elkem Carbide, 2009.

Elkem Carbide
365 Carbide Lane
Keokuk, Iowa

Figure 3
Building Location Map

TETRA TECH

Date: 2/23/2016 Drawn By: Nick Wiederholt Project No: X9025.14.0002.019.017

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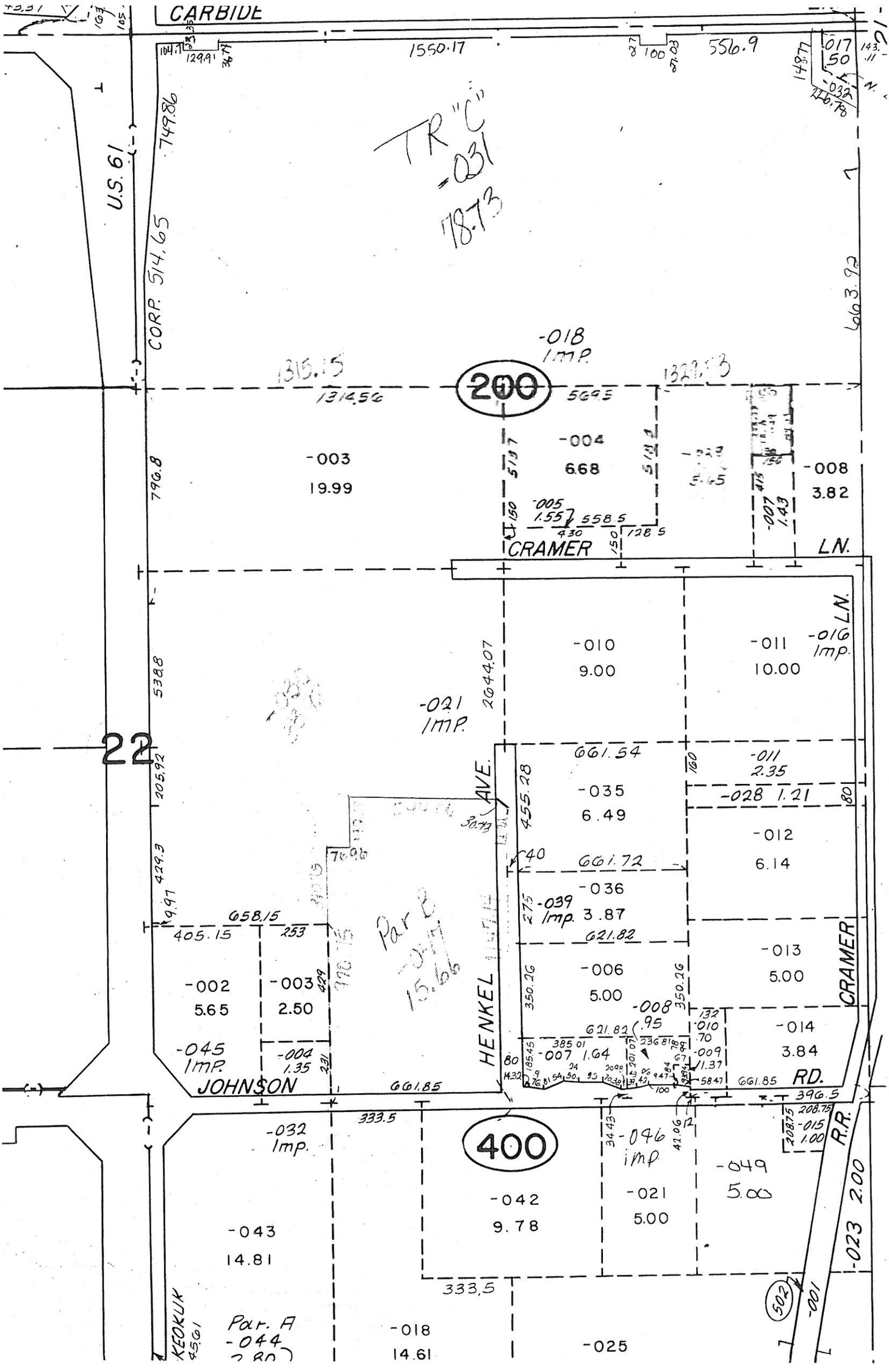
APPENDIX C

CHAIN OF TITLE SEARCH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19.99
-004
6.68
-008
3.82
-005
1.55
558.5
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LN.
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1.43
-010
9.00
-011
10.00
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22
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-028 1.21
-012
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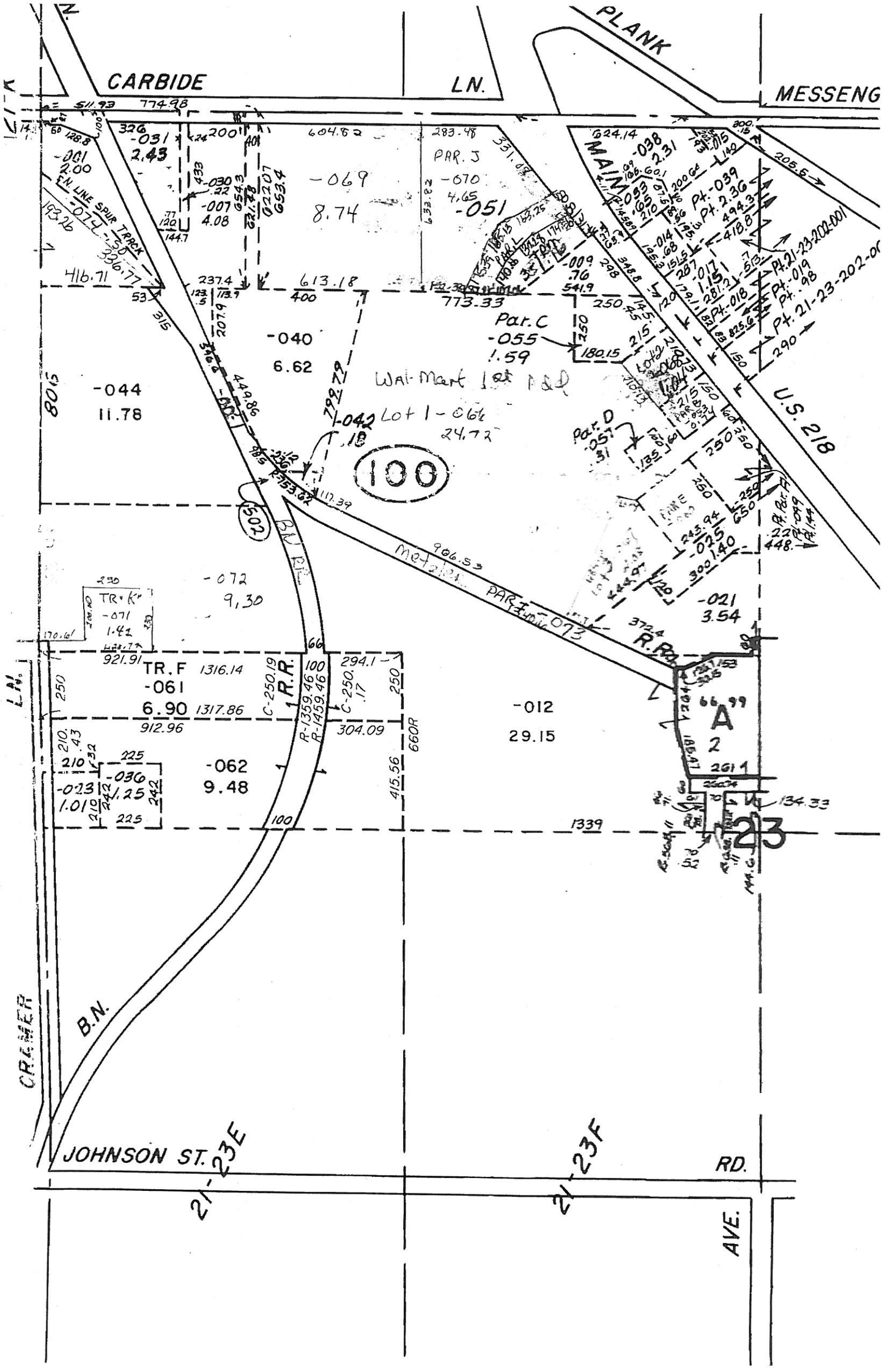
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C-250.19
C-250.17
660R
415.56
1339
134.33
23
B.N.
CREMER
JOHNSON ST.
21-23E
21-23F
RD.
AVE.

Check on: Part of the North Half of the Northeast Quarter of Section 22 and Part of the Northwest Quarter of Section 23, all in Township 65 North, Range 5 West of the Fifth Principal Meridian, Lee County, Iowa, being more particularly described as follows:

Commencing at the Northeast corner of said Section 22; thence S 88°30'41" W, along the North line of the Northeast Quarter of said Section 22, a distance of 159.44 feet; thence S 01°31'28" E, 32.59 feet to the Southerly Right-of-Way line of Carbide Lane and the Point of Beginning; thence continuing S 01°31'28" E, 148.77 feet to the South Right-of-Way line of the Burlington Northern & Santa Fe Railroad Spur Track #106; thence along said line along a non tangent curve to the right whose radius equals 766.03 feet, an arc length of 226.78 feet, with a long chord bearing S 62°03'08" E, 225.96 feet; thence continuing along said line S 53°34'14" E, 193.26 feet; thence continuing along said line along a tangent curve to the right whose radius equals 859.86 feet, an arc length of 336.77 feet, with a long chord bearing S 42°21'01" E, 334.62 feet; thence S 88°34'01" W, 416.71 feet; thence S 00°46'15" E, 663.92 feet; thence S 88°57'41" W, along the South line of the Northeast Quarter of the Northeast Quarter of said Section 22, a distance of 1329.53 feet; thence S 89°06'18" W, along the South line of the Northwest Quarter of the Northeast Quarter of said Section 22, a distance of 1315.15 feet to the Easterly Right-of-Way line of U.S. Route 61; thence N 03°21'44" E, along said line, 514.65 feet; thence N 00°13'09" E, along said line, 749.86 feet; thence N 83°14'32" E, along said line, 104.70 feet to the Southerly Right-of-Way line of Carbide Lane; (the following eight courses are along said Right-of-Way line); thence S 01°10'44" E, 23.35 feet; thence N 89°15'55" E, 129.91 feet; thence N 01°04'01" W, 36.74 feet; thence N 88°50'29" E, 1550.17 feet; thence S 00°56'49" E, 27.00 feet; thence N 88°51'34" E, 100.00 feet; thence N 01°09'24" W, 27.03 feet; thence N 88°50'36" E, 556.90 feet to the Point of Beginning, containing 78.729 acres and being subject to the existing easements and Right-of-Way as shown hereon and all other existing easements and Rights of Way.

Since August 8, 1929
(Date of Filing Warranty Deed)

EASEMENT: Joseph E. Daily, ____, Paul Daily, ____, Francis Leo Daily, ____, Drusilla R. Daily and Marlowe Daily and Dorothy Daily, minors, by Drusilla R. Daily, Guardian; to Mississippi River Power Company, a Maine Corporation. Dated April 8, 1913. Filed May 2, 1913. Recorded in Book 77, Page 87. Consideration $1.00 and ovc.

Hereby grant, convey and warrant to Mississippi River Power Company, a corporation organized and existing under and by virute of the laws of the State of Maine, and its successors, assigns and grantees, the perpetual easement, right privilege and authority to construct, erect, maintain, operate, repair, replace and patrol forever a line or lines for the transmission of electricity and telegraph and telephone lines upon, over, through, across and under the following described lands, situated in the County of Lee, in the State of Iowa;

(continued)

The North ½ of the North ½ of Section 22, township 65 North Range 5 west of the 5th Principal Meridian (and other property).

hereby releasing and waiving all rights under and by virtue of the Homestead exemption laws of this State; it is expressly understood and agreed that there shall not be placed on the premises aforesaid more than 48 poles, to be used in connection with the said transmission line or lines and that there shall not be to exceed 48 poles erected on said land to be used in connection with said telegraph or telephone line or lines, and that all of said poles and towers shall be located as near as may be, as follows: along the county road which runs east and west along the north side of said land, and the said power Company, its successors, assigns and grantees shall have the right to renew or replace said poles and wires and lines when and as desired. The said power Company, its successors, assigns and grantees shall have the right to cut and remove on said premises or on the adjoining premises of the grantor any timber trees or other things which may endanger the safety of or interfere with the erection or maintenance of said wires, cables, poles, and towers, or said structures of fixtures of any kind; to have the right of ingress to and along said above described premises at any and all times for the purpose of patrolling the same or repairing or renewing said poles, towers, structures, wires, or cables, and for the doing of anything necessary useful or convenient for the enjoyment of the easement herein granted; also the privilege of removing at any time all of the said improvements erected or placed over, under or on said lands.

ROOT OF TITLE

WARRANTY DEED: United Lead Company; By Edward J. Cornish, President; Attest E. R. Dondorf, Asst. Secretary; (Seal) to Midwest Carbide Corporation, a Delaware Corporation. Dated July 1, 1929. Filed Aug 8, 1929. Recorded in Book 92, page 207. Consideration $1.00 & og & vc.

Does hereby remise release and forever quitclaim unto said party of the second part the following tracts or parcels of land lying, being and situated in the County of Lee, State of Iowa: The East half of the Northwest fourth of the Northwest Quarter of Section 22 in Township 65 North in Range 5 WEst of the Fifth Principal Meridian. (And other property.)

(continued)

Subject, however, to the easement in favor of the Mississippi River POwer Company, dated April 8, 1913, and recorded in Book 77 on page 87 of the Lee County records at Keokuk.

The premises above described including all those conveyed to the United Lead Company by deed of River Smelting & Refining Company, dated December 24, 1919, recorded in Lee County records Book 81 page 129; by deed of River Smelting & Refining Company dated December 24, 1919, recorded in Book 81 Page 130; and by deed of the Keokuk Industrial Association dated January 3, 1920, recorded in Book 81, Page 131. To have and to hold the same, together with all the rights immunities, privileges and appurtenances thereunto belomging unto the said party of the second part, and its successors and assigns forever, it being the intention and purpose by this instrument to assign set over and transfer to the grantee, its successors or assigns all the rights title and interest heretofore vested in the grantor in and to the real estate above described including the right to sue and recover on any and all r warranties heretofore made and the right to sue on, recover and claim the benefit of any and all warranty deeds in the chain of title, or the right to sue on, recover and claim the benefits of any warranting clause or clauses in any conveyances to the Keokuk Industrial Association or its grantees and assigns and the grantee is hereby invested with each and all of said rights as fully and completely as the grantor is vested therewith.

Acknowledgment sets out authority to execute said instrument granted to above officials by Board of Directors of said corporation.

RIGHT OF WAY PERMIT: Midwest Carbide Corporation, By L. F. Loutrel, Its President; Attest Francis X. Lee, Its Assistant Secretary; (Seal) to Union Electric Power Company, By John A. Woodbridge, Its Vice President, Attest E. J. Shapiro, Its Secretary; (Seal). Dated April 22, 1947. Filed Mar 27, 1950. Recorded in Book 119, page 156. Consideration $1.00 & ovc.

Midwest Carbide Corporation, being the owner of the following described land, located in Lee County, Iowa, to-wit:

The East One-half of the Northwest fourth of the Northwest Quarter, all in Section 22, all being in Township 65 North, in Range 5 West of the Fifth Principal Meridian, Lee County, Iowa. (And other property.)

(continued)

Does hereby give and grant unto said Union Electric Power Company, its successors, lessees and assigns full right, permission and authority to erect, maintain and renew poles with right of access thereto in, upon and along a strip of land across the North side of above described land about 30 feet South from and parallel with an electric line formerly erected by Mississippi River Power Company from the West line of above described land east to a point 1980 feet West of the East line of Section 22; thence East about 10 feet South from and parallel with the electric line last above described to the East line of said land, and to attach cross arms to said poles and to place, string, maintain and operate on or from said poles and cross arms, wires, cables or other equipment for transmission of electric current; also to cut and trim trees, bushes and saplings growing upon and extending over so much of said land as is adjacent to said pole right as far as necessary in constructing, maintaining and operating said pole right and properties appurtenant thereto, subject however to the following restriction:

That the construction, operation and maintenance of said pole line shall be in such manner as not to interfere with the conduct of the business of the said Midwest Carbide Corporation.

This permit or easement shall be in force from and after the date hereof and for a period of 10 years thereafter unless sooner terminated in accordance with the terms hereof, with the privilege of renewal of said right for a further priod of 10 years thereafter, subject to the right of termination herein reserved to the Midwest Carbide Corporation, its successors and assigns, upon written notice from said Union Electric Power Company of its desire for such renewal.

The Midwest Carbide Corporation reserves to itself, its successors and assigns the right to terminate this permit by giving to Union Electric Power Company a written notice by registered mail addressed to its principal place of business at lease ninety days prior to the date of said proposed termination.

(continued)

EASEMENT FOR PUBLIC HIGHWAY: Midwest Carbide Corporation; By W. J. Fulton, President; Attest W. W. Whitnell, Secretary; (Seal) to Lee County, Iowa. Dated May 6, 1966. Filed November 2, 1966. Recorded in Book 143, Page 354. Consideration $1.00 and ovc.

Do hereby sell and convey unto Lee County, for road purposes and for use as a Public Highway, the following described premises situated in the County of Lee, State of Iowa, to wit:

A parcel of land located in the northeast quarter of Section 22, Township 65 North, Range 5 West of the 5th P.M., Lee County, Iowa, lying on the south side of the following described centerline of a local secondary road as shown on official plans for Project 66-L-2.

The centerline, designated by station points 100 feet apart, numbered consecutively from west to east is described as follows: Beginning at Station 0+00, a point on the centerline of U.S. Highway No. 61, which is 14.89 feet north and 66.00 feet west of the north quarter corner of said section, running thence easterly 2,711.85 feet to Station 27+11.85, at the northeast corner of said section.

A part of said parcel is described as follows: All that part of the northeast quarter of said section lying south of the right-of-way of said local secondary road and north of a line beginning 70 feet normally distant southerly from Station 2+00, running thence easterly 150 feet to a point 70 feet normally distant southerly from Station 3+50, containing 0.271 acres, more or less.

A part of said parcel described as follows: All that part of the northeast quarter of said section lying south of the present right-of-way of said local secondary road and north of a line beginning 60 feet normally distant southerly from Station 19+00, thence easterly 100 feet to a point 60 feet normally distant southerly from Station 20+00, containing 0.062 acres, more or less.

Said parcels contain 0.333 acres, more or less, exclusive of present established road along the north side thereof.

See following page for copy of plat attached.

(continued)

143-354

Form 476 — Iowa State Highway Commission

Parcel No. 1

PROPERTY PLAT

Acquired from MIDWEST CARBIDE CORPORATION

Married or Single? (Give full name of spouse)

Area by Deed ____ Acres

Area by Easement 0.340 Acres Total Consideration $ ____

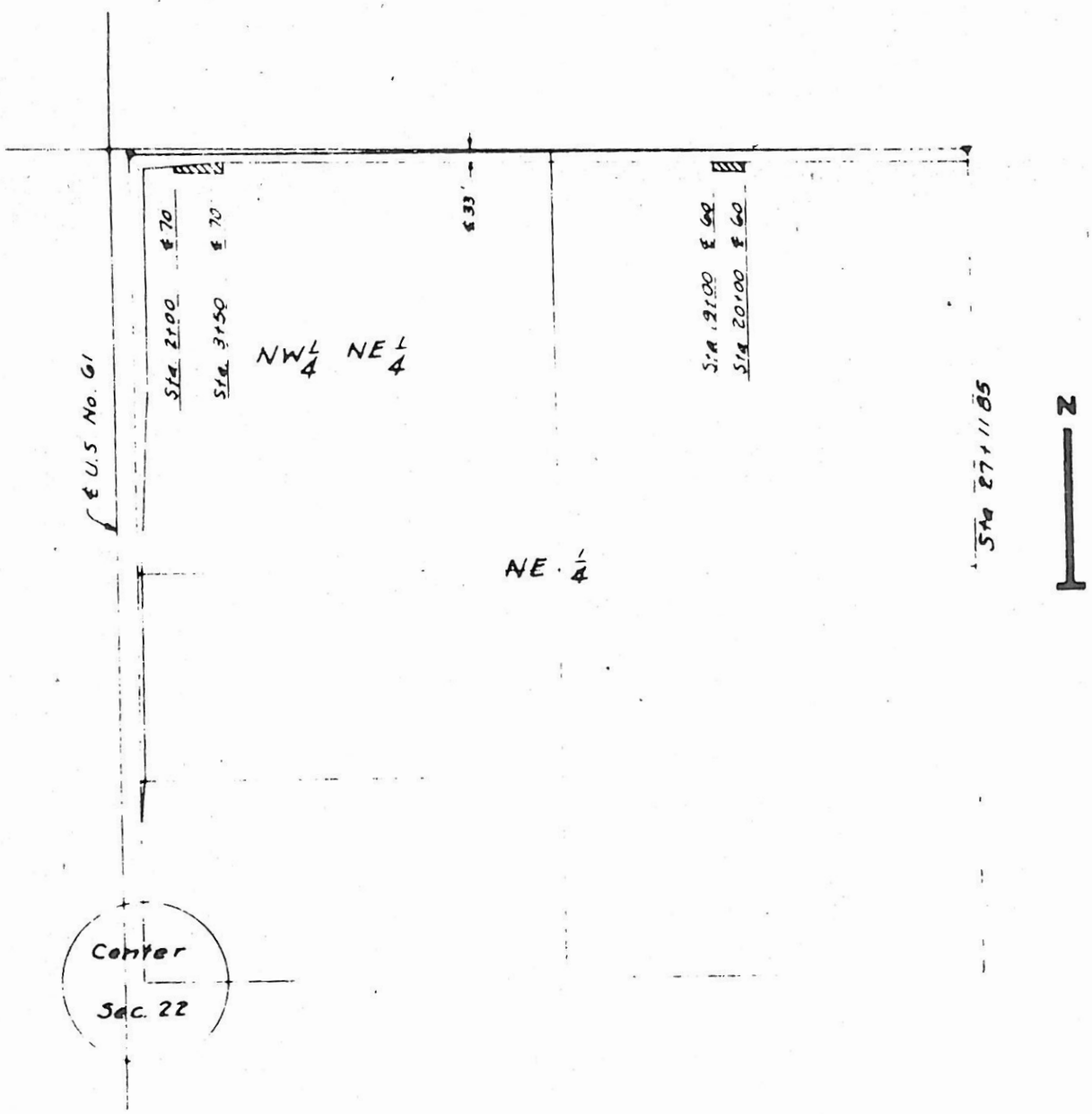
Borrow Area ____ Acres. Contract Date ____ 19

LOCATION

From CL Station 19+00 (2+00) to CL Station 20+00 (3+50)

Section 22 Township 65N Range 5W

Township (Civil) Jackson Iowa



LEE (County) Project No. 66-1-2

Last areas by 40 acres

ANNEXATION BY DECREE: City of Keokuk, Plaintiff; vs. Midwest Carbide Co., et al, Defendants. Case #25519, #25520 and #25521. Appearance Docket 50, Pages 33-35. District Court at Keokuk.

On June 4, 1973 it was adjudged and decreed by the court that the real estate herein abstracted was annexed and made a part of the City of Keokuk.

A copy of said decree was filed for record in the office of the County Recorder in Book 6 pg. 120 on June 5, 1973.

Property is shown as: N ½ NE ¼ 22-65-5 & NW Pt NW ¼ NW ¼ 23-65-5 Main Street Road.

EASEMENT: Midwest Carbide Corporation; By G. J. Kiedaisch, Vice President; Attest E. M. McAndrew, Treasurer; (Seal) to Union Electric Company, a Missouri Corporation. Dated July 22, 1975. Filed July 23, 1975. Recorded in Book 164, Page 293. Consideration $250.00.

Does hereby grant, bargain, sell, convey and confirm unto Grantee the perpetual right and easement 10 feet in width in, on, upon, along, over, through, across, and under the following described lands situated in Lee County, Iowa, to wit:

The West 10 feet of that portion of the North half of the Northeast Quarter of Section 22 in Township 65 North, Range 5 West of the 5th P.M., lying adjacent to and parallel with the easterly right of way line of U.S. Highway 61 By-Pass.

Also the additional right to install necessary guys and anchors within a radius of 40 feet measured from the southeast corner of that portion of the North half of the Northwest ¼ of the aforesaid Section 22 exclusive of right of way for U. S. Highway 61 By-Pass is hereby granted. Said guys and anchors being attached to and supporting one pole located on said highway right of way in the Southeast corner of said North half of the Northwest ¼ of Section 22.

(continued)

EASEMENT AND RIGHT OF WAY: Midwest Carbide Corporation; By G. Jenkins Kiedaisch, Vice President; Attest William O. Shank, Secretary; (Seal) to General Mills Chemicals, Inc., a Delaware Corporation. Dated November __, 1975. Filed Dec. 12, 1975. Recorded in Book 164, page 499. Consideration $2.00 and ovc.

Does grant to the grantees, their successors and assigns, full and free right, liberty and authority to enter upon and to construct, operate and maintain a railroad track and all necessary items required for the construction and maintenance of a railroad track over and upon a strip of land 80 feet in width, being 40 feet wide on each side of the said railroad track, the description of which is as follows:

The following described easement is located in the Northeast ¼ of Section 22, Township 65 North, Range 5 West of the 5th P.M., in the City of Keokuk, Lee County, Iowa and being more particularly described as follows:

Commencing at the Northeast corner of said Section 22; thence North 90°00'00" West along the North line of said Section 22, which is also the centerline of Carbide Lane, a distance of 470.38 feet; thence South 00°00'00" West 121.01 feet to a point on the centerline of an existing railroad spur, said point being the Point of Beginning; from the Point of Beginning thus described, the following easement shall be construed as meaning a right of way for railroad and utility purposes over and across a strip of land lying 40 feet on each side of the following described railroad centerline; thence South 83°54'59" West 75.14 feet to the P.C. of a 14° railroad curve, said curve being concave southeasterly and having a central angle of 85°10'30"; thence Southwesterly along and with the arc of said curve an arc distance of 608.39 feet; thence South 01°15'55" East 781.08 feet to the South line of the Northeast Quarter of the Northeast ¼ of said Section 22 and the Point of Termination of the 80 foot easement,

to have and to hold the said easement right-of-way unto the grantees, their successors and assigns, perpetually.

Provided, however, that this easement shall be subject to the right of the grantor to execute additional easements which may intersect the easement granted herein.

(continued)

EASEMENT AND RIGHT OF WAY: Midwest Carbide Corporation; By G. J. Kiedaisch, Vice Pres.; Attest William O. Shank, Secretary; (No Seal) to General Mills Chemicals, Inc., a Delaware Corporation. Dated February 27, 1976. Filed March 2, 1976. Recorded in Book 164, Page 619. Consideration $2.00 and ovc.

Does grant to the grantees, their successors and assigns, full and free right, liberty and authority to enter upon and to construct, operate and maintain a railroad track and all necessary items required for the construction and maintenance of a railroad track over and upon a strip of land 80 feet in width, being 40 feet wide on each side of the said railroad track, the description of which is as follows:

The following described easement is located in the Northeast ¼ of Section 22, Township 65 North, Range 5 West of the 5th P.M., City of Keokuk, Lee County, Iowa and being more particularly described as follows:

Commencing at the Northeast corner of said Section 22; thence North 90°00'00" West along the North line of said Section 22, which is also the centerline of Carbide Lane, a distance of 470.38 feet; thence South 00°00'00" West 121.01 feet to a point on the centerline of an existing railroad spur, said point being the Point of Beginning; from the Point of Beginning thus described, the following easement shall be construed as meaning a right of way for railroad and utility purposes over and across a trip of land lying 40 feet on each side of the following described railroad centerline; thence South 83°54'59" West 75.14 feet to the P.C. of a 14° railroad curve, said curve being concave Southeasterly and having a central angle of 85°10'30"; thence Southwesterly along and with the arc of said curve an arc distance of 608.39 feet; thence South 01°15'55" East 181.08 feet to the Point of Termination of the 80 foot easement and the beginning of a 90 foot easement for railroad and utility purposes. The 90 foot easement shall be construed as meaning a strip of land lying 50 feet on the Westerly side and 40 feet on the easterly side of the following described centerline: From the Point of Beginning thus described thence South 01°15'55" East 600.00 feet to the South line of the Northeast ¼ of the Northeast ¼ of said Section 22 and the Point of Termination of the 90 foot easement, to have and to hold the said easement for right-of-way unto the grantees, their successors and assigns, perpetually.

(continued)

Provided, however, that this easement shall be subject ot the right of the grantor to execute additional easements which may intersect the easement granted herein.

EASEMENT: Midwest Carbide Corporation; By K. C. Clarke, President; Attest William O. Shank, Secretary; (Seal) to Union Electric Company, a Missouri corporation. Dated February 23, 1977. Filed March 29, 1977. Recorded in Book 165, Page 669. Consideration $10.00.

Does hereby grant, bargain, sell, convey and confirm unto Grantee the perpetual right and easement 15 & 25 feet in width in, on, upon, along, over, through, across, and under the following described land situated in Lee County, Iowa, to wit:

The North half of the Northeast Quarter of Section 22, Township 65 North, Range 5 West of the fifth P.M.

The 15-foot wide easement across the above-described property is described as the south 15 feet of that part of the North Half of the Northeast Quarter of Section 22, Township 65 North, Range 5 West extending east from the east right of way line of U.S. Highway 61 By-Pass a distance of 727 feet.

The centerline of the 25-foot wide easement across the above described property shall be coincident with a line described as beginning at a point in the centerline of Carbide Lane which is 747 feet east of the intersection of the centerline of Carbide Lane with the centerline of U.S. Highway 61 By-Pass as measured along said centerline of Carbide Lane; thence south a distance of 1320 feet to a point on the south line of the North Half of the Northeast ¼ of Section 22, Township 65 North, Range 5 West which is 677 feet east of the east right of way line of U.S. Highway 61 By-Pass as measured along said south line of the North Half of the Northeast Quarter of said Section 22.

RIGHT OF WAY AGREEMENT: Midwest Carbide Corporation; By G. J. Kiedaisch, _____; By E. M. McAndrew, _____; (Seal) to Keokuk Gas Service Company; By C. B. Dushane, III, _____; By M. Carl McMurray, _____; (Seal). Dated _____. Filed Nov. 27, 1979. Recorded in Book 174, Page 368. Consideration $1.00 and og and vc.

(continued)

Herewith covenant and agree as follows: First Party herewith grants unto Second Party a right of way easement, as set forth in Exhibit "A", hereto attached and incorporated herein. The real estate over which the easement exists is owned by First Party.

Said right of way easement shall be for the installation, construction and maintenance of a gas transmission pipe line and incidental equipment, and for rights of ingress and egress for the exercise of said easement rights.

That said right of way easement shall be used in a manner least likely to cause damage or injury to improvements or vegetation on the real estate, and as close as is feasible to the boundary of said real estate.

In the event of necessity to make repairs, or for other excavation of the pipe lines once same is in place, Second Party may exceed the limitations of the permanent easement for the ingress and egress of machinery, as necessary, to make such repairs or other excavations, and for the purpose of displacing soil or other fill material, as required by the repairs or other excavation.

Second Party shall be responsible to First Party for any damages arising from its negligence or that of its agents or employees in the exercise of its enjoyment of this right of way easement.

Acknowledgment states that G. J. Kiedaisch and E. M. McAndrew are President and Treasurer respectively of said Corporation.

Acknowledgment state that C. B. Dushane and M. Carl McMurray are Vice President and Secretary respectively of said Corporation.

See following page for copy of Exhibit "A" attached.

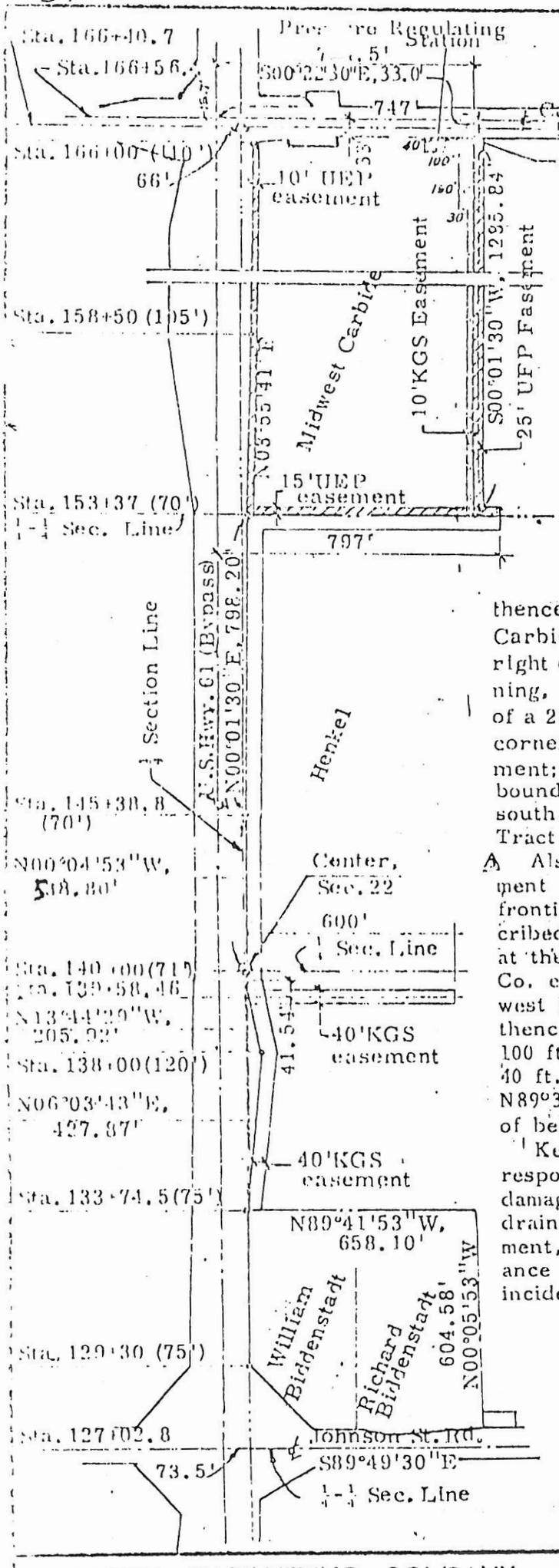
PERMANENT EASEMENT: CITY OF KEOKUK, IOWA; By Robert L. Seabold, Mayor; By J. A. Finerty, City Clerk (Seal) – First Party; to Midwest Carbide Corporation – Second Party. Dated February 27, 1980. Filed Mar 6, 1980. Recorded in Book 174, Page 712. Consideration $2.00 and og and vc.

Hereby grant the perpetual right and easement to lay underground, maintain, operate, re-lay and remove at any time pipe line, and equipment for the transportation of sewage with the right of ingress and egress to and from the same on, over and through certain lines situated in the County of Lee and State of Iowa, and described as follows:

(continued)

370

174-370



CITY KEOKUK
T65N - R5W - 5th P.M.
Lee County - Iowa

SE¼, Sec. 15
NE¼, Sec. 22

DESCRIPTION: A 40 ft. width temporary construction easement and 10 ft. permanent easement for the installation and maintenance of gas transmis pipe lines and incidental equipment within across the Midwest Carbide Corp. Plant S located in the NW¼, NE¼, Section 22, T65I R5W, 5th P.M., City of Keokuk, Lee Cour Iowa; and described by the following easter boundary of said right of way easement;

Commencing at the intersection of the centerline of Carbide Lane and the centerl of U.S.Hwy. 61 (Bypass)at Hwy. Sta. 166+5 said point located 66.0 ft. west and 15.7 ft north of the N¼ Corner of said Section 22; thence N89°37'30"E, 734.5 ft. with the conterline Carbide Lane; thence S00°22'30"E, 33 ft. to the so right of way line of Carbide Lane and point of begi ning, said point of beginning marking the NW corn of a 25 ft. wide Union Electric Co. easement and corner of this Keokuk Gas Service Company ease- ment; thence S00°01'30"W, 1285.84 ft. with the we boundary of the Union Electric Co. easement to th south property line of the Midwest Carbide Plant S Tract and SE corner of this easement; and

A Also including a 40 ft. width of permanent ease ment for a gas regulating station and associated pi fronting on the south line of Carbide Lane and de cribed by the following metes and bounds: Beginn at the heretofor described NW corner of Union Ele Co. easement; thence S00°01'30"W, 200 ft. with th west line of said easement; thence N89°58'30"W, 40 thence N00°01'30"E, 160 ft.; thence S89°37'30"W, 100 ft. parallel with Carbide Lane; thence N00°22' 40 ft. to the south line of Carbide Lane; and then N89°37'30"E, 140 ft. with said south line to the po of beginning;

Keokuk Gas Service Company, as grantee shall responsible for safeguarding and preventing any damage to the Owner's existing drainage lines and drainageways, located within this right of way eas ment, during construction, installation and mainte ance operations for the gas transmission line and incidental equipment.

I hereby certify that this plat, map, survey or report was made by me or under my direct personal supervision and that I am a duly registered Land Surveyor under the laws of the State of Iowa.

Signed D. F. Kreibill Date 11/20 19 79

D. F. KREIBILL, L.S. Iowa Reg. No. 2161

KREBILL ENGINEERING COMPANY
LAND SURVEYORS & CONSULTING ENGINEERS
Tel. (319) 524-2883 KEOKUK, IOWA 52632

KEOKUK GAS SERVICE CO. -Keokuk, I
By-Pass Right of Way Easement
Phase I - MIDWEST CARBIDE CORP.

A twenty foot wide permanent easement in the NW ¼, NW ¼, NW ¼, Section 23, T65N, R5W of the 5th P.M. in the City of Keokuk, Iowa and having a centerline description as follows:

Commencing at the NE corner of SW ¼, NW ¼, NW ¼ of Section 23, T65N, R5W of the 5th P.M. in the City of Keokuk, Iowa; thence West 309 feet along the North line of the SW ¼ of said ¼, ¼ Section to the Point of Beginning; thence N 29°42'32" W 190 feet; thence N 48°57'04" W 137 feet; thence N 17°01'44" E 42 feet to the Westerly right-of-way line of spur track of the Burlington Northern Railroad. Said area containing 0.169 acres.

This agreement of easement is executed by the parties heretofore and on behalf of themselves and successors and assigns.

This written contract constitutes the entire agreement between the parties and it is understood that there is no agreement to do any act or deed except as specifically provided for herein. All provisions on the reverse side and each of the attachments are by this reference made a part hereof and the entire agreement consists of 3 pages.

By signing this agreement of easement the second party hereby relinquishes all claims for damages which may have occurred during construction of said pipe line.

See following page for copy of plat attached.

ABSTRACTOR'S NOTE: The following Quit Claim Deed is set out for information purposes only.

QUIT CLAIM DEED: Midwest Carbide Corporation; By W. J. Fulton, Vice President & General Manager; (Seal) to the State of Iowa. Dated July 19, 1957. Filed September 25, 1957. Recorded in Book 129, Page 277. Consideration $600.00.

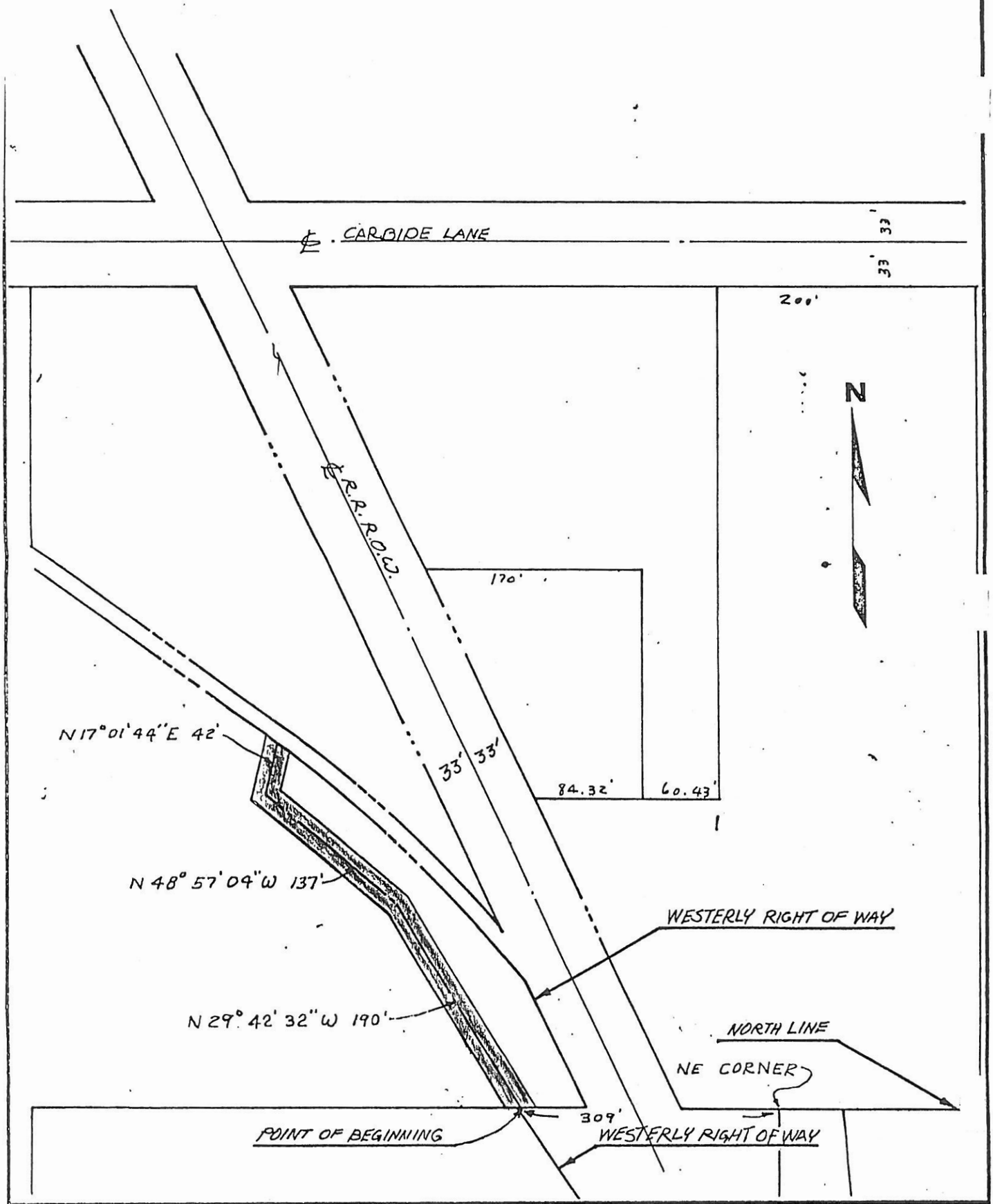
Quit Claims, Sells and Conveys all the right, title and interest in and to the following described real estate, situated and lying in Lee County, and State of Iowa, viz:

(sets out property not being abstracted herein).

Grantor hereby relinquishes all rights of direct access between Primary Road No. U.S. 61 and U.S. 218 and grantors remaining property adjacent thereto, excepting that if and when a frontage road is constructed grantor shall have an industrial entrance onto said frontage road at a point east of Sta. 154+00.

Acknowledgment sets out authority to execute said instrument granted to above officials by Board of Directors of said corporation.

(continued)



CITY OF KEOKUK

ENGINEERING DEPARTMENT

415 BLONDEAU – KEOKUK, IOWA 52632

319/524-2442

PROJECT TITLE: SOAP CREEK INTERCEPTOR SEWER

SHEET TITLE: EXHIBIT A

SUR.	DR. S.f.W.	CK. W.P.R.	APP. A.E.R	DATE 10-29-76	SCALE 1"=100'	NO. 218	REV. 2

Std. Blue Print Co. 29050

△ REVISED DESCRIPTION 10-29-76 by WPR

N8279

CERTIFICATE OF TRUE COPY: American Carbide and Carbon Corporation, By Todd R. Craun, Secretary; (Seal) to The Public. Dated June 24, 1987. Filed Jun 25, 1987. Recorded on Microfiche 87S-34 E7.

Certifies that the attached is a true and correct copy of the Certificate of Ownership of American Carbide and Carbon Corporation, a Corporation organized and existing under the laws of the State of Delaware, merging Midwest Carbide Corporation a Corporation organized and existing under the laws of the State of Delaware, pursuant to Section 253 of the general corporation law of the State of Delaware, as filed in Minutes of this Corporation.

PLAN OF MERGER (attached to above Certificate) adopted October 14, 1983.

MIDWEST CARBIDE CORPORATION
INTO
AMERICAN CARBIDE AND CARBON CORPORATION

1. The names of the corporations involved in the merger are American Carbide and Carbon Corporation and Midwest Carbide Corporation, both Delaware corporations. American Carbide and Carbon Corporation owns all the outstanding stock of Midwest Carbide Corporation. Pursuant to this Plan of Merger, American Carbide and Carbon Corporation will be the surviving corporation. Upon the merger, the corporate existence of Midwest Carbide Corporation shall cease and terminate. Midwest Carbide Corporation will be liquidated in the course of the merger. Its assets will become assets of American Carbide and Carbon Corporation and American Carbide and Carbon Corporation will assume the debts of Midwest Carbide Corporation.

2. All outstanding shares of capital stock of Midwest Carbide Corporation will be cancelled, and no cash or shares or other securities or obligations of American Carbide Corporation will be distributed or issued upon the cancellation of such shares of Midwest Carbide Corporation.

3. The Certificate of Incorporation of American Carbide and Carbon Corporation shall not be changed by the merger.

(continued)

4. This merger shall be completely consummated and shall become effective when a Certificate of Ownership and Merger merging Midwest Carbide Corporation into American Carbide and Carbon Corporation, conforming to Section 253 of the General Corporation Law of Delaware, shall be filed with the Secretary of State of Delaware.

CERTIFICATE OF OWNERSHIP AND MERGER MERGING MIDWEST CARBIDE CORPORATION INTO AMERICAN CARBIDE AND CARBON CORPORATION (attached to above Certificate).

Signed: American Carbide and Carbon Corporation, by C.D.L. Perkins, President, Attest Peter McCausland, Assistant Secretary. (Seal)

Certifies:

FIRST: That the Corporation is incorporated pursuant to the General Corporation Law of the State of Delaware.

SECOND: That the Corporation owns all the outstanding shares of each class of the capital stock of Midwest Carbide Corporation, a Delaware corporation.

THIRD: That the Corporation, by the following resolutions of its Board of Directors, duly adopted on the 14th day of October, 1983, determined to merge into itself Midwest Carbide Corporation on the conditions set forth in such resolutions:

> "RESOLVED, That this corporation merge into itself its subsidiary, Midwest Carbide Corporation, and assume all liabilities and obligations of Midwest Carbide and Corporation;_ and
>
> "RESOLVED, That the president and the secretary of this corporation be and they hereby are directed to make, execute, and acknowledge a Certificate of Ownership and Merger setting forth a copy of the resolution to merge Midwest Carbide Corporation into this corporation and to assume the liabilities and obligations of Midwest Carbide Corporation and the date of adoption thereof, and to file the same in the office of the Secretary of the State of Delaware and a certified copy thereof in the Office of the Recorder of Deeds of New Castle County, the said merger to take place in accordance with the Plan of Merger attached hereto."

(continued)

CERTIFICATE OF TRUE COPY (attached to above Certificate).

Signed: Glenn C. Kenton, Secretary of State, State of Delaware.

Certifies the foregoing is a true and correct copy of the Certificate of Ownership of American Carbide and Carbon Corporation, a Corporation organized and existing under the laws of the State of Delaware, merging Midwest Carbide Corporation a Corporation organized and existing under the laws of the State of Delaware, pursuant to Section 253 of the General Corporation Law of the State of Delaware, as received and filed in this office the nineteenth day of October, A.D. 1983, at 1 o'clock P.M.

And I do hereby further certify that the aforesaid corporation shall be governed by the laws of the State of Delaware.

CERTIFICATE OF TRUE COPY: State of Delaware – Office of Secretary of State – Michael Harkins, Secretary of State, By (Not Legible); (Seal) to The Public. Dated July 28, 1987. Filed Aug 4, 1987. Recorded on Microfiche 87S-43 A4.

Certifies that the attached is a true and correct copy of Certificate of Ownership filed in this office on October 11, 1983.

(Note: Attached to Certificate is the Certificate of Ownership and Plan of Merger set out at entry set out above.)

ELECTRIC LINE EASEMENT: American Carbide and Carbon Corporation; also known as Midwest Carbide Corporation; By R. H. Scott, President; (No Seal) – Grantor; to IES Utilities, Inc., Grantee. Dated October 13, 1995. Filed Nov 17, 1995. Recorded on Microfiche 95S-85 A1. Consideration $1.00 and ovc.

Does hereby warrant and convey unto IES Utilities, Inc. its successors and assigns ("Grantee") a perpetual easement with the right, privilege and authority to construct, reconstruct, maintain, operate, repair, patrol and remove an electric and telecommunications line or lines, consisting of poles, towers, crossarms, insulators, wires, guy wires, anchors and other necessary fixtures, equipment and construction for transmitting electricity, communications and all Corporate purposes together with the power to extend to any

(continued)

other party the right to use, jointly with the Grantee, pursuant to the provisions hereof, upon, under, over and across the following described lands located in the County of Lee and the State of Iowa:

A piece of land located in the NW ¼ of the NE ¼, Section 22, Township 65 North, Range 5 West, described as follows:

Beginning at the intersection of the Southerly right of way line of Carbide Lane, and the Easterly right of way line of Iowa Highway 61; thence East 100 feet; thence South 300 feet; thence West to the Easterly right of way line of Iowa Highway 61, thence Northerly along the existing right of way line of Iowa Highway 61 to the place of beginning

together with the rights and privileges for the full enjoyment or use thereof for the aforesaid purpose.

Grantor agrees that it will not construct or place any buildings, structures, plants, or other obstructions on the property described above which would result in a violation of the minimum clearance requirements of the National Electric Safety Code or would interfere with the operation and maintenance of the Line.

Grantor also conveys the right and privilege to trim, cut down or control the growth of any trees or other vegetation on said described land and such other trees and vegetation adjacent thereto as in the judgment of the Grantee may interfere with construction, reconstruction, maintenance, operation, repair, use of, or which in falling might touch the said line or lines.

Grantee, its contractor or agent, may enter said premises for the purpose of making surveys and preliminary estimates immediately upon the execution of this easement.

The Grantor also grants to the Grantee the right of ingress and egress to said line or lines, over/under lands now owned by the Grantor, for the purpose of constructing, reconstructing, maintaining, operating, patrolling, repairing and removing said line or lines, and the Grantee agrees to pay to the Grantor or its tenants all damages done to the lands (except the cutting and trimming of trees or other vegetation), fences, livestock or crops of the Grantor or its tenants, by the Grantee or its employees while constructing, reconstructing, patrolling or repairing said line or lines.

(continued)

SPECIAL WARRANTY DEED: American Carbide and Carbon Corporation; By Andrew R. Cichocki, Vice President; By Todd R. Craun, Secretary; (Seal) to Elkem Metals Company, L.P. Dated December 31, 1998. Filed Jan 6, 99. Recorded on Microfiche 99S-2 B3. Consideration $10.00 and og and vc.

Conveys A tract comprised of 80.7 acres lying South of Carbide Lane and East of U.S. 61 By-Pass in the North Half of the Northeast Quarter of Section 22 and the Northwest Quarter of the Northwest Quarter of Section 23, Township 65 North, Range 5 West of the Fifth Principal Meridian, City of Keokuk, Lee County, Iowa, described by the following metes and bounds:

Commencing at the NE corner of said Section 22; thence South 89 degrees 36 minutes West, 159.1 feet with the Section Line to the point of beginning; thence South 00 degrees 24 minutes East, 178.5 feet to the Southerly right of way line of Burlington Northern Spur Track #106; thence with said right of way the following courses and distances: Southeasterly 300.4 feet with a 772.9 foot radius curve concave Southwesterly and tangent to the following course: South 51 degrees 49 minutes East, 200.8 feet; and Southeasterly, 319 feet with an 806.5 foot radius curve concave Southwesterly and tangent to the proceeding course, to the north line of the SW 1/4, NW ¼, NW ¼, said Section 23; thence West, 421.4 feet to the East line of said Section 22; thence South 00 degrees 19 minutes East, 665.8 feet with the Section Line to the South line of the N ½, NE ¼, said Section 22; thence North 89 degrees 48 minutes 18 seconds West, 2659.4 feet with the ¼ ¼ Section Line to the Easterly right of way line of U.S. Highway 61 By-Pass; thence with said highway right of way line the following courses and distances: North 04 degrees 21 minutes East, 513.5 feet; North 00 degrees 50 minutes East, 750.0 feet and North 83 degrees 58 minutes East, 235.4 feet to the Southerly right of way line of Carbide Lane; thence South 89 degrees 56 minutes West, 277.7 feet with said right of way line to the West line of said NE ¼, Section 22; thence North 00 degrees 04 minutes East, 18.1 feet to the North line of said Section 22; thence North 89 degrees 36 minutes East, 2487 feet with the Section Line to the point of beginning, containing 80.7 acres, subject to the following easements: to Burlington Northern for railroad tracks, to Union Electric Co. for pole lines, and 1.6 acres along the North

(continued)

side for Carbide Lane right of way. Except the real estate conveyed to the State of Iowa in a Quit Claim Deed, filed 9/25/1957, in Deed Record Book 129, Page 277, in the Lee County's Recorders Office, State of Iowa. Subject to other easements of record.

QUIT CLAIM DEED: Elkem Metals Company, L.P., a New York limited partnership; By Ferro Invest II Inc., a Delaware corporation, its General Partner; By Francis A. King, Vice President; (No Seal) to Elkem Metals Company – Keokuk, L.P., a Delaware limited partnership. Dated June 23, 1999. Filed Jul 13, 99. Recorded on Microfiche 99S-60 D6. Consideration "None".

Does hereby quitclaim all that lot or piece of ground, together with all the improvements thereon and appurtenances thereunto, situate in Lee County, State of Iowa, and described as set forth on Exhibit A hereto, and made a part hereof, subject to all matters of record.

Being the same described premises granted and conveyed to the Grantor by American Carbide and Carbon Corporation by Special Warranty Deed dated December 31, 1998 and recorded in the Recorder's Office of Lee County, Iowa on or about January 6, 1999.

"EXEMPT, CONSIDERATION LESS THAN $500.00."

Exhibit "A" attached sets out same property as Special Warranty Deed above.

ELECTRIC LINE EASEMENT: Elkem Metals Company L.P.; By Francis A. King, Vice President; (No Seal) to IES Utilities, Inc., Grantee. Dated December 10, 1999. Filed Feb 8, 00. Recorded on Microfiche 00S-12 B10. Consideration $1.00 and ovc.

Does hereby warrant and convey unto IES Utilities, Inc. its successors and assigns ("Grantee") a perpetual easement with the right, privilege and authority to construct, reconstruct, maintain, operate, repair, patrol and remove an electric and telecommunications line or lines, consisting of poles, towers, crossarms, insulators, wires, guy wires, anchors and other necessary fixtures, equipment and construction for transmitting electricity, communications and all Corporate purposes together with the power to extend to any other party the right to use, jointly with the Grantee, pursuant to the provisions hereof, upon, under, over and across the following described lands located in the County of Lee and the State of Iowa:

(continued)

This easement is for 1 new pole 5 feet West of an existing pole and 1 anchor ground extending from that pole to the South 30 to 35 feet into the property adjacent to Carbide Lane road right of way. Located in the Northwest ¼ of the Northeast ¼ of Section 22, Township 65 North, Range West of the 5th P.M., Lee County, IA.

together with the rights and privileges for the full enjoyment or use thereof for the aforesaid purpose.

Grantor agrees that it will not construct or place any buildings, structures, plants, or other obstructions on the property described above which would result in a violation of the minimum clearance requirements of the National Electric Safety Code or would interfere with the operation and maintenance of the Line.

Grantor also conveys the right and privilege to trim, cut down or control the growth of any trees or other vegetation on said described land and such other trees and vegetation adjacent thereto as in the judgment of the Grantee may interfere with construction, reconstruction, maintenance, operation, repair, use of, or which in falling might touch the said line or lines.

Grantee, its contractor or agent, may enter said premises for the purpose of making surveys and preliminary estimates immediately upon the execution of this easement.

The Grantor also grants to the Grantee the right of ingress and egress to said line or lines, over/under lands now owned by the Grantor, for the purpose of constructing, reconstructing, maintaining, operating, patrolling, repairing and removing said line or lines, and the Grantee agrees to pay to the Grantor or its tenants all damages done to the lands (except the cutting and trimming of trees or other vegetation), fences, livestock or crops of the Grantor or its tenants, by the Grantee or its employees while constructing, reconstructing, patrolling or repairing said line or lines.

NATURAL GAS LINE EASEMENT: Dated January 2, 2003. Filed Jan 15, 03. Recorded at Location 03S-175. Consideration $9,234.95.

Signed Gregory A. Reynolds.

(continued)

FROM: Elkem Metals Company, L.P.
c/o Airport Office Park, Bldg. 2, 400 Rouser Road, Moon Township, PA

TO: Atmos Energy Corporation, a Texas and Virginia Corporation.

Does hereby convey to the Grantee, its successors and assigns, a permanent and perpetual natural gas line easement and a temporary construction easement across Grantor's property for the purpose of constructing, maintaining and replacing one or more natural gas pipelines together with all appurtenances. Said property is more particularly described as follows:

A tract in the NW ¼, NE ¼, said Section 22, T65N, R5W, 5th P.M., City of Keokuk, Lee County, Iowa and noted as Parcel Identification Number 044521222000240, Assessor Office, Keokuk, Lee County, Iowa, and being a portion of Grantor's land described in Recorded Location 99S60-D6, Register's Office of Lee County, Iowa.

The permanent easement width is forty (40) feet and more particularly described by the following west outside boundaries or said tract and these pipeline right-of-ways as follows:

Commencing at the N ¼ Corner, said Section 22; thence S00°04'W, 18.1 ft. with the west line of the NE ¼; thence N89°56'E, 277.7 ft. to the south right of way line of Carbide Lane; thence S83°58'W, 235.40 ft. to the easterly right of way line of U.S. Highway 61 By-Pass Sta. 166+00, 110 ft. RT. and the Point of Beginning; thence with the said easterly right of way line of U.S. Highway 61 By-Pass the following courses and distances: S00°50'W, 650.00 ft.; thence S04°21'W, 513.5 ft. to Sta. 153+37, 70 ft. RT. to the south line of the NW ¼, NE ¼, said Section 22, being the south property line of the Midwest Carbide Tract.

The temporary construction easement width is thirty-five (35) feet and being described as follows:

Being parallel and adjacent the above described permanent easement.

(continued)

In the event use of the temporary construction easement is required for the installation of additional pipelines, Grantee agrees to pay to Grantor, or successors as owner of record, the sum of $374.00 dollars for each subsequent pipeline installation. Excluded from this payment shall be any work performed by Grantee during the normal operation of its pipeline(s) including but not limited to maintenance, repairs, relocation, service extension and branching where such work is accomplished solely within the confines of Grantee's permanent easement.

In connection with the easement hereby granted, the parties further agree as follows:

1. Grantor reserves the right to maintain and use the surface of the permanent easement area, with the exception of locating permanent structures or engineering works thereon, provided that such use shall be non-detrimental to the use or repair of Grantee's installation. Further, Grantor shall obtain written permission from Grantee prior to changing the grade of the permanent easement area.

2. Grantee, by its acceptance hereof, agrees that all pipelines shall be located within the permanent easement area so as not to unreasonably interfere with the surface use by Grantor, and further agrees to indemnify and hold Grantor harmless from any damages which may arise from Grantee's use, maintenance, repair or replacement of the pipeline(s) constructed within the permanent easement.

3. Grantee shall have the right of ingress and egress to and from said permanent and or temporary easement area.

4. Grantee agrees to restore to original condition, or as close as possible to original condition, any property of Grantor that is adversely affected or damaged by the construction, use, maintenance, repair or replacement of Grantee's facilities within the permanent and temporary easement area.

5. Grantee shall have the right to cut and clear trees and undergrowth or other obstructions on said permanent easement that may injure or interfere with the use of said pipeline, fittings and appliances appurtenant thereto. Execution of such clearing rights shall not constitute damages to Grantor property, including the removal of landscaping or other ornamental plantings or structures placed thereon. Where time permits, Grantee shall notify Grantor of pending work to allow for the removal and preservation of such planting by Grantor.

6. These easements shall run with the land and inure to the benefit of, and be binding upon, the successors in interest of Grantor, in and to the parcel.

(continued)

SPECIAL WARRANTY DEED: Elkem Metals Company – Keokuk, L,P., a Delaware limited liability company; By Geir Kvernmo, President; (No Seal) to Carbide Lane Properties, LLC, an Iowa limited liability company. Dated May 9, 2008. Filed 5/13/2008. Recorded in Book 08S Page 1051. Consideration $10.00.

(See attached copy.)

REVISED PLAT OF SURVEY filed 5/30/08 in Book 08S Page 1205.

(See attached copy.)

SPECIAL WARRANTY DEED recorded in Book 08S Page 1051, set out above, was later rerecorded on 12/5/2008 in Book 08S Page 2799 for the purpose of correcting the legal description.

(See attached copy.)

SPECIAL WARRANTY DEED: Carbide Lane Properties, LLC, an Iowa limited liability company; By David P. Franjoine, Managing Member; (No Seal) to 365 Carbide Lane, LLC, a Limited Liability Company. Dated September 8, 2015. Filed 9/11/2015. Recorded in Book 2015 Page 4071. Consideration $10.00.

(See attached copy.)

SPECIAL WARRANTY DEED recorded in Book 2015 Page 4071, set out above, was later rerecorded on 10/9/2015 in Book 2015 Page 4565 for the purpose of correcting the legal description.

(See attached copy.)

There are no judgments or mechanic's liens of record against Elkem Metals Company – Keokuk, L.P., a Delaware limited partnership; Carbide Lane Properties, LLC; or 365 Carbide Lane, LLC in Lee County, Iowa.

This property is currently zoned in the "M-1" Heavy Industrial District under the Keokuk Zoning Ordinance and is subject to all limitations and restrictions of that zoning therein.

(continued)

TAXES: Real Estate Taxes Payable 2015-2016: Assessed to 365 Carbide Lane, LLC. Tr C Lyg in N ½ Sec 22 & Lyg in NW NW Sec 23-65-5. Payment #1 - $7,802.00 – paid. Payment #2 - $7,802.00 – paid.

TAX ID NO: 04-45-21-22-200-0310.

Dated at Keokuk, Iowa, this 21st day of January, A.D. 2016 at 8:30 A.M.

AMERICAN ABSTRACT & TITLE GUARANTY

By Kevin J. Kuckelman KJK

Kevin J. Kuckelman
Owner/Abstractor

BK: 08S PG: 1051
Instrument Number: 1051
Recorded: 5/13/2008 at 1:15:29.0 PM
Fee Amount: $927.20
Revenue Tax: $895.20
Larry Holtkamp RECORDER
Lee County, Iowa

SPECIAL WARRANTY DEED
Recorder's Cover Sheet

PREPARED BY:
Raymond D. Berger, Esquire
Berger & Buchmeyer
P.O. Box 76
Davenport, Iowa 52805
Phone: (563) 327-0130

TAXPAYER INFORMATION:
Carbide Lane Properties, LLC
1330 Niagra Falls BLVD. – Suite 207
Tonawanda, NY 14150

RETURN TO AFTER RECORDING:
Rock Island County Abstract
ATTN.: Bill Sharp / 88-122
211 – 18th Street, Suite 300
Rock Island, Illinois 61201

Grantor: **Elkem Metals Company - Keokuk, L.P.,** a Delaware limited partnership

Grantee: **Carbide Lane Properties, LLC,** an Iowa limited liability company

Legal Description: See Exhibit "A"

SPECIAL WARRANTY DEED

KNOW ALL MEN BY THESE PRESENTS THAT Elkem Metals Company - Keokuk, L.P., a Delaware limited partnership, with its principal office and place of business and address at Elkem Metals, Inc., Airport Office Park, Building 2, 400 Rouser Rd., Moon Township, PA 15108-2749 (the "Grantor"), for and in consideration of the sum of TEN AND NO/100 DOLLARS ($10.00) received of **Carbide Lane Properties, LLC,** an Iowa limited liability company, whose address is 1330 Niagra Falls BLVD. – Suite 207, Tonawanda, NY 14150 (the "Grantee"), does grant and convey, unto the said Grantee, and its successors, the premises, situated in the City of Keokuk, County of Lee, and State of Iowa, that is further described in Exhibit "A", together with all buildings and other improvements situated thereon, and described as follows:

SEE EXHIBIT "A" ATTACHED HERETO AND MADE A PART HEREOF

Property Address: 365 Carbide Lane, Keokuk, IA 52632-2047

SUBJECT TO any and all taxes and assessments for the year 2007 and subsequent years, and to any and all restrictions, reservations, covenants, conditions and easements of record, if any, zoning ordinances affecting the premises.

THIS CONVEYANCE IS UNDER AND SUBJECT TO the restriction that the premises herein conveyed shall not be used for the production or manufacture of Soderberg Electrode Paste and/or Electrically Calcined Antricite without the express prior written approval of the Grantor, which approval may be granted or withheld at Grantor's sole discretion. Grantee covenants that any written lease granted by Grantee encumbering the premises shall contain and be subject to the foregoing restriction. The foregoing restriction shall run with the land, shall be binding on Grantee, its heirs, successors and assigns, and shall inure to the benefit of Grantor, its heirs, successors and assigns. For the purposes hereof, the term "Grantee" shall be deemed to refer to Grantee, its heirs, successors and assigns, and the term "Grantor" shall be deemed to refer to Grantor, its heirs, successors and assigns.

If Grantee shall violate or attempt to violate the restriction set forth herein, Grantor shall be entitled to seek injunctive relief to enforce the provisions herein and shall have the right to seek damages and other means of redress permitted by law and, if successful in such action, Grantor shall be entitled to recover reasonable attorneys' fees and costs incurred therein.

The restriction set forth herein may only be amended, and any waivers of the restriction may only be approved, in writing signed by Grantor and Grantee. Any waiver or approval given by Grantor may be limited in time and scope and with other limitations as may be imposed by Grantor, in its sole discretion.

The Grantor does hereby covenant with and warrant to the Grantee that the Grantor is lawfully seized of the Property in fee simple; that the Grantor has good right and lawful authority to sell and convey the Property; and that the Grantor fully warrants the title to the Property and will defend the same against the lawful claims of all persons claiming by, through or under the Grantor, but against none other.

[Signatures on Next Page]

IN WITNESS WHEREOF, the Grantor has hereunto set its hand and seal this 9th day of MAY, 2008.

Signed and Delivered
In the presence of:

Name: Peter P. Vander Velde

Kimberly L Petrisko

Name: Kimberly L Petrisko

ELKEM METALS COMPANY - KEOKUK, L.P., a Delaware limited liability company

By:

Name: GEIR KVERNMO

Title: PRESIDENT

STATE OF PENNSYLVANIA
COUNTY OF ALLEGHENY

On this 7th day of MAY, 2008, before me, a Notary Public in and for said county, personally appeared GEIR KVERNMO, to me personally known, who being by me duly sworn did say that he/she is PRESIDENT of said **ELKEM METALS COMPANY - KEOKUK, L.P.**, a Delaware limited ~~liability company~~ partnership and that said instrument was signed on behalf of the said limited ~~liability company~~ partnership by authority of its board of directors, and the said PRESIDENT acknowledged the execution of said instrument to be the voluntary act and deed of said limited ~~liability company~~ partnership, by it voluntarily executed.

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Patricia M. Zyroll, Notary Public
Moon Twp., Allegheny County
My Commission Expires July 8, 2010
Member, Pennsylvania Association of Notaries

(NOTARY SEAL)

Notary Public, State of PENNSYLVANIA

Printed Name: PATRICIA M. ZYROLL
Notary Commission No. 1185982
My Commission Expires: JULY 8, 2010

Mail all Future Tax Statements and Receipts to:
Carbide Lane Properties, LLC
1330 Niagra Falls BLVD. – Suite 207
Tonawanda, NY 14150

EXHIBIT "A"

Legal Description

A tract comprised of Eighty and Seven-tenths (80.7) acres lying South of Carbide Lane and East of U.S. 61 By-Pass in the North Half (N 1/2) of the Northeast Quarter (NE 1/4) of Section Twenty-two (22) and the Northwest Quarter (NW 1/4) of the Northwest Quarter (NW 1/4) of Section Twenty-three (23), Township Sixty-five (65) North, Range Five (5) West of the Fifth Principal Meridian, City of Keokuk, Lee County, Iowa, described by the following metes and bounds:

Commencing at the Northeast corner of said Section 22; thence S89°36'W, 159.1 feet with the Section Line to the point of beginning; thence S00°24'E, 178.5 feet to the Southerly right of way line of Burlington Northern Spur Track #106; thence with said right of way the following courses and distances: Southeasterly 300.4 feet with a 772.9 foot radius curve concave Southwesterly and tangent to the following course: S51°49'E, 200.8 feet; and Southeasterly, 319 feet with an 806.5 foot radius curve concave Southwesterly and tangent to the proceeding course, to the north line of the Southwest 1/4, Northwest 1/4, Northwest 1/4, said Section 23; thence West, 421.4 feet to the East line of said Section 22; thence S00°19'E, 665.8 feet with the Section Line to the South line of the North 1/2, Northeast 1/4, said Section 22; thence N89°48'18"W, 2659.4 feet with the 1/4 1/4 Section Line to the Easterly right of way line of U.S. Highway 61 By-Pass; thence with said highway right of way line the following courses and distances: N04°21'E, 513.5 feet; N00°50'E, 750.0 feet and N83°58'E, 235.4 feet to the Southerly right of way line of Carbide Lane; thence S89°56'W, 277.7 feet with said right of way line to the West line of said Northeast 1/4, Section 22; thence N00°04'E, 18.1 feet to the North line of said Section 22; thence N89°36'E, 2487.00 feet with the Section Line to the point of beginning, excepting 1.6 acres along the North side for Carbide Lane right of way; Situated in the City of Keokuk, Lee County, Iowa

Also described as:

PART OF THE NORTH HALF OF THE NORTHEAST QUARTER OF SECTION 22 AND PART OF THE NORTHWEST QUARTER OF SECTION 23, ALL IN TOWNSHIP 65 NORTH, RANGE 5 WEST OF THE FIFTH PRINCIPAL MERIDIAN, LEE COUNTY, IOWA. BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID SECTION 22; THENCE S 88° 30' 41" W, ALONG THE NORTH LINE OF THE NORTHEAST QUARTER OF SAID SECTION 22, A DISTANCE OF 159.44 FEET; THENCE S 01° 31' 28" E, 32.59 FEET TO THE SOUTHERLY RIGHT-OF-WAY LINE OF CARBIDE LANE AND THE POINT OF BEGINNING; THENCE CONTINUING S 01° 31' 28" E, 148.77 FEET TO THE SOUTH RIGHT-OF-WAY LINE OF THE BURLINGTON NORTHERN & SANTA FE RAILROAD SPUR TRACK #106; THENCE ALONG SAID LINE ALONG A NON TANGENT CURVE TO THE RIGHT WHOSE RADIUS EQUALS 766.03 FEET, AN ARC LENGTH OF 226.78 FEET, WITH A LONG CHORD BEARING S 62° 03' 08" E, 225.96 FEET; THENCE CONTINUING ALONG SAID LINE S 53° 34' 14" E, 193.26 FEET; THENCE CONTINUING ALONG SAID LINE ALONG A TANGENT CURVE TO THE RIGHT WHOSE RADIUS EQUALS 859.86 FEET, AN ARC LENGTH OF 336.77 FEET, WITH A LONG CHORD BEARING S 42° 21' 01" E, 334.62 FEET; THENCE S 88° 34' 01" E, 416.71 FEET; THENCE S 00° 46' 15" E, 663.92 FEET; THENCE S 88° 57' 41" W, ALONG THE SOUTH LINE OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION 22, A DISTANCE OF 1329.53 FEET; THENCE S 89° 06' 18" W, ALONG THE SOUTH LINE OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION 22, A DISTANCE OF 1315.15 FEET TO THE EASTERLY RIGHT-OF-WAY LINE OF U.S. ROUTE 61; THENCE N 03° 21' 44" E, ALONG SAID LINE, 514.65 FEET; THENCE N 00° 13' 09" E, ALONG SAID LINE, 749.86 FEET; THENCE N 83° 14' 32" E,

ALONG SAID LINE, 104.70 FEET TO THE SOUTHERLY RIGHT-OF-WAY LINE OF CARBIDE LANE; (THE FOLLOWING EIGHT COURSES ARE ALONG SAID RIGHT-OF-WAY LINE); THENCE S 01° 10' 44" E, 23.35 FEET; THENCE N 89° 15' 55" E, 129.91 FEET; THENCE N 01° 04' 01" W, 36.74 FEET; THENCE N 88° 50' 29" E, 1550.17 FEET; THENCE S 00° 56' 49" E, 27.00 FEET; THENCE N 88° 51' 34" E, 100.00 FEET; THENCE N 01° 09' 24" W, 27.03 FEET; THENCE N 88° 50' 36" E, 556.90 FEET TO THE POINT OF BEGINNING, CONTAINING 78.729 ACRES AND BEING SUBJECT TO THE EXISTING EASEMENTS AND RIGHT-OF-WAY AS SHOWN HEREON AND ALL OTHER EXISTING EASEMENTS AND RIGHTS OF WAY.

Book 08S Page 1205
Document 2008 1265 Type 06 032 Pages 3
Date 5/30/2008 Time 10:12 AM
Rec Amt $17.00

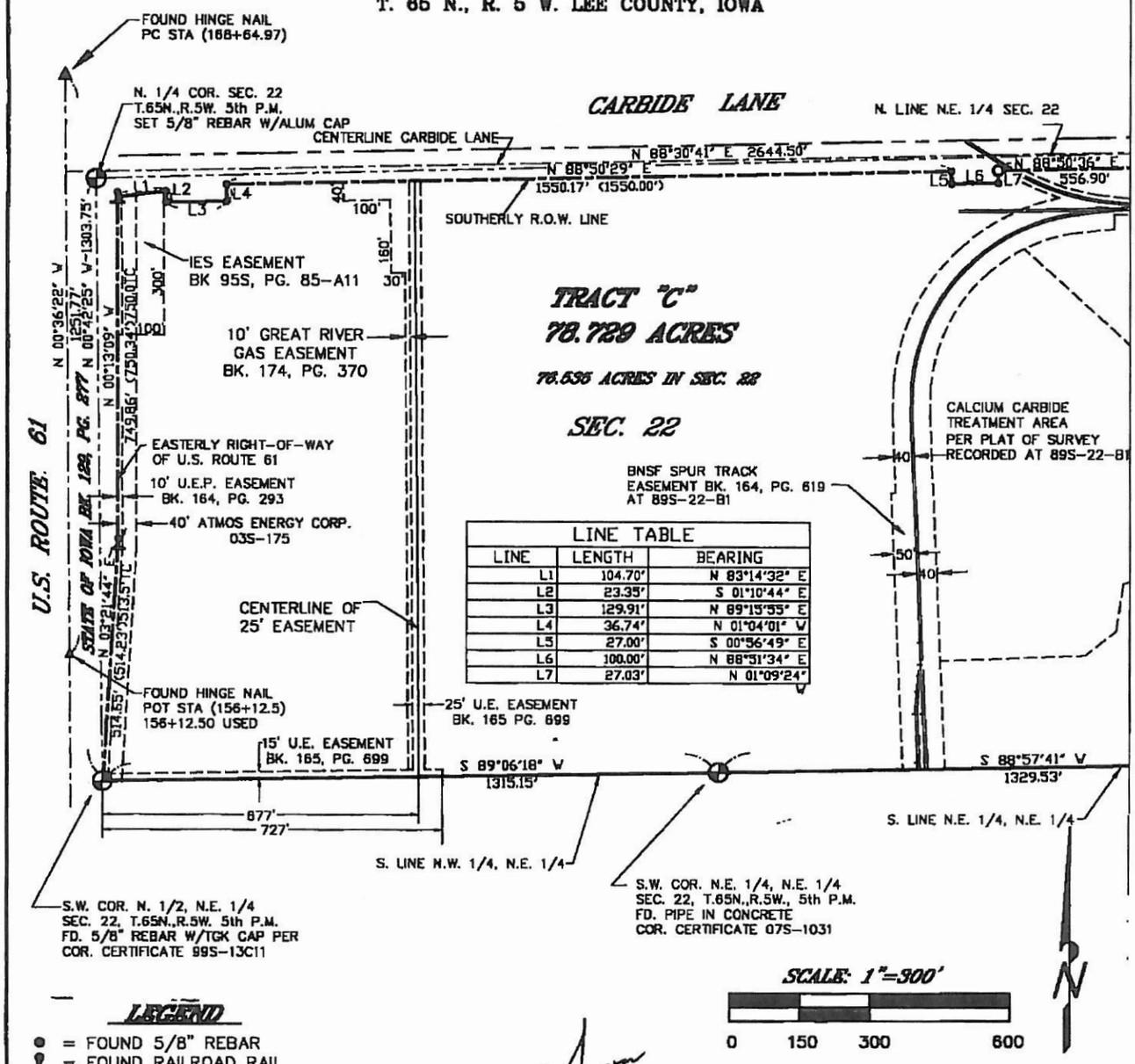
LARRY HOLTKAMP, RECORDER
SOUTH LEE COUNTY, IA AT KEOKUK

A Indexed ✓ Scanned ___
D Scan Check ___ Checked ___
S Red Index ___ Notes ___

PREPARED BY: CHESTER V. BROWN, POEPPING, STONE, BACH AND ASSOCIATES, INC.
100 SOUTH 54TH ST., P.O. BOX #709, QUINCY, IL, 62306, PH. 217-223-4605

REVISED PLAT OF SURVEY

PT. N.E. 1/4 SEC. 22 & PT N.W. 1/4 SEC. 23
T. 65 N., R. 5 W. LEE COUNTY, IOWA



LINE TABLE		
LINE	LENGTH	BEARING
L1	104.70'	N 83°14'32" E
L2	23.35'	S 01°10'44" E
L3	129.91'	N 89°15'55" E
L4	36.74'	N 01°04'01" W
L5	27.00'	S 00°56'49" E
L6	100.00'	N 88°31'34" E
L7	27.03'	N 01°09'24"

LEGEND

- ● = FOUND 5/8" REBAR
- ⊥ = FOUND RAILROAD RAIL
- ▲ = FOUND HINGE NAIL
- O = SET 5/8" REBAR WITH CVB CAP

(663.71') SURVEY DATA OF RECORD
663.92' MEASURED SURVEY DATA
665.8' TC TITLE COMMITMENT DISTANCE

BASIS OF BEARINGS - LEE COUNTY GIS
IOWA STATE PLANE COORDINATES SOUTH
ZONE NAD '83

LICENSED LAND SURVEYOR
CHESTER V. BROWN
17533
IOWA

I hereby certify that this land surveying document was prepared and the related survey work was preformed by me or under my direct personal supervision and that I am a duly licensed Land Surveyor under the laws of the State of Iowa.

Chester V. Brown 5/23/08
CHESTER V. BROWN License Number 17533 Date
My license renewal date is December 31, 2008.
Pages or sheets covered by this seal: 3

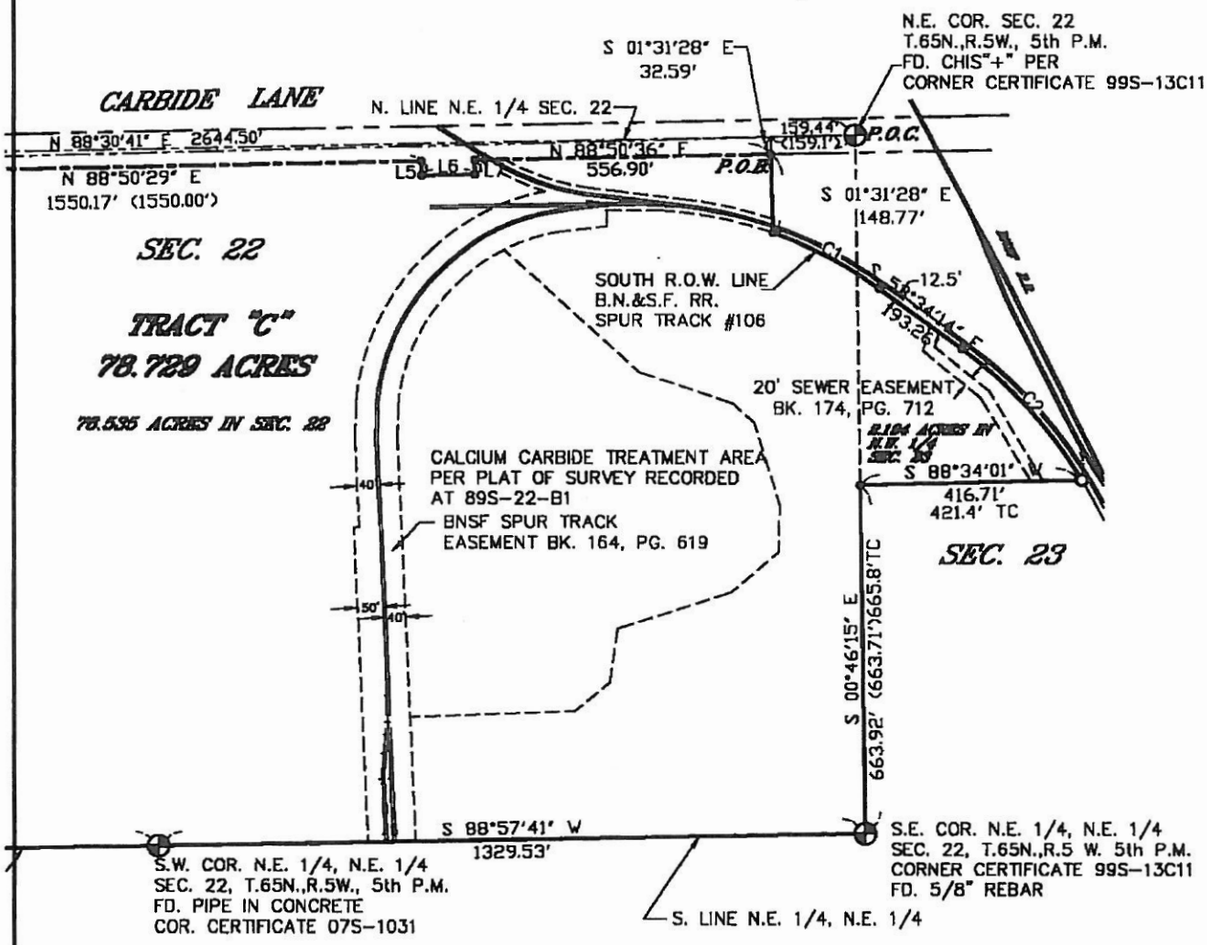
POEPPING, STONE, BACH & ASSOCIATES, INC.
3523 MAIN STREET, BOX 817 - KEOKUK, IA - (319) 524-8730
100 S. 54th ST. - QUINCY, IL. - (217) 223-4605
U.S. FEDERAL BLDG. SUITE 224, PO BOX 190, 801 BROADWAY, HANNIBAL, MO. (573) 406-0541

SURVEYED FOR:	FFZ HOLDINGS, LLC			SHEET 1 OF 3			
		FIELD BOOK	SK 170	SCALE	1" = 300'	DATE	APRIL 20, 2008.
SURVEYED	CVB/CKG	DRAWN	CVB	CHECKED	KEF	PROJ. NO.	SVK 08-504

PREPARED BY: CHESTER V. BROWN, POEPPING, STONE, BACH AND ASSOCIATES, INC.
100 SOUTH 54TH ST., P.O. BOX #709, QUINCY, IL, 62308, PH. 217-223-4605

REVISED PLAT OF SURVEY

PT. N.E. 1/4 SEC. 22 & PT. N.W. 1/4 SEC. 23
T. 65 N., R. 5 W. LEE COUNTY, IOWA



CURVE TABLE			
CURVE	LENGTH	RADIUS	LONG CHORD
C1	226.78	766.03	S 62°03'08" E, 225.96'
C2	336.77	859.86	S 42°21'01" E, 334.62'

REFERENCES

1) ROW PLAT BK. 129, PG. 279
2) PLAT OF SURVEY @ 99S 13 C12
3) PLAT OF SURVEY @ 89S 22 B1
4) PLAT OF SURVEY BY TERRY KNOKE DATED 6-18-87
5) PLAT OF SURVEY @ 03S 4281
6) PLAT OF SURVEY @ 07S 2457
7) ROW PLAT BK. 143, PG. 354

SCALE: 1"=300'

0 150 300 600

POEPPING, STONE, BACH & ASSOCIATES, INC.

3523 MAIN STREET, BOX 817 - KEOKUK, IA - (319) 524-8730
100 S. 54th ST. - QUINCY, IL. - (217) 223-4605
U.S. FEDERAL BLDG. SUITE 224, PO BOX 190, 801 BROADWAY, HANNIBAL, MO. (573) 406-0541

SURVEYED FOR: FFZ HOLDINGS, LLC			SHEET 2 OF 3
	FIELD BOOK SK 170	SCALE 1" = 300'	DATE APRIL 20, 2008.
SURVEYED CVB/CKG	DRAWN CVB	CHECKED KEF	PROJ. NO. SVK 08-504

PREPARED BY: CHESTER V. BROWN, POEPPING, STONE, BACH AND ASSOCIATES, INC.
100 SOUTH 54TH ST., P.O. BOX #709, QUINCY, IL, 62306, PH. 217-223-4805

REVISED PLAT OF SURVEY

PT. N.E. 1/4 SEC. 22 & PT. N.W. 1/4 SEC. 23
T. 65 N., R. 5 W. LEE COUNTY, IOWA

LEGAL DESCRIPTION (PER LAWYER TITLE INSURANCE CORPORATION CASE NO. L88-122-OC)

A TRACT COMPRISED OF EIGHTY AND SEVEN-TENTHS (80.7) ACRES LYING SOUTH OF CARBIDE LANE AND EAST OF U.S. 61 BY-PASS IN THE NORTH HALF (N ½) OF THE NORTHEAST QUARTER (NE ¼) OF SECTION TWENTY-TWO (22) AND THE NORTHWEST QUARTER (NW ¼) OF THE NORTHWEST QUARTER (NEW ¼) OF SECTION TWENTY-THREE (23), TOWNSHIP SIXTY-FIVE (65) NORTH, RANGE FIVE (5) WEST OF THE FIFTH PRINCIPAL MERIDIAN, CITY OF KEOKUK, LEE COUNTY, IOWA, DESCRIBED BY THE FOLLOWING METES AND BOUNDS:

COMMENCING AT THE NORTHEAST CORNER OF SAID SECTION 22; THENCE S 89° 36' W, 159.1 FEET WITH THE SECTION LINE TO THE POINT OF BEGINNING; THENCE S 00° 24' E, 178.5 FEET TO THE SOUTHERLY RIGHT OF WAY LINE OF BURLINGTON NORTHERN SPUR TRACK #106; THENCE WITH SAID RIGHT OF WAY THE FOLLOWING COURSES AND DISTANCES: SOUTHEASTERLY 300.4 FEET WITH A 772.9 FOOT RADIUS CURVE CONCAVE SOUTHWESTERLY AND TANGENT TO THE FOLLOWING COURSE: S 51° 49' E, 200.8 FEET; AND SOUTHEASTERLY, 319 FEET WITH AN 806.5 FOOT RADIUS CURVE CONCAVE SOUTHWESTERLY AND TANGENT TO THE PROCEEDING COURSE, TO THE NORTH LINE OF THE SOUTHWEST ¼, NORTHWEST ¼, NORTHWEST ¼, SAID SECTION 23; THENCE WEST, 421.4 FEET TO THE EAST LINE OF SAID SECTION 22; THENCE S 00° 19' E, 665.8 FEET WITH THE SECTION LINE TO THE SOUTH LINE OF THE NORTH ½, NORTHEAST ¼, SAID SECTION 22; THENCE N 89° 48'18" W, 2659.4 FEET WITH THE ¼ ¼ SECTION LINE TO THE EASTERLY RIGHT OF WAY LINE OF U.S. HIGHWAY 61 BY-PASS; THENCE WITH SAID HIGHWAY RIGHT OF WAY LINE THE FOLLOWING COURSES AND DISTANCES: N 04° 21' E, 513.5 FEET; N 00° 50' E, 750.0 FEET AND N 83° 58' E, 235.4 FEET TO THE SOUTHERLY RIGHT OF WAY LINE OF CARBIDE LANE; THENCE S 89° 56' W, 277.7 FEET WITH SAID RIGHT OF WAY LINE TO THE WEST LINE OF SAID NORTHEAST ¼, SECTION 22; THENCE N 00° 04' E, 18.1 FEET TO THE NORTH LINE OF SAID SECTION 22; THENCE N 89° 36' E, 2487.00 FEET WITH THE SECTION LINE TO THE POINT OF BEGINNING, EXCEPTING 1.6 ACRES ALONG THE NORTH SIDE FOR CARBIDE LANE RIGHT OF WAY; SITUATED IN THE CITY OF KEOKUK, LEE COUNTY, IOWA WHICH HAS THE APPARENT ADDRESS OF 361 AND 365 CARBIDE LANE, KEOKUK, IA

SUGGESTED LEGAL DESCRIPTION

PART OF THE NORTH HALF OF THE NORTHEAST QUARTER OF SECTION 22 AND PART OF THE NORTHWEST QUARTER OF SECTION 23, ALL IN TOWNSHIP 65 NORTH, RANGE 5 WEST OF THE FIFTH PRINCIPAL MERIDIAN, LEE COUNTY, IOWA. BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID SECTION 22; THENCE S 88°30'41" W, ALONG THE NORTH LINE OF THE NORTHEAST QUARTER OF SAID SECTION 22, A DISTANCE OF 159.44 FEET; THENCE S 01°31'28" E, 32.59 FEET TO THE SOUTHERLY RIGHT-OF-WAY LINE OF CARBIDE LANE AND THE POINT OF BEGINNING; THENCE CONTINUING S 01°31'28"E, 148.77 FEET TO THE SOUTH RIGHT-OF-WAY LINE OF THE BURLINGTON NORTHERN & SANTA FE RAILROAD SPUR TRACK #106; THENCE ALONG SAID LINE ALONG A NON TANGENT CURVE TO THE RIGHT WHOSE RADIUS EQUALS 766.03 FEET, AN ARC LENGTH OF 226.78 FEET, WITH A LONG CHORD BEARING S 62°03'08" E, 225.96 FEET; THENCE CONTINUING ALONG SAID LINE S 53°34'14" E, 193.26 FEET; THENCE CONTINUING ALONG SAID LINE ALONG A TANGENT CURVE TO THE RIGHT WHOSE RADIUS EQUALS 859.86 FEET, AN ARC LENGTH OF 336.77 FEET, WITH A LONG CHORD BEARING S 42°21'01" E, 334.62 FEET; THENCE S 88°34'01" W, 416.71 FEET; THENCE S 00°46'15" E, 663.92 FEET; THENCE S 88°57'41" W, ALONG THE SOUTH LINE OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION 22, A DISTANCE OF 1329.53 FEET; THENCE S 89°06'18" W, ALONG THE SOUTH LINE OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION 22, A DISTANCE OF 1315.15 FEET TO THE EASTERLY RIGHT-OF-WAY LINE OF U.S. ROUTE 61; THENCE N 03°21'44" E, ALONG SAID LINE, 514.65 FEET; THENCE N 00°13'09" E, ALONG SAID LINE, 749.86 FEET; THENCE N 83°14'32" E, ALONG SAID LINE, 104.70 FEET TO THE SOUTHERLY RIGHT-OF-WAY LINE OF CARBIDE LANE; (THE FOLLOWING EIGHT COURSES ARE ALONG SAID RIGHT-OF-WAY LINE) THENCE S 01°10'44" E, 23.35 FEET; THENCE N 89°15'55" E, 129.91 FEET; THENCE N 01°04'01" W, 36.74 FEET; THENCE N 88°50'29" E, 1550.17 FEET; THENCE S 00°56'49" E, 27.00 FEET; THENCE N 88°51'34" E, 100.00 FEET; THENCE N 01°09'24" W,27.03 FEET; THENCE N 88°50'36" E, 556.90 FEET TO THE POINT OF BEGINNING. CONTAINING 78.729 ACRES AND BEING SUBJECT TO THE EXISTING EASEMENTS AND RIGHT-OF-WAY AS SHOWN HEREON AND ALL OTHER EXISTING EASEMENTS AND RIGHTS OF WAY.

POEPPING, STONE, BACH & ASSOCIATES, INC.

3523 MAIN STREET, BOX 817 – KEOKUK, IA – (319) 524-8730
100 S. 54th ST. – QUINCY, IL. – (217) 223-4605
U.S. FEDERAL BLDG. SUITE 224, PO BOX 190, 801 BROADWAY, HANNIBAL, MO. (573) 406-0541

SURVEYED FOR:	FFZ HOLDINGS, LLC				SHEET 3 OF 3		
	FIELD BOOK	SK 170	SCALE	NA	DATE	APRIL, 2008.	
SURVEYED	CVB/CKG	DRAWN	CVB	CHECKED	KEF	PROJ. NO.	SVK 08-504

BK: 08S PG: 2799
Instrument Number: 2799
Recorded: 12/5/2008 at 10:26:47.0 AM
Fee Amount: $27.00
Revenue Tax: $0.00
Larry Holtkamp RECORDER
Lee County, Iowa

SPECIAL WARRANTY DEED
Recorder's Cover Sheet

THIS DEED IS BEING RE-RECORDED TO CORRECT THE LEGAL DESCRIPTION.

Preparer Information: (Name, address and phone number)
Raymond D. Berber, Esq.
P.O. Box 76
Davenport, IA 52805
Ph: (563) 327-0130

Taxpayer Information: (Name and complete address)
Carbide Lane Properties, LLC
1330 Niagra Falls Blvd. - Suite 207
Tonawanda, NY 14150

Return Document To: (Name and complete address)
Rock Island County Abstract
ATTN: Bill Sharp / 88-122
211 - 18th Street , Suite 300
Rock Island, IL 61201

Grantors:
Elkem Metals Company - Keokuk, L.P., a Delaware limited partnership
Grantees:
Carbide Lane Properties, LLC, an Iowa limited liability company

Legal Description: See Exhibit "A"

E-Sub

Book 085 Page 1051
Document 2008 1051 Type 03 011 Pages 4
Date 5/13/2008 Time 1:15 PM
Rec Amt $22.00 Aud Amt $10.00
Rev Transfer Tax $885.20
Rev Stamp# 114
LARRY HOLTKAMP, RECORDER
SOUTH LEE COUNTY, IA AT KEOKUK

SPECIAL WARRANTY DEED
Recorder's Cover Sheet

PREPARED BY:
Raymond D. Berger, Esquire
Berger & Buchmeyer
P.O. Box 76
Davenport, Iowa 52805
Phone: (563) 327-0130

TAXPAYER INFORMATION:
Carbide Lane Properties, LLC
1330 Niagra Falls BLVD. – Suite 207
Tonawanda, NY 14150

RETURN TO AFTER RECORDING:
Rock Island County Abstract
ATTN.: Bill Sharp / 88-122
211 – 18th Street, Suite 300
Rock Island, Illinois 61201

Grantor: **Elkem Metals Company - Keokuk, L.P.**, a Delaware limited partnership

Grantee: **Carbide Lane Properties, LLC**, an Iowa limited liability company

Legal Description: See Exhibit "A"

A Indexed ✓✓ Scanned ✓
D Scan Check ✓ Checked ✓
G Red Index ____ Notes ____

SPECIAL WARRANTY DEED

KNOW ALL MEN BY THESE PRESENTS THAT Elkem Metals Company - Keokuk, L.P., a Delaware limited partnership, with its principal office and place of business and address at Elkem Metals, Inc., Airport Office Park, Building 2, 400 Rouser Rd., Moon Township, PA 15108-2749 (the "Grantor"), for and in consideration of the sum of TEN AND NO/100 DOLLARS ($10.00) received of **Carbide Lane Properties, LLC**, an Iowa limited liability company, whose address is 1330 Niagra Falls BLVD. – Suite 207, Tonawanda, NY 14150 (the "Grantee"), does grant and convey, unto the said Grantee, and its successors, the premises, situated in the City of Keokuk, County of Lee, and State of Iowa, that is further described in Exhibit "A", together with all buildings and other improvements situated thereon, and described as follows:

SEE EXHIBIT "A" ATTACHED HERETO AND MADE A PART HEREOF

Property Address: 365 Carbide Lane, Keokuk, IA 52632-2047

SUBJECT TO any and all taxes and assessments for the year 2007 and subsequent years, and to any and all restrictions, reservations, covenants, conditions and easements of record, if any, zoning ordinances affecting the premises.

THIS CONVEYANCE IS UNDER AND SUBJECT TO the restriction that the premises herein conveyed shall not be used for the production or manufacture of Soderberg Electrode Paste and/or Electrically Calcined Antricite without the express prior written approval of the Grantor, which approval may be granted or withheld at Grantor's sole discretion. Grantee covenants that any written lease granted by Grantee encumbering the premises shall contain and be subject to the foregoing restriction. The foregoing restriction shall run with the land, shall be binding on Grantee, its heirs, successors and assigns, and shall inure to the benefit of Grantor, its heirs, successors and assigns. For the purposes hereof, the term "Grantee" shall be deemed to refer to Grantee, its heirs, successors and assigns, and the term "Grantor" shall be deemed to refer to Grantor, its heirs, successors and assigns.

If Grantee shall violate or attempt to violate the restriction set forth herein, Grantor shall be entitled to seek injunctive relief to enforce the provisions herein and shall have the right to seek damages and other means of redress permitted by law and, if successful in such action, Grantor shall be entitled to recover reasonable attorneys' fees and costs incurred therein.

The restriction set forth herein may only be amended, and any waivers of the restriction may only be approved, in writing signed by Grantor and Grantee. Any waiver or approval given by Grantor may be limited in time and scope and with other limitations as may be imposed by Grantor, in its sole discretion.

The Grantor does hereby covenant with and warrant to the Grantee that the Grantor is lawfully seized of the Property in fee simple; that the Grantor has good right and lawful authority to sell and convey the Property; and that the Grantor fully warrants the title to the Property and will defend the same against the lawful claims of all persons claiming by, through or under the Grantor, but against none other.

[Signatures on Next Page]

IN WITNESS WHEREOF, the Grantor has hereunto set its hand and seal this 9th day of MAY, 2008.

Signed and Delivered
In the presence of:

Name: Peter P. Vander Velde

Kimberly L Petrisko

Name: Kimberly L Petrisko

ELKEM METALS COMPANY - KEOKUK, L.P., a Delaware limited liability company

By:

Name: GEIR KVERNMO

Title: PRESIDENT

STATE OF PENNSYLVANIA
COUNTY OF ALLEGHENY

On this 7th day of MAY, 2008, before me, a Notary Public in and for said county, personally appeared GEIR KVERNMO, to me personally known, who being by me duly sworn did say that he/she is PRESIDENT of said **ELKEM METALS COMPANY - KEOKUK, L.P.**, a Delaware limited ~~liability company~~ partnership and that said instrument was signed on behalf of the said limited ~~liability company~~ partnership by authority of its board of directors, and the said PRESIDENT acknowledged the execution of said instrument to be the voluntary act and deed of said limited ~~liability company~~ partnership, by it voluntarily executed.

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Patricia M. Zyroll, Notary Public
Moon Twp., Allegheny County
My Commission Expires July 8, 2010
Member, Pennsylvania Association of Notaries

(NOTARY SEAL)

Notary Public, State of PENNSYLVANIA

Printed Name: PATRICIA M. ZYROLL
Notary Commission No. 1185982
My Commission Expires: JULY 8, 2010

Mail all Future Tax Statements and Receipts to:
Carbide Lane Properties, LLC
1330 Niagra Falls BLVD. – Suite 207
Tonawanda, NY 14150

EXHIBIT "A"

Legal Description

A tract comprised of Eighty and Seven-tenths (80.7) acres lying South of Carbide Lane and East of U.S. 61 By-Pass in the North Half (N 1/2) of the Northeast Quarter (NE 1/4) of Section Twenty-two (22) and the Northwest Quarter (NW 1/4) of the Northwest Quarter (NW 1/4) of Section Twenty-three (23), Township Sixty-five (65) North, Range Five (5) West of the Fifth Principal Meridian, City of Keokuk, Lee County, Iowa, described by the following metes and bounds:

Commencing at the Northeast corner of said Section 22; thence S89°36'W, 159.1 feet with the Section Line to the point of beginning; thence S00°24'E, 178.5 feet to the Southerly right of way line of Burlington Northern Spur Track #106; thence with said right of way the following courses and distances: Southeasterly 300.4 feet with a 772.9 foot radius curve concave Southwesterly and tangent to the following course: S51°49'E, 200.8 feet; and Southeasterly, 319 feet with an 806.5 foot radius curve concave Southwesterly and tangent to the proceeding course, to the north line of the Southwest 1/4, Northwest 1/4, Northwest 1/4, said Section 23; thence West, 421.4 feet to the East line of said Section 22; thence S00°19'E, 665.8 feet with the Section Line to the South line of the North 1/2, Northeast 1/4, said Section 22; thence N89°48'18"W, 2659.4 feet with the 1/4 1/4 Section Line to the Easterly right of way line of U.S. Highway 61 By-Pass; thence with said highway right of way line the following courses and distances: N04°21'E, 513.5 feet; N00°50'E, 750.0 feet and N83°58'E, 235.4 feet to the Southerly right of way line of Carbide Lane; thence S89°56'W, 277.7 feet with said right of way line to the West line of said Northeast 1/4, Section 22; thence N00°04'E, 18.1 feet to the North line of said Section 22; thence N89°36'E, 2487.00 feet with the Section Line to the point of beginning, excepting 1.6 acres along the North side for Carbide Lane right of way; Situated in the City of Keokuk, Lee County, Iowa

Also described as:

PART OF THE NORTH HALF OF THE NORTHEAST QUARTER OF SECTION 22 AND PART OF THE NORTHWEST QUARTER OF SECTION 23, ALL IN TOWNSHIP 65 NORTH, RANGE 5 WEST OF THE FIFTH PRINCIPAL MERIDIAN, LEE COUNTY, IOWA. BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID SECTION 22; THENCE S 88° 30' 41" W, ALONG THE NORTH LINE OF THE NORTHEAST QUARTER OF SAID SECTION 22, A DISTANCE OF 159.44 FEET; THENCE S 01° 31' 28" E, 32.59 FEET TO THE SOUTHERLY RIGHT-OF-WAY LINE OF CARBIDE LANE AND THE POINT OF BEGINNING; THENCE CONTINUING S 01° 31' 28" E, 148.77 FEET TO THE SOUTH RIGHT-OF-WAY LINE OF THE BURLINGTON NORTHERN & SANTA FE RAILROAD SPUR TRACK #106; THENCE ALONG SAID LINE ALONG A NON TANGENT CURVE TO THE RIGHT WHOSE RADIUS EQUALS 766.03 FEET, AN ARC LENGTH OF 226.78 FEET, WITH A LONG CHORD BEARING S 62° 03' 08" E, 225.96 FEET; THENCE CONTINUING ALONG SAID LINE S 53° 34' 14" E, 193.26 FEET; THENCE CONTINUING ALONG SAID LINE ALONG A TANGENT CURVE TO THE RIGHT WHOSE RADIUS EQUALS 859.86 FEET, AN ARC LENGTH OF 336.77 FEET, WITH A LONG CHORD BEARING S 42° 21' 01" E, 334.62 FEET; THENCE S 88° 34' 01" W 416.71 FEET; THENCE S 00° 46' 15" E, 663.92 FEET; THENCE S 88° 57' 41" W, ALONG THE SOUTH LINE OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION 22, A DISTANCE OF 1329.53 FEET; THENCE S 89° 06' 18" W, ALONG THE SOUTH LINE OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION 22, A DISTANCE OF 1315.15 FEET TO THE EASTERLY RIGHT-OF-WAY LINE OF U.S. ROUTE 61; THENCE N 03° 21' 44" E, ALONG SAID LINE, 514.65 FEET; THENCE N 00° 13' 09" E, ALONG SAID LINE, 749.86 FEET; THENCE N 83° 14' 32" E,

ALONG SAID LINE, 104.70 FEET TO THE SOUTHERLY RIGHT-OF-WAY LINE OF CARBIDE LANE; (THE FOLLOWING EIGHT COURSES ARE ALONG SAID RIGHT-OF-WAY LINE); THENCE S 01° 10' 44" E, 23.35 FEET; THENCE N 89° 15' 55" E, 129.91 FEET; THENCE N 01° 04' 01" W, 36.74 FEET; THENCE N 88° 50' 29" E, 1550.17 FEET; THENCE S 00° 56' 49" E, 27.00 FEET; THENCE N 88° 51' 34" E, 100.00 FEET; THENCE N 01° 09' 24" W, 27.03 FEET; THENCE N 88° 50' 36" E, 556.90 FEET TO THE POINT OF BEGINNING, CONTAINING 78.729 ACRES AND BEING SUBJECT TO THE EXISTING EASEMENTS AND RIGHT-OF-WAY AS SHOWN HEREON AND ALL OTHER EXISTING EASEMENTS AND RIGHTS OF WAY.

SPECIAL WARRANTY DEED
Recorder's Cover Sheet

NOTE: Exempt, consideration less than $500.00.

Preparer Information: Craig Slater, VP and General Counsel
Frontier Industrial Corp.
500 Seneca Street – Suite 504
Buffalo, NY 14204
716-845-6760

Taxpayer Information: 365 Carbide Lane, LLC
c/o Mercy Real Estate
405 S. Dale Mabry Hwy, #112
Tampa, FL 33609

Return Document To: 365 Carbide Lane, LLC
c/o Mercy Real Estate
405 S. Dale Mabry Hwy, #112
Tampa, FL 33609

Grantors: Carbide Lane Properties, LLC

Grantees: 365 Carbide Lane, LLC

Legal Description: See Page 5.

SPECIAL WARRANTY DEED

KNOW ALL MEN BY THESE PRESENTS THAT Carbide Lane Properties, LLC, a Limited Liability Company under the laws of New York, whose address is 500 Seneca Street, Suite 504, Buffalo, New York 14204 (the "Grantor"), for and in consideration of the sum of the sum of TEN AND NO/100 DOLLARS ($10.00) received of **365 Carbide Lane, LLC**, a Limited Liability Company under the laws of Delaware, 405 S. Dale Mabry Hwy, #112, Tampa, FL (the "Grantee"), does grant and convey unto the said Grantee, and its successors, the premises, situated in the City of Keokuk, County of Lee, and State of Iowa, that is further described in Exhibit "A", together with all buildings and other improvements situated thereon and described as follows:

SEE EXHIBIT "A" ATTACHED HERETO AND MADE A PART HEREOF

Property Address: 365 Carbide Lane, Keokuk, IA 52632-2047

SUBJECT TO any and all taxes and assessments for the year 2015 and subsequent years, and to any and all restrictions, reservations, covenants, conditions and easements of record, if any, zoning ordinances affecting the premises.

THIS CONVEYANCE IS UNDER AND SUBJECT TO the restriction that the premises herein conveyed shall not be used for the production or manufacture of Soderberg Electrode Paste and/or Electrically Calcined Antricite without the express prior written approval of the Grantor, which approval may be granted or withheld at Grantor's sole discretion. Grantee covenants that any written lease granted by Grantee encumbering the premises shall contain and be subject to the foregoing restriction. The foregoing restriction shall run with the land, shall be binding on Grantee, its heirs, successors and assigns, and shall inure to the benefit of Grantor, its heirs, successors and assigns. For the purpose hereof, the term "Grantee" shall be deemed to refer to Grantee, its heirs, successors and assigns, and the term "Grantor" shall be deemed to refer to Grantor, its heirs, successors and assigns.

If Grantee shall violate or attempt to violate the restriction set forth herein, Grantor shall be entitled to seek injunctive relief to enforce the provisions herein and shall have the right to seek damages and other means of redress permitted by law and, if successful in such action, Grantor shall be entitled to recover reasonable attorneys' fees and costs incurred therein.

The restriction set forth herein may only be amended, and any waivers of the restriction may only be approved, in writing signed by Grantor and Grantee. Any waiver or approval given by Grantor may be limited in time and scope and with other limitations as may be imposed by Grantor, in its sole discretion.

The Grantor does hereby covenant with and warrant to the Grantee that the Grantor is lawfully seized of the Property in fee simple; that the Grantor has good right and lawful authority to sell and convey the Property; and that the Grantor fully warrants the title to the Property and will defend the same against the lawful claims of all persons claiming by, through or under the Grantor, but against none other.

[Signatures on Next Page]

IN WITNESS WHEREOF, the Grantor has hereunto set its hand and seal this 8th day of September, 2015.

Signed and Delivered
In the presence of:

Name: Dennis M. Franjoine

Name: Emily E. Slater

CARBIDE LANE PROPERTIES, LLC,
an Iowa limited liability company

By: _____

Name: David P. Franjoine
Title: Managing Member

State of New York)
County of Erie) ss.:

On this 8th day of September in the year 2015 before me the undersigned, personally appeared David P. Franjoine, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me the he/she executed the same in his/her capacity and that by his/her signature on the instrument, the individual, or the person upon behalf of the individual acted, executed the instrument.

Notary Public, State of New York

CRAIG A. SLATER
Notary Public, State of New York
Qualified in Erie County
Commission Expires October 31, 2018

EXHIBIT A

Property Legal Description

A tract comprised of Eighty and Seven-tenths (80.7) acres lying South of Carbide Land and East of U.S. 61 By-Pass in the North Half (N ½) of the Northeast Quarter (NE ¼) of Section Twenty-two (22) and the Northwest Quarter (NW ¼) of the Northwest Quarter (NW ¼) of Section Twenty-three (23), Township Sixty-five (65) North, Range Five (5) West of the Fifth Principal Meridian, City of Keokuk, Lee County, Iowa, described by the following metes and bounds:

Commencing at the Northeast corner of said Section 22; thence S89°36'W, 159.1 feet with the Section Line to the point of beginning; thence S00°24'E, 178.5 feet to the Southerly right of way line of Burlington Northern Spur Track #106; thence with said right of way the following courses and distances: Southeasterly 300.4 feet with a 772.9 foot radius curve concave Southwesterly and tangent to the following course: S51°46'E, 200.8 feet; and Southeasterly, 319 feet with an 806.5 foot radius curve concave Southwesterly and tangent to the proceeding course, to the north line of the Southwest ¼, Northwest ¼, Northwest ¼, said Section 23; thence West, 421.4 feet to the East line of said Section 22; thence S00°19'E, 665.8 feet with the Section Line to the South line of the North ½, Northeast ¼, said Section 22; thence N89°48'18"W, 2659.4 feet with the ¼ ¼ Section Line to the Easterly right of way line of U.S. Highway 61 By-Pass; thence with said highway right of way line the following courses and distances: N04°21'E, 513.5 feet; N00°50'E, 750.0 feet and N83°58'E, 235.4 feet to the Southerly right of way line of Carbide Lane; thence S89°56'W, 277.7 feet with said Section 22; thence N89°36'E, 2487.00 feet with the Section Line to the point of beginning, excepting 1.6 acres along the North side for Carbide Lane right of way; Situated in the City of Keokuk, Lee County, Iowa.

Also described as:

Part of the North Half of the Northeast Quarter of Section 22 and part of the Northwest Quarter of Section 23, All in Township 65 North, Range 5 West of the Fifth Principal Meridian, Lee County, Iowa. Being more particularly described as follows:

Commencing at the Northeast Corner of said Section 22; thence S 88° 30' 41" W, along the North Line of the Northeast Quarter of said Section 22, a distance of 159.44 feet; thence S 01° 31' 28" E, 32.59 feet to the Southerly right of way line of Carbide Lane and the Point of Beginning; thence continuing S 01° 31' 28" E, 148.77 feet to the South right-of-way line of the Burlington Northern and Santa Fe Railroad Spur Track #106; thence along said line along a non tangent curve to the right whose radius equals 766.03 feet, an arc length of 226.78 feet, with a long chord bearing S 62° 03' 08" E, 225.96 feet; thence continuing along said line S 53° 34' 14" E, 193.26 Feet; thence continuing along said line along a tangent curve to the right whose radius equals 859.86 feet; thence S 88° 34' 01" W, 416.71 feet; thence S 00° 46' 15" E, 663.92 feet; thence S 88° 57' 41" W, along the South Line of the Northeast Quarter of the Northeast Quarter of said Section 22, a distance of 1329.53 feet; thence S 89° 06' 18" W, along the South Line of the Northwest Quarter of the Northeast Quarter of said Section 22, a distance of 1315.15 feet to the Easterly right of way line of U.S. Route 61; thence N 03° 21' 44" E, along said line, 514.65 feet; thence N 00° 13' 09" E, along said line, 749.86 feet; thence N 83° 14' 32" E, along said line 104.70 feet to the Southerly right of way line of Carbide Lane; (The following eight courses are along said right-of-way line); thence S 01° 10' 44" E, 23.35 feet; thence N 89° 15' 55" E, 129.91 feet; thence N 01° 04' 01" W, 36.74 feet; thence N 88° 50' 29" E, 1550.17 feet; thence S 00° 56' 49" E, 27.00 feet; thence N 88° 51' 34" E, 100.00 feet; thence N 00° 09' 24" W, 27.03 feet; thence N 88° 50' 36" E, 556.90 feet to the Point of Beginning, containing 78.729 acres and being subject to the existing Easements and Right-of-Way as shown hereon and all other existing Easements and Rights of Way.

BK: 2015 PG: 4565
Instrument Number: 4565
Recorded: 10/9/2015 at 11:14:30.0 AM
Fee Amount: $37.00
Revenue Tax: $0.00
Nancy Booten RECORDER
Lee County, Iowa

RE-RECORDED SPECIAL WARRANTY DEED

Recorder's Cover Sheet

NOTE: Exempt, consideration less than $500.00.

THIS DEED IS BEING RE-RECORDED TO CORRECT THE LEGAL.

Preparer Information: Craig Slater, VP and General Counsel
Frontier Industrial Corp.
500 Seneca Street – Suite 504
Buffalo, NY 14204
716-845-6760

Taxpayer Information: 365 Carbide Lane, LLC
c/o Mercy Real Estate
405 S. Dale Mabry Hwy, #112
Tampa, FL 33609

Return Document To: 365 Carbide Lane, LLC
c/o Mercy Real Estate
405 S. Dale Mabry Hwy, #112
Tampa, FL 33609

Grantors: Carbide Lane Properties, LLC

Grantees: 365 Carbide Lane, LLC

Legal Description: See Page 5.

Associated Documents: Special Warranty Deed recorded 09-11-15 @ 12:20 PM in Book 2015 at Page 4071

BK: 2015 PG: 4071
Instrument Number: 4071
Recorded: 9/11/2015 at 12:20:54.0 PM
Fee Amount: $37.00
Revenue Tax: $0.00
Nancy Booten RECORDER
Lee County, Iowa

SPECIAL WARRANTY DEED

Recorder's Cover Sheet

NOTE: **Exempt, consideration less than $500.00.**

Preparer Information: Craig Slater, VP and General Counsel
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500 Seneca Street – Suite 504
Buffalo, NY 14204
716-845-6760

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Grantees: 365 Carbide Lane, LLC

Legal Description: See Page 5.

SPECIAL WARRANTY DEED

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[Signatures on Next Page]

IN WITNESS WHEREOF, the Grantor has hereunto set its hand and seal this 8th day of September, 2015.

Signed and Delivered
In the presence of:

Name: Dennis M. Franjoine

Name: Emily E. Slater

CARBIDE LANE PROPERTIES, LLC,
an Iowa limited liability company

By: _____

Name: David P. Franjoine
Title: Managing Member

State of New York)
County of Eric) ss.:

On this 8th day of September in the year 2015 before me the undersigned, personally appeared David P. Franjoine, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me the he/she executed the same in his/her capacity and that by his/her signature on the instrument, the individual, or the person upon behalf of the individual acted, executed the instrument.

Notary Public, State of New York

CRAIG A. SLATER
Notary Public, State of New York
Qualified in Erie County
Commission Expires October 31, 2018

EXHIBIT A

Property Legal Description

PROPERTY LEGAL DESCRIPTION

A tract comprised of Eighty and Seven-tenths (80.7) acres lying South of Carbide Lane and East of U.S. 61 By-Pass in the North Half (N 1/2) of the Northeast Quarter (NE 1/4) of Section Twenty-two (22) and the Northwest Quarter (NW 1/4) of the Northwest Quarter (NW 1/4) of Section Twenty-three (23), Township Sixty-five (65) North, Range Five (5) West of the Fifth Principal Meridian, City of Keokuk, Lee County. Iowa, described by the following metes and bounds:

Commencing at the Northeast corner of said Section 22; thence S89°36'W, 159.1 feet with the Section Line to the point of beginning; thence S00°24'E, 178.5 feet to the Southerly right of way line of Burlington Northern Spur Track #106; thence with said right of way the following courses and distances: Southeasterly 300.4 feet with a 772.9 foot radius curve concave Southwesterly and tangent to the following course: S51°49'E, 200.8 feet; and Southeasterly, 319 feet with an 806.5 foot radius curve concave Southwesterly and tangent to the proceeding course, to the north line of the Southwest 1/4, Northwest 1/4, Northwest 1/4, said Section 23; thence West, 421.4 feet to the East line of said Section 22; thence S00°19'E, 665.8 feet with the Section Line to the South line of the North 1/2, Northeast 1/4, said Section 22; thence N89°48'18"W, 2659.4 feet with the 1/4 1/4 Section Line to the Easterly right of way line of U.S. Highway 61 By-Pass; thence with said highway right of way line the following courses and distances: N04°21'E, 513.5 feet; N00°50'E, 750.0 feet and N83°58'E, 235.4 feet to the Southerly right of way line of Carbide Lane; thence S89°56'W, 277.7 feet with said right of way line to the West line of said Northeast 1/4, Section 22; thence N00°04'E, 18.1 feet to the North line of said Section 22; thence N89°36'E. 2487.00 feet with the Section Line to the point of beginning, excepting 1.6 acres along the North side for Carbide Lane right of way; Situated in the City of Keokuk, Lee County, Iowa

Also described as:

PART OF THE NORTH HALF OF THE NORTHEAST QUARTER OF SECTION 22 AND PART OF THE NORTHWEST QUARTER OF SECTION 23, ALL IN TOWNSHIP 65 NORTH, RANGE 5 WEST OF THE FIFTH PRINCIPAL MERIDIAN, LEE COUNTY, IOWA. BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID SECTION 22; THENCE S 88° 30' 41" W, ALONG THE NORTH LINE OF THE NORTHEAST QUARTER OF SAID SECTION 22, A DISTANCE OF 159.44 FEET; THENCE S 01° 31' 28" E, 32.59 FEET TO THE SOUTHERLY RIGHT-OF-WAY LINE OF CARBIDE LANE AND THE POINT OF BEGINNING; THENCE CONTINUING S 01° 31' 28" E, 148.77 FEET TO THE SOUTH RIGHT-OF-WAY LINE OF THE BURLINGTON NORTHERN & SANTA FE RAILROAD SPUR TRACK #106; THENCE ALONG SAID LINE ALONG A NON TANGENT CURVE TO THE RIGHT WHOSE RADIUS EQUALS 766.03 FEET, AN ARC LENGTH OF 226.78 FEET, WITH A LONG CHORD BEARING S 62° 03' 08" E, 225.96 FEET; THENCE CONTINUING ALONG SAID LINE S 53° 34' 14" E, 193.26 FEET; THENCE CONTINUING ALONG SAID LINE ALONG A TANGENT CURVE TO THE RIGHT WHOSE RADIUS EQUALS 859.86 FEET, AN ARC LENGTH OF 336.77 FEET, WITH A LONG CHORD BEARING S 42° 21' 01" E, 334.62 FEET; THENCE S 88° 34' 01" W, 416.71 FEET; THENCE S 00° 46' 15" E, 663.92 FEET; THENCE S 88° 57' 41" W, ALONG THE SOUTH LINE OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION 22, A DISTANCE OF 1329.53 FEET; THENCE S 89° 06' 18" W, ALONG THE SOUTH LINE OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION 22, A DISTANCE OF 1315.15 FEET TO THE EASTERLY RIGHT-OF-WAY LINE OF U.S. ROUTE 61; THENCE N 03° 21' 44" E, ALONG SAID LINE. 514.65 FEET; THENCE N 00° 13' 09" E, ALONG SAID LINE, 749.86 FEET; THENCE N 83° 14' 32" E, ALONG SAID LINE, 104.70 FEET TO THE SOUTHERLY RIGHT-OF-WAY LINE OF CARBIDE LANE; (THE FOLLOWING EIGHT COURSES ARE ALONG SAID RIGHT-OF-WAY LINE); THENCE S 01° 10' 44" E, 23.35 FEET; THENCE N 89° 15' 55" E, 129.91 FEET; THENCE N 01° 04' 01" W, 36.74 FEET; THENCE N 88° 50' 29" E, 1550.17 FEET; THENCE S 00° 56' 49" E, 27.00 FEET; THENCE N 88° 51' 34" E, 100.00 FEET; THENCE N 01° 09' 24" W, 27.03 FEET; THENCE N 88° 50' 36" E, 556.90 FEET TO THE POINT OF BEGINNING, CONTAINING 78.729 ACRES AND BEING SUBJECT TO THE EXISTING EASEMENTS AND RIGHT-OF-WAY AS SHOWN HEREON AND ALL OTHER EXISTING EASEMENTS AND RIGHTS OF WAY.

APPENDIX D

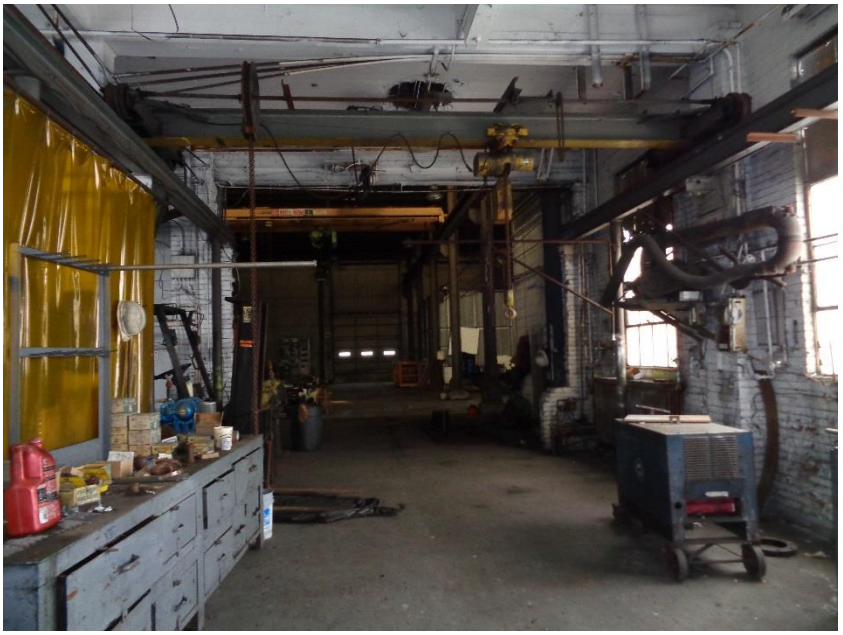
SITE PHOTOGRAPHS

Elkem Carbide
Keokuk, Iowa

TETRA TECH PROJECT NO. X9025.14.0002.019017	DESCRIPTION	This photograph shows possible lead-based paint and a drinking fountain in building #3.	1
	CLIENT	Environmental Protection Agency - Region 7	DATE 02/08/2016
	PHOTOGRAPHER	Kaitlyn Bahr	

TETRA TECH PROJECT NO. X9025.14.0002.019017	DESCRIPTION	This photograph shows the former location of the tar pitch tanks. Staining was observed on the concrete in this area.	2
	CLIENT	Environmental Protection Agency - Region 7	DATE 02/08/2016
	PHOTOGRAPHER	Kaitlyn Bahr	

Elkem Carbide
Keokuk, Iowa



TETRA TECH PROJECT NO. X9025.14.0002.019017	DESCRIPTION	This photograph shows a motor-driven hoist in building #6.	3
	CLIENT	Environmental Protection Agency - Region 7	DATE 02/08/2016
	PHOTOGRAPHER	Kaitlyn Bahr	

TETRA TECH PROJECT NO. X9025.14.0002.019017	DESCRIPTION	This photograph shows x-ray equipment in building #3.	4
	CLIENT	Environmental Protection Agency - Region 7	DATE 02/08/2016
	PHOTOGRAPHER	Kaitlyn Bahr	

Elkem Carbide
Keokuk, Iowa

TETRA TECH PROJECT NO. X9025.14.0002.019017	DESCRIPTION	This photograph shows flooding in the basement of building #6. A sheen, as well as floating debris, was observed on the water.	5
	CLIENT	Environmental Protection Agency - Region 7	DATE 02/08/2016
	PHOTOGRAPHER	Kaitlyn Bahr	

TETRA TECH PROJECT NO. X9025.14.0002.019017	DESCRIPTION	This photograph shows several containers of oil in building #6. Evidence of leaking/staining was observed around the containers.	6
	CLIENT	Environmental Protection Agency - Region 7	DATE 02/08/2016
	PHOTOGRAPHER	Kaitlyn Bahr	

Elkem Carbide
Keokuk, Iowa

TETRA TECH PROJECT NO. X9025.14.0002.019017	DESCRIPTION	This photograph shows the diesel aboveground storage tank (AST) in a concrete containment area south of building #3.	7
	CLIENT	Environmental Protection Agency - Region 7	DATE 02/08/2016
	PHOTOGRAPHER	Kaitlyn Bahr	

TETRA TECH PROJECT NO. X9025.14.0002.019017	DESCRIPTION	This photograph shows the pile of solid waste, primarily building materials.	8
	CLIENT	Environmental Protection Agency - Region 7	DATE 02/08/2016
	PHOTOGRAPHER	Kaitlyn Bahr	

Elkem Carbide
Keokuk, Iowa

TETRA TECH PROJECT NO. X9025.14.0002.019017	DESCRIPTION	This photograph shows a pile of fire extinguishers found in building #2.	9
	CLIENT	Environmental Protection Agency - Region 7	DATE 02/08/2016
	PHOTOGRAPHER	Kaitlyn Bahr	

TETRA TECH PROJECT NO. X9025.14.0002.019017	DESCRIPTION	This photograph shows the interior of building #1. Several potential asbestos-containing building materials were identified inside the building.	10
	CLIENT	Environmental Protection Agency - Region 7	DATE 02/08/2016
	PHOTOGRAPHER	Kaitlyn Bahr	

Elkem Carbide
Keokuk, Iowa

TETRA TECH PROJECT NO. X9025.14.0002.019017	DESCRIPTION	This photograph shows staining outside building #2.	11
	CLIENT	Environmental Protection Agency - Region 7	DATE 02/08/2016
	PHOTOGRAPHER	Kaitlyn Bahr	

TETRA TECH PROJECT NO. X9025.14.0002.019017	DESCRIPTION	This photograph shows paint containers in building #3. Numerous paint containers were observed throughout the buildings.	12
	CLIENT	Environmental Protection Agency - Region 7	DATE 02/08/2016
	PHOTOGRAPHER	Kaitlyn Bahr	

Elkem Carbide
Keokuk, Iowa

TETRA TECH PROJECT NO. X9025.14.0002.019017	DESCRIPTION	This photograph shows a large stain near a trench drain on the floor of building #6.	13
	CLIENT	Environmental Protection Agency - Region 7	DATE 02/08/2016
	PHOTOGRAPHER	Kaitlyn Bahr	

TETRA TECH PROJECT NO. X9025.14.0002.019017	DESCRIPTION	This photograph shows flooding in the basement of building #3.	14
	CLIENT	Environmental Protection Agency - Region 7	DATE 02/08/2016
	PHOTOGRAPHER	Kaitlyn Bahr	

Elkem Carbide
Keokuk, Iowa

TETRA TECH PROJECT NO. X9025.14.0002.019017	DESCRIPTION	This photograph shows one of several drains throughout the subject property.	15
	CLIENT	Environmental Protection Agency - Region 7	DATE 02/08/2016
	PHOTOGRAPHER	Kaitlyn Bahr	

TETRA TECH PROJECT NO. X9025.14.0002.019017	DESCRIPTION	This photograph shows the active railroad line on the subject property.	16
	CLIENT	Environmental Protection Agency - Region 7	DATE 02/08/2016
	PHOTOGRAPHER	Rob Monnig	

Elkem Carbide
Keokuk, Iowa

TETRA TECH PROJECT NO. X9025.14.0002.019017	DESCRIPTION	This photograph shows the polyethylene AST containing hydrochloric acid in the acid treatment shed near the eastern boundary of the subject property.	17
	CLIENT	Environmental Protection Agency - Region 7	DATE 02/08/2016
	PHOTOGRAPHER	Rob Monnig	

TETRA TECH PROJECT NO. X9025.14.0002.019017	DESCRIPTION	This photograph shows sedimentation in Soap Creek near the drainage area from the acid treatment shed.	18
	CLIENT	Environmental Protection Agency - Region 7	DATE 02/08/2016
	PHOTOGRAPHER	Rob Monnig	

Elkem Carbide
Keokuk, Iowa

TETRA TECH PROJECT NO. X9025.14.0002.019017	DESCRIPTION	This photograph shows Newberry Towing Recovery & Auto Salvage adjacent to the subject property to the southeast.	19
	CLIENT	Environmental Protection Agency - Region 7	DATE 02/08/2016
	PHOTOGRAPHER	Rob Monnig	

TETRA TECH PROJECT NO. X9025.14.0002.019017	DESCRIPTION	This photograph shows a pile of building debris within the wooded area in the northwest portion of the subject property.	20
	CLIENT	Environmental Protection Agency - Region 7	DATE 02/08/2016
	PHOTOGRAPHER	Rob Monnig	

Elkem Carbide
Keokuk, Iowa

TETRA TECH PROJECT NO. X9025.14.0002.019017	DESCRIPTION	This photograph shows the former landfill area on the eastern portion of the subject property.	21
	CLIENT	Environmental Protection Agency - Region 7	DATE 02/08/2016
	PHOTOGRAPHER	Rob Monnig	

TETRA TECH PROJECT NO. X9025.14.0002.019017	DESCRIPTION	This photograph shows Amsted Rail Co. on the north side of Carbide Lane north of the subject property.	22
	CLIENT	Environmental Protection Agency - Region 7	DATE 02/08/2016
	PHOTOGRAPHER	Kaitlyn Bahr	

APPENDIX E

INTERVIEW DOCUMENTATION AND USER-PROVIDED INFORMATION

TETRA TECH

CALL LOG

Recorded By:	Joann Jeplawy
Contact Name:	Gabe Rose – Keokuk Fire Chief
Phone Number:	319-524-5225

Date	Time	Notes
2/15/16	2:15PM	left message
2/17/16	2:45PM	left message
2/24/16	11:30AM	Mr. Rose called to say that he did not locate any records regarding the subject property.

Tetra Tech Inc.
415 Oak Street, Kansas City, Missouri 64106
Tel 816-412-1742 Fax 816-410-1748 tetratech.com

TETRA TECH

CALL LOG

Recorded By:	Joann Jeplawy
Contact Name:	Jerry Hamilton
Phone Number:	319-524-5639 (home) 319-520-6956 (cell)

Date	Time	Notes
2/15/16	10:30AM	could not reach him on cell
2/15/16	10:35AM	interviewed Jerry regarding historical operations on the Elkem Carbide subject property

Tetra Tech Inc.
415 Oak Street, Kansas City, Missouri 64106
Tel 816-412-1742 Fax 816-410-1748 tetratech.com

APPENDIX F

EDR RADIUS MAP WITH GEOCHECK AND VAPOR ENCROACHMENT SCREEN

Elkem Carbide
365 Carbide Lane
Keokuk, IA 52632

Inquiry Number: 4513291.2s
January 14, 2016

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

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

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GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
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Physical Setting Source Records Searched	PSGR-1

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

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EXECUTIVE SUMMARY

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

TARGET PROPERTY INFORMATION

ADDRESS

365 CARBIDE LANE
KEOKUK, IA 52632

COORDINATES

Latitude (North):	40.4213000 - 40° 25' 16.68''
Longitude (West):	91.4209000 - 91° 25' 15.24''
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	633965.8
UTM Y (Meters):	4475505.5
Elevation:	660 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5941653 KEOKUK, IA
Version Date:	2013

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20110807, 20120618, 20110720
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
365 CARBIDE LANE
KEOKUK, IA 52632

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	ELKEM CARBON KEOKUK	365 CARBIDE LANE	ICIS, FINDS		TP
A2	MIDWEST CARBIDE CORP	365 CARBIDE LN RD	CERCLIS-NFRAP		TP
A3	MIDWEST CARBIDE CORP	365 CARBIDE RD	FTTS, HIST FTTS		TP
A4	ELKEM CARBON - KEOKU	365 CARBIDE LANE RD	CORRACTS, RCRA NonGen / NLR, RAATS		TP
A5		365 CARBIDE LANE, KE	MO SPILLS		TP
A6		MIDWEST CARBIDE, 365	IA SPILLS		TP
A7		365 CARBIDE LN	ERNS		TP
A8	MIDWEST CARBIDE CORP	CARBIDE LANE	IA UST	Lower	1 ft.
B9	AMSTED RAIL CO. INC.	416 CARBIDE LANE	IA SWF/LF, IA AIRS, IA TIER 2	Higher	45, 0.009, WNW
B10	AMSTED RAIL CO INC	416 CARBIDE LN	RCRA-LQG, TRIS, US AIRS	Higher	45, 0.009, WNW
A11	ELKEM METALS, KEOKUK	356 CARBIDE LANE	IA ALLSITES	Lower	98, 0.019, NNE
12	KEOKUK FERRO-SIL, IN		IA SWF/LF	Lower	174, 0.033, West
13	PRYOR TRUCKING INC	1304 S NAVAJO DR	IA LUST, IA UST	Lower	412, 0.078, East
14	CASEY'S GENERAL STOR	3531 MAIN ST	IA LUST, IA UST, IA Financial Assurance	Higher	1720, 0.326, ENE
C15	TRELLEX MORSE - KEOK	3588 MAIN ST	CERCLIS-NFRAP, RCRA-CESQG, IA UST, US AIRS	Lower	1798, 0.341, ENE
C16	TRELLEX MORSE	3588 MAIN STREET	IA ALLSITES, IA AIRS	Lower	1798, 0.341, ENE
D17	STONE CONTAINER CORP	3972 MAIN ST RD	IA LUST, IA UST	Higher	2169, 0.411, NE
D18	KAST METALS CORPORAT	240 ROYAL RD	CERCLIS-NFRAP, RCRA-CESQG, RAATS, WI MANIFEST	Higher	2169, 0.411, NE
D19	KEOKUK STEEL CASTING		IA ALLSITES	Higher	2169, 0.411, NE
D20	FRANK MILLARD & CO.,	3763 MAIN STREET ROA	IA SWF/LF	Higher	2348, 0.445, NE
21	SHELLER-GLOBE CORP -	3200 MAIN ST	CERCLIS-NFRAP, CORRACTS, RCRA-TSDF, RCRA-SQG, US.	Higher	3318, 0.628, ESE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
ELKEM CARBON KEOKUK 365 CARBIDE LANE KEOKUK, IA 52632	ICIS FRS ID:: 110013331992 FINDS Registry ID:: 110013331992	N/A
MIDWEST CARBIDE CORP 365 CARBIDE LN RD KEOKUK, IA 52632	CERCLIS-NFRAP Site ID: 0700084 EPA Id: IAD005267588	IAD005267588
MIDWEST CARBIDE CORP 365 CARBIDE RD KEOKUK, IA 52632	FTTS HIST FTTS	N/A
ELKEM CARBON - KEOKU 365 CARBIDE LANE RD KEOKUK, IA 52632	CORRACTS EPA ID:: IAD005267588 RCRA NonGen / NLR EPA ID:: IAD005267588 RAATS Status: 02 Facility ID: IAD005267588	IAD005267588
365 CARBIDE LANE, KE 365 CARBIDE LANE, KE KEOKUK, MO	MO SPILLS Facility Id: 0012211553MDO Spill Number: 0012211553MDO	N/A
MIDWEST CARBIDE, 365 MIDWEST CARBIDE, 365 KEOKUK, IA	IA SPILLS Facility Id: 122100-DLP-1505	N/A
365 CARBIDE LN 365 CARBIDE LN KEOKUK, IA 0	ERNS EDR ID:: 551647	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

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

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

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

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US INST CONTROL ---------- Sites with Institutional Controls

State- and tribal - equivalent CERCLIS

IA SHWS ---------- Registry of Hazardous Waste or Hazardous Substance Disposal Sites

State and tribal leaking storage tank lists

IA LAST ---------- Leaking Aboveground Storage Tank Sites
INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
IA AST ---------- Aboveground Storage Tank Sites
INDIAN UST ---------- Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

IA INST CONTROL ---------- Sites with Institutional Controls

State and tribal voluntary cleanup sites

IA VCP ---------- Land Recycling Program Sites
INDIAN VCP ---------- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

IA BROWNFIELDS ---------- Brownfields Site Listing

EXECUTIVE SUMMARY

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

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ..... National Clandestine Laboratory Register
IA DEL SHWS ..... Delisted Contaminated Sites Listing
US CDL ..... Clandestine Drug Labs

Local Land Records

IA LIENS ..... Liens Filed Listing
LIENS 2 ..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System
IA SPILLS 90 ..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS ..... Formerly Used Defense Sites
DOD ..... Department of Defense Sites
SCRD DRYCLEANERS ..... State Coalition for Remediation of Drycleaners Listing
EPA WATCH LIST ..... EPA WATCH LIST
TSCA ..... Toxic Substances Control Act
SSTS ..... Section 7 Tracking Systems
ROD ..... Records Of Decision
RMP ..... Risk Management Plans
PADS ..... PCB Activity Database System
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
DOT OPS ..... Incident and Accident Data
CONSENT ..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV ..... Indian Reservations
UMTRA ..... Uranium Mill Tailings Sites
LEAD SMELTERS ..... Lead Smelter Sites
US MINES ..... Mines Master Index File
IA COAL ASH ..... Coal Ash Disposal Site Listing
IA DRYCLEANERS ..... Iowa Drycleaner List
IA NPDES ..... List of NPDES Permittees

EXECUTIVE SUMMARY

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP---------- EDR Proprietary Manufactured Gas Plants
EDR Hist Auto---------- EDR Exclusive Historic Gas Stations
EDR Hist Cleaner---------- EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

IA RGA HWS---------- Recovered Government Archive State Hazardous Waste Facilities List
IA 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

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

A review of the CERCLIS-NFRAP list, as provided by EDR, and dated 10/25/2013 has revealed that there are 2 CERCLIS-NFRAP sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KAST METALS CORPORAT	***240 ROYAL RD***	***NE 1/4 - 1/2 (0.411 mi.)***	***D18***	***143***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
TRELLEX MORSE - KEOK	***3588 MAIN ST***	***ENE 1/4 - 1/2 (0.341 mi.)***	***C15***	***102***

EXECUTIVE SUMMARY

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 06/09/2015 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SHELLER-GLOBE CORP -	***3200 MAIN ST***	***ESE 1/2 - 1 (0.628 mi.)***	***21***	***164***

Federal RCRA generators list

RCRA-LQG: 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.

A review of the RCRA-LQG list, as provided by EDR, and dated 06/09/2015 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMSTED RAIL CO INC	***416 CARBIDE LN***	***WNW 0 - 1/8 (0.009 mi.)***	***B10***	***54***

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

IA 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 Natural Resources' Permitted Solid Waste Management Facilities list.

A review of the IA SWF/LF list, as provided by EDR, and dated 09/08/2015 has revealed that there are 3 IA SWF/LF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMSTED RAIL CO. INC. Facility Id: 56-SDP-15-89 Permit Stage: Operation Permit	***416 CARBIDE LANE***	***WNW 0 - 1/8 (0.009 mi.)***	***B9***	***28***
FRANK MILLARD & CO., Facility Id: 56-ADP-04-06 Permit Stage: Rescission	3763 MAIN STREET ROA	NE 1/4 - 1/2 (0.445 mi.)	D20	163

Lower Elevation	Address	Direction / Distance	Map ID	Page
KEOKUK FERRO-SIL, IN Facility Id: 56-SDP-17-91		W 0 - 1/8 (0.033 mi.)	12	96

Permit Stage: Closure

State and tribal leaking storage tank lists

IA LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Natural Resources' Underground Storage Tank Data list.

A review of the IA LUST list, as provided by EDR, and dated 09/08/2015 has revealed that there are 3 IA LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CASEY'S GENERAL STOR Facility Id: 6204	***3531 MAIN ST***	***ENE 1/4 - 1/2 (0.326 mi.)***	***14***	***101***
STONE CONTAINER CORP Facility Id: 4490 Leak Status: Stopped	***3972 MAIN ST RD***	***NE 1/4 - 1/2 (0.411 mi.)***	***D17***	***138***

Lower Elevation	Address	Direction / Distance	Map ID	Page
PRYOR TRUCKING INC Facility Id: 2473 Leak Status: Unknown	***1304 S NAVAJO DR***	***E 0 - 1/8 (0.078 mi.)***	***13***	***97***

State and tribal registered storage tank lists

IA 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 Natural Resources' Underground Storage Tank Data list.

A review of the IA UST list, as provided by EDR, and dated 09/08/2015 has revealed that there are 2 IA UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MIDWEST CARBIDE CORP Facility Id: 2711 Registration: 198602182	CARBIDE LANE	0 - 1/8 (0.000 mi.)	A8	27
PRYOR TRUCKING INC Facility Id: 5629 Registration: 198605275	***1304 S NAVAJO DR***	***E 0 - 1/8 (0.078 mi.)***	***13***	***97***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

EXECUTIVE SUMMARY

IA ALLSITES: All the sites included in the Contaminated Sites Tracking Database. The database includes several regulatory complinace programs and actions.

A review of the IA ALLSITES list, as provided by EDR, and dated 11/04/2015 has revealed that there are 3 IA ALLSITES sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KEOKUK STEEL CASTING Status: Closed Site Id Number: 1851		NE 1/4 - 1/2 (0.411 mi.)	D19	163

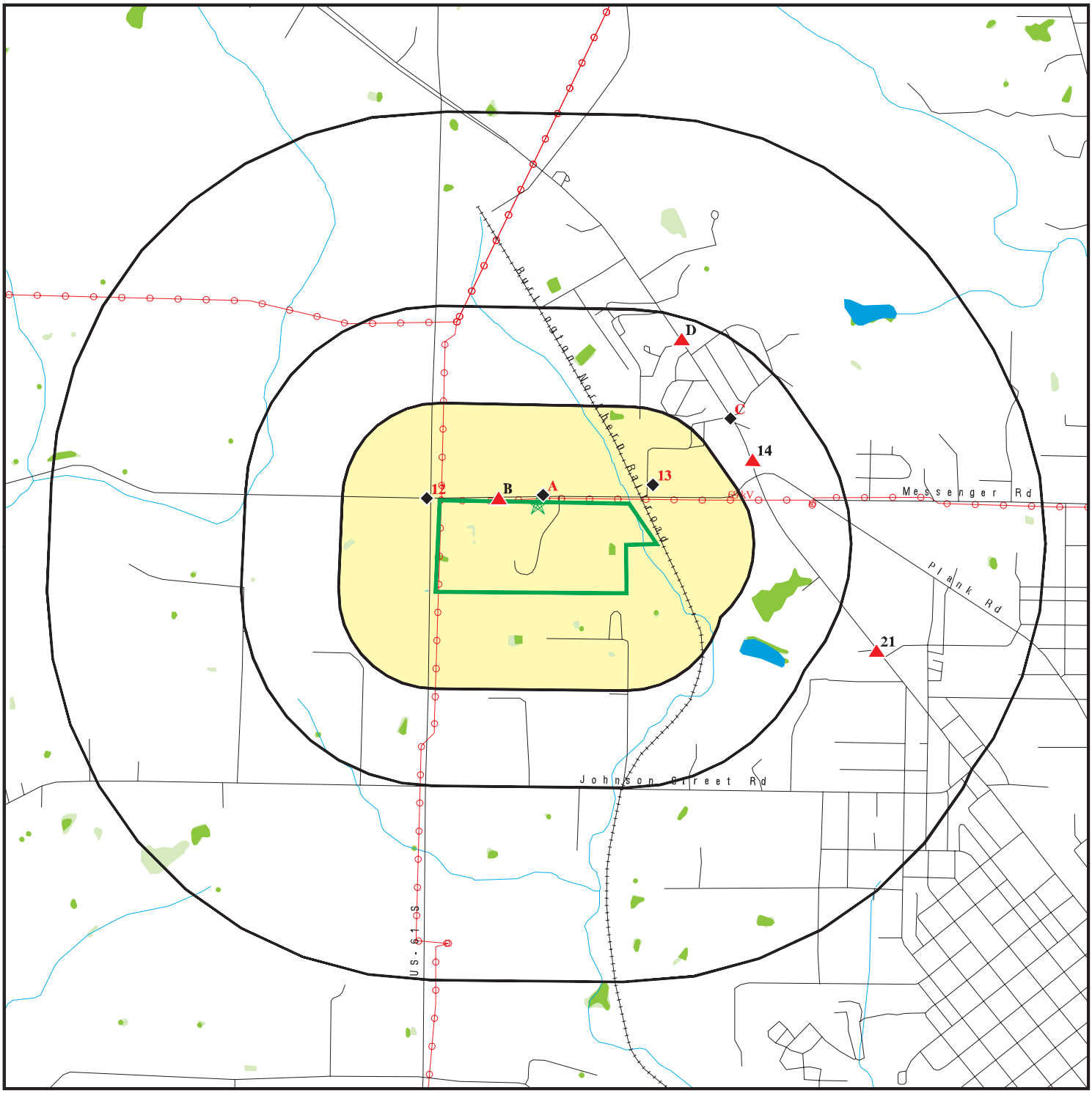
Lower Elevation	Address	Direction / Distance	Map ID	Page
ELKEM METALS, KEOKUK Status: Closed Site Id Number: 1440	356 CARBIDE LANE	NNE 0 - 1/8 (0.019 mi.)	A11	95
TRELLEX MORSE Status: Open Site Id Number: 508	***3588 MAIN STREET***	***ENE 1/4 - 1/2 (0.341 mi.)***	***C16***	***138***

EXECUTIVE SUMMARY

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

Site Name	Database(s)
CARBIDE	PCB TRANSFORMER

OVERVIEW MAP - 4513291.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- National Wetland Inventory
- State Wetlands

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: Elkem Carbide ADDRESS: 365 Carbide Lane Keokuk IA 52632 LAT/LONG: 40.4213 / 91.4209	CLIENT: Tetra Tech EMI CONTACT: Joann Jeplawy INQUIRY #: 4513291.2s DATE: January 14, 2016 1:55 pm

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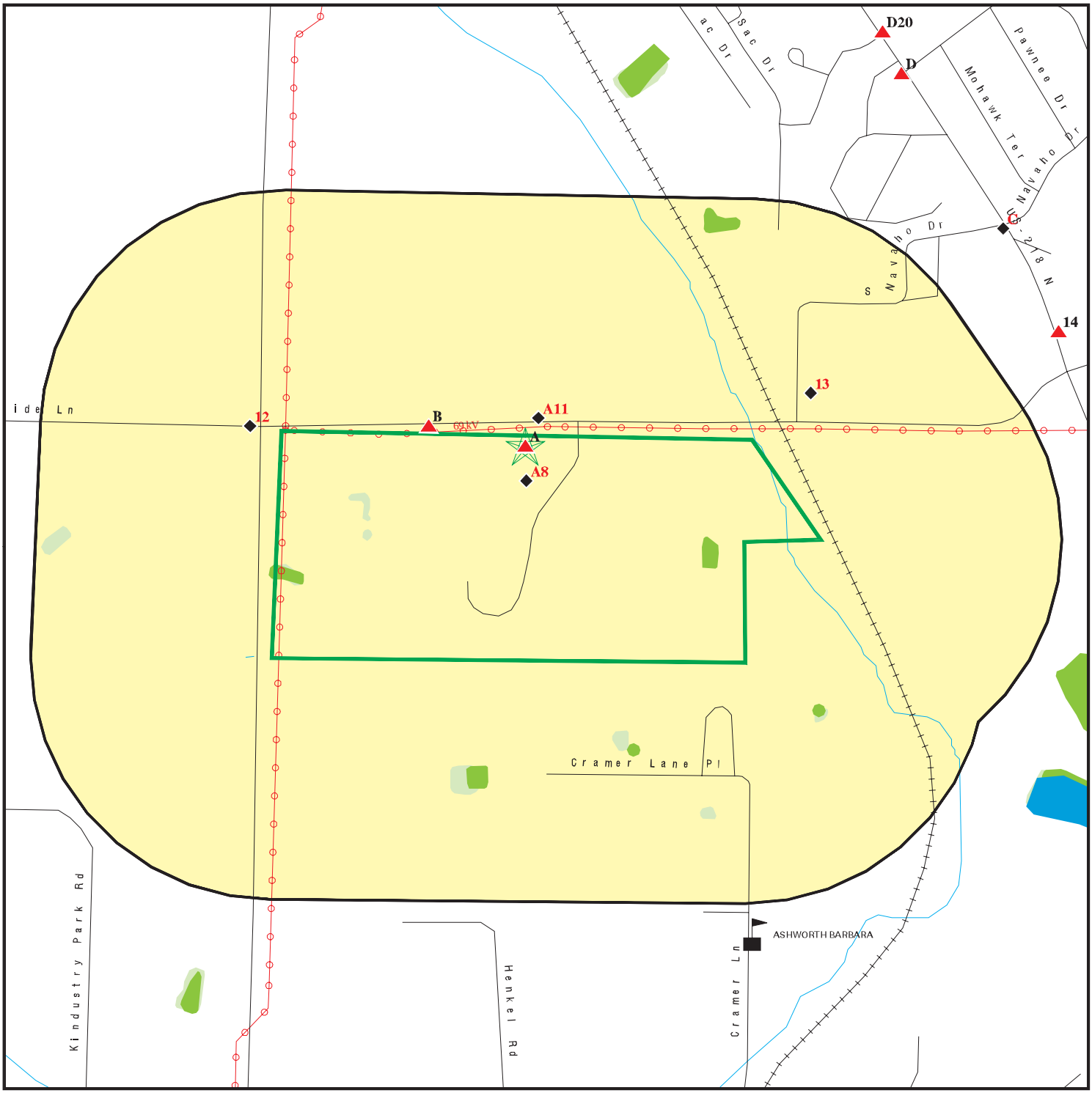
DETAIL MAP - 4513291.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- National Wetland Inventory
- State Wetlands

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: Elkem Carbide	CLIENT: Tetra Tech EMI
ADDRESS: 365 Carbide Lane Keokuk IA 52632	CONTACT: Joann Jeplawy
LAT/LONG: 40.4213 / 91.4209	INQUIRY #: 4513291.2s DATE: January 14, 2016 1:55 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
CERCLIS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERCLIS-NFRAP	0.500	1	0	0	2	NR	NR	3
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000	1	0	0	0	1	NR	2
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		1	0	NR	NR	NR	1
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
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
Federal ERNS list								
ERNS	TP	1	NR	NR	NR	NR	NR	1
State- and tribal - equivalent CERCLIS								
IA SHWS	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
IA SWF/LF	0.500		2	0	1	NR	NR	3
State and tribal leaking storage tank lists								
IA LUST	0.500		1	0	2	NR	NR	3
IA LAST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	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
IA UST	0.250		2	0	NR	NR	NR	2
IA AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
IA INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
IA VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
IA BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
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
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
IA ALLSITES	0.500		1	0	2	NR	NR	3
IA DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
IA LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
IA SPILLS	TP	1	NR	NR	NR	NR	NR	1
MO SPILLS	TP	1	NR	NR	NR	NR	NR	1
IA SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250	1	0	0	NR	NR	NR	1
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

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
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	1	NR	NR	NR	NR	NR	1
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP	1	NR	NR	NR	NR	NR	1
FTTS	TP	1	NR	NR	NR	NR	NR	1
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	1	NR	NR	NR	NR	NR	1
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
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
FINDS	TP	1	NR	NR	NR	NR	NR	1
IA AIRS	TP		NR	NR	NR	NR	NR	0
IA COAL ASH	0.500		0	0	0	NR	NR	0
IA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
IA Financial Assurance	TP		NR	NR	NR	NR	NR	0
WI MANIFEST	0.250		0	0	NR	NR	NR	0
IA NPDES	TP		NR	NR	NR	NR	NR	0
IA TIER 2	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
IA RGA HWS	TP		NR	NR	NR	NR	NR	0
IA RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		11	7	0	7	1	0	26

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

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **ELKEM CARBON KEOKUK** **ICIS** **1006765374**
Target **365 CARBIDE LANE** **FINDS** **N/A**
Property **KEOKUK, IA 52632**

Site 1 of 9 in cluster A

Actual:
660 ft.

ICIS:

Enforcement Action ID:	07-1987-0291
FRS ID:	110013331992
Program ID:	EIS 7257211
Action Name:	MIDWEST CARBIDE CORPORATION, KEOKUK, IA
Full Address:	365 CARBIDE LANE KEOKUK IA 52632-2047
State:	Iowa
Facility Name:	ELKEM CARBON KEOKUK
Facility Address:	365 CARBIDE LANE KEOKUK, IA 52632-2047
Enforcement Action Type:	RCRA 3008A AO For Comp And/Or Penalty
Facility County:	LEE
EPA Region #:	7

Enforcement Action ID:	07-1987-0291
FRS ID:	110013331992
Program ID:	FRS 110013331992
Action Name:	MIDWEST CARBIDE CORPORATION, KEOKUK, IA
Full Address:	365 CARBIDE LANE KEOKUK IA 52632-2047
State:	Iowa
Facility Name:	ELKEM CARBON KEOKUK
Facility Address:	365 CARBIDE LANE KEOKUK, IA 52632-2047
Enforcement Action Type:	RCRA 3008A AO For Comp And/Or Penalty
Facility County:	LEE
EPA Region #:	7

Enforcement Action ID:	07-1987-0291
FRS ID:	110013331992
Program ID:	NCDB I07#19900725IA009 1
Action Name:	MIDWEST CARBIDE CORPORATION, KEOKUK, IA
Full Address:	365 CARBIDE LANE KEOKUK IA 52632-2047
State:	Iowa
Facility Name:	ELKEM CARBON KEOKUK
Facility Address:	365 CARBIDE LANE KEOKUK, IA 52632-2047
Enforcement Action Type:	RCRA 3008A AO For Comp And/Or Penalty
Facility County:	LEE
EPA Region #:	7

Enforcement Action ID:	07-1987-0291
FRS ID:	110013331992
Program ID:	TRIS 52632MDWST365CA
Action Name:	MIDWEST CARBIDE CORPORATION, KEOKUK, IA
Full Address:	365 CARBIDE LANE KEOKUK IA 52632-2047
State:	Iowa
Facility Name:	ELKEM CARBON KEOKUK
Facility Address:	365 CARBIDE LANE KEOKUK, IA 52632-2047
Enforcement Action Type:	RCRA 3008A AO For Comp And/Or Penalty
Facility County:	LEE
EPA Region #:	7

ELKEM CARBON KEOKUK (Continued) **1006765374**

Enforcement Action ID: 07-1987-0291
FRS ID: 110013331992
Program ID: NEI NEI32744
Action Name: MIDWEST CARBIDE CORPORATION, KEOKUK, IA
Full Address: 365 CARBIDE LANE KEOKUK IA 52632-2047
State: Iowa
Facility Name: ELKEM CARBON KEOKUK
Facility Address: 365 CARBIDE LANE
KEOKUK, IA 52632-2047
Enforcement Action Type: RCRA 3008A AO For Comp And/Or Penalty
Facility County: LEE
EPA Region #: 7

Enforcement Action ID: 07-1987-0291
FRS ID: 110013331992
Program ID: RCRAINFO IAD005267588
Action Name: MIDWEST CARBIDE CORPORATION, KEOKUK, IA
Full Address: 365 CARBIDE LANE KEOKUK IA 52632-2047
State: Iowa
Facility Name: ELKEM CARBON KEOKUK
Facility Address: 365 CARBIDE LANE
KEOKUK, IA 52632-2047
Enforcement Action Type: RCRA 3008A AO For Comp And/Or Penalty
Facility County: LEE
EPA Region #: 7

Enforcement Action ID: 07-1987-0291
FRS ID: 110013331992
Program ID: NEI NEI2IA601005
Action Name: MIDWEST CARBIDE CORPORATION, KEOKUK, IA
Full Address: 365 CARBIDE LANE KEOKUK IA 52632-2047
State: Iowa
Facility Name: ELKEM CARBON KEOKUK
Facility Address: 365 CARBIDE LANE
KEOKUK, IA 52632-2047
Enforcement Action Type: RCRA 3008A AO For Comp And/Or Penalty
Facility County: LEE
EPA Region #: 7

Program ID: EIS 7257211
Facility Name: ELKEM CARBON KEOKUK
Address: 365 CARBIDE LANE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2999

Program ID: EIS 7257211
Facility Name: ELKEM CARBON KEOKUK
Address: 365 CARBIDE LANE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 3624

Program ID: FRS 110013331992

ELKEM CARBON KEOKUK (Continued) **1006765374**

Facility Name: ELKEM CARBON KEOKUK
Address: 365 CARBIDE LANE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2999

Program ID: FRS 110013331992
Facility Name: ELKEM CARBON KEOKUK
Address: 365 CARBIDE LANE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 3624

Program ID: NCDB I07#19900725IA009 1
Facility Name: ELKEM CARBON KEOKUK
Address: 365 CARBIDE LANE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2999

Program ID: NCDB I07#19900725IA009 1
Facility Name: ELKEM CARBON KEOKUK
Address: 365 CARBIDE LANE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 3624

Program ID: NEI NEI2IA601005
Facility Name: ELKEM CARBON KEOKUK
Address: 365 CARBIDE LANE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2999

Program ID: NEI NEI2IA601005
Facility Name: ELKEM CARBON KEOKUK
Address: 365 CARBIDE LANE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 3624

Program ID: NEI NEI32744
Facility Name: ELKEM CARBON KEOKUK
Address: 365 CARBIDE LANE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2999

Program ID: NEI NEI32744
Facility Name: ELKEM CARBON KEOKUK

ELKEM CARBON KEOKUK (Continued) **1006765374**

Address: 365 CARBIDE LANE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 3624

Program ID: RCRAINFO IAD005267588
Facility Name: ELKEM CARBON KEOKUK
Address: 365 CARBIDE LANE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2999

Program ID: RCRAINFO IAD005267588
Facility Name: ELKEM CARBON KEOKUK
Address: 365 CARBIDE LANE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 3624

Program ID: TRIS 52632MDWST365CA
Facility Name: ELKEM CARBON KEOKUK
Address: 365 CARBIDE LANE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2999

Program ID: TRIS 52632MDWST365CA
Facility Name: ELKEM CARBON KEOKUK
Address: 365 CARBIDE LANE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 3624

FINDS:

Registry ID: 110013331992

Environmental Interest/Information System

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

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,

ELKEM CARBON KEOKUK (Continued) **1006765374**

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.

HAZARDOUS AIR POLLUTANT MAJOR

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

A2 **MIDWEST CARBIDE CORP** **CERCLIS-NFRAP** **1015733412**
Target **365 CARBIDE LN RD** **IAD005267588**
Property **KEOKUK, IA 52632**

Site 2 of 9 in cluster A

Actual: 660 ft.

CERCLIS-NFRAP:
Site ID: 0700084
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 7357194.00000
Person ID: 13000611.00000

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: / /
Date Completed: 11/01/79
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 10/01/81
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: 10/01/81
Date Completed: 10/01/81
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 09/01/80

MIDWEST CARBIDE CORP (Continued) **1015733412**

Priority Level: Low priority for further assessment

A3 **MIDWEST CARBIDE CORP** **FTTS** **1007286447**
Target **365 CARBIDE RD** **HIST FTTS** **N/A**
Property **KEOKUK, IA 52632**

Site 3 of 9 in cluster A

Actual: 660 ft.

FTTS INSP:

Inspection Number:	19950329KY020 1
Region:	04
Inspection Date:	03/29/95
Inspector:	KNOPP,JOAN
Violation occurred:	No
Investigation Type:	Section 6 PCB State Conducted
Investigation Reason:	Neutral Scheme, State
Legislation Code:	TSCA
Facility Function:	User

HIST FTTS INSP:

Inspection Number:	19950329KY020 1
Region:	04
Inspection Date:	Not reported
Inspector:	KNOPP,JOAN
Violation occurred:	No
Investigation Type:	Section 6 PCB State Conducted
Investigation Reason:	Neutral Scheme, State
Legislation Code:	TSCA
Facility Function:	User

A4 **ELKEM CARBON - KEOKUK** **CORRACTS** **1000436438**
Target **365 CARBIDE LANE RD** **RCRA NonGen / NLR** **IAD005267588**
Property **KEOKUK, IA 52632** **RAATS**

Site 4 of 9 in cluster A

Actual: 660 ft.

CORRACTS:

EPA ID:	IAD005267588
EPA Region:	7
Area Name:	ENTIRE FACILITY
Actual Date:	19880201
Action:	CA050RF - RFA Completed, Assessment was an RFA
NAICS Code(s):	335991 Carbon and Graphite Product Manufacturing
Original schedule date:	19880401
Schedule end date:	Not reported

EPA ID:	IAD005267588
EPA Region:	7
Area Name:	ENTIRE FACILITY
Actual Date:	19880201
Action:	CA070NO - RFA Determination Of Need For An RFI, RFI is Not Necessary

ELKEM CARBON - KEOKUK (Continued) **1000436438**

NAICS Code(s): 335991
Carbon and Graphite Product Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: IAD005267588
EPA Region: 7
Area Name: ENTIRE FACILITY
Actual Date: 19950322
Action: CA225NR - Stabilization Measures Evaluation, This facility is, not amenable to stabilization activity at the, present time for reasons other than (1) it appears to be technically, infeasible or inappropriate (NF) or (2) there is a lack of technical, information (IN). Reasons for this conclusion may be the status of, closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other, administrative considerations
NAICS Code(s): 335991
Carbon and Graphite Product Manufacturing
Original schedule date: 19950930
Schedule end date: Not reported

EPA ID: IAD005267588
EPA Region: 7
Area Name: ENTIRE FACILITY
Actual Date: 20100428
Action: CA050 - RFA Completed
NAICS Code(s): 335991
Carbon and Graphite Product Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: IAD005267588
EPA Region: 7
Area Name: ENTIRE FACILITY
Actual Date: 19920128
Action: CA075ME - CA Prioritization, Facility or area was assigned a medium corrective action priority
NAICS Code(s): 335991
Carbon and Graphite Product Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: IAD005267588
EPA Region: 7
Area Name: ENTIRE FACILITY
Actual Date: 20120731
Action: CA050 - RFA Completed
NAICS Code(s): 335991
Carbon and Graphite Product Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

RCRA NonGen / NLR:
Date form received by agency: 02/08/2006
Facility name: ELKEM CARBON - KEOKUK
Facility address: 365 CARBIDE LANE RD

ELKEM CARBON - KEOKUK (Continued) **1000436438**

KEOKUK, IA 52632
EPA ID: IAD005267588
Mailing address: PO BOX 6003
KEOKUK, IA 52632
Contact: DAN O'CONNELL
Contact address: PO BOX 6003
KEOKUK, IA 52632
Contact country: US
Contact telephone: (319) 524-6510
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: MIDWEST CARBIDE CORPORATION
Owner/operator address: PO BOX 607
KEOKUK, IA 52632
Owner/operator country: US
Owner/operator telephone: (319) 524-6510
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: 02/08/2006

Owner/operator name: ELKEM METALS
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: (319) 524-6510
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 02/08/2006
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: 07/18/2005
Site name: ELKEM CARBON - KEOKUK

ELKEM CARBON - KEOKUK (Continued) **1000436438**

Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D005
. Waste name: BARIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D009
. Waste name: MERCURY

. Waste code: P012
. Waste name: ARSENIC OXIDE AS2O3 (OR) ARSENIC TRIOXIDE

. Waste code: P030
. Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

. Waste code: P098
. Waste name: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)

. Waste code: P106
. Waste name: SODIUM CYANIDE (OR) SODIUM CYANIDE NA(CN)

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

. Waste code: U169
. Waste name: BENZENE, NITRO- (OR) NITROBENZENE (I,T)

. Waste code: U188
. Waste name: PHENOL

. Waste code: U197
. Waste name: 2,5-CYCLOHEXADIENE-1,4-DIONE (OR) P-BENZOQUINONE

. Waste code: U239
. Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Date form received by agency: 01/27/2003
Site name: ELKEM CARBON - KEOKUK
Classification: Not a generator, verified

Date form received by agency: 04/15/1996
Site name: MIDWEST CARBIDE
Classification: Not a generator, verified

ELKEM CARBON - KEOKUK (Continued) **1000436438**

. Waste code: NONE
. Waste name: None

Date form received by agency: 03/10/1994
Site name: MIDWEST CARBIDE
Classification: Not a generator, verified

. Waste code: NONE
. Waste name: None

Date form received by agency: 11/14/1980
Site name: MIDWEST CARBIDE
Classification: Not a generator, verified

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

Corrective Action Summary:
Event date: 02/01/1988
Event: RFA Completed, Assessment was an RFA.

Event date: 02/01/1988
Event: RFA Determination Of Need For An RFI, RFI is Not Necessary;

Event date: 01/28/1992
Event: CA Prioritization, Facility or area was assigned a medium corrective action priority.

Event date: 03/22/1995
Event: Stabilization Measures Evaluation,This facility is not amenable to stabilization activity at the present time for reasons other than 1- it appears to be technically infeasible or inappropriate (NF) or 2- there is a lack of technical information (IN). Reasons for this conclusion may be the status of closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other administrative considerations.

Event date: 04/28/2010
Event: RFA Completed

Event date: 07/31/2012
Event: RFA Completed

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 03/09/1989
Date achieved compliance: 03/13/1990
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/09/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

ELKEM CARBON - KEOKUK (Continued) **1000436438**

Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 03/16/1988
Date achieved compliance: 03/13/1990
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 05/15/1987
Date achieved compliance: 05/30/1989
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/15/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 05/15/1987
Date achieved compliance: 05/30/1989
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 03/23/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 46450
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 05/15/1987
Date achieved compliance: 05/30/1989
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/15/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA

ELKEM CARBON - KEOKUK (Continued) **1000436438**

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 05/15/1987
Date achieved compliance: 05/30/1989
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 03/07/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: 27375
Paid penalty amount: 27375

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 05/15/1987
Date achieved compliance: 05/30/1989
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 03/23/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 46450
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 05/15/1987
Date achieved compliance: 05/30/1989
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 03/23/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 46450
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 05/15/1987
Date achieved compliance: 05/30/1989
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 03/07/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported

ELKEM CARBON - KEOKUK (Continued) **1000436438**

Final penalty amount: 27375
Paid penalty amount: 27375

Regulation violated: Not reported
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 05/15/1987
Date achieved compliance: 03/13/1990
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 05/15/1987
Date achieved compliance: 05/30/1989
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 03/07/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: 27375
Paid penalty amount: 27375

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 05/15/1987
Date achieved compliance: 05/30/1989
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/15/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 04/14/1987
Date achieved compliance: 05/15/1987
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/14/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported

ELKEM CARBON - KEOKUK (Continued) **1000436438**

Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 07/09/1986
Date achieved compliance: 05/04/1987
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 03/31/1986
Date achieved compliance: 06/17/1986
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/03/1986
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 05/13/1985
Date achieved compliance: 06/11/1985
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/23/1985
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: TSD - Financial Requirements
Date violation determined: 10/04/1984
Date achieved compliance: 11/06/1984
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/12/1984
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

ELKEM CARBON - KEOKUK (Continued) **1000436438**

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 10/04/1984
Date achieved compliance: 11/08/1984
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/04/1984
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: TSD - Financial Requirements
Date violation determined: 08/18/1984
Date achieved compliance: 09/18/1984
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/18/1984
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: TSD - Closure/Post-Closure
Date violation determined: 07/26/1984
Date achieved compliance: 08/29/1984
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/06/1984
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: TSD - Financial Requirements
Date violation determined: 07/26/1984
Date achieved compliance: 08/29/1984
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/06/1984
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

ELKEM CARBON - KEOKUK (Continued) **1000436438**

Evaluation Action Summary:

Evaluation date:	02/08/2006
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	EPA Contractor/Grantee
Evaluation date:	03/13/1994
Evaluation:	FOCUSED COMPLIANCE INSPECTION
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	EPA Contractor/Grantee
Evaluation date:	03/13/1990
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	EPA
Evaluation date:	03/09/1989
Evaluation:	NON-FINANCIAL RECORD REVIEW
Area of violation:	TSD - Closure/Post-Closure
Date achieved compliance:	03/13/1990
Evaluation lead agency:	EPA
Evaluation date:	11/16/1988
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - Financial Requirements
Date achieved compliance:	05/30/1989
Evaluation lead agency:	EPA
Evaluation date:	03/16/1988
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	LDR - General
Date achieved compliance:	03/13/1990
Evaluation lead agency:	EPA
Evaluation date:	05/15/1987
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - Financial Requirements
Date achieved compliance:	05/30/1989
Evaluation lead agency:	EPA
Evaluation date:	05/15/1987
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - General
Date achieved compliance:	05/30/1989
Evaluation lead agency:	EPA
Evaluation date:	05/15/1987
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - Closure/Post-Closure
Date achieved compliance:	05/30/1989
Evaluation lead agency:	EPA
Evaluation date:	05/15/1987
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE

ELKEM CARBON - KEOKUK (Continued) **1000436438**

Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 03/13/1990
Evaluation lead agency: EPA

Evaluation date: 04/14/1987
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 05/15/1987
Evaluation lead agency: EPA

Evaluation date: 07/09/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 05/04/1987
Evaluation lead agency: EPA

Evaluation date: 03/31/1986
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 06/17/1986
Evaluation lead agency: EPA

Evaluation date: 05/30/1985
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/13/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 06/11/1985
Evaluation lead agency: State

Evaluation date: 10/04/1984
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 11/08/1984
Evaluation lead agency: State

Evaluation date: 10/04/1984
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 11/06/1984
Evaluation lead agency: State

Evaluation date: 08/18/1984
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 09/18/1984
Evaluation lead agency: State

Evaluation date: 07/26/1984
Evaluation: GROUNDWATER MONITORING EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

ELKEM CARBON - KEOKUK (Continued) **1000436438**

Evaluation date: 07/26/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 08/29/1984
Evaluation lead agency: State

Evaluation date: 07/26/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Financial Requirements
Date achieved compliance: 08/29/1984
Evaluation lead agency: State

Evaluation date: 05/24/1984
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

A5 **MO SPILLS** **S105359395**
Target Property **365 CARBIDE LANE, KEOKUK, IA** **N/A**
KEOKUK, MO

Site 5 of 9 in cluster A

Actual: 660 ft.

MO SPILLS:
Facility ID: 0012211553MDO
Regional Office: none
Spill Number: 0012211553MDO
Date Reported: 12/21/2000
Call Date/time: 15:53:00
Lat/Long: 40.422001 -91.420998
UTM Zone For GPS: 15
Discovery Date: 12/20/2000
Email: False
Is This A Continuous Release To Be Monitered?: False
Cause: Weather Related
Contact Name: David Bogner
Contact Phone #: 3195246510
Contact Id: {D893E4C5-6285-4817-80F1-B32A11BC5C4E}
Organization Name: Midwest Carbide
Organization Address1: 365 Carbide Lane
Organization Address2: Not reported
Organization City: Keokuk
Organization State: IA
Organization Zip: Not reported
Entity Phone #: 3195246510
Date Of Incident Search: 12/21/2000
Property Code Description: Water/Waterway/Marina
Property Sub Category: Unknown/Other
Cause Description: Weather Related
Cause Sub Category: Not reported
Description: Other - Unknown
Job Code: Not reported
Additional Info: Spill Summary: THE NRC FAX REPORTS THAT MINERAL OIL WAS RELEASED FROM A TRANSFORMER TANK.Response Summary: THE IOWA DNR HAS RESPONDED TO THE RELEASE. THE ESP EER HAS INFORMED THE PDWP AND THE NERO OF THE RELEASE.Additional Information: THE IOWA DNR REPRESENTATIVE DAVE PERRY (515/281-8883) CALLED AT 1545 HOURS AND INFORMED THE MDNR REPRESENTATIVE THAT AT LEAST 400 GALLONS OUT OF A 1700-GALLON

(Continued) **S105359395**

TRANSFORMER SPILLED INTO A STORM DRAIN WHICH LED TO SOAP CREEK. THE OIL IS BELIEVED TO BE NON-PCB MINERAL OIL. THE OIL SUBSEQUENTLY WENT UNDER THE ICE IN SOAP CREEK AND IS ANTICIPATED TO REACH THE MISSISSIPPI RIVER.ALAN CORTVRIENT INFORMED EVERETT BAKER (NERO - PDWP) OF THIS INCIDENT AT 1605 HOURS. JOE BOLAND INFORMED DEANNA CASH (PDWP) OF THIS SITUATION AT 1610 HOURS.

Spill Num:	0012211553MDO
Agent Code:	561
Agency Receiving Copy of Incident Report:	Border States
Immediate Or Delayed:	D
User Name:	Border States

A6 **IA SPILLS** **S105272695**
Target Property **MIDWEST CARBIDE, 365 CARBIDE LANE, KEOKUK, IA 52632** **N/A**
KEOKUK, IA

Site 6 of 9 in cluster A

Actual: 660 ft.

SPILL:

Facility ID:	122100-DLP-1505
Reported Date:	12/21/2000
Reported Time:	3:05:00 PM
Taken By:	Dave Perry
Spill Date:	12/21/2000
Spill Time:	10:35:00 PM
6 hr Letter:	TRUE
Continuous Release:	FALSE
Incident Location:	Not reported
Incident Mode:	Transformer
Incident Type:	Transformer oil/PCB
Incident Medium Land:	TRUE
Incident Medium Water:	TRUE
Incident Medium Air:	FALSE
Field Office:	Not reported
Company Name:	Not reported
Company Address1:	Not reported
Company Address2:	Not reported
Company City/State/Zip:	Not reported
Company Phone:	Not reported
Company Fax No:	Not reported
Company Start Date:	Not reported
Company End Date:	Not reported
Company Contact Name:	Not reported
Contact Address1:	Not reported
Company Contact Address2:	Not reported
Company Contact City/State/Zip:	Not reported
Company Contact Phone:	Not reported
Company Contact Fax No:	Not reported
Company Contact Start Date:	Not reported
Company Contact End Date:	Not reported
Initial Instructions:	It was the opinion of the responsible party that with water flowing from the storm sewer, any product which entered, had since flowed into the creek. However, with the ice cover on Soap Creek, there was no discernable product visible in the creek. Absor
Events:	This incident reportedly occurred at 10:00 PM on 12-20-00. The incident was reportedly discovered at 10:35 PM (12/20/00). The Department was notified at 3:05 PM on 12/21/00. Mr. Bogner with

(Continued) **S105272695**

Midwest Carbide initially reported the quantity of non-PCB tr

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A7 **ERNS** **2000551647**
Target Property **365 CARBIDE LN** **N/A**
KEOKUK, IA 0

Site 7 of 9 in cluster A

Actual: 660 ft.

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

A8 **MIDWEST CARBIDE CORPORATION** **IA UST** **U003633757**
CARBIDE LANE **N/A**
< 1/8 **KEOKUK, IA 52632**
1 ft.

Site 8 of 9 in cluster A

Relative: Lower

Actual: 659 ft.

UST:

Facility Id:	2711
Loc Id:	2711
Registration:	198602182
Owner Type:	6
Financial Code:	Not reported
Insurer's Name:	Not reported
Policy Number:	Not reported
Policy Start Date:	Not reported
Policy End Date:	Not reported
Registration Sign Date:	02/05/1986
Created By:	migration
Created Date:	01/08/2007
Changed By:	migration
Last Changed:	01/08/2007
Latitude:	40.42170
Longitude:	-91.41522

Tank Info:

Tank Num:	5934
In Use:	False
Tank Type:	3
Tank Brand Id:	Not reported
Inert Material Id:	Not reported
Filled In Place:	Not reported
Material Construction:	Double Wall Steel
Emergency Power Gen:	Not reported

Tank Num:	5935
In Use:	False
Tank Type:	3
Tank Brand Id:	Not reported
Inert Material Id:	Not reported
Filled In Place:	Not reported
Material Construction:	Double Wall Steel
Emergency Power Gen:	Not reported

Tank Num:	5936
In Use:	False
Tank Type:	3

MIDWEST CARBIDE CORPORATION (Continued) **U003633757**

Tank Brand Id:	Not reported
Inert Material Id:	Not reported
Filled In Place:	Not reported
Material Construction:	Double Wall Steel
Emergency Power Gen:	Not reported

Tank Num:	5937
In Use:	False
Tank Type:	Not reported
Tank Brand Id:	Not reported
Inert Material Id:	Not reported
Filled In Place:	Not reported
Material Construction:	Double Wall Steel
Emergency Power Gen:	Not reported

B9 **AMSTED RAIL CO. INC.** **IA SWF/LF** **S109132532**
WNW **416 CARBIDE LANE** **IA AIRS** **N/A**
< 1/8 **KEOKUK, IA 52632** **IA TIER 2**
0.009 mi.
45 ft. **Site 1 of 2 in cluster B**

Relative:
Higher

Actual:
664 ft.

SWF/LF:

Facility ID:	56-SDP-15-89
Facility Type:	Foundry Sand Landfill
Permit Stage:	Operation Permit
Expiration Date:	5/6/2013
Project Officer:	Leat
Affiliation:	Design Engineer
Phone:	Work: (515) 491-4880Fax: (515) 967-7182
Contact Name:	Stuart C Schmitz
Contact Title:	President
Contact eMail:	stu@schmitzenvironmental.com
Contact Company:	Schmitz Environmental, LLC
Contact Address:	11465 NE Hubbell Road
Contact Address2:	Not reported
Contact City,St,Zip:	Maxwell, IA 50161
Field Office:	6
Loc Supplement:	Not reported
Latitude:	40.423699
Longitude:	-91.417599

Facility ID:	56-SDP-15-89
Facility Type:	Foundry Sand Landfill
Permit Stage:	Operation Permit
Expiration Date:	5/6/2013
Project Officer:	Leat
Affiliation:	Mailing Contact,Responsible Official of Agency served,Automated Email
Phone:	Work: (319) 524-2962 ext.20712Mobile: (319) 795-0692Fax: (319) 524-8119
Contact Name:	Paul Sheppard
Contact Title:	Environmental Specialist
Contact eMail:	psheppard@griffinwheel.com
Contact Company:	Amsted Rail Company, Inc. / Griffin Wheel
Contact Address:	416 Carbide Lane
Contact Address2:	Not reported
Contact City,St,Zip:	Keokuk, IA 52632
Field Office:	6
Loc Supplement:	Not reported

AMSTED RAIL CO. INC. (Continued) **S109132532**

Latitude: 40.423699
Longitude: -91.417599

Facility ID: 56-SDP-15-89
Facility Type: Foundry Sand Landfill
Permit Stage: Operation Permit
Expiration Date: 5/6/2013
Project Officer: Leat
Affiliation: Primary Contact
Phone: Work: (641) 836-2323Fax: (641) 836-2377
Contact Name: Kim Myers
Contact Title: Not reported
Contact eMail: kmyers@griffinwheel.com
Contact Company: Amsted Rail Co Inc
Contact Address: 3900 Bixby Rd
Contact Address2: Not reported
Contact City,St,Zip: Groveport, OH 43125
Field Office: 6
Loc Supplement: Not reported
Latitude: 40.423699
Longitude: -91.417599

Facility ID: 56-SDP-15-89
Facility Type: Foundry Sand Landfill
Permit Stage: Operation Permit
Expiration Date: 5/6/2013
Project Officer: Leat
Affiliation: Report Form Contact
Phone: Work: (319) 524-2962Fax: (319) 524-8119
Contact Name: Brad Hickerson
Contact Title: Not reported
Contact eMail: bhickerson@griffinwheel.com
Contact Company: Not reported
Contact Address: 416 Carbide Lane
Contact Address2: Not reported
Contact City,St,Zip: Keokuk, IA 52632
Field Office: 6
Loc Supplement: Not reported
Latitude: 40.423699
Longitude: -91.417599

AIRS:
Facility Number: 56-01-023
Status: Not reported
Closed?: Not reported
Region: Not reported
Contact Name: Not reported
Contact Phone: Not reported
Facility Contact Phone: Not reported
Mailing Address: Not reported
Mailing Address 2: Not reported
Mailing City,St,Zip: Not reported
SIC Primary: 3325
NAICS Primary: 331513

TIER 2:

AMSTED RAIL CO. INC. (Continued) **S109132532**

Report Year: 2014
Facility Id: 1511
Id: 3325
Description: STEEL FOUNDRIES, NEC SIC
Last Modified: Not reported

Id: 331513
Description: Steel Foundries (except Investment) NAICS
Last Modified: Not reported

State Id: Not reported
Fire District: Keokuk Fire Department
Site Map: Not reported
Site Coord Abbreviation: Not reported
Date Signed: 01/14/2008
Date Modified: 02/06/2015
Dike Or Other Safeguard: Not reported
Mailing Address: Not reported
Mail City: Not reported
Mail State: IA
Mail Zip: Not reported
Latitude: 40.42485
Longitude: -91.42110
Notes: Not reported

Contact:
Report Year: 2014
Contact Id: 83377
Date Modified: Not reported
First Name: Paul
Last Name: Sheppard
Title: Not reported
Email: psheppard@griffinwheel.com
Address: 416 Carbide Lane
City: Keokuk
Country: US
State: IA
Zip Code: 52632
Type1: Owner / Operator
Last Modified: Not reported
Telephone: Not reported
Telephone Type: Not reported

Chemical:
Report Year: 2014
Chem Inv Record Id: 8345
CICAS: 7782-42-5
EHS Chemical: Not reported
Chemical Name: GRAPHITE
Acute: Not reported
Ave Amount: 1871610
Ave Amount Code: Not reported
Max Amount: 1874940
Max Amount Code: Not reported
Chronic: Not reported
Last Modified: Not reported
Days On Site: 365
Fire: Not reported

AMSTED RAIL CO. INC. (Continued) **S109132532**

Gas:	Not reported
Liquid:	Not reported
Mixture:	True
Pressure:	Not reported
Pure:	True
Reactive:	Not reported
Solid:	True
Trade Secret:	Not reported

Chemical Mix:

Report Year:	2014
Record Key:	22561
Chemical Inv Recid:	8345
Mx Chemical:	Stoppers
Mx Cas:	7782-42-5
Percentage:	35
Wt Vol:	Not reported
Mx Ehs:	Not reported
Last Modified:	Not reported

Report Year:	2014
Record Key:	22560
Chemical Inv Recid:	8345
Mx Chemical:	Graphite molds
Mx Cas:	7782-42-5
Percentage:	100
Wt Vol:	Not reported
Mx Ehs:	Not reported
Last Modified:	Not reported

Report Year:	2014
Record Key:	22562
Chemical Inv Recid:	8345
Mx Chemical:	Graphite ingates
Mx Cas:	7782-42-5
Percentage:	40
Wt Vol:	Not reported
Mx Ehs:	Not reported
Last Modified:	Not reported

Chemical Loc:

Report Year:	2014
Record Key:	12791
Chem Inv Record Id:	8345
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not reported
Date Last Modified:	Not reported
Amount:	Not reported

Report Year:	2014
Record Key:	12792
Chem Inv Record Id:	8345
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature

AMSTED RAIL CO. INC. (Continued) **S109132532**

Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 12793
Chem Inv Record Id: 8345
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Chem Inv Record Id: 8346
CICAS: 1305-78-8
EHS Chemical: Not reported
Chemical Name: CAO (LIME)
Acute: Not reported
Ave Amount: 281224
Ave Amount Code: Not reported
Max Amount: 375366
Max Amount Code: Not reported
Chronic: Not reported
Last Modified: Not reported
Days On Site: 365
Fire: Not reported
Gas: Not reported
Liquid: Not reported
Mixture: True
Pressure: Not reported
Pure: True
Reactive: Not reported
Solid: True
Trade Secret: Not reported

Chemical Mix:
Report Year: 2014
Record Key: 22542
Chemical Inv Recid: 8346
Mx Chemical: Lime
Mx Cas: 1305-78-8
Percentage: 93.5
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

Report Year: 2014
Record Key: 22541
Chemical Inv Recid: 8346
Mx Chemical: Lime
Mx Cas: 1305-78-8
Percentage: 93.5
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

AMSTED RAIL CO. INC. (Continued) **S109132532**

Report Year: 2014
Record Key: 22543
Chemical Inv Recid: 8346
Mx Chemical: Furnace Brick
Mx Cas: 1305-78-8
Percentage: 85
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

Report Year: 2014
Record Key: 22544
Chemical Inv Recid: 8346
Mx Chemical: Dola B
Mx Cas: 1305-78-8
Percentage: 18
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

Chemical Loc:
Report Year: 2014
Record Key: 12794
Chem Inv Record Id: 8346
Type Code: Silo
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 12795
Chem Inv Record Id: 8346
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 12796
Chem Inv Record Id: 8346
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 12797
Chem Inv Record Id: 8346
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature

AMSTED RAIL CO. INC. (Continued) **S109132532**

Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Chem Inv Record Id: 8347
CICAS: 1309-48-4
EHS Chemical: Not reported
Chemical Name: MAGNESIUM OXIDE
Acute: Not reported
Ave Amount: 58017
Ave Amount Code: Not reported
Max Amount: 98860
Max Amount Code: Not reported
Chronic: Not reported
Last Modified: Not reported
Days On Site: 365
Fire: True
Gas: Not reported
Liquid: Not reported
Mixture: True
Pressure: Not reported
Pure: Not reported
Reactive: Not reported
Solid: True
Trade Secret: Not reported

Chemical Mix:
Report Year: 2014
Record Key: 22609
Chemical Inv Recid: 8347
Mx Chemical: Furnace brick
Mx Cas: 1309-48-4
Percentage: 85
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

Report Year: 2014
Record Key: 22608
Chemical Inv Recid: 8347
Mx Chemical: Lime
Mx Cas: 1309-48-4
Percentage: 1.5
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

Report Year: 2014
Record Key: 22607
Chemical Inv Recid: 8347
Mx Chemical: Lime
Mx Cas: 1309-48-4
Percentage: 1.5
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

AMSTED RAIL CO. INC. (Continued) **S109132532**

Report Year: 2014
Record Key: 22610
Chemical Inv Recid: 8347
Mx Chemical: Gundol G
Mx Cas: 1309-48-4
Percentage: 40
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

Report Year: 2014
Record Key: 22611
Chemical Inv Recid: 8347
Mx Chemical: SSK-2000
Mx Cas: 1309-48-4
Percentage: 80
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

Report Year: 2014
Record Key: 22612
Chemical Inv Recid: 8347
Mx Chemical: Dola B
Mx Cas: 1309-48-4
Percentage: 80
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

Chemical Loc:
Report Year: 2014
Record Key: 12798
Chem Inv Record Id: 8347
Type Code: Silo
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 12799
Chem Inv Record Id: 8347
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 12800
Chem Inv Record Id: 8347
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature

AMSTED RAIL CO. INC. (Continued) **S109132532**

Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 12801
Chem Inv Record Id: 8347
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 12802
Chem Inv Record Id: 8347
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 12803
Chem Inv Record Id: 8347
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Chem Inv Record Id: 8348
CICAS: 7439-89-6
EHS Chemical: Not reported
Chemical Name: IRON
Acute: Not reported
Ave Amount: 11482
Ave Amount Code: Not reported
Max Amount: 15254
Max Amount Code: Not reported
Chronic: Not reported
Last Modified: Not reported
Days On Site: 365
Fire: Not reported
Gas: Not reported
Liquid: Not reported
Mixture: True
Pressure: Not reported
Pure: Not reported
Reactive: Not reported
Solid: True
Trade Secret: Not reported

AMSTED RAIL CO. INC. (Continued) **S109132532**

Chemical Mix:

Report Year:	2014
Record Key:	22606
Chemical Inv Recid:	8348
Mx Chemical:	Steel Shot
Mx Cas:	7439-89-6
Percentage:	0.9599999999999
Wt Vol:	Not reported
Mx Ehs:	Not reported
Last Modified:	Not reported

Chemical Loc:

Report Year:	2014
Record Key:	12804
Chem Inv Record Id:	8348
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not reported
Date Last Modified:	Not reported
Amount:	Not reported

Report Year:	2014
Record Key:	51436
Chem Inv Record Id:	8348
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not reported
Date Last Modified:	Not reported
Amount:	Not reported

Report Year:	2014
Chem Inv Record Id:	8349
CICAS:	108-95-2
EHS Chemical:	True
Chemical Name:	RESIN (PHENOL)
Acute:	Not reported
Ave Amount:	857
Ave Amount Code:	Not reported
Max Amount:	1142
Max Amount Code:	Not reported
Chronic:	Not reported
Last Modified:	Not reported
Days On Site:	365
Fire:	Not reported
Gas:	Not reported
Liquid:	Not reported
Mixture:	True
Pressure:	Not reported
Pure:	Not reported
Reactive:	True
Solid:	True
Trade Secret:	Not reported

AMSTED RAIL CO. INC. (Continued) **S109132532**

Chemical Mix:
Report Year: 2014
Record Key: 22617
Chemical Inv Recid: 8349
Mx Chemical: Resin Plastiflake
Mx Cas: 108-95-2
Percentage: 8
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

Chemical Loc:
Report Year: 2014
Record Key: 12805
Chem Inv Record Id: 8349
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Chem Inv Record Id: 8351
CICAS: 7440-44-0
EHS Chemical: Not reported
Chemical Name: CARBON
Acute: Not reported
Ave Amount: 106734
Ave Amount Code: Not reported
Max Amount: 120849
Max Amount Code: Not reported
Chronic: Not reported
Last Modified: Not reported
Days On Site: 365
Fire: Not reported
Gas: Not reported
Liquid: Not reported
Mixture: True
Pressure: Not reported
Pure: True
Reactive: Not reported
Solid: True
Trade Secret: Not reported

Chemical Mix:
Report Year: 2014
Record Key: 29412
Chemical Inv Recid: 8351
Mx Chemical: ELECTRODES
Mx Cas: 7440440
Percentage: 100
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

AMSTED RAIL CO. INC. (Continued) **S109132532**

Report Year: 2014
Record Key: 29411
Chemical Inv Recid: 8351
Mx Chemical: STEEL SHOT
Mx Cas: 7440440
Percentage: 12
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

Report Year: 2014
Record Key: 29413
Chemical Inv Recid: 8351
Mx Chemical: FERO CHROME
Mx Cas: 7440440
Percentage: 7.0000000000000
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

Report Year: 2014
Record Key: 29410
Chemical Inv Recid: 8351
Mx Chemical: SILOMANGANESE
Mx Cas: 7440440
Percentage: 2
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

Report Year: 2014
Record Key: 29409
Chemical Inv Recid: 8351
Mx Chemical: CARBON RAISER
Mx Cas: 7440440
Percentage: 98
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

Report Year: 2014
Record Key: 29408
Chemical Inv Recid: 8351
Mx Chemical: CARBON WIRE
Mx Cas: 7440440
Percentage: 65
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

Chemical Loc:
Report Year: 2014
Record Key: 12808
Chem Inv Record Id: 8351
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature

AMSTED RAIL CO. INC. (Continued) **S109132532**

Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 12809
Chem Inv Record Id: 8351
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 12810
Chem Inv Record Id: 8351
Type Code: Box
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 12811
Chem Inv Record Id: 8351
Type Code: Bag
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 12812
Chem Inv Record Id: 8351
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 42995
Chem Inv Record Id: 8351
Type Code: Bag
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Chem Inv Record Id: 8352

AMSTED RAIL CO. INC. (Continued) **S109132532**

CICAS:	7439-96-5
EHS Chemical:	Not reported
Chemical Name:	MANGANESE
Acute:	Not reported
Ave Amount:	44157
Ave Amount Code:	Not reported
Max Amount:	76628
Max Amount Code:	Not reported
Chronic:	Not reported
Last Modified:	Not reported
Days On Site:	365
Fire:	Not reported
Gas:	Not reported
Liquid:	Not reported
Mixture:	True
Pressure:	Not reported
Pure:	Not reported
Reactive:	True
Solid:	True
Trade Secret:	Not reported

Chemical Mix:

Report Year:	2014
Record Key:	22613
Chemical Inv Recid:	8352
Mx Chemical:	Silomanganese
Mx Cas:	7439-96-5
Percentage:	65
Wt Vol:	Not reported
Mx Ehs:	Not reported
Last Modified:	Not reported

Report Year:	2014
Record Key:	22614
Chemical Inv Recid:	8352
Mx Chemical:	Steel Shot
Mx Cas:	7439-96-5
Percentage:	1.3
Wt Vol:	Not reported
Mx Ehs:	Not reported
Last Modified:	Not reported

Chemical Loc:

Report Year:	2014
Record Key:	12813
Chem Inv Record Id:	8352
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not reported
Date Last Modified:	Not reported
Amount:	Not reported

Report Year:	2014
Record Key:	12814
Chem Inv Record Id:	8352
Type Code:	Other

AMSTED RAIL CO. INC. (Continued) **S109132532**

Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 63997
Chem Inv Record Id: 8352
Type Code: Other
Pressure Code: Ambient Pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Chem Inv Record Id: 8353
CICAS: 7440-21-3
EHS Chemical: Not reported
Chemical Name: SILICON
Acute: Not reported
Ave Amount: 47112
Ave Amount Code: Not reported
Max Amount: 63315
Max Amount Code: Not reported
Chronic: Not reported
Last Modified: Not reported
Days On Site: 365
Fire: Not reported
Gas: Not reported
Liquid: Not reported
Mixture: True
Pressure: Not reported
Pure: Not reported
Reactive: Not reported
Solid: True
Trade Secret: Not reported

Chemical Mix:
Report Year: 2014
Record Key: 22624
Chemical Inv Recid: 8353
Mx Chemical: SILOCOMANGANESE
Mx Cas: 7440213
Percentage: 16
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

Report Year: 2014
Record Key: 22623
Chemical Inv Recid: 8353
Mx Chemical: FERRROSILICON
Mx Cas: 7440213
Percentage: 65
Wt Vol: Not reported

AMSTED RAIL CO. INC. (Continued) **S109132532**

Mx Ehs: Not reported
Last Modified: Not reported

Report Year: 2014
Record Key: 22625
Chemical Inv Recid: 8353
Mx Chemical: STEEL SHOT
Mx Cas: 7440213
Percentage: 1.2
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

Report Year: 2014
Record Key: 22626
Chemical Inv Recid: 8353
Mx Chemical: FERO CHROME
Mx Cas: 7440213
Percentage: 0.01
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

Chemical Loc:
Report Year: 2014
Record Key: 12815
Chem Inv Record Id: 8353
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 12816
Chem Inv Record Id: 8353
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 12817
Chem Inv Record Id: 8353
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 42996
Chem Inv Record Id: 8353

AMSTED RAIL CO. INC. (Continued) **S109132532**

Type Code: Bag
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Chem Inv Record Id: 8354
CICAS: N/A
EHS Chemical: Not reported
Chemical Name: RICE HULLS
Acute: Not reported
Ave Amount: 42855
Ave Amount Code: Not reported
Max Amount: 57140
Max Amount Code: Not reported
Chronic: Not reported
Last Modified: Not reported
Days On Site: 365
Fire: True
Gas: Not reported
Liquid: Not reported
Mixture: True
Pressure: Not reported
Pure: True
Reactive: Not reported
Solid: True
Trade Secret: Not reported

Chemical Mix:
Report Year: 2014
Record Key: 22618
Chemical Inv Recid: 8354
Mx Chemical: Rice Hulls
Mx Cas: Not reported
Percentage: 100
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

Chemical Loc:
Report Year: 2014
Record Key: 12818
Chem Inv Record Id: 8354
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Chem Inv Record Id: 8355
CICAS: 60676-86-0

AMSTED RAIL CO. INC. (Continued) **S109132532**

EHS Chemical:	Not reported
Chemical Name:	SILICA
Acute:	Not reported
Ave Amount:	465876
Ave Amount Code:	Not reported
Max Amount:	697083
Max Amount Code:	Not reported
Chronic:	Not reported
Last Modified:	Not reported
Days On Site:	365
Fire:	Not reported
Gas:	Not reported
Liquid:	Not reported
Mixture:	True
Pressure:	Not reported
Pure:	Not reported
Reactive:	Not reported
Solid:	True
Trade Secret:	Not reported

Chemical Mix:

Report Year:	2014
Record Key:	22620
Chemical Inv Recid:	8355
Mx Chemical:	Magnamix
Mx Cas:	60676-86-0
Percentage:	10
Wt Vol:	Not reported
Mx Ehs:	Not reported
Last Modified:	Not reported

Report Year:	2014
Record Key:	22619
Chemical Inv Recid:	8355
Mx Chemical:	GP-31 Silica
Mx Cas:	60676-86-0
Percentage:	80
Wt Vol:	Not reported
Mx Ehs:	Not reported
Last Modified:	Not reported

Report Year:	2014
Record Key:	22621
Chemical Inv Recid:	8355
Mx Chemical:	Silica Sand
Mx Cas:	60676-86-0
Percentage:	98
Wt Vol:	Not reported
Mx Ehs:	Not reported
Last Modified:	Not reported

Report Year:	2014
Record Key:	22622
Chemical Inv Recid:	8355
Mx Chemical:	Silica sand
Mx Cas:	60676-86-0
Percentage:	98
Wt Vol:	Not reported

AMSTED RAIL CO. INC. (Continued) **S109132532**

Mx Ehs: Not reported
Last Modified: Not reported

Chemical Loc:
Report Year: 2014
Record Key: 12819
Chem Inv Record Id: 8355
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 12820
Chem Inv Record Id: 8355
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 12821
Chem Inv Record Id: 8355
Type Code: Silo
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 27505
Chem Inv Record Id: 8355
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Chem Inv Record Id: 8356
CICAS: 74-98-6
EHS Chemical: Not reported
Chemical Name: PROPANE
Acute: Not reported
Ave Amount: 10000
Ave Amount Code: Not reported
Max Amount: 33000
Max Amount Code: Not reported
Chronic: Not reported
Last Modified: Not reported

AMSTED RAIL CO. INC. (Continued) **S109132532**

Days On Site:	365
Fire:	True
Gas:	True
Liquid:	True
Mixture:	True
Pressure:	Not reported
Pure:	True
Reactive:	True
Solid:	Not reported
Trade Secret:	Not reported

Chemical Mix:

Report Year:	2014
Record Key:	22616
Chemical Inv Recid:	8356
Mx Chemical:	Propane
Mx Cas:	74-98-6
Percentage:	100
Wt Vol:	Not reported
Mx Ehs:	Not reported
Last Modified:	Not reported

Chemical Loc:

Report Year:	2014
Record Key:	12822
Chem Inv Record Id:	8356
Type Code:	Above ground tank
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not reported
Date Last Modified:	Not reported
Amount:	Not reported

Report Year:	2014
Chem Inv Record Id:	8357
CICAS:	7782-44-7
EHS Chemical:	Not reported
Chemical Name:	OXYGEN
Acute:	Not reported
Ave Amount:	65587
Ave Amount Code:	Not reported
Max Amount:	121174
Max Amount Code:	Not reported
Chronic:	Not reported
Last Modified:	Not reported
Days On Site:	365
Fire:	True
Gas:	True
Liquid:	True
Mixture:	True
Pressure:	True
Pure:	True
Reactive:	True
Solid:	Not reported
Trade Secret:	Not reported

AMSTED RAIL CO. INC. (Continued) **S109132532**

Chemical Mix:

Report Year:	2014
Record Key:	29414
Chemical Inv Recid:	8357
Mx Chemical:	Oxygen
Mx Cas:	7782-44-7
Percentage:	100
Wt Vol:	Not reported
Mx Ehs:	Not reported
Last Modified:	Not reported

Chemical Loc:

Report Year:	2014
Record Key:	12823
Chem Inv Record Id:	8357
Type Code:	Above ground tank
Pressure Code:	Greater than ambient pressure
Temperature Code:	Less than ambient temperature but not cryogenic
Location:	Not reported
Date Last Modified:	Not reported
Amount:	Not reported

Report Year:	2014
Chem Inv Record Id:	8358
CICAS:	1344-28-1
EHS Chemical:	Not reported
Chemical Name:	ALUMINUM OXIDE
Acute:	Not reported
Ave Amount:	17563
Ave Amount Code:	Not reported
Max Amount:	26916
Max Amount Code:	Not reported
Chronic:	Not reported
Last Modified:	Not reported
Days On Site:	365
Fire:	Not reported
Gas:	Not reported
Liquid:	Not reported
Mixture:	True
Pressure:	Not reported
Pure:	Not reported
Reactive:	True
Solid:	True
Trade Secret:	Not reported

Chemical Mix:

Report Year:	2014
Record Key:	22533
Chemical Inv Recid:	8358
Mx Chemical:	Magnamix
Mx Cas:	1344-28-1
Percentage:	20
Wt Vol:	Not reported
Mx Ehs:	Not reported
Last Modified:	Not reported

AMSTED RAIL CO. INC. (Continued) **S109132532**

Report Year: 2014
Record Key: 22532
Chemical Inv Recid: 8358
Mx Chemical: Ladle Brick
Mx Cas: 1344-28-1
Percentage: 20
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

Report Year: 2014
Record Key: 22534
Chemical Inv Recid: 8358
Mx Chemical: Narphos 85 Dipping
Mx Cas: 1344-28-1
Percentage: 80
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

Report Year: 2014
Record Key: 22535
Chemical Inv Recid: 8358
Mx Chemical: Hi Al Ram
Mx Cas: 1344-28-1
Percentage: 80
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

Chemical Loc:
Report Year: 2014
Record Key: 12824
Chem Inv Record Id: 8358
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 12825
Chem Inv Record Id: 8358
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 12826
Chem Inv Record Id: 8358
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature

AMSTED RAIL CO. INC. (Continued) **S109132532**

Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 12827
Chem Inv Record Id: 8358
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Chem Inv Record Id: 8359
CICAS: N/A
EHS Chemical: Not reported
Chemical Name: GLASS
Acute: Not reported
Ave Amount: 5000
Ave Amount Code: Not reported
Max Amount: 10000
Max Amount Code: Not reported
Chronic: Not reported
Last Modified: Not reported
Days On Site: 365
Fire: Not reported
Gas: Not reported
Liquid: Not reported
Mixture: True
Pressure: Not reported
Pure: Not reported
Reactive: Not reported
Solid: True
Trade Secret: Not reported

Chemical Mix:
Report Year: 2014
Record Key: 22559
Chemical Inv Recid: 8359
Mx Chemical: Ladle Brick
Mx Cas: Not reported
Percentage: 10
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

Chemical Loc:
Report Year: 2014
Record Key: 12828
Chem Inv Record Id: 8359
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported

AMSTED RAIL CO. INC. (Continued) **S109132532**

Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Chem Inv Record Id: 8360
CICAS: 1302-93-8
EHS Chemical: Not reported
Chemical Name: ALUMINUM SILICATE
Acute: Not reported
Ave Amount: 87227
Ave Amount Code: Not reported
Max Amount: 125073
Max Amount Code: Not reported
Chronic: Not reported
Last Modified: Not reported
Days On Site: 365
Fire: Not reported
Gas: Not reported
Liquid: True
Mixture: True
Pressure: Not reported
Pure: Not reported
Reactive: True
Solid: True
Trade Secret: Not reported

Chemical Mix:
Report Year: 2014
Record Key: 22538
Chemical Inv Recid: 8360
Mx Chemical: Magnamix
Mx Cas: 1302-93-8
Percentage: 55
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

Report Year: 2014
Record Key: 22537
Chemical Inv Recid: 8360
Mx Chemical: Roof Brick
Mx Cas: 1302-93-8
Percentage: 80
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

Report Year: 2014
Record Key: 22536
Chemical Inv Recid: 8360
Mx Chemical: Ladle Brick
Mx Cas: 1302-93-8
Percentage: 60
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

AMSTED RAIL CO. INC. (Continued) **S109132532**

Report Year: 2014
Record Key: 22539
Chemical Inv Recid: 8360
Mx Chemical: Narphos Dipping
Mx Cas: 1302-93-8
Percentage: 7.5
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

Report Year: 2014
Record Key: 22540
Chemical Inv Recid: 8360
Mx Chemical: High AL Ram
Mx Cas: 1302-93-8
Percentage: 7.5
Wt Vol: Not reported
Mx Ehs: Not reported
Last Modified: Not reported

Chemical Loc:
Report Year: 2014
Record Key: 12829
Chem Inv Record Id: 8360
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 12830
Chem Inv Record Id: 8360
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 12831
Chem Inv Record Id: 8360
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 12832
Chem Inv Record Id: 8360
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature

AMSTED RAIL CO. INC. (Continued) **S109132532**

Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2014
Record Key: 12833
Chem Inv Record Id: 8360
Type Code: Other
Pressure Code: Ambient pressure
Temperature Code: Ambient temperature
Location: Not reported
Date Last Modified: Not reported
Amount: Not reported

Report Year: 2013
Facility Id: 1511
State Id: Not reported
Fire District: Keokuk Fire Department
Site Map: Not reported
Site Coord Abbreviation: Not reported
Date Signed: 01/14/2008
Date Modified: 02/21/2014
Dike Or Other Safeguard: Not reported
Mailing Address: Not reported
Mail City: Not reported
Mail State: IA
Mail Zip: Not reported
Latitude: 40.42485
Longitude: -91.42110
Notes: Not reported

Report Year: 2012
Facility Id: FAIDSIT2A00001511
State Id: Not reported
Fire District: Keokuk Fire Department
Site Map: True
Site Coord Abbreviation: False
Date Signed: 02/05/2013
Date Modified: 02/04/2013
Dike Or Other Safeguard: False
Mailing Address: Not reported
Mail City: Not reported
Mail State: Not reported
Mail Zip: Not reported
Latitude: 40.42485
Longitude: -91.42110
Notes: Not reported

Report Year: 2012
Facility Id: FAIDSIT2A00001511
State Id: Not reported
Fire District: Keokuk Fire Department
Site Map: True
Site Coord Abbreviation: False
Date Signed: 01/09/2007

AMSTED RAIL CO. INC. (Continued) **S109132532**

Date Modified:	02/10/2012
Dike Or Other Safeguard:	False
Mailing Address:	Not reported
Mail City:	Not reported
Mail State:	Not reported
Mail Zip:	Not reported
Latitude:	40.42484
Longitude:	-91.42110
Notes:	Not reported
Report Year:	2010
Facility Id:	FAIDSIT2A00001511
State Id:	Not reported
Fire District:	Keokuk Fire Department
Site Map:	True
Site Coord Abbreviation:	False
Date Signed:	2011-02-22T13:14:13
Date Modified:	3/30/2011
Dike Or Other Safeguard:	False
Mailing Address:	Not reported
Mail City:	Not reported
Mail State:	Not reported
Mail Zip:	Not reported
Latitude:	40.424849999999999
Longitude:	-91.421102000000005
Notes:	Not reported
Report Year:	2009
Facility Id:	FAIDSIT2A00001511
State Id:	IA
Fire District:	Keokuk Fire Department
Site Map:	True
Site Coord Abbreviation:	False
Date Signed:	2010-02-10T15:03:24
Date Modified:	2010-02-10T15:02:48
Dike Or Other Safeguard:	False
Mailing Address:	Not reported
Mail City:	Not reported
Mail State:	Not reported
Mail Zip:	Not reported
Latitude:	40.424849999999999
Longitude:	-91.421102000000005
Notes:	Not reported

B10 **AMSTED RAIL CO INC** **RCRA-LQG** **1000228959**
WNW **416 CARBIDE LN** **TRIS** **52632GRFFNCARBI**
< 1/8 **KEOKUK, IA 52632** **US AIRS**
0.009 mi.
45 ft. **Site 2 of 2 in cluster B**

Relative:
Higher

Actual:
664 ft.

RCRA-LQG:

Date form received by agency:	09/09/2014
Facility name:	AMSTED RAIL COMPANY INC
Facility address:	416 CARBIDE LN KEOKUK, IA 52632
EPA ID:	IAD040610529
Mailing address:	CARBIDE LN KEOKUK, IA 52632

AMSTED RAIL CO INC (Continued) **1000228959**

Contact: BRAD C HICKERSON
Contact address: CARBIDE LN
KEOKUK, IA 52632
Contact country: US
Contact telephone: 319 5242962
Telephone ext.: 20747
Contact email: BHICKERSON@GRIFFINWHEEL.COM
EPA Region: 07
Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg 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; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; 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 more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: GRIFFIN WHEEL COMPANY
Owner/operator address: W. MONROE, SUITE 2300
CHICAGO, IL 60606
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 09/01/1976
Owner/Op end date: Not reported

Owner/operator name: AMSTED RAIL COMPANY INC
Owner/operator address: CARBIDE LN
KEOKUK, IA 52632
Owner/operator country: Not reported
Owner/operator telephone: (319) 524-2962
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 09/01/1976
Owner/Op end date: Not reported

Owner/operator name: AMSTED RAIL COMPANY INC
Owner/operator address: CARBIDE LANE
KEOKUK, IA 52632
Owner/operator country: Not reported
Owner/operator telephone: (319) 524-2962
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 09/01/1976
Owner/Op end date: Not reported

Owner/operator name: GRIFFIN WHEEL CO.
Owner/operator address: W. MONROE, SUITE 2300
CHICAGO, IL 60606

AMSTED RAIL CO INC (Continued) **1000228959**

Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 09/01/1976
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: Yes
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

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: UOIL
. Waste name: UOIL

Historical Generators:
Date form received by agency: 01/07/2014
Site name: AMSTED RAIL COMPANY INC
Classification: Large Quantity Generator

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D008
. Waste name: LEAD

Date form received by agency: 03/19/2013
Site name: AMSTED RAIL COMPANY INC
Classification: Large Quantity Generator

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D008
. Waste name: LEAD

AMSTED RAIL CO INC (Continued) **1000228959**

Date form received by agency: 01/11/2012
Site name: AMSTED RAIL COMPANY INC
Classification: Large Quantity Generator

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D008
. Waste name: LEAD

Date form received by agency: 01/19/2010
Site name: AMSTED RAIL COMPANY INC
Classification: Large Quantity Generator

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

Date form received by agency: 03/12/2009
Site name: AMSTED RAIL COMPANY INC
Classification: Large Quantity Generator

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

Date form received by agency: 12/08/2008
Site name: AMSTED RAIL COMPANY INC
Classification: Large Quantity Generator

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D008
. Waste name: LEAD

Date form received by agency: 01/09/2008
Site name: GRIFFIN WHEEL CO
Classification: Large Quantity Generator

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D008

AMSTED RAIL CO INC (Continued) **1000228959**

. Waste name: LEAD

Date form received by agency: 09/13/2006
Site name: GRIFFIN WHEEL CO
Classification: Large Quantity Generator

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D025
. Waste name: P-CRESOL

. Waste code: UOIL
. Waste name: UOIL

Date form received by agency: 01/26/2006
Site name: GRIFFIN WHEEL CO
Classification: Large Quantity Generator

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D025
. Waste name: P-CRESOL

. Waste code: UOIL
. Waste name: UOIL

Date form received by agency: 01/26/2006
Site name: GRIFFIN WHEEL CO
Classification: Large Quantity Generator

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007

AMSTED RAIL CO INC (Continued) **1000228959**

. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D025
. Waste name: P-CRESOL

Date form received by agency: 08/18/2005
Site name: GRIFFIN WHEEL CO
Classification: Large Quantity Generator

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D025
. Waste name: P-CRESOL

. Waste code: UOIL
. Waste name: UOIL

Date form received by agency: 08/16/2004
Site name: GRIFFIN WHEEL CO
Classification: Large Quantity Generator

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

AMSTED RAIL CO INC (Continued) **1000228959**

. Waste code: UOIL
. Waste name: UOIL

Date form received by agency: 02/03/2004
Site name: GRIFFIN WHEEL CO
Classification: Large Quantity Generator

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D008
. Waste name: LEAD

Date form received by agency: 01/22/2002
Site name: GRIFFIN WHEEL CO
Classification: Large Quantity Generator

Date form received by agency: 06/15/2000
Site name: GRIFFIN WHEEL COMPANY
Classification: Large Quantity Generator

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: UOIL
. Waste name: UOIL

Date form received by agency: 06/15/2000
Site name: GRIFFIN WHEEL COMPANY
Classification: Large Quantity Generator

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: UOIL
. Waste name: UOIL

Date form received by agency: 02/15/2000
Site name: GRIFFIN WHEEL CO
Classification: Large Quantity Generator

Date form received by agency: 02/27/1998
Site name: GRIFFIN WHEEL CO
Classification: Large Quantity Generator

AMSTED RAIL CO INC (Continued) **1000228959**

Date form received by agency: 02/27/1996
Site name: GRIFFIN WHEEL COMPANY
Classification: Large Quantity Generator

Date form received by agency: 02/22/1994
Site name: GRIFFIN WHEEL KEOKUK PLANT
Classification: Large Quantity Generator

Date form received by agency: 02/18/1992
Site name: GRIFFIN WHEEL KEOKUK PLANT
Classification: Large Quantity Generator

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:
Waste code: D006
Waste name: CADMIUM
Amount (Lbs): 2595660

Waste code: D008
Waste name: LEAD
Amount (Lbs): 2595660

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: TSD IS-Contingency Plan and Emergency Procedures
Date violation determined: 08/20/2014
Date achieved compliance: 12/03/2014
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/03/2014
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 12/03/2014
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Universal Waste - Small Quantity Handlers
Date violation determined: 08/20/2014
Date achieved compliance: 08/22/2014
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/03/2014
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 12/03/2014
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Universal Waste - Small Quantity Handlers

AMSTED RAIL CO INC (Continued) **1000228959**

Date violation determined: 03/12/2009
Date achieved compliance: 04/02/2009
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/05/2009
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 06/05/2009
Enforcement lead agency: EPA
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: 03/12/2009
Date achieved compliance: 04/02/2009
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/05/2009
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 06/05/2009
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Manifest
Date violation determined: 03/12/2009
Date achieved compliance: 06/05/2009
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/05/2009
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 06/05/2009
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 262.11
Area of violation: Generators - General
Date violation determined: 08/05/2004
Date achieved compliance: 08/20/2004
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/14/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 268.7(a)(3)(iii)
Area of violation: LDR - General
Date violation determined: 08/05/2004

AMSTED RAIL CO INC (Continued) **1000228959**

Date achieved compliance: 08/20/2004
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/14/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 262.20(a)
Area of violation: Generators - Manifest
Date violation determined: 06/15/2000
Date achieved compliance: 06/28/2000
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/16/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 265.16(c)
Area of violation: TSD - General Facility Standards
Date violation determined: 06/15/2000
Date achieved compliance: 06/28/2000
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 02/22/2001
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 09/17/2003
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: 37253
Paid penalty amount: 37253

Regulation violated: FR - CFR 262.34(d)(4), 265.31
Area of violation: TSD - Preparedness and Prevention
Date violation determined: 06/15/2000
Date achieved compliance: 06/27/2000
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 12/29/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 66373
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 265.174
Area of violation: TSD - Container Use and Management
Date violation determined: 06/15/2000
Date achieved compliance: 06/27/2000

AMSTED RAIL CO INC (Continued) **1000228959**

Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/16/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 270.1(b) Sec. 3005 of RCRA
Area of violation: Generators - Pre-transport
Date violation determined: 06/15/2000
Date achieved compliance: 02/22/2001
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/16/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 262.34(d)(4), 265.31
Area of violation: TSD - Preparedness and Prevention
Date violation determined: 06/15/2000
Date achieved compliance: 06/27/2000
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 02/22/2001
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 09/17/2003
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: 37253
Paid penalty amount: 37253

Regulation violated: FR - CFR 265.52(c)
Area of violation: TSD - Contingency Plan and Emergency Procedures
Date violation determined: 06/15/2000
Date achieved compliance: 06/20/2000
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/16/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 265.52(c)
Area of violation: TSD - Contingency Plan and Emergency Procedures
Date violation determined: 06/15/2000
Date achieved compliance: 06/20/2000
Violation lead agency: EPA

AMSTED RAIL CO INC (Continued) **1000228959**

Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 02/22/2001
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 09/17/2003
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: 37253
Paid penalty amount: 37253

Regulation violated: FR - CFR 265.52(e)
Area of violation: TSD - Contingency Plan and Emergency Procedures
Date violation determined: 06/15/2000
Date achieved compliance: 06/20/2000
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 02/22/2001
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 09/17/2003
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: 37253
Paid penalty amount: 37253

Regulation violated: FR - CFR 265.53(a)
Area of violation: TSD - Contingency Plan and Emergency Procedures
Date violation determined: 06/15/2000
Date achieved compliance: 06/20/2000
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/16/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 265.16(c)
Area of violation: TSD - General Facility Standards
Date violation determined: 06/15/2000
Date achieved compliance: 06/28/2000
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/16/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 270.1(b) Sec. 3005 of RCRA
Area of violation: Generators - Pre-transport
Date violation determined: 06/15/2000
Date achieved compliance: 02/22/2001
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE

AMSTED RAIL CO INC (Continued) **1000228959**

Enforcement action date: 12/29/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 66373
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 270.1(b) Sec. 3005 of RCRA
Area of violation: Generators - Pre-transport
Date violation determined: 06/15/2000
Date achieved compliance: 02/22/2001
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 02/22/2001
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 09/17/2003
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: 37253
Paid penalty amount: 37253

Regulation violated: FR - CFR 265.52(c)
Area of violation: TSD - Contingency Plan and Emergency Procedures
Date violation determined: 06/15/2000
Date achieved compliance: 06/20/2000
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 12/29/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 66373
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 265.16(c)
Area of violation: TSD - General Facility Standards
Date violation determined: 06/15/2000
Date achieved compliance: 06/28/2000
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 12/29/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 66373
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 265.52(e)
Area of violation: TSD - Contingency Plan and Emergency Procedures
Date violation determined: 06/15/2000
Date achieved compliance: 06/20/2000
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 12/29/2000

AMSTED RAIL CO INC (Continued) **1000228959**

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 66373
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 265.52(d)
Area of violation: TSD - Contingency Plan and Emergency Procedures
Date violation determined: 06/15/2000
Date achieved compliance: 06/20/2000
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/16/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 265.52(e)
Area of violation: TSD - Contingency Plan and Emergency Procedures
Date violation determined: 06/15/2000
Date achieved compliance: 06/20/2000
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/16/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 262.34(d)(4), 265.31
Area of violation: TSD - Preparedness and Prevention
Date violation determined: 06/15/2000
Date achieved compliance: 06/27/2000
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/16/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 08/20/2014
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Contingency Plan and Emergency Procedures
Date achieved compliance: 12/03/2014
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 08/20/2014

AMSTED RAIL CO INC (Continued) **1000228959**

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Universal Waste - Small Quantity Handlers
Date achieved compliance: 08/22/2014
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 03/12/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Universal Waste - Small Quantity Handlers
Date achieved compliance: 04/02/2009
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 03/12/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Manifest
Date achieved compliance: 06/05/2009
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 03/12/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 04/02/2009
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 08/05/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 08/20/2004
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 08/05/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/20/2004
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 02/22/2001
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 06/16/2000
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 06/15/2000
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Container Use and Management
Date achieved compliance: 06/27/2000
Evaluation lead agency: EPA

Evaluation date: 06/15/2000
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General Facility Standards
Date achieved compliance: 06/28/2000

AMSTED RAIL CO INC (Continued) **1000228959**

Evaluation lead agency: EPA

Evaluation date: 06/15/2000
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Manifest
Date achieved compliance: 06/28/2000
Evaluation lead agency: EPA

Evaluation date: 06/15/2000
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 02/22/2001
Evaluation lead agency: EPA

Evaluation date: 06/15/2000
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Contingency Plan and Emergency Procedures
Date achieved compliance: 06/20/2000
Evaluation lead agency: EPA

Evaluation date: 06/15/2000
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Preparedness and Prevention
Date achieved compliance: 06/27/2000
Evaluation lead agency: EPA

Evaluation date: 03/11/1994
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 08/27/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

TRIS:

Click this hyperlink while viewing on your computer to access
4 additional US_TRIS: record(s) in the EDR Site Report.

US AIRS (AFS):

Envid: 1000228959
Region Code: 07
County Code: IA111
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
D and B Number: Not reported
Facility Site Name: AMSTED RAIL CO INC
Primary SIC Code: 3743
NAICS Code: 336510
Default Air Classification Code: MAJ
Facility Type of Ownership Code: POF
Air CMS Category Code: TVM
HPV Status: Not reported

AMSTED RAIL CO INC (Continued) **1000228959**

US AIRS (AFS):

Region Code:	07
Programmatic ID:	AIR IA0000001911100057
Facility Registry ID:	110000415444
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	MACT Standards (40 CFR Part 63)
Activity Date:	2004-09-02 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported

Region Code:	07
Programmatic ID:	AIR IA0000001911100057
Facility Registry ID:	110000415444
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	MACT Standards (40 CFR Part 63)
Activity Date:	2005-01-10 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported

Region Code:	07
Programmatic ID:	AIR IA0000001911100057
Facility Registry ID:	110000415444
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	MACT Standards (40 CFR Part 63)
Activity Date:	2007-01-18 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported

Region Code:	07
Programmatic ID:	AIR IA0000001911100057
Facility Registry ID:	110000415444
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	MACT Standards (40 CFR Part 63)
Activity Date:	2007-03-30 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported

Region Code:	07
Programmatic ID:	AIR IA0000001911100057
Facility Registry ID:	110000415444
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	MACT Standards (40 CFR Part 63)
Activity Date:	2009-06-18 00:00:00
Activity Status Date:	Not reported

AMSTED RAIL CO INC (Continued) **1000228959**

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2011-02-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2012-03-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2012-04-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2013-01-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ

AMSTED RAIL CO INC (Continued) **1000228959**

Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2014-04-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2014-04-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2015-03-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Operating Permits
Activity Date: 2004-09-02 00:00:00
Activity Status Date: 2004-10-12 10:32:11
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-04-24 00:00:00
Activity Status Date: 2015-04-24 10:27:52
Activity Group: Case File
Activity Type: Case File
Activity Status: Notified

Region Code: 07
Programmatic ID: AIR IA0000001911100057

AMSTED RAIL CO INC (Continued) **1000228959**

Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2005-12-22 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-09-02 00:00:00
Activity Status Date: 2004-10-12 10:32:11
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-05-21 00:00:00
Activity Status Date: 2015-07-13 10:47:45
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-05-21 00:00:00
Activity Status Date: 2015-07-13 10:53:37
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-05-21 00:00:00
Activity Status Date: 2015-07-13 10:55:24
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

AMSTED RAIL CO INC (Continued) **1000228959**

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1978-02-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1978-12-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1979-06-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1980-03-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1980-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

AMSTED RAIL CO INC (Continued) **1000228959**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1981-11-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1982-05-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1983-03-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1983-03-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

AMSTED RAIL CO INC (Continued) **1000228959**

Activity Date: 1984-01-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1985-08-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1986-08-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1987-08-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1987-09-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444

AMSTED RAIL CO INC (Continued) **1000228959**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1988-08-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1989-02-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1990-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1991-03-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1992-04-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

AMSTED RAIL CO INC (Continued) **1000228959**

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1993-03-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1994-04-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1995-04-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-02-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-05-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

AMSTED RAIL CO INC (Continued) **1000228959**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2001-08-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-05-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-05-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-09-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

AMSTED RAIL CO INC (Continued) **1000228959**

Activity Date: 2005-01-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-07-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-09-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-01-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-03-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444

AMSTED RAIL CO INC (Continued) **1000228959**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-01-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-02-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-06-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-02-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-03-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

AMSTED RAIL CO INC (Continued) **1000228959**

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-03-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-04-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-01-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-04-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-04-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

AMSTED RAIL CO INC (Continued) **1000228959**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-03-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1978-07-20 00:00:00
Activity Status Date: 1978-07-20 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1985-10-22 00:00:00
Activity Status Date: 1985-10-22 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-06-11 00:00:00
Activity Status Date: 1999-06-11 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

AMSTED RAIL CO INC (Continued) **1000228959**

Activity Date: 2004-08-02 00:00:00
Activity Status Date: 2004-08-02 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-10-31 00:00:00
Activity Status Date: 2011-10-31 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2015-04-24 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Stratospheric Ozone Protection
Activity Date: 2004-09-02 00:00:00
Activity Status Date: 2004-10-12 10:32:11
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2005-12-22 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444

AMSTED RAIL CO INC (Continued) **1000228959**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-04-08 00:00:00
Activity Status Date: 2015-04-14 09:55:59
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-09-10 00:00:00
Activity Status Date: 2015-09-30 13:52:54
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-05-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-06-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-09-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

AMSTED RAIL CO INC (Continued) **1000228959**

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-01-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-03-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-02-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-02-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

AMSTED RAIL CO INC (Continued) **1000228959**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-02-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-09-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-10-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-01-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

AMSTED RAIL CO INC (Continued) **1000228959**

Activity Date: 2007-03-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-03-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-09-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-09-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-02-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444

AMSTED RAIL CO INC (Continued) **1000228959**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-02-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-02-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-02-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-04-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

AMSTED RAIL CO INC (Continued) **1000228959**

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-04-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-06-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-10-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-10-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-03-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

AMSTED RAIL CO INC (Continued) **1000228959**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-03-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-09-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-01-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-01-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

AMSTED RAIL CO INC (Continued) **1000228959**

Activity Date: 2011-02-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-10-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-10-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-01-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-02-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444

AMSTED RAIL CO INC (Continued) **1000228959**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-02-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-08-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-10-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-01-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-01-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

AMSTED RAIL CO INC (Continued) **1000228959**

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-01-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-09-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-10-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-01-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-04-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

AMSTED RAIL CO INC (Continued) **1000228959**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-04-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-08-02 00:00:00
Activity Status Date: 2004-08-02 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100057
Facility Registry ID: 110000415444
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-10-31 00:00:00
Activity Status Date: 2011-10-31 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

A11 **ELKEM METALS, KEOKUK** **IA ALLSITES** **S111085273**
NNE **356 CARBIDE LANE** **N/A**
< 1/8 **KEOKUK, IA 52632**
0.019 mi.
98 ft. **Site 9 of 9 in cluster A**

Relative:
Lower

Actual:
659 ft.

ALLSITES:
Site Id Number: 1440
Project Manager: Greg Fuhrmann
Ownership Type: Private
Status: Closed
Origin: Environmental Assessment
Program: CERCLA Preremedial
Site Type: Commercial

12
West
< 1/8
0.033 mi.
174 ft.

Relative:
Lower

Actual:
642 ft.

KEOKUK FERRO-SIL, INC. INDUSTRIAL WASTE LANDFILL — **IA SWF/LF** — **S105890935** **N/A**

LEE (County), IA

SWF/LF:

Facility ID:	56-SDP-17-91
Facility Type:	Industrial Landfill
Permit Stage:	Closure
Expiration Date:	4/4/2037
Project Officer:	Leat
Affiliation:	Design Engineer
Phone:	Work: (319) 524-2883
Contact Name:	Gerald Moughler
Contact Title:	Not reported
Contact eMail:	Not reported
Contact Company:	Shoemaker & Haaland Professional Engineers
Contact Address:	2021 Main Street
Contact Address2:	Not reported
Contact City,St,Zip:	Keokuk, IA 52632
Field Office:	6
Loc Supplement:	NE1/4 of NE1/4 of NW1/4 Section 22 T65N, R5W
Latitude:	40.420789
Longitude:	-91.428849

Facility ID:	56-SDP-17-91
Facility Type:	Industrial Landfill
Permit Stage:	Closure
Expiration Date:	4/4/2037
Project Officer:	Leat
Affiliation:	Primary Contact
Phone:	Work: (319) 484-2618
Contact Name:	Carol Wilson
Contact Title:	Not reported
Contact eMail:	Not reported
Contact Company:	CHEM-ECO Environmental
Contact Address:	PO Box 367
Contact Address2:	Not reported
Contact City,St,Zip:	Anamosa, IA 52205
Field Office:	6
Loc Supplement:	NE1/4 of NE1/4 of NW1/4 Section 22 T65N, R5W
Latitude:	40.420789
Longitude:	-91.428849

Facility ID:	56-SDP-17-91
Facility Type:	Industrial Landfill
Permit Stage:	Closure
Expiration Date:	4/4/2037
Project Officer:	Leat
Affiliation:	Responsible Official of Agency served,Automated Email
Phone:	Work: (203) 328-4900
Contact Name:	Stephen Cramer
Contact Title:	Not reported
Contact eMail:	Not reported
Contact Company:	Twin Rivers Holding Company, c/o Glencore, Ltd.
Contact Address:	301 Tresser Blvd.
Contact Address2:	Not reported
Contact City,St,Zip:	Stamford, CT 06901

KEOKUK FERRO-SIL, INC. INDUSTRIAL WASTE LANDFILL (Continued) **S105890935**

Field Office:	6
Loc Supplement:	NE1/4 of NE1/4 of NW1/4 Section 22 T65N, R5W
Latitude:	40.420789
Longitude:	-91.428849

13
East
< 1/8
0.078 mi.
412 ft.

PRYOR TRUCKING INC **IA LUST U003170035**
1304 S NAVAJO DR **IA UST N/A**
KEOKUK, IA 52632

Relative:
Lower

Actual:
630 ft.

LUST:

Facility ID:	2473
Spill Number:	Not reported
Occur Date:	Not reported
Discover Date:	09/06/1991
Discover Time:	UNK
Record Date:	11/15/1991
Leak Number:	8LTR12
Loc ID:	64811
Ust ID:	5629
Latitude:	40.42297
Longitude:	-91.41509
Start Date:	11/15/1991
Spill Date:	Not reported
Date Occurred Time:	UNK
Lead ID:	5
Coordinator ID:	11
Staff ID:	Not reported
Discover Method ID:	5
Leak Status:	Unknown
Tanks Removed:	Not reported
Created Date:	01/08/2007
Created By:	migration
Last Changed:	01/08/2007
Changed By:	migration

Lust Status:

ID:	2474
Site Leak Number:	8LTR12
Discovered During:	Other
Tanks Removed:	00
Leak Cause:	UNK
Gas:	Not reported
Diesel:	Yes
Oil:	Not reported
Kerosene:	Not reported
Released Fuel Oil:	Not reported
Released Hydraulic Oil:	Not reported
Released Other Petroleum:	Not reported
Released Unknown:	Not reported
Released Non_Petroleum Chemical:	Not reported
Gallons Released:	Not reported
Leak Status:	Unknown
Loc Soil:	Not reported
Loc Ground Water:	Yes
Loc Surface Water:	Not reported
Loc Water Supply:	Not reported

PRYOR TRUCKING INC (Continued) **U003170035**

Res Public Water Supply:	Not reported
Resources Water Well:	Not reported
Res Actual Drinking WW:	Not reported
Res Non-Drink WW:	Not reported
Res Soil:	Not reported
Res Ground Water:	Not reported
Res Surface Water:	Not reported
Res Toxic Vapor:	Not reported
Res Explosive Vapor:	Not reported
Res Other:	Not reported
Res Impacted Soil:	Not reported
Res Impacted Ground Water:	Not reported
Res Impacted Water Well:	Not reported
Res Impacted Pub Water Supply:	Not reported
Res Impacted Surface Water:	Not reported
Res Impacted Toxic Vapor:	Not reported
Res Impacted Explosive Vapor:	Not reported
Res Impacted Other:	Not reported
Res Impacted Drinking WW:	Not reported
Res Impacted Non-Drink WW:	Not reported
Res Impacted Potential Non Drink WW:	Not reported
Officials Onsite Health:	Not reported
Officials Onsite Fire:	Not reported
Officials Onsite Law:	Not reported
Officials Onsite Civil:	Not reported
Officials Onsite None:	Not reported
Officials Onsite Unknown:	Yes
Officials Onsite Other:	Not reported
AST:	Not reported
UST/LUST Other:	Not reported
Delete:	False
Status Memo:	Not reported

Lust Cause:

Release Cause:	Unknown

Lust Misc:

Misc Due Date:	Not reported	Misc Rec Date:	Not reported
Misc Other:	Not reported	Misc Title:	Not reported

Lust Remediation:

Heat Treatment:	False
Land Application:	False
On Site:	False
Achieved Over-Excavation:	False
Soil Venting Passive:	False
Soil Venting Active:	False
BioRemediation Passive:	False
BioRemediation Active:	False
In Situ GW Treatment - Air Sparging:	False
Ground Water:	False
Fresh Water:	False
IGT - pH Adjustment:	False
Nutrient:	False
Oxygen:	False
Biological:	False

PRYOR TRUCKING INC (Continued) **U003170035**

Permit Date:	Not reported
Other:	False
Surface Treatment - Carbon Absorption:	False
Biological:	False
ST Other:	False
TDT Sanitary Sewer:	False
TDT Storm Sewer:	False
Stream:	False
TDT Other:	False
Reduced Risk Plugged Well:	False
RR Replace:	False
RR Relocate:	False
RR Other:	False
Delete:	False
Rem Memo:	Not reported

Lust Administration:

ID:	2474
Owner Identified:	Yes
Responsible Party Found:	Yes
RP Date:	11/15/1991
Owner Broke:	No
ER Date:	Not reported
Cost Recovery Start Dt:	Not reported
CR Notice of Intent Dt:	Not reported
CR Appeal of NOI Dt:	Not reported
CR Final Decision Dt:	Not reported
CR EP Comm Lien Approval Dt:	Not reported
CR Lien:	Not reported
CR Ten Yr Renewal Dt:	Not reported
CR Lien Named:	False
CR Remediation:	Not reported
Delete:	False
CR Amnt Received:	Not reported
CR End Date:	Not reported
Memo:	Not reported

Lust Track:

ID:	2474
Site Assesment Start Date:	04/14/1992
Free Product Recvry End Date:	Not reported
FP Letter Sent Date:	Not reported
FP Report Frequency:	Not reported
Assesment Report Due:	Not reported
Assesment Report Received:	Not reported
Assesment Report Approved:	Not reported
Achieved Over-Excavation:	No
Release Not Verified Date:	Not reported
Ref to Contaminated Site Section:	Not reported
Cleanup Start Date:	1994-02-23
Cleanup Complete Date:	1996-01-16
Cleanup Report Due Date:	1995-01-29
Cleanup Report Received Date:	1995-02-23
Cleanup Report Approved Date:	1996-01-16
Check Report Due Date:	Not reported
Check Report Received Date:	Not reported

PRYOR TRUCKING INC (Continued) **U003170035**

Check Report Rejected Date:	Not reported
Check Report Approved Date:	Not reported
Date Classified:	1996-01-16
Risk Classification -NFA:	True
Class - Low Risk:	False
Class - High Risk:	False
Lust Current:	No Action Required
Tier 1 Consultant Recommends:	Not reported
T1 Actual GW Ingestion:	False
T1 Poten GW Ingestion from Protected GW:	False
T1 Poten GW Ingestion from Protected GW:	False
T1 GW Vapor to Enclosed Space:	False
T1 GW to Plastic Water Line:	False
T1 Surface Water:	False
T1 Soil Leaching to GW:	False
T1 Soil Vapor to Enclosed Space:	False
T1 Soil to Plastic Line:	False
Tier 2 Consultant Recommends:	Not reported
T2 Actual GW Ingestion:	Not reported
T2 Poten GW Ingestion from Protected GW:	Not reported
T2 Poten GW Ingestion from Protected GW:	Not reported
T2 GW Vapor to Enclosed Space:	Not reported
T2 GW to Plastic Water Line:	Not reported
T2 SW General Use:	Not reported
T2 SW Designated Use:	Not reported
T2 Soil Leaching to GW:	Not reported
T2 Soil Vapor to Enclosed Space:	Not reported
T2 Soil to Plastic Line:	Not reported
Institutional Control Obtained:	False
NFA Certificate Sent:	Not reported
No Action Required:	**False**
Priority Ranking:	Not reported
Delete:	False
Track Memo:	12/18/91: 'HOLD' LETR RE SF 362 SNT. REC'D 12/20/91.04/09/92: SCR LTR SNT. REC'D 4/14/92. CNSLT DUE 5/14/92. SCR DUE 10/14/92.10/08/93: REC'D SCR.02/23/94: NFA LTR SENT.06/24/94: REC'D LTR: SOIL CONT FOUND @ UST REMOVAL. SENT OE/SCR OPTION LTR.07/05/94: RP REC'D OPT LTR.07/07/94: DISCUSSED OPTIONS.08/02/94: CHOSE SCR.01/16/96: LOW RISK, NO MONITORING.

UST:

Facility Id:	5629
Loc Id:	5629
Registration:	198605275
Owner Type:	6
Financial Code:	Not reported
Insurer's Name:	Not reported
Policy Number:	Not reported
Policy Start Date:	Not reported
Policy End Date:	Not reported
Registration Sign Date:	04/21/1986
Created By:	migration
Created Date:	01/08/2007
Changed By:	migration
Last Changed:	01/08/2007

PRYOR TRUCKING INC (Continued) **U003170035**

Latitude: 40.42297
Longitude: -91.41509

Tank Info:
Tank Num: 15198
In Use: False
Tank Type: 1
Tank Brand Id: Not reported
Inert Material Id: Not reported
Filled In Place: Not reported
Material Construction: Double Wall Steel
Emergency Power Gen: Not reported

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14 **CASEY'S GENERAL STORE #1346** **IA LUST** **U001730628**
ENE **3531 MAIN ST** **IA UST** **N/A**
1/4-1/2 **KEOKUK, IA 52632** **IA Financial Assurance**
0.326 mi.
1720 ft.

Relative:
Higher

Actual:
663 ft.

LUST:
Facility ID: 6204
Spill Number: Not reported
Occur Date: Not reported
Discover Date: 10/24/2006
Discover Time: Not reported
Record Date: 01/09/2007
Leak Number: 9LTM96
Loc ID: 68264
Ust ID: 11757
Latitude: 40.42209
Longitude: -91.40972
Start Date: 01/11/2007
Spill Date: Not reported
Date Occurred Time: Not reported
Lead ID: 4
Coordinator ID: 11
Staff ID: Not reported
Discover Method ID: Not reported
Leak Status: Not reported
Tanks Removed: 0
Created Date: 01/11/2007
Created By: sherry.blaisdell
Last Changed: 08/18/2008
Changed By: Bonnie.Garrison

UST:
Facility Id: 11757
Loc Id: 11757
Registration: 198911985
Owner Type: 6
Financial Code: 01
Insurer's Name: CASEY S MARKETING CO
Policy Number: Not reported
Policy Start Date: 08/25/2008
Policy End Date: 08/25/2009
Registration Sign Date: 01/04/1988
Created By: migration

CASEY'S GENERAL STORE #1346 (Continued) **U001730628**

Created Date: 01/08/2007
Changed By: teresa.barrie@dnr.iowa.gov
Last Changed: 10/12/2009
Latitude: 40.42209
Longitude: -91.40972

Tank Info:
Tank Num: 33658
In Use: True
Tank Type: 1
Tank Brand Id: Not reported
Inert Material Id: Not reported
Filled In Place: False
Material Construction: Double Wall FRP
Emergency Power Gen: False

Tank Num: 33659
In Use: True
Tank Type: 1
Tank Brand Id: Not reported
Inert Material Id: Not reported
Filled In Place: Not reported
Material Construction: Double Wall FRP
Emergency Power Gen: Not reported

IA Financial Assurance 1:
Facility ID: 198911985
Insurers Name: CASEY S MARKETING CO
Policy End Date: 08/25/2009
Site Status: Not reported
Financial Code: 01
Policy Number: Not reported
Policy Start Date: 08/25/2008

C15 **TRELLEX MORSE - KEOKUK** **CERCLIS-NFRAP** **1000289088**
ENE **3588 MAIN ST** **RCRA-CESQG** **IAD075838490**
1/4-1/2 **KEOKUK, IA 52632** **IA UST**
0.341 mi. **US AIRS**
1798 ft. **Site 1 of 2 in cluster C**

Relative:
Lower

Actual:
659 ft.

CERCLIS-NFRAP:
Site ID: 0702723
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 7357919.00000
Person ID: 13000611.00000

CERCLIS-NFRAP Assessment History:
Action: PRELIMINARY ASSESSMENT
Date Started: 01/03/92
Date Completed: 02/01/93
Priority Level: Low priority for further assessment

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Action: DISCOVERY
Date Started: / /
Date Completed: 01/03/92
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 04/09/07
Priority Level: Not reported

Action: SITE INSPECTION
Date Started: 12/16/96
Date Completed: 09/30/99
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

RCRA-CESQG:
Date form received by agency: 05/11/2015
Facility name: MORSE RUBBER LLC
Facility address: 3588 MAIN ST
KEOKUK, IA 52632
EPA ID: IAD075838490
Mailing address: MAIN ST
KEOKUK, IA 52632
Contact: JOHN RECTOR
Contact address: MAIN ST
KEOKUK, IA 52632
Contact country: US
Contact telephone: 319-524-8430
Telephone ext.: 123
Contact email: JOHN.RECTOR@MORSERUBBER.COM
EPA Region: 07
Land type: Private
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any 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: METSO MINERALS INDUSTRIES, INC
Owner/operator address: 3588 MAIN ST
KEOKUK, IA 52632
Owner/operator country: Not reported
Owner/operator telephone: (414) 798-6200
Legal status: Private
Owner/Operator Type: Owner

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: MORSE RUBBER LLC
Owner/operator address: MAIN ST
KEOKUK, IA, 52632
Owner/operator country: US
Owner/operator telephone: 319-524-8430
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 04/28/2015
Owner/Op end date: Not reported

Owner/operator name: MORSE RUBBER LLC
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 03/14/2013
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

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D008
. Waste name: LEAD

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

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

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: 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.

. Waste code: UOIL
. Waste name: UOIL

Historical Generators:
Date form received by agency: 08/13/2013
Site name: MORSE RUBBER LLC
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D008
. Waste name: LEAD

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

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, 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: 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.

. Waste code: UOIL
. Waste name: UOIL

Date form received by agency: 01/02/2006

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Site name: MORSE RUBBER LLC
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D008
. Waste name: LEAD

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

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, 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: 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.

. Waste code: UOIL
. Waste name: UOIL

Date form received by agency: 11/17/2005
Site name: MORSE RUBBER LLC
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D008
. Waste name: LEAD

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

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

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: 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.

. Waste code: UOIL
. Waste name: UOIL

Date form received by agency: 03/29/2005
Site name: METSO MINERALS INDUSTRIES INC
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D008
. Waste name: LEAD

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

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, 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: 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.

. Waste code: UOIL
. Waste name: UOIL

Date form received by agency: 03/29/2005

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Site name: METSO MINERALS INDUSTRIES, INC
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D008
. Waste name: LEAD

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, 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: 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.

Date form received by agency: 09/06/2002
Site name: METSO MINERALS INDUSTRIES INC
Classification: Small Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, 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.

Date form received by agency: 11/20/1996
Site name: METSO MINERALS INDUSTRIES, INC
Classification: Small Quantity Generator

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D018
. Waste name: BENZENE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLORETHYLENE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, 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: UOIL
. Waste name: UOIL

Date form received by agency: 09/12/1994
Site name: METSO MINERALS INDUSTRIES, INC
Classification: Small Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: FR - 40 CFR 262.34
Area of violation: Generators - Pre-transport
Date violation determined: 03/29/2005
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/29/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 262.34(a)(3)
Area of violation: Generators - Pre-transport
Date violation determined: 03/29/2005
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/29/2005

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 273.14(c)
Area of violation: Generators - General
Date violation determined: 03/29/2005
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/29/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 265.34
Area of violation: TSD - Preparedness and Prevention
Date violation determined: 03/29/2005
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/29/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 268.7
Area of violation: LDR - General
Date violation determined: 03/29/2005
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/29/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 262.11
Area of violation: Generators - General
Date violation determined: 03/29/2005
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/29/2005
Enf. disposition status: Not reported

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 262.34(c)(1)
Area of violation: Generators - Pre-transport
Date violation determined: 03/29/2005
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/29/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 03/29/2005
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/29/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 265.174
Area of violation: Generators - Pre-transport
Date violation determined: 11/12/1996
Date achieved compliance: 11/18/1996
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/12/1996
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 262.34(d)(5)(ii)
Area of violation: Generators - General
Date violation determined: 11/12/1996
Date achieved compliance: 11/18/1996
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/12/1996
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 262.11
Area of violation: Generators - General
Date violation determined: 11/12/1996
Date achieved compliance: 05/13/1997
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/12/1996
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 262.34(c)(1)(ii)
Area of violation: Generators - Pre-transport
Date violation determined: 11/12/1996
Date achieved compliance: 11/18/1996
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/12/1996
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 262.34(a)(3)
Area of violation: Generators - Pre-transport
Date violation determined: 11/12/1996
Date achieved compliance: 11/18/1996
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/12/1996
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 265.173(a)
Area of violation: Generators - Pre-transport
Date violation determined: 11/12/1996
Date achieved compliance: 11/18/1996
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/12/1996
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 268.7
Area of violation: LDR - General
Date violation determined: 11/12/1996
Date achieved compliance: 11/18/1996
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/12/1996
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 11/12/1996
Date achieved compliance: 11/18/1996
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/12/1996
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 262.11
Area of violation: Generators - General
Date violation determined: 11/12/1996
Date achieved compliance: 05/13/1997
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/13/1997
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 279.22(c)
Area of violation: Generators - General
Date violation determined: 11/12/1996
Date achieved compliance: 11/18/1996
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/12/1996
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 08/10/1995
Date achieved compliance: 04/29/1996
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/29/1996
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 04/29/1996
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Used Oil - Generators
Date violation determined: 08/10/1995
Date achieved compliance: 04/29/1996
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/29/1996
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 04/29/1996
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Container Use and Management
Date violation determined: 08/10/1995
Date achieved compliance: 04/29/1996
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/29/1996
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 04/29/1996
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 04/28/2015
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 03/29/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: Not reported
Evaluation lead agency: EPA

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Evaluation date: 03/29/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 03/29/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 03/29/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Preparedness and Prevention
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 11/12/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 05/13/1997
Evaluation lead agency: EPA

Evaluation date: 11/12/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 11/18/1996
Evaluation lead agency: EPA

Evaluation date: 11/12/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 11/18/1996
Evaluation lead agency: EPA

Evaluation date: 11/12/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 11/18/1996
Evaluation lead agency: EPA

Evaluation date: 08/10/1995
Evaluation: FOLLOW-UP INSPECTION
Area of violation: Used Oil - Generators
Date achieved compliance: 04/29/1996
Evaluation lead agency: EPA

Evaluation date: 08/10/1995
Evaluation: FOLLOW-UP INSPECTION
Area of violation: Generators - Pre-transport
Date achieved compliance: 04/29/1996
Evaluation lead agency: EPA

Evaluation date: 08/10/1995
Evaluation: FOLLOW-UP INSPECTION
Area of violation: TSD IS-Container Use and Management

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Date achieved compliance: 04/29/1996
Evaluation lead agency: EPA

Evaluation date: 07/19/1994
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

UST:
Facility Id: 2043
Loc Id: 2043
Registration: 198601494
Owner Type: 6
Financial Code: Not reported
Insurer's Name: Not reported
Policy Number: Not reported
Policy Start Date: Not reported
Policy End Date: Not reported
Registration Sign Date: 01/10/1986
Created By: migration
Created Date: 01/08/2007
Changed By: migration
Last Changed: 01/08/2007
Latitude: 40.42247
Longitude: -91.41048

Tank Info:
Tank Num: 4000
In Use: False
Tank Type: 1
Tank Brand Id: Not reported
Inert Material Id: Not reported
Filled In Place: Not reported
Material Construction: Double Wall Steel
Emergency Power Gen: Not reported

Tank Num: 4001
In Use: False
Tank Type: 1
Tank Brand Id: Not reported
Inert Material Id: Not reported
Filled In Place: Not reported
Material Construction: Double Wall Steel
Emergency Power Gen: Not reported

US AIRS (AFS):
Envid: 1000289088
Region Code: 07
County Code: IA111
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
D and B Number: Not reported
Facility Site Name: MORSE RUBBER LLC
Primary SIC Code: 3562
NAICS Code: 332991
Default Air Classification Code: MAJ

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Facility Type of Ownership Code: POF
Air CMS Category Code: TVM
HPV Status: Not reported

US AIRS (AFS):
Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 1998-02-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2000-02-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2001-02-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2004-08-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2006-03-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2008-04-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2010-05-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2012-02-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2014-06-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2000-02-22 00:00:00
Activity Status Date: 2000-02-22 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2004-08-20 00:00:00
Activity Status Date: 2004-08-20 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2005-10-14 00:00:00
Activity Status Date: 2005-10-14 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2006-05-02 00:00:00
Activity Status Date: 2006-05-02 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2013-08-13 00:00:00
Activity Status Date: 2013-08-13 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1977-11-17 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported

Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1979-01-17 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported

Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1982-05-19 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported

Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1983-04-22 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported

Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1989-08-07 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1998-02-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2000-02-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2001-02-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-08-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Activity Date: 2006-03-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-04-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-05-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-02-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-06-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1989-11-27 00:00:00
Activity Status Date: 1989-11-27 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1989-08-17 00:00:00
Activity Status Date: 1989-08-17 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2000-02-22 00:00:00
Activity Status Date: 2000-02-22 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-10-06 00:00:00
Activity Status Date: 2003-10-06 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-05-04 00:00:00
Activity Status Date: 2004-05-04 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2004-06-15 00:00:00
Activity Status Date:	2004-06-15 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Informal
Activity Status:	Achieved

Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2004-08-20 00:00:00
Activity Status Date:	2004-08-20 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Informal
Activity Status:	Achieved

Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2005-10-14 00:00:00
Activity Status Date:	2005-10-14 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Informal
Activity Status:	Achieved

Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2006-05-02 00:00:00
Activity Status Date:	2006-05-02 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Informal
Activity Status:	Achieved

Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2006-05-10 00:00:00
Activity Status Date:	2006-05-10 00:00:00
Activity Group:	Enforcement Action

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-08-13 00:00:00
Activity Status Date: 2013-08-13 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2000-02-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2001-02-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-04-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Activity Date:	2003-05-21 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2004-06-16 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2004-08-20 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2005-04-08 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2005-04-10 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-03-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-03-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-10-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-04-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-04-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-04-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-10-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-03-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-04-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-04-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2008-04-17 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2008-10-16 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2008-10-17 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2009-03-13 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Activity Date: 2009-04-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-04-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-09-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-03-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-03-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-03-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-05-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-09-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-09-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-03-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-04-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-04-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-09-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-02-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-03-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-04-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-04-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-01-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-01-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Activity Date: 2013-03-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-04-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-04-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-09-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-10-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-03-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-06-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-09-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-09-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100020
Facility Registry ID: 110000415480
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-09-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2014-10-13 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported

Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2015-04-06 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported

Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2000-02-22 00:00:00
Activity Status Date:	2000-02-22 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Informal
Activity Status:	Achieved

Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2003-10-06 00:00:00
Activity Status Date:	2003-10-06 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Informal
Activity Status:	Achieved

Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2004-05-04 00:00:00
Activity Status Date:	2004-05-04 00:00:00
Activity Group:	Enforcement Action

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Activity Type:	Administrative - Informal
Activity Status:	Achieved
Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2004-06-15 00:00:00
Activity Status Date:	2004-06-15 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Informal
Activity Status:	Achieved
Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2004-08-20 00:00:00
Activity Status Date:	2004-08-20 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Informal
Activity Status:	Achieved
Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2005-10-14 00:00:00
Activity Status Date:	2005-10-14 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Informal
Activity Status:	Achieved
Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2006-05-02 00:00:00
Activity Status Date:	2006-05-02 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Informal
Activity Status:	Achieved
Region Code:	07
Programmatic ID:	AIR IA0000001911100020
Facility Registry ID:	110000415480
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits

TRELLEX MORSE - KEOKUK (Continued) **1000289088**

Activity Date:	2008-10-22 00:00:00
Activity Status Date:	2008-10-22 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Informal
Activity Status:	Achieved

C16 **TRELLEX MORSE** **IA ALLSITES** **S107669365**
ENE **3588 MAIN STREET** **IA AIRS** **N/A**
1/4-1/2 **KEOKUK, IA 52632**
0.341 mi.
1798 ft. **Site 2 of 2 in cluster C**

Relative:
Lower

Actual:
659 ft.

ALLSITES:

Site Id Number:	508
Project Manager:	Matthew Culp
Ownership Type:	Private
Status:	Open
Origin:	Anonymous Call-In
Program:	Chapter 133
Site Type:	Disposal

AIRS:

Facility Number:	56-01-013
Status:	Not reported
Closed?:	Not reported
Region:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
Facility Contact Phone:	Not reported
Mailing Address:	Not reported
Mailing Address 2:	Not reported
Mailing City,St,Zip:	Not reported
SIC Primary:	3069
NAICS Primary:	326299

D17 **STONE CONTAINER CORP** **IA LUST** **1001286372**
NE **3972 MAIN ST RD** **IA UST** **N/A**
1/4-1/2 **KEOKUK, IA 52632**
0.411 mi.
2169 ft. **Site 1 of 4 in cluster D**

Relative:
Higher

Actual:
661 ft.

LUST:

Facility ID:	4490
Spill Number:	Not reported
Occur Date:	Not reported
Discover Date:	04/06/1989
Discover Time:	Not reported
Record Date:	04/07/1989
Leak Number:	7LTD09
Loc ID:	66940
Ust ID:	9750
Latitude:	40.42545
Longitude:	-91.41220
Start Date:	04/07/1989
Spill Date:	Not reported

STONE CONTAINER CORP (Continued) **1001286372**

Date Occurred Time:	UNK
Lead ID:	4
Coordinator ID:	11
Staff ID:	Not reported
Discover Method ID:	3
Leak Status:	Stopped
Tanks Removed:	Not reported
Created Date:	01/08/2007
Created By:	migration
Last Changed:	01/08/2007
Changed By:	migration

Lust Status:

ID:	4492
Site Leak Number:	7LTD09
Discovered During:	Removal
Tanks Removed:	2
Leak Cause:	UNK
Gas:	Not reported
Diesel:	Not reported
Oil:	Not reported
Kerosene:	Not reported
Released Fuel Oil:	Not reported
Released Hydraulic Oil:	Not reported
Released Other Petroleum:	Yes
Released Unknown:	Not reported
Released Non_Petroleum Chemical:	Not reported
Gallons Released:	000000000000
Leak Status:	Stopped
Loc Soil:	Yes
Loc Ground Water:	Yes
Loc Surface Water:	Not reported
Loc Water Supply:	Not reported
Res Public Water Supply:	Not reported
Resources Water Well:	Not reported
Res Actual Drinking WW:	Not reported
Res Non-Drink WW:	Not reported
Res Soil:	Not reported
Res Ground Water:	Not reported
Res Surface Water:	Not reported
Res Toxic Vapor:	Not reported
Res Explosive Vapor:	Not reported
Res Other:	Yes
Res Impacted Soil:	Not reported
Res Impacted Ground Water:	Not reported
Res Impacted Water Well:	Not reported
Res Impacted Pub Water Supply:	Not reported
Res Impacted Surface Water:	Not reported
Res Impacted Toxic Vapor:	Not reported
Res Impacted Explosive Vapor:	Not reported
Res Impacted Other:	Not reported
Res Impacted Drinking WW:	Not reported
Res Impacted Non-Drink WW:	Not reported
Res Impacted Potential Non Drink WW:	Not reported
Officials Onsite Health:	Not reported
Officials Onsite Fire:	Not reported
Officials Onsite Law:	Not reported
Officials Onsite Civil:	Not reported

STONE CONTAINER CORP (Continued) **1001286372**

Officials Onsite None: Not reported
Officials Onsite Unknown: Not reported
Officials Onsite Other: Not reported
AST: Not reported
UST/LUST Other: Not reported
Delete: False
Status Memo: Not reported

Lust Cause:
Release Cause: Unknown

Lust Misc:
Misc Due Date: 08/02/1990 Misc Rec Date: 07/20/1990
Misc Other: Not reported Misc Title: Not reported

Lust Remediation:
Heat Treatment: False
Land Application: False
On Site: False
Achieved Over-Excavation: True
Soil Venting Passive: False
Soil Venting Active: False
BioRemediation Passive: False
BioRemediation Active: False
In Situ GW Treatment - Air Sparging: False
Ground Water: False
Fresh Water: False
IGT - pH Adjustment: False
Nutrient: False
Oxygen: False
Biological: False
Permit Date: Not reported
Other: False
Surface Treatment - Carbon Absorption: False
Biological: False
ST Other: False
TDT Sanitary Sewer: False
TDT Storm Sewer: False
Stream: False
TDT Other: False
Reduced Risk Plugged Well: False
RR Replace: False
RR Relocate: False
RR Other: False
Delete: False
Rem Memo: Not reported

Lust Administration:
ID: 4492
Owner Identified: No
Responsible Party Found: No
RP Date: Not reported
Owner Broke: No
ER Date: Not reported
Cost Recovery Start Dt: Not reported

STONE CONTAINER CORP (Continued) **1001286372**

CR Notice of Intent Dt:	Not reported
CR Appeal of NOI Dt:	Not reported
CR Final Decision Dt:	Not reported
CR EP Comm Lien Approval Dt:	Not reported
CR Lien:	Not reported
CR Ten Yr Renewal Dt:	Not reported
CR Lien Named:	False
CR Remediation:	Not reported
Delete:	False
CR Amnt Received:	Not reported
CR End Date:	Not reported
Memo:	Not reported

Lust Track:

ID:	4492
Site Assesment Start Date:	04/26/1989
Free Product Recvry End Date:	Not reported
FP Letter Sent Date:	Not reported
FP Report Frequency:	Not reported
Assesment Report Due:	Not reported
Assesment Report Received:	Not reported
Assesment Report Approved:	Not reported
Achieved Over-Excavation:	Yes
Release Not Verified Date:	Not reported
Ref to Contaminated Site Section:	Not reported
Cleanup Start Date:	1991-09-02
Cleanup Complete Date:	1991-09-23
Cleanup Report Due Date:	Not reported
Cleanup Report Received Date:	Not reported
Cleanup Report Approved Date:	Not reported
Check Report Due Date:	Not reported
Check Report Received Date:	Not reported
Check Report Rejected Date:	Not reported
Check Report Approved Date:	Not reported
Date Classified:	1991-09-23
Risk Classification -NFA:	True
Class - Low Risk:	False
Class - High Risk:	False
Lust Current:	No Action Required
Tier 1 Consultant Recommends:	Not reported
T1 Actual GW Ingestion:	False
T1 Poten GW Ingestion from Protected GW:	False
T1 Poten GW Ingestion from Protected GW:	False
T1 GW Vapor to Enclosed Space:	False
T1 GW to Plastic Water Line:	False
T1 Surface Water:	False
T1 Soil Leaching to GW:	False
T1 Soil Vapor to Enclosed Space:	False
T1 Soil to Plastic Line:	False
Tier 2 Consultant Recommends:	Not reported
T2 Actual GW Ingestion:	Not reported
T2 Poten GW Ingestion from Protected GW:	Not reported
T2 Poten GW Ingestion from Protected GW:	Not reported
T2 GW Vapor to Enclosed Space:	Not reported
T2 GW to Plastic Water Line:	Not reported
T2 SW General Use:	Not reported
T2 SW Designated Use:	Not reported

STONE CONTAINER CORP (Continued) **1001286372**

T2 Soil Leaching to GW:	Not reported
T2 Soil Vapor to Enclosed Space:	Not reported
T2 Soil to Plastic Line:	Not reported
Institutional Control Obtained:	False
NFA Certificate Sent:	Not reported
No Action Required:	**False**
Priority Ranking:	Not reported
Delete:	False
Track Memo:	04/21/89: SA LTR SNT. REC'D 4/26/91.05/25/91: LTR RESCINDING SA. FURTHER DOCUMENTAT. OF OE REQUR'D. RPT DUE 8/2/90.09/23/91: 'NO FURTHER ACTION' LTR SNT.

UST:

Facility Id:	9750
Loc Id:	9750
Registration:	198609668
Owner Type:	6
Financial Code:	Not reported
Insurer's Name:	Not reported
Policy Number:	Not reported
Policy Start Date:	Not reported
Policy End Date:	Not reported
Registration Sign Date:	05/27/1986
Created By:	migration
Created Date:	01/08/2007
Changed By:	migration
Last Changed:	01/08/2007
Latitude:	40.42545
Longitude:	-91.41220

Tank Info:

Tank Num:	29179
In Use:	False
Tank Type:	1
Tank Brand Id:	Not reported
Inert Material Id:	Not reported
Filled In Place:	Not reported
Material Construction:	Double Wall Steel
Emergency Power Gen:	Not reported

Tank Num:	29180
In Use:	False
Tank Type:	1
Tank Brand Id:	Not reported
Inert Material Id:	Not reported
Filled In Place:	Not reported
Material Construction:	Double Wall Steel
Emergency Power Gen:	Not reported

D18 **KAST METALS CORPORATION** **CERCLIS-NFRAP** **1000393038**
NE **240 ROYAL RD** **RCRA-CESQG** **IAD980318133**
1/4-1/2 **KEOKUK, IA 52632** **RAATS**
0.411 mi. **WI MANIFEST**
2169 ft. **Site 2 of 4 in cluster D**

Relative:
Higher

Actual:
661 ft.

CERCLIS-NFRAP:
Site ID: 0700221
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 7356935.00000
Person ID: 13000611.00000

CERCLIS-NFRAP Site Alias Name(s):
Alias Name: KEOKUK STEEL CASTING CO (FINDS)
Alias Address: Not reported
IA

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: / /
Date Completed: 02/01/85
Priority Level: Not reported

Action: SITE INSPECTION
Date Started: / /
Date Completed: 10/02/85
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 10/02/85
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: 02/01/85
Date Completed: 10/02/85
Priority Level: Low priority for further assessment

RCRA-CESQG:
Date form received by agency: 01/26/2015
Facility name: KEOKUK STEEL CASTINGS
Facility address: 240 ROYAL RD
KEOKUK, IA 52632
EPA ID: IAD980318133
Mailing address: MAIN ST
KEOKUK, IA 52632
Contact: BRIAN WELLMAN
Contact address: MAIN ST
KEOKUK, IA 52632
Contact country: US
Contact telephone: 319- 526-8280
Contact email: BW1M@MATRIX-SANMARGROUP.COM
EPA Region: 07

KAST METALS CORPORATION (Continued) **1000393038**

Land type: Private
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any 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: MATRIX METALS LLC
Owner/operator address: COLLINS RD
RICHMOND, 77469
Owner/operator country: US
Owner/operator telephone: (281) 342-5511
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 04/01/2008
Owner/Op end date: Not reported

Owner/operator name: KEOKUK STEEL CASTINGS
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1976
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

. Waste code: D001

KAST METALS CORPORATION (Continued) **1000393038**

. Waste name: IGNITABLE WASTE

Historical Generators:
Date form received by agency: 04/07/2014
Site name: KEOKUK STEEL CASTINGS
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

Date form received by agency: 03/24/2014
Site name: KEOKUK STEEL CASTING MATRIX METALS LLC
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D009
. Waste name: MERCURY

. Waste code: U220
. Waste name: BENZENE, METHYL- (OR) TOLUENE

. Waste code: UOIL
. Waste name: UOIL

Date form received by agency: 09/24/2012
Site name: KEOKUK STEEL CASTING MATRIX METALS LLC
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D006
. Waste name: CADMIUM

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

. 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

KAST METALS CORPORATION (Continued) **1000393038**

LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Date form received by agency: 11/17/2010
Site name: KEOKUK STEEL CASTINGS COMPANY
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D008
. Waste name: LEAD

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

Date form received by agency: 02/29/2008
Site name: KEOKUK STEEL CASTINGS COMPANY
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D008
. Waste name: LEAD

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

Date form received by agency: 02/28/2008
Site name: KEOKUK STEEL CASTINGS COMPANY
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D008
. Waste name: LEAD

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

Date form received by agency: 10/25/2007
Site name: KEOKUK STEEL CASTINGS COMPANY
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D008
. Waste name: LEAD

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

Date form received by agency: 10/25/2007
Site name: KEOKUK STEEL CASTINGS COMPANY

KAST METALS CORPORATION (Continued) **1000393038**

Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D008
. Waste name: LEAD

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

Date form received by agency: 10/15/2007
Site name: KEOKUK STEEL CASTINGS INC
Classification: Large Quantity Generator

. Waste code: D008
. Waste name: LEAD

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

Date form received by agency: 11/30/2006
Site name: KEOKUK STEEL CASTINGS INC
Classification: Large Quantity Generator

. Waste code: D008
. Waste name: LEAD

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

Date form received by agency: 06/19/2006
Site name: KEOKUK STEEL CASTINGS INC
Classification: Large Quantity Generator

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

Date form received by agency: 05/12/2006
Site name: KEOKUK STEEL CASTINGS INC
Classification: Large Quantity Generator

. Waste code: D008
. Waste name: LEAD

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

Date form received by agency: 05/12/2006
Site name: KEOKUK STEEL CASTINGS INC
Classification: Large Quantity Generator

. Waste code: D008
. Waste name: LEAD

KAST METALS CORPORATION (Continued) **1000393038**

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

Date form received by agency: 05/12/2006
Site name: KEOKUK STEEL CASTINGS INC
Classification: Large Quantity Generator

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D008
. Waste name: LEAD

Date form received by agency: 02/28/2005
Site name: KEOKUK STEEL CASTINGS INC
Classification: Large Quantity Generator

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D008
. Waste name: LEAD

Date form received by agency: 02/26/2004
Site name: KEOKUK STEEL CASTINGS INC
Classification: Large Quantity Generator

. Waste code: D008
. Waste name: LEAD

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

Date form received by agency: 02/26/2004
Site name: KEOKUK STEEL CASTINGS INC
Classification: Large Quantity Generator

. Waste code: D008
. Waste name: LEAD

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

Date form received by agency: 07/11/2002
Site name: KEOKUK STEEL CASTINGS INC
Classification: Large Quantity Generator

. Waste code: D008
. Waste name: LEAD

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

Date form received by agency: 07/11/2002
Site name: KEOKUK STEEL CASTINGS
Classification: Large Quantity Generator

KAST METALS CORPORATION (Continued) **1000393038**

Date form received by agency: 03/16/2000
Site name: STONE CONTAINER CORP-FORMER SITE OF
Classification: Not a generator, verified

Date form received by agency: 03/01/2000
Site name: KEOKUK STEEL CASTINGS INC
Classification: Large Quantity Generator

Date form received by agency: 02/29/2000
Site name: KEOKUK STEEL CASTINGS INC
Classification: Large Quantity Generator

Date form received by agency: 05/20/1999
Site name: KEOKUK STEEL CASTINGS INC
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

Date form received by agency: 02/29/1996
Site name: KEOKUK STEEL CASTINGS
Classification: Large Quantity Generator

Date form received by agency: 03/09/1994
Site name: STONE CONTAINER CORP-FORMER SITE OF
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 03/09/1994
Site name: STONE CONTAINER CORP-FORMER SITE OF
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D000
. Waste name: Not Defined

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Specific - Precious Metal Recovery
Date violation determined: 03/14/2014
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

KAST METALS CORPORATION (Continued) **1000393038**

Regulation violated: Not reported
Area of violation: TSD IS-Container Use and Management
Date violation determined: 03/14/2014
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 03/14/2014
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 03/14/2014
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Preparedness and Prevention
Date violation determined: 03/14/2014
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

KAST METALS CORPORATION (Continued) **1000393038**

Area of violation: TSD IS-General Facility Standards
Date violation determined: 03/14/2014
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Universal Waste - Small Quantity Handlers
Date violation determined: 03/14/2014
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Contingency Plan and Emergency Procedures
Date violation determined: 09/19/2007
Date achieved compliance: 03/19/2008
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/21/2008
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 04/21/2008
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Universal Waste - Small Quantity Handlers
Date violation determined: 09/19/2007
Date achieved compliance: 03/19/2008
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/21/2008
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 04/21/2008
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-General Facility Standards

KAST METALS CORPORATION (Continued) **1000393038**

Date violation determined: 09/19/2007
Date achieved compliance: 03/19/2008
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/21/2008
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 04/21/2008
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 09/19/2007
Date achieved compliance: 03/19/2008
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/21/2008
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 04/21/2008
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Used Oil - Generators
Date violation determined: 09/19/2007
Date achieved compliance: 03/19/2008
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/21/2008
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 04/21/2008
Enforcement lead agency: EPA
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: 09/19/2007
Date achieved compliance: 03/19/2008
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/21/2008
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 04/21/2008
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Container Use and Management
Date violation determined: 09/19/2007

KAST METALS CORPORATION (Continued) **1000393038**

Date achieved compliance: 03/19/2008
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/21/2008
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 04/21/2008
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 06/07/2006
Date achieved compliance: 02/20/2008
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/19/2007
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 03/18/2008
Enforcement lead agency: EPA
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: 06/07/2006
Date achieved compliance: 11/16/2007
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/18/2007
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 03/18/2008
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Records/Reporting
Date violation determined: 06/07/2006
Date achieved compliance: 12/28/2006
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/18/2007
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 03/18/2008
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 06/07/2006
Date achieved compliance: 12/28/2006

KAST METALS CORPORATION (Continued) **1000393038**

Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/11/2006
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 03/18/2008
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Manifest
Date violation determined: 06/07/2006
Date achieved compliance: 04/24/2007
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/19/2007
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 03/18/2008
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 06/07/2006
Date achieved compliance: 02/20/2008
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/11/2006
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 03/18/2008
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 06/07/2006
Date achieved compliance: 02/20/2008
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/18/2007
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 03/18/2008
Enforcement lead agency: EPA
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: 06/07/2006
Date achieved compliance: 11/16/2007
Violation lead agency: EPA

KAST METALS CORPORATION (Continued) **1000393038**

Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/19/2007
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 03/18/2008
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Manifest
Date violation determined: 06/07/2006
Date achieved compliance: 04/24/2007
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/11/2006
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 03/18/2008
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 06/07/2006
Date achieved compliance: 12/28/2006
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/18/2007
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 03/18/2008
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Records/Reporting
Date violation determined: 06/07/2006
Date achieved compliance: 12/28/2006
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/11/2006
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 03/18/2008
Enforcement lead agency: EPA
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: 06/07/2006
Date achieved compliance: 11/16/2007
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL

KAST METALS CORPORATION (Continued) **1000393038**

Enforcement action date: 10/11/2006
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 03/18/2008
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 06/07/2006
Date achieved compliance: 12/28/2006
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/19/2007
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 03/18/2008
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Manifest
Date violation determined: 06/07/2006
Date achieved compliance: 04/24/2007
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/18/2007
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 03/18/2008
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Records/Reporting
Date violation determined: 06/07/2006
Date achieved compliance: 12/28/2006
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/19/2007
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 03/18/2008
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 262.41
Area of violation: Generators - Records/Reporting
Date violation determined: 05/05/2006
Date achieved compliance: 05/15/2006
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/05/2006

KAST METALS CORPORATION (Continued) **1000393038**

Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 05/15/2006
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.41-Biennial Report
Area of violation: Generators - Records/Reporting
Date violation determined: 06/27/2002
Date achieved compliance: 07/15/2002
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/28/2002
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
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: 08/27/1999
Date achieved compliance: 12/01/2000
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/01/2000
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 12/01/2000
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Specific - Precious Metal Recovery
Date violation determined: 08/27/1999
Date achieved compliance: 12/01/2000
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/01/2000
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 12/01/2000
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 266.70(B)(2)
Area of violation: Generators - Manifest
Date violation determined: 05/19/1999
Date achieved compliance: 12/01/2000
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/01/2000
Enf. disposition status: Action Satisfied (Case Closed)

KAST METALS CORPORATION (Continued) **1000393038**

Enf. disp. status date: 12/01/2000
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 262.11
Area of violation: Generators - General
Date violation determined: 05/19/1999
Date achieved compliance: 12/01/2000
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/01/2000
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 12/01/2000
Enforcement lead agency: EPA
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: 01/10/1985
Date achieved compliance: 08/05/1985
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 07/31/1985
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: 9000
Paid penalty amount: 9000

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 01/10/1985
Date achieved compliance: 08/05/1985
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 02/19/1985
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 12000
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 03/14/2014
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: TSD IS-General Facility Standards
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 03/14/2014
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

KAST METALS CORPORATION (Continued) **1000393038**

Area of violation: Specific - Precious Metal Recovery
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 03/14/2014
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: TSD IS-Container Use and Management
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 03/14/2014
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Container Use and Management
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 03/14/2014
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Preparedness and Prevention
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 03/14/2014
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Generators - Pre-transport
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 03/14/2014
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: TSD IS-Preparedness and Prevention
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 03/14/2014
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-General Facility Standards
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 03/14/2014
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Universal Waste - Small Quantity Handlers
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 03/14/2014
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 03/14/2014
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

KAST METALS CORPORATION (Continued) **1000393038**

Evaluation date: 03/14/2014
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Universal Waste - Small Quantity Handlers
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 03/14/2014
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Specific - Precious Metal Recovery
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 03/14/2014
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Generators - General
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 02/20/2008
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 09/19/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Universal Waste - Small Quantity Handlers
Date achieved compliance: 03/19/2008
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 09/19/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Container Use and Management
Date achieved compliance: 03/19/2008
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 09/19/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 03/19/2008
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 09/19/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Used Oil - Generators
Date achieved compliance: 03/19/2008
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 09/19/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-General Facility Standards
Date achieved compliance: 03/19/2008
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 09/19/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General

KAST METALS CORPORATION (Continued) **1000393038**

Date achieved compliance: 03/19/2008
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 09/19/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Contingency Plan and Emergency Procedures
Date achieved compliance: 03/19/2008
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 10/11/2006
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Generators - Pre-transport
Date achieved compliance: 12/28/2006
Evaluation lead agency: EPA

Evaluation date: 10/11/2006
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Generators - Pre-transport
Date achieved compliance: 02/20/2008
Evaluation lead agency: EPA

Evaluation date: 10/11/2006
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Generators - Records/Reporting
Date achieved compliance: 12/28/2006
Evaluation lead agency: EPA

Evaluation date: 10/11/2006
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Generators - General
Date achieved compliance: 11/16/2007
Evaluation lead agency: EPA

Evaluation date: 10/11/2006
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Generators - Manifest
Date achieved compliance: 04/24/2007
Evaluation lead agency: EPA

Evaluation date: 06/06/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 11/16/2007
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 06/06/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Manifest
Date achieved compliance: 04/24/2007
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 06/06/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 12/28/2006
Evaluation lead agency: EPA Contractor/Grantee

KAST METALS CORPORATION (Continued) **1000393038**

Evaluation date: 06/06/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 02/20/2008
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 06/06/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Records/Reporting
Date achieved compliance: 12/28/2006
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 05/05/2006
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - Records/Reporting
Date achieved compliance: 05/15/2006
Evaluation lead agency: EPA

Evaluation date: 06/27/2002
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - Records/Reporting
Date achieved compliance: 07/15/2002
Evaluation lead agency: EPA

Evaluation date: 08/27/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Specific - Precious Metal Recovery
Date achieved compliance: 12/01/2000
Evaluation lead agency: EPA

Evaluation date: 08/27/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 12/01/2000
Evaluation lead agency: EPA

Evaluation date: 05/19/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 12/01/2000
Evaluation lead agency: EPA

Evaluation date: 05/19/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Manifest
Date achieved compliance: 12/01/2000
Evaluation lead agency: EPA

Evaluation date: 03/10/1994
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 03/09/1994
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported

KAST METALS CORPORATION (Continued) **1000393038**

Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 01/10/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/05/1985
Evaluation lead agency: EPA

WI MANIFEST:
Year: 2004
EPA ID: IAD980318133
FID: 0
ACT Code: 201
ACT Status: A
ACT Code 1: 201
ACT Name: HW Generator - Large
Contact Title: Not reported
Contact Name: Not reported
Contact Address: Not reported
Contact City/State/Zip: Not reported
Contact Telephone: Not reported
Contact EMail Address: Not reported

D19 **KEOKUK STEEL CASTING CO** **IA ALLSITES** **S111348489**
NE **N/A**
1/4-1/2 **KEOKUK, IA**
0.411 mi.
2169 ft. **Site 3 of 4 in cluster D**

Relative:
Higher

Actual:
661 ft.

ALLSITES:
Site Id Number: 1851
Project Manager: Unassigned
Ownership Type: Not Specified
Status: Closed
Origin: NA
Program: Chapter 133
Site Type: Unknown

D20 **FRANK MILLARD & CO., INC. (KEOKUK)** **IA SWF/LF** **S116290120**
NE **3763 MAIN STREET ROAD** **N/A**
1/4-1/2 **KEOKUK, IA 52632**
0.445 mi.
2348 ft. **Site 4 of 4 in cluster D**

Relative:
Higher

Actual:
662 ft.

SWF/LF:
Facility ID: 56-ADP-04-06
Facility Type: Appliance Demanufacturing Permit
Permit Stage: Rescission
Expiration Date: N/A
Project Officer: Johnson
Affiliation: Appliance Demanufacturer
Phone: Work: (319) 752-4571 ext.36Fax: (319) 752-8842
Contact Name: Alan Burden
Contact Title: Shop Foreman
Contact eMail: Not reported

FRANK MILLARD & CO., INC. (KEOKUK) (Continued) **S116290120**

Contact Company: Frank Millard & Co., Inc.
Contact Address: 107 Valley Street
Contact Address2: Not reported
Contact City,St,Zip: Burlington, IA 52601
Field Office: 6
Loc Supplement: Not reported
Latitude: 40.424140
Longitude: -91.410420

21
ESE
1/2-1
0.628 mi.
3318 ft.

Relative:
Higher

Actual:
660 ft.

SHELLER-GLOBE CORP - KEOKUK
3200 MAIN ST
KEOKUK, IA 52632

CERCLIS-NFRAP **1000289049**
CORRACTS **52632SCHLG3200M**
RCRA-TSDF
RCRA-SQG
US ENG CONTROLS
US FIN ASSUR
2020 COR ACTION
TRIS
PRP
US AIRS
WI MANIFEST

CERCLIS-NFRAP:
Site ID: 0700081
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: Deferred to RCRA

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 7357710.00000
Person ID: 13000611.00000

CERCLIS-NFRAP Site Alias Name(s):
Alias Name: UNITED TECHNOLOGIES AUTOMOTIVE (FINDS)
Alias Address: Not reported
IA

Alias Name: SCHLEGEL KEOKUK PLT (FINDS)
Alias Address: Not reported
IA

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: / /
Date Completed: 07/01/80
Priority Level: Not reported

Action: SITE INSPECTION
Date Started: 10/01/83
Date Completed: 10/01/83
Priority Level: Deferred to RCRA (Subtitle C)

Action: PRELIMINARY ASSESSMENT
Date Started: 10/01/83
Date Completed: 10/01/83
Priority Level: Low priority for further assessment

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 12/02/02
Priority Level: Not reported

Action: HEALTH ASSESSMENT
Date Started: 02/15/91
Date Completed: 04/12/96
Priority Level: Not reported

Action: AERIAL SURVEY
Date Started: 07/25/89
Date Completed: 10/25/89
Priority Level: Not reported

CORRACTS:

EPA ID: IAD005136023
EPA Region: 7
Area Name: ENTIRE FACILITY
Actual Date: 19971001
Action: CA001
NAICS Code(s): 326291
Rubber Product Manufacturing for Mechanical Use
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: IAD005136023
EPA Region: 7
Area Name: ENTIRE FACILITY
Actual Date: 20080307
Action: CA770GW
NAICS Code(s): 326291
Rubber Product Manufacturing for Mechanical Use
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: IAD005136023
EPA Region: 7
Area Name: ENTIRE FACILITY
Actual Date: 20080310
Action: CA550RC
NAICS Code(s): 326291
Rubber Product Manufacturing for Mechanical Use
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: IAD005136023
EPA Region: 7
Area Name: ENTIRE FACILITY
Actual Date: 19961211
Action: CA200 - RFI Approved
NAICS Code(s): 326291
Rubber Product Manufacturing for Mechanical Use
Original schedule date: 19961230
Schedule end date: Not reported

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

EPA ID: IAD005136023
EPA Region: 7
Area Name: ENTIRE FACILITY
Actual Date: 19921112
Action: CA150 - RFI Workplan Approved
NAICS Code(s): 326291
Rubber Product Manufacturing for Mechanical Use
Original schedule date: 19921230
Schedule end date: Not reported

EPA ID: IAD005136023
EPA Region: 7
Area Name: ENTIRE FACILITY
Actual Date: 20000313
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s): 326291
Rubber Product Manufacturing for Mechanical Use
Original schedule date: 20051231
Schedule end date: Not reported

EPA ID: IAD005136023
EPA Region: 7
Area Name: ENTIRE FACILITY
Actual Date: 20000313
Action: CA750IN - Migration of Contaminated Groundwater under Control, More information is needed to make a determination
NAICS Code(s): 326291
Rubber Product Manufacturing for Mechanical Use
Original schedule date: 20001231
Schedule end date: Not reported

EPA ID: IAD005136023
EPA Region: 7
Area Name: ENTIRE FACILITY
Actual Date: 20000315
Action: CA260 - CMS Workplan Received
NAICS Code(s): 326291
Rubber Product Manufacturing for Mechanical Use
Original schedule date: 19991215
Schedule end date: Not reported

EPA ID: IAD005136023
EPA Region: 7
Area Name: ENTIRE FACILITY
Actual Date: 20060616
Action: CA500 - CMI Workplan Approved
NAICS Code(s): 326291
Rubber Product Manufacturing for Mechanical Use
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: IAD005136023
EPA Region: 7
Area Name: ENTIRE FACILITY
Actual Date: 19971016
Action: CA075HI - CA Prioritization, Facility or area was assigned a high

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

corrective action priority
NAICS Code(s): 326291
Rubber Product Manufacturing for Mechanical Use
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: IAD005136023
EPA Region: 7
Area Name: ENTIRE FACILITY
Actual Date: 19980619
Action: CA600SR - Stabilization Measures Implemented, Primary measure is source removal and/or treatment
NAICS Code(s): 326291
Rubber Product Manufacturing for Mechanical Use
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: IAD005136023
EPA Region: 7
Area Name: ENTIRE FACILITY
Actual Date: 19890421
Action: CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary
NAICS Code(s): 326291
Rubber Product Manufacturing for Mechanical Use
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: IAD005136023
EPA Region: 7
Area Name: ENTIRE FACILITY
Actual Date: 19890421
Action: CA050RF - RFA Completed, Assessment was an RFA
NAICS Code(s): 326291
Rubber Product Manufacturing for Mechanical Use
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: IAD005136023
EPA Region: 7
Area Name: ENTIRE FACILITY
Actual Date: 19940121
Action: CA190 - RFI Report Received
NAICS Code(s): 326291
Rubber Product Manufacturing for Mechanical Use
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: IAD005136023
EPA Region: 7
Area Name: ENTIRE FACILITY
Actual Date: 20060922
Action: CA400 - Date For Remedy Selection (CM Imposed)
NAICS Code(s): 326291
Rubber Product Manufacturing for Mechanical Use
Original schedule date: Not reported
Schedule end date: Not reported

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

EPA ID: IAD005136023
EPA Region: 7
Area Name: ENTIRE FACILITY
Actual Date: 19920424
Action: CA110 - RFI Workplan Received
NAICS Code(s): 326291
Rubber Product Manufacturing for Mechanical Use
Original schedule date: 19920424
Schedule end date: Not reported

EPA ID: IAD005136023
EPA Region: 7
Area Name: ENTIRE FACILITY
Actual Date: 20010824
Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified
NAICS Code(s): 326291
Rubber Product Manufacturing for Mechanical Use
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: IAD005136023
EPA Region: 7
Area Name: ENTIRE FACILITY
Actual Date: 19921127
Action: CA225NR - Stabilization Measures Evaluation, This facility is, not amenable to stabilization activity at the, present time for reasons other than (1) it appears to be technically, infeasible or inappropriate (NF) or (2) there is a lack of technical, information (IN). Reasons for this conclusion may be the status of, closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other, administrative considerations
NAICS Code(s): 326291
Rubber Product Manufacturing for Mechanical Use
Original schedule date: 19921231
Schedule end date: Not reported

EPA ID: IAD005136023
EPA Region: 7
Area Name: ENTIRE FACILITY
Actual Date: 19920128
Action: CA075ME - CA Prioritization, Facility or area was assigned a medium corrective action priority
NAICS Code(s): 326291
Rubber Product Manufacturing for Mechanical Use
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: IAD005136023
EPA Region: 7
Area Name: ENTIRE FACILITY
Actual Date: 20010328
Action: CA300 - CMS Workplan Approved
NAICS Code(s): 326291
Rubber Product Manufacturing for Mechanical Use
Original schedule date: 20000607

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Schedule end date: Not reported

EPA ID: IAD005136023
EPA Region: 7
Area Name: ENTIRE FACILITY
Actual Date: 19910930
Action: CA250 - CMS Imposition
NAICS Code(s): 326291
Rubber Product Manufacturing for Mechanical Use
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: IAD005136023
EPA Region: 7
Area Name: ENTIRE FACILITY
Actual Date: 19910930
Action: CA100 - RFI Imposition
NAICS Code(s): 326291
Rubber Product Manufacturing for Mechanical Use
Original schedule date: Not reported
Schedule end date: Not reported

RCRA-TSDF:
Date form received by agency: 08/09/2010
Facility name: HENNIGES AUTOMOTIVE IOWA INC
Facility address: 3200 MAIN ST
KEOKUK, IA 52632
EPA ID: IAD005136023
Mailing address: MAIN ST
KEOKUK, IA 52632
Contact: JOE P LEHRTER
Contact address: MAIN ST
KEOKUK, IA 52632
Contact country: US
Contact telephone: 319-524-4560
Telephone ext.: 283
Contact email: JOE.LEHRTER@HENNIGESAUTOMOTIVE.COM
EPA Region: 07
Land type: Private
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste

Owner/Operator Summary:
Owner/operator name: HENNIGES AUTOMOTIVE
Owner/operator address: CORPORATE DR
FARMINGTON HILLS, MI 48331
Owner/operator country: US
Owner/operator telephone: (248) 553-5300
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/2008
Owner/Op end date: Not reported

Owner/operator name: HENNIGES AUTOMOTIVE IOWA
Owner/operator address: MAIN ST

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

KEOKUK, IA 52632
Owner/operator country: Not reported
Owner/operator telephone: (319) 524-4560
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/2008
Owner/Op end date: Not reported

Owner/operator name: METZELER AUTOMATIVE
Owner/operator address: 3200 MAIN ST
KEOKUK, IA 52632
Owner/operator country: Not reported
Owner/operator telephone: (319) 524-4560
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

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

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D022
. Waste name: CHLOROFORM

. 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

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

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.

. Waste code: UOIL
. Waste name: UOIL

Historical Generators:
Date form received by agency: 02/24/2010
Site name: HENNIGES AUTOMOTIVE IOWA INC
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D038
. Waste name: PYRIDINE

. 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.

Date form received by agency: 06/05/2009
Site name: HENNIGES AUTOMOTIVE IOWA INC
Classification: Small Quantity Generator

. Waste code: D001

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

. Waste name: IGNITABLE WASTE

. 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.

Date form received by agency: 02/20/2008
Site name: HENNIGES AUTOMOTIVE
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D005
. Waste name: BARIUM

. Waste code: D018
. Waste name: BENZENE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D038
. Waste name: PYRIDINE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. 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

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 02/06/2008
Site name: HENNIGES AUTOMOTIVE
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D005
. Waste name: BARIUM

. Waste code: D018
. Waste name: BENZENE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D038
. Waste name: PYRIDINE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. 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.

Date form received by agency: 01/31/2006
Site name: METZELER
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

. Waste name: CORROSIVE WASTE

. Waste code: D005
. Waste name: BARIUM

. Waste code: D022
. Waste name: CHLOROFORM

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

. Waste code: D038
. Waste name: PYRIDINE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. 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.

Date form received by agency: 08/09/2005
Site name: METZELER AUTOMOTIVE PROFILE SYSTEMS
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

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

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

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.

Date form received by agency: 02/10/2005
Site name: METZELER AUTOMATIVE PROFILE SYSTEMS
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. 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.

Date form received by agency: 02/02/2004
Site name: METZELER AUTOMOTIVE PROFILE SYSTEMS

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D022
. Waste name: CHLOROFORM

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

. Waste code: D038
. Waste name: PYRIDINE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. 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.

Date form received by agency: 03/01/2002
Site name: METZELER AUTOMATIVE PROFILE SYSTEMS
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

. 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.

Date form received by agency: 02/14/2002
Site name: METZELER AUTOMOTIVE PROFILE SYSTEMS
Classification: Large Quantity Generator

Date form received by agency: 02/07/2000
Site name: METZELER AUTOMATIVE PROFILE SYSTEMS
Classification: Large Quantity Generator

Date form received by agency: 02/04/2000
Site name: BTR SEALING SYSTEM IOWA
Classification: Large Quantity Generator

Date form received by agency: 02/15/1998
Site name: B T R SEALING SYSTEM IOWA
Classification: Large Quantity Generator

Date form received by agency: 03/01/1996
Site name: SCHLEGEL CORP-DUPLICATE ID #
Classification: Not a generator, verified

Date form received by agency: 02/01/1996
Site name: SCHLEGEL KEOKUK PLANT
Classification: Large Quantity Generator

Date form received by agency: 07/19/1994
Site name: SCHLEGEL CORP-DUPLICATE ID #
Classification: Not a generator, verified

. Waste code: NONE
. Waste name: None

Date form received by agency: 03/10/1994
Site name: METZELER AUTOMATIVE PROFILE SYSTEMS
Classification: Large Quantity Generator

. Waste code: D000

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

. Waste name: Not Defined

Date form received by agency: 02/18/1994
Site name: SCHLEGEL SEALING SYSTEMS
Classification: Large Quantity Generator

Date form received by agency: 02/22/1992
Site name: SCHLEGEL SEALING SYSTEMS, INC.
Classification: Large Quantity Generator

Date form received by agency: 02/26/1990
Site name: SHELLER GLOBE CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 11/18/1980
Site name: METZELER AUTOMATIVE PROFILE SYSTEMS
Classification: Not a generator, verified

. 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: 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.

Corrective Action Summary:
Event date: 04/21/1989
Event: RFA Completed, Assessment was an RFA.

Event date: 04/21/1989
Event: RFA Determination Of Need For An RFI, RFI is Necessary;

Event date: 09/30/1991
Event: CMS Imposition

Event date: 09/30/1991
Event: RFI Imposition

Event date: 01/28/1992
Event: CA Prioritization, Facility or area was assigned a medium corrective action priority.

Event date: 04/24/1992
Event: RFI Workplan Received

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Event date:	11/12/1992
Event:	RFI Workplan Approved
Event date:	11/27/1992
Event:	Stabilization Measures Evaluation,This facility is not amenable to stabilization activity at the present time for reasons other than 1- it appears to be technically infeasible or inappropriate (NF) or 2- there is a lack of technical information (IN). Reasons for this conclusion may be the status of closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other administrative considerations.
Event date:	01/21/1994
Event:	RFI Report Received
Event date:	12/11/1996
Event:	RFI Approved
Event date:	10/01/1997
Event:	CA001
Event date:	10/16/1997
Event:	CA Prioritization, Facility or area was assigned a high corrective action priority.
Event date:	06/19/1998
Event:	Stabilization Measures Implemented, Primary measure is source removal and/or treatment (e.g., soil or waste excavation, in-situ soil treatment, off-site treatment).
Event date:	03/13/2000
Event:	Current Human Exposures under Control, Yes, Current Human Exposures Under Control has been verified. Based on a review of information contained in the EI determination, current human exposures are expected to be under control at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.
Event date:	03/13/2000
Event:	Igration of Contaminated Groundwater under Control, More information is needed to make a determination.
Event date:	03/15/2000
Event:	CMS Workplan Received
Event date:	03/28/2001
Event:	CMS Workplan Approved
Event date:	08/24/2001
Event:	Igration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified. Based on a review of information contained in the EI determination, it has been determined that migration of contaminated groundwater is under control at the facility. Specifically, this determination indicates that the migration of contaminated groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

remains within the existing area of contaminated groundwater. This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.

Event date: 06/16/2006
Event: CMI Workplan Approved

Event date: 09/22/2006
Event: Date For Remedy Selection (CM Imposed)

Event date: 03/07/2008
Event: CA770GW

Event date: 03/10/2008
Event: CA550RC

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 04/05/2012
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 07/20/2010
Date achieved compliance: 08/25/2010
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/29/2010
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 11/29/2010
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Container Use and Management
Date violation determined: 07/20/2010
Date achieved compliance: 08/03/2010
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/29/2010
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 11/29/2010
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Used Oil - Generators
Date violation determined: 07/20/2010
Date achieved compliance: 08/25/2010
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/29/2010
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 11/29/2010
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Universal Waste - Small Quantity Handlers
Date violation determined: 07/20/2010
Date achieved compliance: 08/03/2010
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/29/2010
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 11/29/2010
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 262.34(2)
Area of violation: Generators - Pre-transport
Date violation determined: 08/09/2005
Date achieved compliance: 08/22/2005
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/21/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 273.13(d)(1)
Area of violation: Generators - General
Date violation determined: 08/09/2005
Date achieved compliance: 08/22/2005
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/21/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Regulation violated: FR - 40 CFR 262.11
Area of violation: Generators - General
Date violation determined: 04/04/2001
Date achieved compliance: 04/27/2001
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/04/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 265.16(e)
Area of violation: TSD - General Facility Standards
Date violation determined: 04/04/2001
Date achieved compliance: 04/27/2001
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/04/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 265.16(d)(3)
Area of violation: TSD - General Facility Standards
Date violation determined: 04/04/2001
Date achieved compliance: 04/27/2001
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/04/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 262.34(a)(4)
Area of violation: Generators - Pre-transport
Date violation determined: 04/04/2001
Date achieved compliance: 04/27/2001
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/04/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 279.22(d)(3)

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Area of violation: TSD - General
Date violation determined: 04/04/2001
Date achieved compliance: 04/27/2001
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/04/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 262.34(a)(1)(i)
Area of violation: Generators - Pre-transport
Date violation determined: 04/04/2001
Date achieved compliance: 04/27/2001
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/04/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 265.16(c)
Area of violation: TSD - General Facility Standards
Date violation determined: 04/04/2001
Date achieved compliance: 04/27/2001
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/04/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 265.16(b)
Area of violation: TSD - General Facility Standards
Date violation determined: 04/04/2001
Date achieved compliance: 04/27/2001
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/04/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 262.20(a)
Area of violation: Generators - Manifest

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Date violation determined: 04/04/2001
Date achieved compliance: 04/27/2001
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/04/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 279.22(c)(1)
Area of violation: TSD - General
Date violation determined: 04/04/2001
Date achieved compliance: 04/27/2001
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/04/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 262.34(c)(1)(i)
Area of violation: Generators - Pre-transport
Date violation determined: 04/04/2001
Date achieved compliance: 04/27/2001
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/04/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 265.15(D)
Area of violation: TSD - General Facility Standards
Date violation determined: 03/04/1991
Date achieved compliance: 03/14/1991
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/04/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - CFR 265.16(D)
Area of violation: Generators - General
Date violation determined: 03/04/1991

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Date achieved compliance: 04/30/1991
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/04/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 09/28/1988
Date achieved compliance: 04/11/1989
Violation lead agency: EPA
Enforcement action: FINAL 3008(H) I.S. CA ORDER
Enforcement action date: 09/30/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 08/02/1988
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Container Use and Management
Date violation determined: 08/02/1988
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 02/02/1988
Date achieved compliance: 10/26/1988

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/18/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 02/02/1988
Date achieved compliance: 10/26/1988
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 03/18/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 89259
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 02/02/1988
Date achieved compliance: 10/26/1988
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 03/18/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 89259
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 02/02/1988
Date achieved compliance: 10/26/1988
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 03/18/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 89259
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 02/02/1988
Date achieved compliance: 10/26/1988
Violation lead agency: EPA

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 03/18/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 89259
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 06/09/1987
Date achieved compliance: 07/09/1987
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/09/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Records/Reporting
Date violation determined: 04/01/1986
Date achieved compliance: 04/10/1986
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/10/1986
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 04/10/1986
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 12/12/1985
Date achieved compliance: 04/11/1989
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 08/27/1985
Date achieved compliance: 01/14/1988
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Enforcement action date: 01/19/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: 33760
Paid penalty amount: 33760

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 08/27/1985
Date achieved compliance: 01/14/1988
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 03/31/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 44930
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 08/27/1985
Date achieved compliance: 01/14/1988
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/12/1986
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 08/27/1985
Date achieved compliance: 01/14/1988
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/28/1985
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 05/13/1985
Date achieved compliance: 06/05/1985
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/23/1985

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 04/12/1985
Date achieved compliance: 09/15/1988
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 01/19/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: 33760
Paid penalty amount: 33760

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 04/12/1985
Date achieved compliance: 09/15/1988
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/12/1985
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 04/12/1985
Date achieved compliance: 09/15/1988
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/28/1985
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 04/12/1985
Date achieved compliance: 09/15/1988
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/28/1985
Enf. disposition status: Not reported

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 04/12/1985
Date achieved compliance: 09/15/1988
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/18/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 04/12/1985
Date achieved compliance: 09/15/1988
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 03/31/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 44930
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 04/12/1985
Date achieved compliance: 09/15/1988
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 03/31/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 44930
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 04/12/1985
Date achieved compliance: 09/15/1988
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/18/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 04/12/1985
Date achieved compliance: 09/15/1988
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 01/19/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: 33760
Paid penalty amount: 33760

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 11/06/1984
Date achieved compliance: 12/03/1984
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/20/1984
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 03/09/1984
Date achieved compliance: 03/12/1984
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/09/1984
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 03/09/1984
Date achieved compliance: 06/15/1985
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/09/1984
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 01/04/1984
Date achieved compliance: 12/03/1984
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/24/1984
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 01/04/1984
Date achieved compliance: 03/12/1984
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/24/1984
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 01/04/1984
Date achieved compliance: 03/12/1984
Violation lead agency: EPA
Enforcement action: INITIAL MONITORING,ANALYSIS,TEST ORDER
Enforcement action date: 02/08/1984
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 04/05/2012
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 07/20/2010
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Universal Waste - Small Quantity Handlers
Date achieved compliance: 08/03/2010

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 07/20/2010
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 08/25/2010
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 07/20/2010
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Container Use and Management
Date achieved compliance: 08/03/2010
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 07/20/2010
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Used Oil - Generators
Date achieved compliance: 08/25/2010
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 04/23/2008
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 04/13/2006
Evaluation: COMPLIANCE ASSISTANCE VISIT
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 08/09/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 08/22/2005
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 08/09/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/22/2005
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 03/31/2004
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 09/20/2000
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 04/27/2001
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 09/20/2000

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 04/27/2001
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 09/20/2000
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General Facility Standards
Date achieved compliance: 04/27/2001
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 09/20/2000
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Manifest
Date achieved compliance: 04/27/2001
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 09/20/2000
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 04/27/2001
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 02/17/1995
Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 02/09/1995
Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 02/07/1995
Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 07/19/1994
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 03/10/1994
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 02/25/1994
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Evaluation lead agency: EPA

Evaluation date: 03/04/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 04/30/1991
Evaluation lead agency: EPA

Evaluation date: 03/04/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General Facility Standards
Date achieved compliance: 03/14/1991
Evaluation lead agency: EPA

Evaluation date: 04/11/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 09/28/1988
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: TSD - General
Date achieved compliance: 04/11/1989
Evaluation lead agency: EPA

Evaluation date: 08/02/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Container Use and Management
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 08/02/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 02/02/1988
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 10/26/1988
Evaluation lead agency: EPA

Evaluation date: 02/02/1988
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 10/26/1988
Evaluation lead agency: EPA

Evaluation date: 02/02/1988
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 10/26/1988
Evaluation lead agency: EPA

Evaluation date: 02/02/1988

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - General
Date achieved compliance: 10/26/1988
Evaluation lead agency: EPA

Evaluation date: 06/18/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 09/15/1988
Evaluation lead agency: EPA

Evaluation date: 06/18/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 01/14/1988
Evaluation lead agency: EPA

Evaluation date: 06/18/1987
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 06/18/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Financial Requirements
Date achieved compliance: 09/15/1988
Evaluation lead agency: EPA

Evaluation date: 06/09/1987
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD - General
Date achieved compliance: 07/09/1987
Evaluation lead agency: EPA

Evaluation date: 04/01/1986
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - Records/Reporting
Date achieved compliance: 04/10/1986
Evaluation lead agency: EPA

Evaluation date: 01/21/1986
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 12/12/1985
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 04/11/1989
Evaluation lead agency: EPA

Evaluation date: 08/27/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 01/14/1988

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Evaluation lead agency: EPA

Evaluation date: 08/27/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Financial Requirements
Date achieved compliance: 09/15/1988
Evaluation lead agency: EPA

Evaluation date: 05/13/1985
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: TSD - General
Date achieved compliance: 06/05/1985
Evaluation lead agency: EPA

Evaluation date: 04/12/1985
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 09/15/1988
Evaluation lead agency: EPA

Evaluation date: 04/12/1985
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 09/15/1988
Evaluation lead agency: EPA

Evaluation date: 11/06/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 12/03/1984
Evaluation lead agency: EPA

Evaluation date: 03/09/1984
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 06/15/1985
Evaluation lead agency: EPA

Evaluation date: 03/09/1984
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 03/12/1984
Evaluation lead agency: EPA

Evaluation date: 01/04/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 12/03/1984
Evaluation lead agency: EPA

Evaluation date: 01/04/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Financial Requirements
Date achieved compliance: 03/12/1984
Evaluation lead agency: EPA

US ENG CONTROLS:
EPA ID: IAD005136023

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Site ID: Not reported
Name: HENNIGES AUTOMOTIVE IOWA INC
Address: 3200 MAIN ST
KEOKUK, IA 52632
EPA Region: 07
County: LEE
Event Code: CA770GW
Actual Date: 03/07/2008
Contact Name: JOE P LEHRTER
Contact Phone and Ext: 319-524-4560 283
Latitude: 40
Longitude: -91

Action ID: Not reported
Action Name: Not reported
Action Completion date: 01/01/1900
Operable Unit: Not reported
Contaminated Media : Not reported
Engineering Control: Not reported
Contact Name: JOE P LEHRTER
Contact Phone and Ext: 319-524-4560 283
Latitude: 40
Longitude: -91

US FIN ASSUR:
EPA ID: IAD005136023
Provider: FIDELITY AND DEPOSIT COMPANY OF MARYLAND
EPA region: 7
County: LEE
Mechanism type: SURETY BOND GUARANTEEING PERFORMANCE
Mechanism ID: 8966140
Cost estimate: 277489
Face value: 277489
Effective date: 4/24/2009

EPA ID: IAD005136023
Provider: U.S. BANK NATIONAL ASSOCIATION (N.A.)
EPA region: 7
County: LEE
Mechanism type: STANDBY TRUST
Mechanism ID: N/A
Cost estimate: 277489
Face value: 0
Effective date: 4/20/2010

2020 COR ACTION:
EPA ID: IAD005136023
Region: 7
Action: Remedy Constructed

TRIS:

Click this hyperlink while viewing on your computer to access
3 additional US_TRIS: record(s) in the EDR Site Report.

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

PRP:
PRP name: SHELLER GLOBE CORP.

US AIRS (AFS):
Envid: 1000289049
Region Code: 07
County Code: IA111
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
D and B Number: Not reported
Facility Site Name: HENNIGES AUTOMOTIVE IOWA INC
Primary SIC Code: 3061
NAICS Code: 326291
Default Air Classification Code: MAJ
Facility Type of Ownership Code: POF
Air CMS Category Code: TVM
HPV Status: Not reported

US AIRS (AFS):
Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2014-05-14 00:00:00
Activity Status Date: 2014-06-30 15:13:42
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2006-05-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2008-06-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2009-04-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2010-09-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2010-11-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2012-02-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2013-11-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2014-05-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2006-05-11 00:00:00
Activity Status Date: 2006-05-11 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2000-09-15 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2003-10-30 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-05-14 00:00:00
Activity Status Date: 2014-06-30 15:13:42
Activity Group: Compliance Monitoring

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-05-13 00:00:00
Activity Status Date: 2015-07-09 11:21:00
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1978-01-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1983-01-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1987-02-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Activity Date:	1988-03-30 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	07
Programmatic ID:	AIR IA0000001911100105
Facility Registry ID:	110013331983
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1989-10-13 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	07
Programmatic ID:	AIR IA0000001911100105
Facility Registry ID:	110013331983
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1991-10-23 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	07
Programmatic ID:	AIR IA0000001911100105
Facility Registry ID:	110013331983
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1993-10-26 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	07
Programmatic ID:	AIR IA0000001911100105
Facility Registry ID:	110013331983
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1994-11-08 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	07
Programmatic ID:	AIR IA0000001911100105
Facility Registry ID:	110013331983

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-06-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-11-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2000-03-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2002-06-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-07-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-06-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-06-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-05-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-06-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-04-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-09-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-11-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-02-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-11-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Activity Date:	2014-01-07 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	07
Programmatic ID:	AIR IA0000001911100105
Facility Registry ID:	110013331983
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2014-05-14 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	07
Programmatic ID:	AIR IA0000001911100105
Facility Registry ID:	110013331983
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2000-06-27 00:00:00
Activity Status Date:	2000-06-27 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Formal
Activity Status:	Final Order Issued
Region Code:	07
Programmatic ID:	AIR IA0000001911100105
Facility Registry ID:	110013331983
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2000-09-15 00:00:00
Activity Status Date:	2000-09-15 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Formal
Activity Status:	Final Order Issued
Region Code:	07
Programmatic ID:	AIR IA0000001911100105
Facility Registry ID:	110013331983
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1987-03-02 00:00:00
Activity Status Date:	1987-03-02 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Informal
Activity Status:	Achieved
Region Code:	07
Programmatic ID:	AIR IA0000001911100105
Facility Registry ID:	110013331983

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2000-04-14 00:00:00
Activity Status Date: 2000-04-14 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2000-05-30 00:00:00
Activity Status Date: 2000-05-30 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2002-06-24 00:00:00
Activity Status Date: 2002-06-24 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-05-08 00:00:00
Activity Status Date: 2003-05-08 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-05-22 00:00:00
Activity Status Date: 2003-05-22 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-04-14 00:00:00
Activity Status Date: 2005-04-14 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-09-21 00:00:00
Activity Status Date: 2005-09-21 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-05-11 00:00:00
Activity Status Date: 2006-05-11 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-03-17 00:00:00
Activity Status Date: 2010-03-17 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2000-08-28 00:00:00
Activity Status Date: 2000-08-28 00:00:00
Activity Group: Enforcement Action

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Activity Type: Judicial
Activity Status: Closed

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-10-09 00:00:00
Activity Status Date: 2003-10-09 00:00:00
Activity Group: Enforcement Action
Activity Type: Judicial
Activity Status: Closed

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-04-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-05-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-04-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Activity Date: 2006-04-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-05-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-09-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-03-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-03-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-09-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-09-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-04-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-04-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-06-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-09-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-10-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-03-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-04-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-04-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-04-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-09-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-09-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-03-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Activity Date: 2010-03-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-03-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-09-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-11-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-11-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2010-11-08 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported

Region Code:	07
Programmatic ID:	AIR IA0000001911100105
Facility Registry ID:	110013331983
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2011-03-01 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported

Region Code:	07
Programmatic ID:	AIR IA0000001911100105
Facility Registry ID:	110013331983
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2011-03-02 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported

Region Code:	07
Programmatic ID:	AIR IA0000001911100105
Facility Registry ID:	110013331983
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2011-03-08 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported

Region Code:	07
Programmatic ID:	AIR IA0000001911100105
Facility Registry ID:	110013331983
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2011-09-12 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-09-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-02-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-03-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-03-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-03-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	07
Programmatic ID:	AIR IA0000001911100105
Facility Registry ID:	110013331983
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2012-09-19 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	07
Programmatic ID:	AIR IA0000001911100105
Facility Registry ID:	110013331983
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2012-10-08 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	07
Programmatic ID:	AIR IA0000001911100105
Facility Registry ID:	110013331983
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2013-03-21 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	07
Programmatic ID:	AIR IA0000001911100105
Facility Registry ID:	110013331983
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2013-03-24 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	07
Programmatic ID:	AIR IA0000001911100105
Facility Registry ID:	110013331983
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Activity Date: 2013-03-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-09-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-10-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-11-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-03-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-04-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-04-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-09-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-10-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-04-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-04-14 00:00:00
Activity Status Date: 2005-04-14 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-05-11 00:00:00
Activity Status Date: 2006-05-11 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-04-17 00:00:00
Activity Status Date: 2008-04-17 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 07
Programmatic ID: AIR IA0000001911100105
Facility Registry ID: 110013331983
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-10-20 00:00:00
Activity Status Date: 2010-10-20 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

WI MANIFEST:
Year: 2011
EPA ID: IAD005136023
FID: 999089850
ACT Code: 201
ACT Status: A
ACT Code 1: 201
ACT Name: HW Generator - Large

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Contact Title: Not reported
Contact Name: MICHAEL STONE
Contact Address: 3200 MAIN ST
Contact City/State/Zip: KEOKUK, IA 52632
Contact Telephone: 3195244560
Contact EMail Address: Not reported

Shipped:
Year: 2011
Manifest Doc Id: 001451490JJK
Copy Type: TSDCOPY
Gen EPA ID: IAD005136023
Gen Date: 03/02/2011
GEN Copy Revd Date: Not reported
TSD Date: 03/03/2011
TSD EPA ID: WID988580056
TSD Copy Revd Date: 04/05/2011

Year: 2010
EPA ID: IAD005136023
FID: 999089850
ACT Code: 201
ACT Status: A
ACT Code 1: 201
ACT Name: HW Generator - Large
Contact Title: Not reported
Contact Name: MICHAEL STONE
Contact Address: 3200 MAIN ST
Contact City/State/Zip: KEOKUK, IA 52632
Contact Telephone: 3195244560
Contact EMail Address: Not reported

Shipped:
Year: 2010
Manifest Doc Id: 001451456JJK
Copy Type: TSDCOPY
Gen EPA ID: IAD005136023
Gen Date: 06/08/2010
GEN Copy Revd Date: Not reported
TSD Date: 06/09/2010
TSD EPA ID: WID988580056
TSD Copy Revd Date: 06/28/2010

Year: 2009
EPA ID: IAD005136023
FID: 999089850
ACT Code: 201
ACT Status: A
ACT Code 1: 201
ACT Name: HW Generator - Large
Contact Title: Not reported
Contact Name: MICHAEL STONE
Contact Address: 3200 MAIN ST
Contact City/State/Zip: KEOKUK, IA 52632

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Contact Telephone: 3195244560
Contact EMail Address: Not reported

Shipped:
Year: 2009
Manifest Doc Id: 001451422JJK
Copy Type: TSDCOPY
Gen EPA ID: IAD005136023
Gen Date: 12/01/2009
GEN Copy Revd Date: Not reported
TSD Date: 12/03/2009
TSD EPA ID: WID988580056
TSD Copy Revd Date: 01/05/2010

Year: 2009
Manifest Doc Id: 001451375JJK
Copy Type: TSDCOPY
Gen EPA ID: IAD005136023
Gen Date: 03/03/2009
GEN Copy Revd Date: Not reported
TSD Date: 03/05/2009
TSD EPA ID: WID988580056
TSD Copy Revd Date: 04/09/2009

Year: 2009
Manifest Doc Id: 001451392JJK
Copy Type: TSDCOPY
Gen EPA ID: IAD005136023
Gen Date: 06/02/2009
GEN Copy Revd Date: Not reported
TSD Date: 06/04/2009
TSD EPA ID: WID988580056
TSD Copy Revd Date: 06/24/2009

Year: 2008
EPA ID: IAD005136023
FID: 999089850
ACT Code: 201
ACT Status: A
ACT Code 1: 201
ACT Name: HW Generator - Large
Contact Title: Not reported
Contact Name: MICHAEL STONE
Contact Address: 3200 MAIN ST
Contact City/State/Zip: KEOKUK, IA 52632
Contact Telephone: 3195244560
Contact EMail Address: Not reported

Year: 2007
EPA ID: IAD005136023
FID: 999089850
ACT Code: 201
ACT Status: A
ACT Code 1: 201
ACT Name: HW Generator - Large

SHELLER-GLOBE CORP - KEOKUK (Continued) **1000289049**

Contact Title: Not reported
Contact Name: MICHAEL STONE
Contact Address: 3200 MAIN ST
Contact City/State/Zip: KEOKUK, IA 52632
Contact Telephone: 3195244560
Contact EMail Address: Not reported

Year: 2006
EPA ID: IAD005136023
FID: 999089850
ACT Code: 201
ACT Status: A
ACT Code 1: 201
ACT Name: HW Generator - Large
Contact Title: Not reported
Contact Name: MICHAEL STONE
Contact Address: 3200 MAIN ST
Contact City/State/Zip: KEOKUK, IA 52632
Contact Telephone: 3195244560
Contact EMail Address: Not reported

Year: 2005
EPA ID: IAD005136023
FID: 999089850
ACT Code: 201
ACT Status: A
ACT Code 1: 201
ACT Name: HW Generator - Large
Contact Title: Not reported
Contact Name: MICHAEL STONE
Contact Address: 3200 MAIN ST
Contact City/State/Zip: KEOKUK, IA 52632
Contact Telephone: 3195244560
Contact EMail Address: Not reported

Year: 2004
EPA ID: IAD005136023
FID: 999089850
ACT Code: 201
ACT Status: A
ACT Code 1: 201
ACT Name: HW Generator - Large
Contact Title: Not reported
Contact Name: MICHAEL STONE
Contact Address: 3200 MAIN ST
Contact City/State/Zip: KEOKUK, IA 52632
Contact Telephone: 3195244560
Contact EMail Address: Not reported

Count: 1 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
KEOKUK	1014626551	CARBIDE	.5 MI N. OF CARBIDE LN. HWY 61	52632	PCB TRANSFORMER

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

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

Date of Government Version: 10/30/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: EPA
Telephone: N/A
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

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

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

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

Date of Government Version: 10/30/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: EPA
Telephone: N/A
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

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

Date of Government Version: 10/15/1991
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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

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

Date of Government Version: 10/30/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: EPA
Telephone: N/A
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/18/2016
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: 03/26/2015
Date Data Arrived at EDR: 04/08/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/06/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Varies

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

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

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 11/23/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

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

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 11/23/2015
Next Scheduled EDR Contact: 03/07/2016
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: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

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

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

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

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

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

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

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

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Varies

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: 05/28/2015
Date Data Arrived at EDR: 05/29/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 13

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/13/2015
Next Scheduled EDR Contact: 02/29/2016
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: 09/10/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 53

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/24/2015
Next Scheduled EDR Contact: 03/14/2016
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: 09/10/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 53

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/24/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

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

Date of Government Version: 06/22/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/29/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Registry of Hazardous Waste or Hazardous Substance 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: 12/31/2014
Date Data Arrived at EDR: 01/23/2015
Date Made Active in Reports: 02/19/2015
Number of Days to Update: 27

Source: Department of Natural Resources
Telephone: 515-281-8801
Last EDR Contact: 10/19/2015
Next Scheduled EDR Contact: 02/01/2016
Data Release Frequency: Annually

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

SWF/LF: Permitted Solid Waste Management Facilities

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: 09/08/2015
Date Data Arrived at EDR: 09/09/2015
Date Made Active in Reports: 10/21/2015
Number of Days to Update: 42

Source: Department of Natural Resources
Telephone: 515-281-8801
Last EDR Contact: 12/09/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Data

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

Date of Government Version: 09/08/2015
Date Data Arrived at EDR: 09/17/2015
Date Made Active in Reports: 10/21/2015
Number of Days to Update: 34

Source: Department of Natural Resources
Telephone: 515-281-6001
Last EDR Contact: 12/07/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Quarterly

LAST: Leaking Aboveground Storage Tank Sites

A listing of leaking aboveground storage tank sites.

Date of Government Version: 11/04/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 12/09/2015
Number of Days to Update: 32

Source: Department of Natural Resources
Telephone: 515-281-6001
Last EDR Contact: 10/19/2015
Next Scheduled EDR Contact: 02/01/2016
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

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

Date of Government Version: 07/21/2015
Date Data Arrived at EDR: 07/29/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 76

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/07/2016
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/28/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 55

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/08/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/04/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
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: 10/27/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/27/2015
Next Scheduled EDR Contact: 02/08/2016
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: 05/13/2015
Date Data Arrived at EDR: 08/03/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 71
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
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: 11/24/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 34
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Semi-Annually

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: 01/08/2015
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/30/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Quarterly

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

Date of Government Version: 04/30/2015
Date Data Arrived at EDR: 05/05/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 48
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/08/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Quarterly

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: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Varies

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: 09/08/2015
Date Data Arrived at EDR: 09/17/2015
Date Made Active in Reports: 10/21/2015
Number of Days to Update: 34

Source: Department of Natural Resources
Telephone: 515-281-6001
Last EDR Contact: 12/07/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Quarterly

AST: Aboveground Storage Tank Sites

Bulk fuel facilities, commercial fuel operations, private farm sites, and any other storage facility that meets the Department of Public Safety?s registration criteria. They register any class I, II or III petroleum product (gas, diesel and oil) above 1,100 gallons.

Date of Government Version: 09/28/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 10/21/2015
Number of Days to Update: 22

Source: Department of Public Safety
Telephone: 515-281-5821
Last EDR Contact: 01/11/2016
Next Scheduled EDR Contact: 04/11/2016
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: 11/05/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

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

Date of Government Version: 11/24/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 34

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/27/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

Date of Government Version: 05/13/2015
Date Data Arrived at EDR: 08/03/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 71

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

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

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
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: 07/28/2015
Date Data Arrived at EDR: 08/14/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 60

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

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

Date of Government Version: 12/14/2014
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 28

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/30/2015
Next Scheduled EDR Contact: 02/09/2016
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 07/21/2015
Date Data Arrived at EDR: 07/29/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 76

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/07/2016
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Quarterly

State and tribal institutional control / engineering control registries

INST CONTROL: Sites with Institutional Controls

Sites currently enrolled in the Land Recycling Program that have Institutional Controls.

Date of Government Version: 10/19/2015
Date Data Arrived at EDR: 10/21/2015
Date Made Active in Reports: 12/09/2015
Number of Days to Update: 49

Source: Department of Natural Resources
Telephone: 515-242-5818
Last EDR Contact: 10/21/2015
Next Scheduled EDR Contact: 02/01/2016
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Land Recycling Program Sites

Sites currently enrolled in the Land Recycling Program.

Date of Government Version: 11/04/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 12/09/2015
Number of Days to Update: 32

Source: Department of Natural Resources
Telephone: 515-242-5818
Last EDR Contact: 10/19/2015
Next Scheduled EDR Contact: 02/01/2016
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

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

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/29/2014
Date Data Arrived at EDR: 10/01/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 36
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/28/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site Listing
Brownfields are abandoned, idled, or under-used industrial and commercial facilities where expansion or redevelopment is complicated by real or perceived environmental contamination.

Date of Government Version: 11/04/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 12/09/2015
Number of Days to Update: 32
Source: Department of Natural Resources
Telephone: 515-281-8489
Last EDR Contact: 10/19/2015
Next Scheduled EDR Contact: 02/01/2016
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: 09/21/2015
Date Data Arrived at EDR: 09/23/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 103
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/21/2015
Next Scheduled EDR Contact: 04/04/2016
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
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 11/06/2015
Next Scheduled EDR Contact: 02/15/2016
Data Release Frequency: Varies

ODI: Open Dump Inventory

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

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

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

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

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

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

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: No Update Planned

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

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

Date of Government Version: 08/12/2015
Date Data Arrived at EDR: 09/04/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 60

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/31/2015
Next Scheduled EDR Contact: 12/14/2015
Data Release Frequency: No Update Planned

ALLSITES: Contaminated Sites Tracking Database

All the sites included in the Contaminated Sites Tracking Database. The database includes several regulatory complinace programs and actions.

Date of Government Version: 11/04/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 12/09/2015
Number of Days to Update: 32

Source: Department of Natural Resources
Telephone: 515-281-4171
Last EDR Contact: 10/19/2015
Next Scheduled EDR Contact: 02/01/2016
Data Release Frequency: Quarterly

DEL SHWS: Delisted Contaminated Sites Listing

A listing of sites delisted from the Contaminated Sites Listing.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 04/21/2014
Date Made Active in Reports: 05/05/2014
Number of Days to Update: 14

Source: Department of Natural Resources
Telephone: 515-281-8801
Last EDR Contact: 10/19/2015
Next Scheduled EDR Contact: 02/01/2016
Data Release Frequency: Annually

US CDL: Clandestine Drug Labs

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

Date of Government Version: 08/12/2015
Date Data Arrived at EDR: 09/04/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 60

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/25/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: Quarterly

Local Land Records

LIENS: Liens Filed Listing
A listing of liens filed with the Iowa Comprehensive Petroleum Underground Storage Tank Fund.

Date of Government Version: 11/10/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 12/09/2015
Number of Days to Update: 26

Source: Department of Natural Resources
Telephone: 515-281-5523
Last EDR Contact: 11/09/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 10/30/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

Records of Emergency Release Reports

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

Date of Government Version: 06/24/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/02/2015
Number of Days to Update: 68

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/30/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Annually

SPILLS: Spills Database
Spill reporting data that is collected during the initial report of an incident.

Date of Government Version: 09/08/2015
Date Data Arrived at EDR: 09/09/2015
Date Made Active in Reports: 10/21/2015
Number of Days to Update: 42

Source: Department of Natural Resources
Telephone: 515-281-4367
Last EDR Contact: 12/09/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Annually

SPILLS 90: SPILLS90 data from FirstSearch
Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 10/17/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/05/2013
Number of Days to Update: 61

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

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / 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: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Varies

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: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 12/11/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Varies

DOD: Department of Defense Sites

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

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

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/16/2015
Next Scheduled EDR Contact: 01/25/2016
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: 10/16/2015
Next Scheduled EDR Contact: 01/25/2016
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

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

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/19/2015
Next Scheduled EDR Contact: 02/29/2016
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: 09/01/2015
Date Data Arrived at EDR: 09/03/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 11/13/2015
Next Scheduled EDR Contact: 02/29/2016
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
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/10/2015
Next Scheduled EDR Contact: 02/22/2016
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: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/13/2015
Next Scheduled EDR Contact: 02/22/2016
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: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/23/2015
Next Scheduled EDR Contact: 04/04/2016
Data Release Frequency: Every 4 Years

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: 12/31/2013
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 110

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/24/2015
Next Scheduled EDR Contact: 03/07/2016
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
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
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: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/11/2015
Next Scheduled EDR Contact: 03/21/2016
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: 08/01/2015
Date Data Arrived at EDR: 08/26/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
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
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

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

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 11/13/2015
Next Scheduled EDR Contact: 02/22/2016
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: 07/01/2014
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 33

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/12/2016
Next Scheduled EDR Contact: 04/25/2016
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: 01/23/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/25/2016
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
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 11/18/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Quarterly

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

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 11/18/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

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

Date of Government Version: 06/26/2015
Date Data Arrived at EDR: 07/10/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 95

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 12/07/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 01/13/2016
Next Scheduled EDR Contact: 04/25/2016
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
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/11/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 10/29/2015
Next Scheduled EDR Contact: 02/08/2016
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: 07/07/2015
Date Data Arrived at EDR: 07/09/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 69
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/07/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

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

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

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

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 11/07/2015
Next Scheduled EDR Contact: 02/15/2016
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CONSENT: Superfund (CERCLA) Consent Decrees

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

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 46

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 12/23/2015
Next Scheduled EDR Contact: 04/11/2016
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: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/24/2015
Next Scheduled EDR Contact: 03/07/2016
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: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/16/2015
Next Scheduled EDR Contact: 01/25/2016
Data Release Frequency: Semi-Annually

UMTRA: Uranium Mill Tailings Sites

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

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

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/19/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/18/2016
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 1931and 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: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/22/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/22/2015
Next Scheduled EDR Contact: 04/11/2016
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: 08/18/2015
Date Data Arrived at EDR: 09/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 125

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 12/03/2015
Next Scheduled EDR Contact: 03/14/2016
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.

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: 12/04/2015
Next Scheduled EDR Contact: 03/14/2016
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: 12/04/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: Varies

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: 07/20/2015
Date Data Arrived at EDR: 09/09/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 55

Source: EPA
Telephone: (913) 551-7003
Last EDR Contact: 12/10/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Quarterly

AIRS: Minor and Title V Sources Listing
A listing of Minor and Title V sources.

Date of Government Version: 09/14/2015
Date Data Arrived at EDR: 09/14/2015
Date Made Active in Reports: 10/21/2015
Number of Days to Update: 37

Source: Department of Natural Resources
Telephone: 515-281-8468
Last EDR Contact: 12/11/2015
Next Scheduled EDR Contact: 03/28/2016
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Site Listing
A listing of coal combustion residue landfill locations.

Date of Government Version: 09/08/2015
Date Data Arrived at EDR: 09/09/2015
Date Made Active in Reports: 10/21/2015
Number of Days to Update: 42

Source: Department of Natural Resources
Telephone: 515-281-8308
Last EDR Contact: 12/09/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Quarterly

DRYCLEANERS: Iowa Drycleaner List
A listing of drycleaners in Iowa.

Date of Government Version: 06/10/2015
Date Data Arrived at EDR: 07/20/2015
Date Made Active in Reports: 08/06/2015
Number of Days to Update: 17

Source: Department of Natural Resources
Telephone: 515-242-5100
Last EDR Contact: 10/19/2015
Next Scheduled EDR Contact: 02/01/2016
Data Release Frequency: Varies

Financial Assurance 1: 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: 09/08/2015
Date Data Arrived at EDR: 09/17/2015
Date Made Active in Reports: 10/21/2015
Number of Days to Update: 34

Source: Department of Natural Resources
Telephone: 515-242-5086
Last EDR Contact: 12/07/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Quarterly

Financial Assurance 2: Financial Assurance Information Listing
Information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

Date of Government Version: 09/11/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 10/21/2015
Number of Days to Update: 40

Source: Department of Natural Resources
Telephone: 515-242-5818
Last EDR Contact: 12/04/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Varies

NPDES: List of NPDES Permittees
The files listed below contain information on facilities that hold NPDES permits, or those that are authorized to discharge wastewater to surface waters in Iowa.

Date of Government Version: 06/01/2015
Date Data Arrived at EDR: 08/18/2015
Date Made Active in Reports: 08/19/2015
Number of Days to Update: 1

Source: Department of Natural Resources
Telephone: 515-281-4736
Last EDR Contact: 11/20/2015
Next Scheduled EDR Contact: 02/29/2016
Data Release Frequency: Varies

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: 12/31/2014
Date Data Arrived at EDR: 03/24/2015
Date Made Active in Reports: 04/02/2015
Number of Days to Update: 9

Source: Department of Natural Resources
Telephone: 515-725-0302
Last EDR Contact: 12/17/2015
Next Scheduled EDR Contact: 04/04/2016
Data Release Frequency: 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
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

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

EDR Hist Auto: EDR Exclusive Historic Gas Stations

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

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

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

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

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

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

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

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Natural Resources in Iowa.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Natural Resources in Iowa.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/26/2013
Number of Days to Update: 178

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

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

CT MANIFEST: Hazardous Waste Manifest Data

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

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

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/16/2015
Next Scheduled EDR Contact: 02/29/2016
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/17/2015
Date Made Active in Reports: 08/12/2015
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/13/2015
Next Scheduled EDR Contact: 01/25/2016
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 11/02/2015
Date Data Arrived at EDR: 11/08/2015
Date Made Active in Reports: 12/09/2015
Number of Days to Update: 31

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/08/2015
Next Scheduled EDR Contact: 02/15/2016
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/19/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 03/19/2015
Date Made Active in Reports: 04/07/2015
Number of Days to Update: 19

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/09/2015
Next Scheduled EDR Contact: 03/28/2016
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.
Daycare Centers: Child Care Facilities
Source: Department of Human Services
Telephone: 515-281-4357

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: National Wetland Inventory of Iowa
Source: Department of Natural Resources
Telephone: 319-335-1575

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

ELKEM CARBIDE
365 CARBIDE LANE
KEOKUK, IA 52632

TARGET PROPERTY COORDINATES

Latitude (North):	40.4213 - 40° 25' 16.68''
Longitude (West):	91.4209 - 91° 25' 15.24''
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	633965.8
UTM Y (Meters):	4475505.5
Elevation:	660 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5941653 KEOKUK, IA
Version Date:	2013

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

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

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

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

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

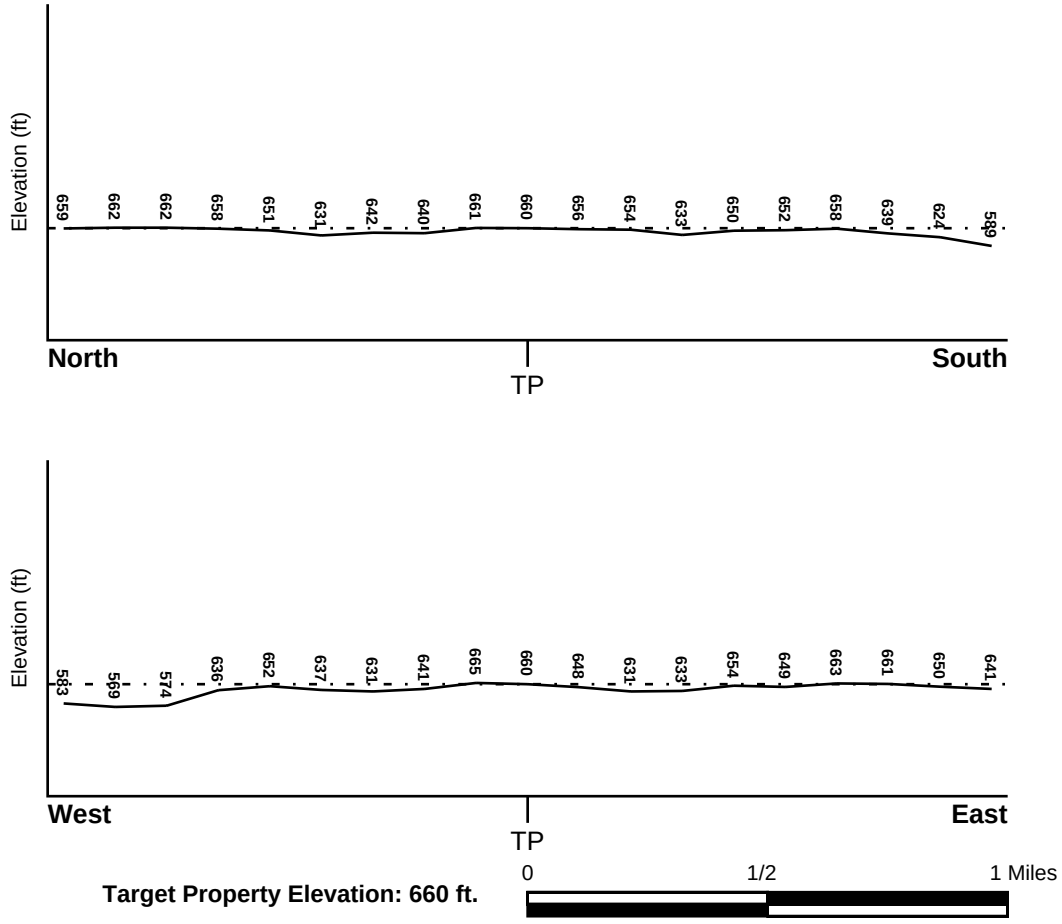
TOPOGRAPHIC INFORMATION

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

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ENE

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

Target Property County	FEMA Flood Electronic Data
LEE, IA	Not Available

Flood Plain Panel at Target Property: Not Reported

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
KEOKUK	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.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
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:	Mississippian
Series:	Osagean and Kinderhookian Series
Code:	M1 *(decoded above as Era, System & Series)*

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).

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. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	WELLER
Soil Surface Texture:	silt loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Moderately well drained. Soils have a layer of low hydraulic conductivity, wet state high in the profile. Depth to water table is 3 to 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	HIGH
Depth to Bedrock Min:	> 60 inches
Depth to Bedrock Max:	> 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	12 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: 2.00 Min: 0.60	Max: 7.30 Min: 4.50
2	12 inches	43 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: 0.20 Min: 0.06	Max: 6.00 Min: 4.50
3	43 inches	74 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: 0.60 Min: 0.20	Max: 6.50 Min: 5.10

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: loam
silty clay loam

Surficial Soil Types: loam
silty clay loam

Shallow Soil Types: clay loam

Deeper Soil Types: loam
clay loam
silt loam
clay
sandy clay loam
weathered bedrock
stratified

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

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

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
12	USGS40000311699	1/2 - 1 Mile WNW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

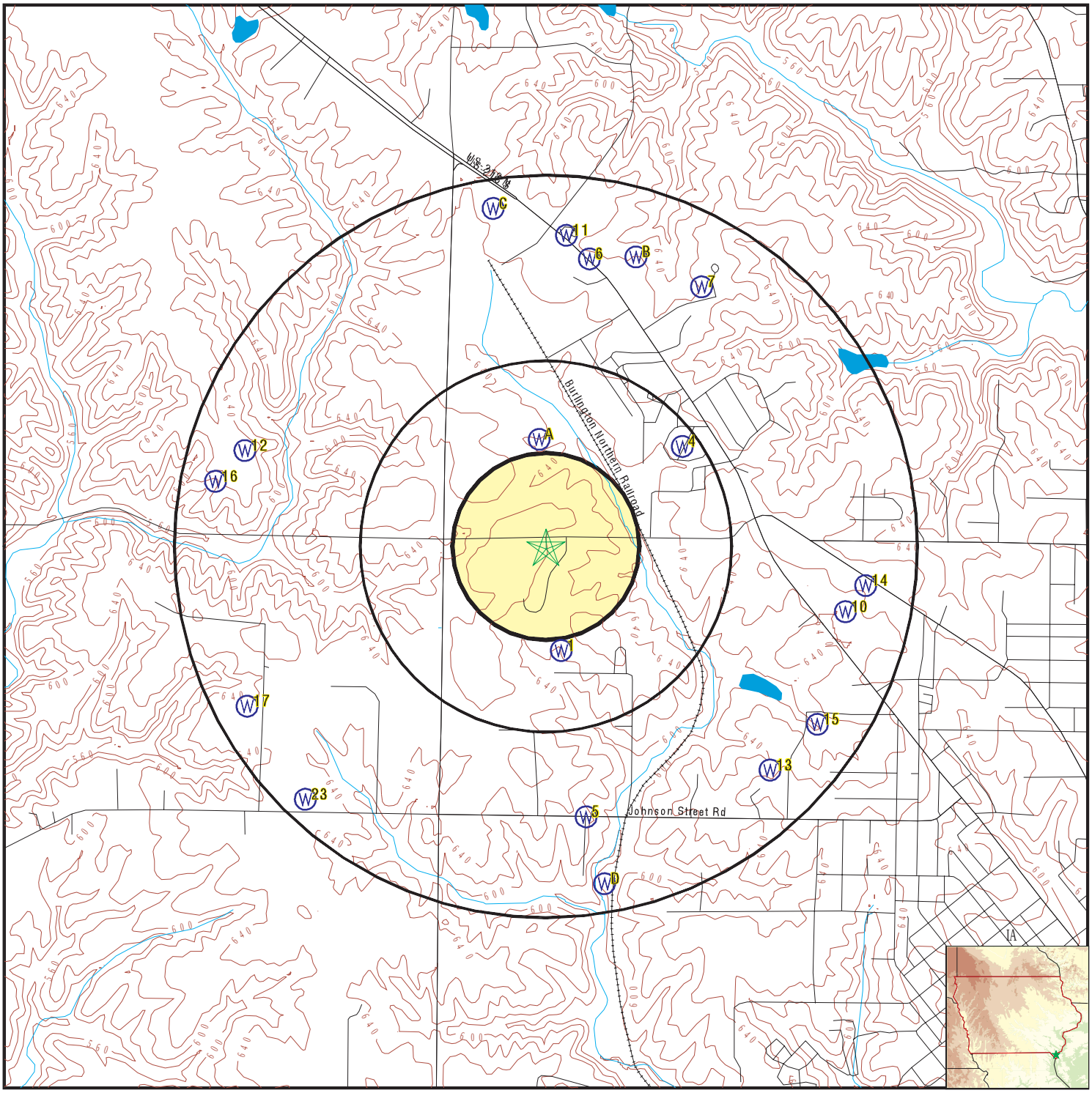
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

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

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	IAPU30000314726	1/4 - 1/2 Mile South
A2	IAPU30000314539	1/4 - 1/2 Mile North
A3	IAPU30000314538	1/4 - 1/2 Mile North
4	IAPU30000314666	1/4 - 1/2 Mile NE
5	IAPU30000314898	1/2 - 1 Mile South
6	IAPU30000314432	1/2 - 1 Mile North
7	IAPW30000080128	1/2 - 1 Mile NNE
B8	IAPW30000005906	1/2 - 1 Mile NNE
B9	IAPU30000314480	1/2 - 1 Mile NNE
10	IAPU30000315021	1/2 - 1 Mile ESE
11	IAPU30000314383	1/2 - 1 Mile North
13	IAPU30000315138	1/2 - 1 Mile SE
14	IAPU30000315037	1/2 - 1 Mile East
15	IAPU30000315155	1/2 - 1 Mile ESE
16	IAPU30000314261	1/2 - 1 Mile West
17	IAPU30000314458	1/2 - 1 Mile WSW
C18	IAPU30000314293	1/2 - 1 Mile North
D19	IAPU30000315008	1/2 - 1 Mile South
D20	IAPU30000315007	1/2 - 1 Mile South
D21	IAPR30000057477	1/2 - 1 Mile South
C22	IAPR30000014923	1/2 - 1 Mile North
23	IAPU30000314598	1/2 - 1 Mile SW

PHYSICAL SETTING SOURCE MAP - 4513291.2s



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

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location

SITE NAME: Elkem Carbide	CLIENT: Tetra Tech EMI
ADDRESS: 365 Carbide Lane Keokuk IA 52632	CONTACT: Joann Jeplawy
LAT/LONG: 40.4213 / 91.4209	INQUIRY #: 4513291.2s DATE: January 14, 2016 1:56 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
South
1/4 - 1/2 Mile
Lower

IA WELLS **IAPU30000314726**

Mapid:	314726	Wellid:	4783
Id src fld:	wnumber	Datasrc:	GEOU
Well type:	IGS well database	Location:	T. 65N., R. 5W., Sec. 22, NE, SE, NW
County:	LEE	Est loc ac:	Calc. +/- 140 m.
Depth:	82	C p date:	07/20/1950
Owner name:	SWINDERMAN, HAROLD		
Other info:	Well type: Private		
Xcoord:	634037.04		
Ycoord:	4475266.32		
Hlink:	http://www.igsb.uiowa.edu/webapps/geosam/Scripts/geocard.asp?wnumber=4783		
Site id:	IAPU30000314726		

A2
North
1/4 - 1/2 Mile
Lower

IA WELLS **IAPU30000314539**

Mapid:	314539	Wellid:	27155
Id src fld:	recordno	Datasrc:	PLUG
Well type:	Registered abandoned wells	Location:	T. 65 N., R. 5 W., Sec. 15, SE
County:	Lee	Est loc ac:	Calc. +/- 570m.
Depth:	20	C p date:	n.a.
Owner name:	Griffin Wheel Co.		
Other info:	Well plugged: 10/3/1996; Well type: < 18" dia.		
Xcoord:	633926.19		
Ycoord:	4476179		
Hlink:	Not Reported		
Site id:	IAPU30000314539		

A3
North
1/4 - 1/2 Mile
Lower

IA WELLS **IAPU30000314538**

Mapid:	314538	Wellid:	27154
Id src fld:	recordno	Datasrc:	PLUG
Well type:	Registered abandoned wells	Location:	T. 65 N., R. 5 W., Sec. 15, SE
County:	Lee	Est loc ac:	Calc. +/- 570m.
Depth:	73	C p date:	n.a.
Owner name:	Griffin Wheel Co.		
Other info:	Well plugged: 10/3/1996; Well type: < 18" dia.		
Xcoord:	633924.19		
Ycoord:	4476180		
Hlink:	Not Reported		
Site id:	IAPU30000314538		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

4
NE
1/4 - 1/2 Mile
Lower

IA WELLS **IAPU30000314666**

Mapid:	314666	Wellid:	4500
Id src fld:	wnumber	Datasrc:	GEOU
Well type:	IGS well database	Location:	T. 65N., R. 5W., Sec. 14, SW, NW
County:	LEE	Est loc ac:	Calc. +/- 280 m.
Depth:	76	C p date:	10/28/1949
Owner name:	WEIRATHER, PHILLIP J.		
Other info:	Well type: Private		
Xcoord:	634545.75		
Ycoord:	4476159.75		
Hlink:	http://www.igsb.uiowa.edu/webapps/geosam/Scripts/geocard.asp?wnumber=4500		
Site id:	IAPU30000314666		

5
South
1/2 - 1 Mile
Lower

IA WELLS **IAPU30000314898**

Mapid:	314898	Wellid:	11067
Id src fld:	wnumber	Datasrc:	GEOU
Well type:	IGS well database	Location:	T. 65N., R. 5W., Sec. 22, SE, NE
County:	LEE	Est loc ac:	Calc. +/- 280 m.
Depth:	51	C p date:	06/06/1958
Owner name:	KEN'S BODY SHOP		
Other info:	Well type: Private		
Xcoord:	634157.88		
Ycoord:	4474547.25		
Hlink:	http://www.igsb.uiowa.edu/webapps/geosam/Scripts/geocard.asp?wnumber=11067		
Site id:	IAPU30000314898		

6
North
1/2 - 1 Mile
Higher

IA WELLS **IAPU30000314432**

Mapid:	314432	Wellid:	5147
Id src fld:	wnumber	Datasrc:	GEOU
Well type:	IGS well database	Location:	T. 65N., R. 5W., Sec. 15, NE, NE
County:	LEE	Est loc ac:	Calc. +/- 280 m.
Depth:	251	C p date:	05/11/1951
Owner name:	SKYLARK THEATRE		
Other info:	Bedrock depth: 90; Well type: Private		
Xcoord:	634128.88		
Ycoord:	4476965.25		
Hlink:	http://www.igsb.uiowa.edu/webapps/geosam/Scripts/geocard.asp?wnumber=5147		
Site id:	IAPU30000314432		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
7 **NNE** **1/2 - 1 Mile** **Higher**	**IA WELLS**	**IAPW30000080128**

Objectid:	80128	Iwellid:	2242982
Wellnmbr:	2169646	Pmtnmbr:	39708
Twp:	65		
Rge:	5		
Ew:	W		
Sec:	14		
Qqqqq:	NW, NW, SW, SE, NE		
Elev:	0		
Elev acc:	Not Reported		
Well depth:	225		
Br depth:	0		
Wtr depth:	0		
Latitude:	40.4314308167		
Longitude:	-91.4129486084		
Dte done:	22-JUL-13		
Cty num:	56		
County:	Lee		
Drlr name:	Geothermal Experts		
Owner name:	Village, River		
Cnstr mthd:	Not Reported		
Fm rmk:	Not Reported		
Well use:	Heat pump		
Status:	Active Log		
Ht pmp no:	6		
Permit:	X	Plugging:	Not Reported
Renovate:	Not Reported	Test:	Not Reported
Xcoord:	634616.577867		
Ycoord:	4476852.90424		
Horiz acc:	Not Reported	Has litho:	1
Has prod:	0	Has wq:	0
Has constr:	0		
Wnumber:	0		
Hlink:	https://programs.iowadnr.gov/pwts/ViewReport.aspx?parameters=vchWellNmbr%5ct2169646&reportName=WellPrintout		
Site id:	IAPW30000080128		

	Database	EDR ID Number
B8 **NNE** **1/2 - 1 Mile** **Higher**	**IA WELLS**	**IAPW30000005906**

Objectid:	5906	Iwellid:	2079647
Wellnmbr:	2078147	Pmtnmbr:	Not Reported
Twp:	65		
Rge:	5		
Ew:	W		
Sec:	15		
Qqqqq:	Not Reported		
Elev:	0		
Elev acc:	Not Reported		
Well depth:	150		

Br depth:	0		
Wtr depth:	0		
Latitude:	40.4326		
Longitude:	-91.4163		
Dte done:	11-MAR-02		
Cty num:	56		
County:	Lee		
Drlr name:	Not Reported		
Owner name:	Village, Rivers		
Cnstr mthd:	Rotary Drill		
Fm rmk:	Not Reported		
Well use:	Heat pump		
Status:	Active		
Ht pmp no:	10		
Permit:	Not Reported	Plugging:	Not Reported
Renovate:	Not Reported	Test:	Not Reported
Xcoord:	634329.967889		
Ycoord:	4476977.58703		
Horiz acc:	Not Reported	Has litho:	0
Has prod:	0	Has wq:	0
Has constr:	0		
Wnumber:	0		
Hlink:	https://programs.iowadnr.gov/pwts/ViewReport.aspx?parameters=vchWellNmbr%5ct2078147&reportName=WellPrintout		
Site id:	IAPW30000005906		

B9
NNE **IA WELLS** **IAPU30000314480**
1/2 - 1 Mile
Higher

Mapid:	314480	Wellid:	2078147
Id src fld:	wellnmbr	Datasrc:	PWTS
Well type:	Private well tracking system	Location:	T. 65 N., R. 5W., Sec. 15,
County:	Lee	Est loc ac:	nom. +/- 25m.
Depth:	150	C p date:	03/11/2002
Owner name:	Village, Rivers		
Other info:	Status: Active; Well use: Heat pump		
Xcoord:	634329.967889		
Ycoord:	4476977.58703		
Hlink:	http://programs.iowadnr.gov/pwts/ViewReport.aspx?parameters=vchWellNmbr%5ct2078147&reportName=WellPrintout		
Site id:	IAPU30000314480		

10
ESE **IA WELLS** **IAPU30000315021**
1/2 - 1 Mile
Lower

Mapid:	315021	Wellid:	1245
Id src fld:	wnumber	Datasrc:	GEOU
Well type:	IGS well database	Location:	T. 65N., R. 5W., Sec. 23, NE, NW, NW
County:	LEE	Est loc ac:	Calc. +/- 140 m.
Depth:	277	C p date:	08/16/1940
Owner name:	WRIGHT, RALPH A.		
Other info:	Bedrock depth: 53; Well type: Private		
Xcoord:	635264.88		
Ycoord:	4475456.5		
Hlink:	http://www.igsb.uiowa.edu/webapps/geosam/Scripts/geocard.asp?wnumber=1245		

Site id: IAPU30000315021

11
North
1/2 - 1 Mile
Higher

IA WELLS **IAPU30000314383**

Mapid:	314383	Wellid:	6716
Id src fld:	wnumber	Datasrc:	GEOU
Well type:	IGS well database	Location:	T. 65N., R. 5W., Sec. 15, NE, NE, NW
County:	LEE	Est loc ac:	Calc. +/- 140 m.
Depth:	71	C p date:	10/07/1953
Owner name:	HOUSTON, C.A.		
Other info:	Well type: Private		
Xcoord:	634027.19		
Ycoord:	4477065.88		
Hlink:	http://www.igsb.uiowa.edu/webapps/geosam/Scripts/geocard.asp?wnumber=6716		
Site id:	IAPU30000314383		

12
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000311699**

Org. Identifier:	USGS-IA		
Formal name:	USGS Iowa Water Science Center		
Monloc Identifier:	USGS-402530091261001		
Monloc name:	065N05W16DD 06372 1953		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	07100009	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.4250437
Longitude:	-91.436265	Sourcemap scale:	24000
Horiz Acc measure:	Unknown	Horiz Acc measure units:	Unknown
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	656
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Unknown		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Cambrian-Ordovician aquifer system		
Formation type:	Prosser Member of Galena Formation		
Aquifer type:	Not Reported		
Construction date:	1953	Welldepth:	815
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

13
SE
1/2 - 1 Mile
Lower

IA WELLS **IAPU30000315138**

Mapid:	315138	Wellid:	821
Id src fld:	wnumber	Datasrc:	GEOU
Well type:	IGS well database	Location:	T. 65N., R. 5W., Sec. 23, SW, NE
County:	LEE	Est loc ac:	Calc. +/- 280 m.
Depth:	954	C p date:	08/17/1938
Owner name:	DRYDEN RUBBER CO.		
Other info:	Bedrock depth: 17; Well type: Commercial		
Xcoord:	634950.86		
Ycoord:	4474764.44		
Hlink:	http://www.igsb.uiowa.edu/webapps/geosam/Scripts/geocard.asp?wnumber=821		
Site id:	IAPU30000315138		

14
East **IA WELLS** **IAPU30000315037**
1/2 - 1 Mile
Higher

Mapid:	315037	Wellid:	15409
Id src fld:	wnumber	Datasrc:	GEOU
Well type:	IGS well database	Location:	T. 65N., R. 5W., Sec. 23, NE, NW
County:	LEE	Est loc ac:	Calc. +/- 280 m.
Depth:	271	C p date:	06/14/1961
Owner name:	TRI-STATE DAIRY		
Other info:	Bedrock depth: 100; Well type: Private		
Xcoord:	635350.61		
Ycoord:	4475571.45		
Hlink:	http://www.igsb.uiowa.edu/webapps/geosam/Scripts/geocard.asp?wnumber=15409		
Site id:	IAPU30000315037		

15
ESE **IA WELLS** **IAPU30000315155**
1/2 - 1 Mile
Lower

Mapid:	315155	Wellid:	9922
Id src fld:	wnumber	Datasrc:	GEOU
Well type:	IGS well database	Location:	T. 65N., R. 5W., Sec. 23
County:	LEE	Est loc ac:	Calc. +/- 1140 m
Depth:	280	C p date:	03/01/1958
Owner name:	ROSE, WESLEY		
Other info:	Well type: Private		
Xcoord:	635152.36		
Ycoord:	4474966.44		
Hlink:	http://www.igsb.uiowa.edu/webapps/geosam/Scripts/geocard.asp?wnumber=9922		
Site id:	IAPU30000315155		

16
West **IA WELLS** **IAPU30000314261**
1/2 - 1 Mile
Lower

Mapid:	314261	Wellid:	6372
Id src fld:	wnumber	Datasrc:	GEOU
Well type:	IGS well database	Location:	T. 65N., R. 5W., Sec. 16, SE, SE
County:	LEE	Est loc ac:	Calc. +/- 280 m.
Depth:	815	C p date:	10/27/1953
Owner name:	RORABAUGH, R.L.		
Other info:	Bedrock depth: 270; Well type: Private		
Xcoord:	632525.96		
Ycoord:	4475972.69		
Hlink:	http://www.igsb.uiowa.edu/webapps/geosam/Scripts/geocard.asp?wnumber=6372		
Site id:	IAPU30000314261		

17
WSW **IA WELLS** **IAPU30000314458**
1/2 - 1 Mile
Lower

Mapid:	314458	Wellid:	7609
Id src fld:	wnumber	Datasrc:	GEOU
Well type:	IGS well database	Location:	T. 65N., R. 5W., Sec. 21, NE, SE, SE
County:	LEE	Est loc ac:	Calc. +/- 140 m.
Depth:	267	C p date:	05/16/1955
Owner name:	ERICKSON, G.H.		
Other info:	Bedrock depth: 85; Well type: Private		
Xcoord:	632680.42		
Ycoord:	4475000.75		
Hlink:	http://www.igsb.uiowa.edu/webapps/geosam/Scripts/geocard.asp?wnumber=7609		
Site id:	IAPU30000314458		

C18
North **IA WELLS** **IAPU30000314293**
1/2 - 1 Mile
Higher

Mapid:	314293	Wellid:	14923
Id src fld:	recordno	Datasrc:	TEST
Well type:	Wells registered for testing	Location:	T. 65 N., R. 5 W., Sec. 15, NE, NW
County:	Lee	Est loc ac:	Calc. +/- 285m.
Depth:	160	C p date:	1900
Owner name:	Leu, Bob		
Other info:	Drilling method: Drilled; Estimated well depth		
Xcoord:	633703.69		
Ycoord:	4477172.5		
Hlink:	Not Reported		
Site id:	IAPU30000314293		

D19
South **IA WELLS** **IAPU30000315008**
1/2 - 1 Mile
Lower

Mapid:	315008	Wellid:	57477
Id src fld:	recordno	Datasrc:	TEST
Well type:	Wells registered for testing	Location:	T. 65 N., R. 5 W., Sec. 22, SE, SE, SE
County:	Lee	Est loc ac:	Calc. +/- 140m.
Depth:	61	C p date:	unkn
Owner name:	Robinson, Lee		
Other info:	Drilling method: Bored; Known well depth		
Xcoord:	634236.5		
Ycoord:	4474259		
Hlink:	Not Reported		
Site id:	IAPU30000315008		

D20
South
1/2 - 1 Mile
Lower

IA WELLS **IAPU30000315007**

Mapid:	315007	Wellid:	27539
Id src fld:	wnumber	Datasrc:	GEOU
Well type:	IGS well database	Location:	T. 65N., R. 5W., Sec. 22, SE, SE, SE
County:	LEE	Est loc ac:	Calc. +/- 140 m.
Depth:	697	C p date:	Not Reported
Owner name:	DAW, E.		
Other info:	Well type: Exploration (Other)		
Xcoord:	634245.42		
Ycoord:	4474259.06		
Hlink:	http://www.igsb.uiowa.edu/webapps/geosam/Scripts/geocard.asp?wnumber=27539		
Site id:	IAPU30000315007		

D21
South
1/2 - 1 Mile
Lower

IA WELLS **IAPR30000057477**

Recordno:	57477	Twp:	65
N s:	N	Rge:	5
E w:	W	Sec:	22
Qqqqq:	SE SE SE	Q abc:	DDD
Checked:	toehler 10/14/99 13:24:59	Ownerfirst:	LEE
Ownerlast:	ROBINSON	Owneraddr:	1135 JOHNSON ST. RD.
Ownercity:	KEOKUK	Ownerst:	IA
Ownerzip:	52632	Ownerphone:	Not Reported
County:	56	Legal:	SESESE22 65 5W
Depth:	61	Dpth rel:	K
Permit:	Not Reported	Sampldte:	11-AUG-99
Lab:	UNIVERSITY HYGIENIC LABORATORY		
Lab no:	Not Reported		
Anal dte:	30-DEC-99	Smplsrce:	WELL PUMP
Bact ltb:	Not Reported	Bact bgb:	Not Reported
Bactr:	Not Reported	Bact:	0
Bctcolml:	0	Bact s u:	U
No3r:	Not Reported	No3:	46
No3 s u:	U	Nitrogen:	0
Drl mthd:	BORED	Drlmth rel:	Not Reported
Case mat:	CLAY	Cs mt rel:	Not Reported

Case diam:	20	Csdia rel:	K
Year cons:	0	Yr rel:	U
Agentfirst:	JOEL	Agentlast:	MATT
Created:	kwillet 09/28/99 11:22:23	Updated:	toehler 10/14/99 13:24:59
Flag:	YNNYNNNNNNNNNNNNNNN		
Utm x:	634262.06		
Utm y:	4474043.63		
Site id:	IAPR30000057477		

C22
North
1/2 - 1 Mile
Higher

IA WELLS **IAPR30000014923**

Recordno:	14923	Twp:	65
N s:	N	Rge:	5
E w:	W	Sec:	15
Qqqqq:	NE NW	Q abc:	AB
Checked:	Y	Ownerfirst:	BOB
Ownerlast:	LEU	Owneraddr:	4148 MAIN ST. RD.
Ownercity:	KEOKUK	Ownerst:	IA
Ownerzip:	52632	Ownerphone:	3195244589
County:	56	Legal:	NWNE15 65 5W
Depth:	160	Dpth rel:	E
Permit:	Not Reported	Sampldte:	19-DEC-95
Lab:	UNIVERSITY HYGIENIC LABORATORY		
Lab no:	G029377		
Anal dte:	27-DEC-95	Smplsrce:	BARN
Bact ltb:	Not Reported	Bact bgb:	Not Reported
Bactr:	Not Reported	Bact:	0
Bctcolml:	0	Bact s u:	U
No3r:	Not Reported	No3:	1
No3 s u:	S	Nitrogen:	0
Drl mthd:	Drilled	Drlmth rel:	Not Reported
Case mat:	Unknown	Cs mt rel:	Not Reported
Case diam:	0	Csdia rel:	U
Year cons:	1900	Yr rel:	E
Agentfirst:	TAMMY	Agentlast:	THOMPSON
Created:	rlaferr 07/22/96 13:32:54	Updated:	lmcmull 07/23/96 09:00:44
Flag:	Not Reported		
Utm x:	633728.38		
Utm y:	4476964.75		
Site id:	IAPR30000014923		

23
SW
1/2 - 1 Mile
Lower

IA WELLS **IAPU30000314598**

Mapid:	314598	Wellid:	11803
Id src fld:	wnumber	Datasrc:	GEOU
Well type:	IGS well database	Location:	T. 65N., R. 5W., Sec. 22, SW, NW
County:	LEE	Est loc ac:	Calc. +/- 280 m.
Depth:	279	C p date:	07/30/1959
Owner name:	ROSE, ROBERT F.		
Other info:	Bedrock depth: 110; Well type: Private		
Xcoord:	632940.07		
Ycoord:	4474601.76		
Hlink:	http://www.igsb.uiowa.edu/webapps/geosam/Scripts/geocard.asp?wnumber=11803		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Site id: IAPU30000314598

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: IA Radon

Radon Test Results

Zipcode	Num Tests	Minimum	Maximum	Average
52632	11	0.6	6.2	2.7

Federal EPA Radon Zone for LEE County: 1

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

Federal Area Radon Information for Zip Code: 52632

Number of sites tested: 3

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	4.250 pCi/L	50%	50%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	4.400 pCi/L	67%	33%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

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

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: National Wetland Inventory of Iowa
Source: Department of Natural Resources
Telephone: 319-335-1575

HYDROGEOLOGIC INFORMATION

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

GEOLOGIC INFORMATION

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

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation 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

All Known Water Wells in the State of Iowa
Source: Department of Natural Resources
Telephone: 319-335-1353
Well types included are agricultural drainage, permitted private, public, registered abandoned, SDWIS public, water use permit sites, wells registered for testing.

Permitted Private Wells
Source: Department of Natural Resources
Telephone: 319-335-1353
This is a point coverage for private wells for which permits have been issued since 1987. Most permits were recorded in counties which are in the state drinking water program.

Private Well Tracking System Wells
Source: Department of Natural Resources
Telephone: 319-335-1353

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database
Source: Department of Natural Resources
Oil and gas well locations.

RADON

State Database: IA Radon
Source: Department of Public Health
Telephone: 515-281-4340
Radon Test Results

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.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

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

STREET AND ADDRESS INFORMATION

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Elkem Carbide
365 Carbide Lane
Keokuk, IA 52632

Inquiry Number: 4513291.6s
January 18, 2016

EDR Vapor Encroachment Screen

Prepared using EDR's Vapor Encroachment Worksheet

EDR® Environmental Data Resources Inc

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Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of the ASTM Standard Practice for Assessment of Vapor Encroachment into Structures on Property Involved in Real Estate Transactions (E 2600-10).

STANDARD ENVIRONMENTAL RECORDS	Maximum Search Distance*	Summary: property	1/10	1/10 - 1/3
Federal NPL	0.333	0	0	0
Federal CERCLIS	0.333	0	0	0
Federal RCRA CORRACTS facilities list	0.333	1	0	0
Federal RCRA TSD facilities list	0.333	0	0	0
Federal RCRA generators list	property	0	-	-
Federal institutional controls / engineering controls registries	0.333	0	0	0
Federal ERNS list	property	1	-	-
State and tribal - equivalent NPL	not searched	-	-	-
State and tribal - equivalent CERCLIS	0.333	0	0	0
State and tribal landfill / solid waste disposal	0.333	0	2	0
State and tribal leaking storage tank lists	0.333	0	1	1
State and tribal registered storage tank lists	property	0	-	-
State and tribal institutional control / engineering control registries	property	0	-	-
State and tribal voluntary cleanup sites	0.333	0	0	0
State and tribal Brownfields sites	0.333	0	0	0
Other Standard Environmental Records	0.333	6	2	1

HISTORICAL USE RECORDS				
Former manufactured Gas Plants	0.333	0	0	0
Historical Gas Stations	0.25	0	0	1
Historical Dry Cleaners	0.25	0	0	0
Exclusive Recovered Govt. Archives	property	0	-	-

*Each category may include several separate databases, each having a different search distance. For each category, the table reports the maximum search distance applied. See the section 'Record Sources and Currency' for information on individual databases.

EXECUTIVE SUMMARY

TARGET PROPERTY INFORMATION

ADDRESS

ELKEM CARBIDE
365 CARBIDE LANE
KEOKUK, IA 52632

COORDINATES

Latitude (North):	40.4213 - 40° 25′ 16.67633″
Longitude (West):	91.4209 - 91° 25′ 15.234375″
Elevation:	660 ft. above sea level

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records.

Site	Database(s)
MIDWEST CARBIDE CORP 365 CARBIDE LN RD KEOKUK, IA 52632	CERCLIS-NFRAP EPA Id: IAD005267588 Site ID: 0700084
ELKEM CARBON KEOKUK 365 CARBIDE LANE KEOKUK, IA 52632-2047	FINDS Registry ID:: 110013331992 ICIS FRS ID:: 110013331992 FRS ID:: 110013331992 FRS ID:: 110013331992 FRS ID:: 110013331992 FRS ID:: 110013331992 FRS ID:: 110013331992 FRS ID:: 110013331992
ELKEM CARBON - KEOKUK 365 CARBIDE LANE RD KEOKUK, IA 52632	CORRACTS EPA ID:: IAD005267588 RAATS Facility ID: IAD005267588 Status: 02 Status: 02 Status: 02 Status: 02 Status: 02 Status: 02 Status: 02 Status: 02 RCRA NonGen / NLR EPA ID:: IAD005267588 EPA ID:: IAD005267588 EPA ID:: IAD005267588 EPA ID:: IAD005267588 EPA ID:: IAD005267588 EPA ID:: IAD005267588

EXECUTIVE SUMMARY

Site	Database(s)
365 CARBIDE LN 365 CARBIDE LN KEOKUK, IA 0	ERNS EDR ID:: 551647
MIDWEST CARBIDE CORP 365 CARBIDE RD KEOKUK, IA 52632	FTTS HIST FTTS
365 CARBIDE LANE, KEOKUK, IA 365 CARBIDE LANE, KEOKUK, IA KEOKUK, MO	SPILLS Spill Number: 0012211553MDO Facility Id: 0012211553MDO
MIDWEST CARBIDE, 365 CARBIDE LANE, KEOKUK, IA 52632 MIDWEST CARBIDE, 365 CARBIDE LANE, KEOKUK, IA 52632 KEOKUK, IA	SPILLS Facility Id: 122100-DLP-1505

EXECUTIVE SUMMARY

PHYSICAL SETTING INFORMATION

Flood Zone:	Not Available
NWI Wetlands:	Available

AQUIFLOW®

Search Radius: 0.333 Mile.

No Aquiflow sites reported.

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. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	WELLER
Soil Surface Texture:	silt loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Moderately well drained. Soils have a layer of low hydraulic conductivity, wet state high in the profile. Depth to water table is 3 to 6 feet.
Hydric Status:	Hydric Status: Soil does not meet the requirements for a hydric soil.
Corrosion Potential - Uncoated Steel:	HIGH
Depth to Bedrock Min:	> 60 inches
Depth to Bedrock Max:	> 60 inches

Soil Layer Information

	Boundary			Classification			
Layer	**Upper**	**Lower**	**Soil Texture Class**	**AASHTO Group**	**Unified Soil**	**Permeability Rate (in/hr)**	**Soil Reaction (pH)**
1	0 inches	12 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: 2.00 Min: 0.60	Max: 7.30 Min: 4.50

EXECUTIVE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
2	12 inches	43 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: 0.20 Min: 0.06	Max: 6.00 Min: 4.50
3	43 inches	74 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: 0.60 Min: 0.20	Max: 6.50 Min: 5.10

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: loam
silty clay loam

Surficial Soil Types: loam
silty clay loam

Shallow Soil Types: clay loam

Deeper Soil Types: loam
clay loam
silt loam
clay
sandy clay loam
weathered bedrock
stratified

EXECUTIVE SUMMARY

SEARCH RESULTS

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

STANDARD ENVIRONMENTAL RECORDS

Name	Address	Dist/Dir	Map ID	Page
MIDWEST CARBIDE CORP CERCLIS-NFRAP: Other Standard Environmental Records	365 CARBIDE LN RD	Property	▲ A1	12
ELKEM CARBON KEOKUK FINDS: Other Standard Environmental Records ICIS: Other Standard Environmental Records	365 CARBIDE LANE	Property	▲ A2	14
ELKEM CARBON - KEOKUK CORRACTS: Federal RCRA CORRACTS facilities list RAATS: Other Standard Environmental Records RCRA NonGen / NLR: Other Standard Environmental Records	365 CARBIDE LANE RD	Property	▲ A3	19
365 CARBIDE LN ERNS: Federal ERNS list	365 CARBIDE LN	Property	▲ A4	35
MIDWEST CARBIDE CORP FTTS: Other Standard Environmental Records HIST FTTS: Other Standard Environmental Records	365 CARBIDE RD	Property	▲ A5	39
365 CARBIDE LANE, KEOKUK, IA SPILLS: Other Standard Environmental Records	365 CARBIDE LANE, KEOKUK, IA	Property	▲ A6	41
MIDWEST CARBIDE, 365 CARBIDE LANE, KEOKUK, IA 52632 SPILLS: Other Standard Environmental Records	MIDWEST CARBIDE, 365 CARBIDE LANE, KEOKUK, IA 52632	Property	▲ A7	43
AMSTED RAIL CO. INC. AIRS: Other Standard Environmental Records TIER 2: Other Standard Environmental Records SWF/LF: State and tribal landfill / solid waste disposal	416 CARBIDE LANE	<1/10 WNW	▲ 8	44
ELKEM METALS, KEOKUK ALLSITES: Other Standard Environmental Records	356 CARBIDE LANE	<1/10 NNE	▼ A9	74
KEOKUK FERRO-SIL, INC. INDUSTRIAL WASTE LANDFILL SWF/LF: State and tribal landfill / solid waste disposal	Not Reported	<1/10 W	▼ 10	75
PRYOR TRUCKING INC UST: State and tribal registered storage tank lists LUST: State and tribal leaking storage tank lists	1304 S NAVAJO DR	<1/10 E	▼ 11	77
CASEY'S GENERAL STORE #1346	3531 MAIN ST	1/10 - 1/3 ENE	▲ 13	83

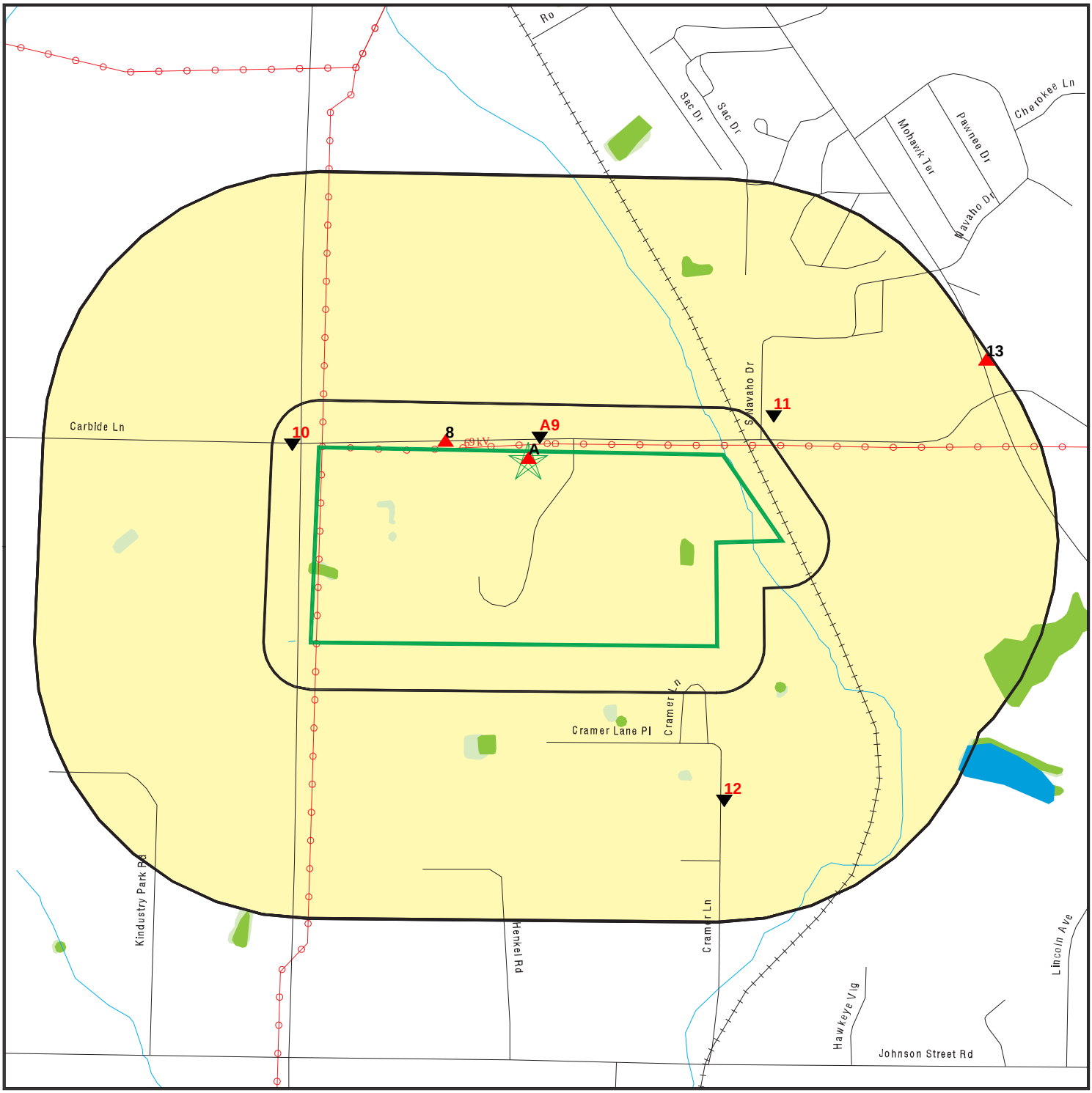
EXECUTIVE SUMMARY

Name	Address	Dist/Dir	Map ID	Page
UST: State and tribal registered storage tank lists Financial Assurance: Other Standard Environmental Records LUST: State and tribal leaking storage tank lists				

HISTORICAL USE RECORDS

Name	Address	Dist/Dir	Map ID	Page
2703 CRAMER LN	2703 CRAMER LN	1/10 - 1/3 SSE	▼ 12	82
EDR Hist Auto: Historical Gas Stations				

PRIMARY MAP - 4513291.6S



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

0 300 1/3 1/2 Miles

Indian Reservations BIA
Power transmission lines
National Wetland Inventory
State Wetlands

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location

SITE NAME: Elkem Carbide	CLIENT: Tetra Tech EMI
ADDRESS: 365 Carbide Lane Keokuk IA 52632	CONTACT: Joann Jeplawy
LAT/LONG: 40.4213 / 91.4209	INQUIRY #: 4513291.6s DATE: January 14, 2016 3:48 pm

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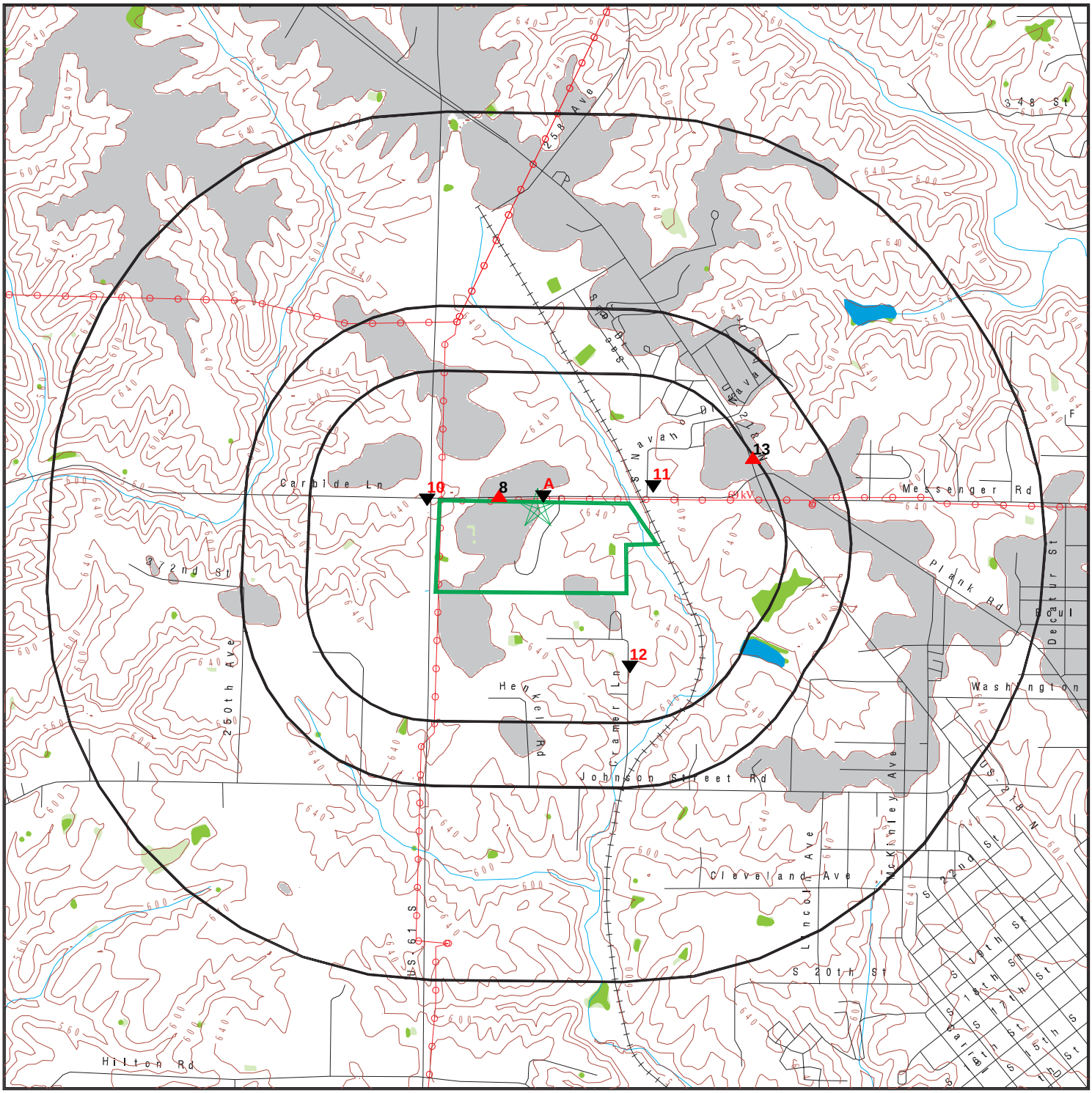
SECONDARY MAP - 4513291.6S



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

0 1/3 1/2 1 Miles

Indian Reservations BIA

Contour Lines

Power transmission lines

National Wetland Inventory

State Wetlands

Upgradient Area

SITE NAME: Elkem Carbide ADDRESS: 365 Carbide Lane Keokuk IA 52632 LAT/LONG: 40.4213 / 91.4209	CLIENT: Tetra Tech EMI CONTACT: Joann Jeplawy INQUIRY #: 4513291.6s DATE: January 14, 2016 3:47 pm

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AERIAL PHOTOGRAPHY - 4513291.6s

Aerial Photography
Unavailable

N

SITE NAME:	Elkem Carbide	CLIENT:	Tetra Tech EMI
ADDRESS:	365 Carbide Lane Keokuk IA 52632	CONTACT:	Joann Jeplawy
LAT/LONG:	40.4213 / 91.4209	INQUIRY #:	4513291.6s
		DATE:	January 14, 2016 3:49 pm

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MAP FINDINGS

LEGEND

FACILITY NAME **FACILITY ADDRESS, CITY, ST, ZIP**		EDR SITE ID NUMBER
▼ MAP ID#	Direction Distance Range (Distance feet / miles) Relative Elevation Feet Above Sea Level	ASTM 2600 Record Sources found in this report. Each database searched has been assigned to one or more categories. For detailed information about categorization, see the section of the report Records Searched and Currency.

Worksheet:

Comments:
Comments may be added on the online Vapor Encroachment Worksheet.

DATABASE ACRONYM: Applicable categories (A hoverbox with database description).

MIDWEST CARBIDE CORP 365 CARBIDE LN RD, KEOKUK, IA, 52632		1015733412
▲ A1	Target Property 660 ft. Above Sea Level	Other Standard Environmental Records

Worksheet:

CERCLIS-NFRAP: Other Standard Environmental Records

Site ID:	0700084
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID:	7357194.00000
Person ID:	13000611.00000

CERCLIS-NFRAP Assessment History:

Action:	ARCHIVE SITE
Date Started:	/ /
Date Completed:	10/01/81
Priority Level:	Not Reported
Action:	PRELIMINARY ASSESSMENT
Date Started:	10/01/81
Date Completed:	10/01/81
Priority Level:	NFRAP-Site does not qualify for the NPL based on existing information
Action:	DISCOVERY
Date Started:	/ /
Date Completed:	11/01/79

MIDWEST CARBIDE CORP, 365 CARBIDE LN RD, KEOKUK, IA 52632 (Continued)

Priority Level:	Not Reported
Action:	PRELIMINARY ASSESSMENT
Date Started:	/ /
Date Completed:	09/01/80
Priority Level:	Low priority for further assessment

MAP FINDINGS

ELKEM CARBON KEOKUK 365 CARBIDE LANE, KEOKUK, IA, 52632-2047		1006765374
▲ A2	Target Property 660 ft. Above Sea Level	Other Standard Environmental Records

Worksheet:

FINDS: Other Standard Environmental Records

Registry ID: 110013331992

Environmental Interest/Information System:

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

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.

HAZARDOUS AIR POLLUTANT MAJOR

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

ICIS: Other Standard Environmental Records

Enforcement Action ID: 07-1987-0291
FRS ID: 110013331992
Program ID: EIS 7257211
Action Name: MIDWEST CARBIDE CORPORATION, KEOKUK, IA
Full Address: 365 CARBIDE LANE KEOKUK IA 52632-2047
State: Iowa
Facility Name: ELKEM CARBON KEOKUK
Facility Address: 365 CARBIDE LANE
KEOKUK, IA 52632-2047
Enforcement Action Type: RCRA 3008A AO For Comp And/Or Penalty
Facility County: LEE
EPA Region #: 7

Enforcement Action ID: 07-1987-0291
FRS ID: 110013331992
Program ID: FRS 110013331992
Action Name: MIDWEST CARBIDE CORPORATION, KEOKUK, IA

ELKEM CARBON KEOKUK, 365 CARBIDE LANE, KEOKUK, IA 52632-2047 (Continued)

Full Address:	365 CARBIDE LANE KEOKUK IA 52632-2047
State:	Iowa
Facility Name:	ELKEM CARBON KEOKUK
Facility Address:	365 CARBIDE LANE KEOKUK, IA 52632-2047
Enforcement Action Type:	RCRA 3008A AO For Comp And/Or Penalty
Facility County:	LEE
EPA Region #:	7
Enforcement Action ID:	07-1987-0291
FRS ID:	110013331992
Program ID:	NCDB I07#19900725IA009 1
Action Name:	MIDWEST CARBIDE CORPORATION, KEOKUK, IA
Full Address:	365 CARBIDE LANE KEOKUK IA 52632-2047
State:	Iowa
Facility Name:	ELKEM CARBON KEOKUK
Facility Address:	365 CARBIDE LANE KEOKUK, IA 52632-2047
Enforcement Action Type:	RCRA 3008A AO For Comp And/Or Penalty
Facility County:	LEE
EPA Region #:	7
Enforcement Action ID:	07-1987-0291
FRS ID:	110013331992
Program ID:	TRIS 52632MDWST365CA
Action Name:	MIDWEST CARBIDE CORPORATION, KEOKUK, IA
Full Address:	365 CARBIDE LANE KEOKUK IA 52632-2047
State:	Iowa
Facility Name:	ELKEM CARBON KEOKUK
Facility Address:	365 CARBIDE LANE KEOKUK, IA 52632-2047
Enforcement Action Type:	RCRA 3008A AO For Comp And/Or Penalty
Facility County:	LEE
EPA Region #:	7
Enforcement Action ID:	07-1987-0291
FRS ID:	110013331992
Program ID:	NEI NEI32744
Action Name:	MIDWEST CARBIDE CORPORATION, KEOKUK, IA
Full Address:	365 CARBIDE LANE KEOKUK IA 52632-2047
State:	Iowa
Facility Name:	ELKEM CARBON KEOKUK
Facility Address:	365 CARBIDE LANE KEOKUK, IA 52632-2047
Enforcement Action Type:	RCRA 3008A AO For Comp And/Or Penalty
Facility County:	LEE
EPA Region #:	7
Enforcement Action ID:	07-1987-0291
FRS ID:	110013331992
Program ID:	RCRAINFO IAD005267588

ELKEM CARBON KEOKUK, 365 CARBIDE LANE, KEOKUK, IA 52632-2047 (Continued)

Action Name:	MIDWEST CARBIDE CORPORATION, KEOKUK, IA
Full Address:	365 CARBIDE LANE KEOKUK IA 52632-2047
State:	Iowa
Facility Name:	ELKEM CARBON KEOKUK
Facility Address:	365 CARBIDE LANE KEOKUK, IA 52632-2047
Enforcement Action Type:	RCRA 3008A AO For Comp And/Or Penalty
Facility County:	LEE
EPA Region #:	7
Enforcement Action ID:	07-1987-0291
FRS ID:	110013331992
Program ID:	NEI NEI2IA601005
Action Name:	MIDWEST CARBIDE CORPORATION, KEOKUK, IA
Full Address:	365 CARBIDE LANE KEOKUK IA 52632-2047
State:	Iowa
Facility Name:	ELKEM CARBON KEOKUK
Facility Address:	365 CARBIDE LANE KEOKUK, IA 52632-2047
Enforcement Action Type:	RCRA 3008A AO For Comp And/Or Penalty
Facility County:	LEE
EPA Region #:	7
Program ID:	EIS 7257211
Facility Name:	ELKEM CARBON KEOKUK
Address:	365 CARBIDE LANE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not Reported
SIC Code:	2999
Program ID:	EIS 7257211
Facility Name:	ELKEM CARBON KEOKUK
Address:	365 CARBIDE LANE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not Reported
SIC Code:	3624
Program ID:	FRS 110013331992
Facility Name:	ELKEM CARBON KEOKUK
Address:	365 CARBIDE LANE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not Reported
SIC Code:	2999
Program ID:	FRS 110013331992
Facility Name:	ELKEM CARBON KEOKUK
Address:	365 CARBIDE LANE
Tribal Indicator:	N

ELKEM CARBON KEOKUK, 365 CARBIDE LANE, KEOKUK, IA 52632-2047 (Continued)

Fed Facility:	No
NAIC Code:	Not Reported
SIC Code:	3624
Program ID:	NCDB I07#19900725IA009 1
Facility Name:	ELKEM CARBON KEOKUK
Address:	365 CARBIDE LANE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not Reported
SIC Code:	2999
Program ID:	NCDB I07#19900725IA009 1
Facility Name:	ELKEM CARBON KEOKUK
Address:	365 CARBIDE LANE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not Reported
SIC Code:	3624
Program ID:	NEI NEI2IA601005
Facility Name:	ELKEM CARBON KEOKUK
Address:	365 CARBIDE LANE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not Reported
SIC Code:	2999
Program ID:	NEI NEI2IA601005
Facility Name:	ELKEM CARBON KEOKUK
Address:	365 CARBIDE LANE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not Reported
SIC Code:	3624
Program ID:	NEI NEI32744
Facility Name:	ELKEM CARBON KEOKUK
Address:	365 CARBIDE LANE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not Reported
SIC Code:	2999
Program ID:	NEI NEI32744
Facility Name:	ELKEM CARBON KEOKUK
Address:	365 CARBIDE LANE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not Reported
SIC Code:	3624
Program ID:	RCRAINFO IAD005267588

ELKEM CARBON KEOKUK, 365 CARBIDE LANE, KEOKUK, IA 52632-2047 (Continued)

Facility Name:	ELKEM CARBON KEOKUK
Address:	365 CARBIDE LANE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not Reported
SIC Code:	2999
Program ID:	RCRAINFO IAD005267588
Facility Name:	ELKEM CARBON KEOKUK
Address:	365 CARBIDE LANE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not Reported
SIC Code:	3624
Program ID:	TRIS 52632MDWST365CA
Facility Name:	ELKEM CARBON KEOKUK
Address:	365 CARBIDE LANE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not Reported
SIC Code:	2999
Program ID:	TRIS 52632MDWST365CA
Facility Name:	ELKEM CARBON KEOKUK
Address:	365 CARBIDE LANE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not Reported
SIC Code:	3624

MAP FINDINGS

ELKEM CARBON - KEOKUK 365 CARBIDE LANE RD, KEOKUK, IA, 52632		1000436438
▲ A3	Target Property 660 ft. Above Sea Level	Federal RCRA CORRACTS facilities list Other Standard Environmental Records

Worksheet:

CORRACTS: Federal RCRA CORRACTS facilities list

EPA ID:	IAD005267588
EPA Region:	7
Area Name:	ENTIRE FACILITY
Actual Date:	19920128
Action:	CA075ME - CA Prioritization, Facility or area was assigned a medium corrective action priority
NAICS Code(s):	335991 Carbon and Graphite Product Manufacturing
Original schedule date:	Not Reported
Schedule end date:	Not Reported
EPA ID:	IAD005267588
EPA Region:	7
Area Name:	ENTIRE FACILITY
Actual Date:	19880201
Action:	CA050RF - RFA Completed, Assessment was an RFA
NAICS Code(s):	335991 Carbon and Graphite Product Manufacturing
Original schedule date:	19880401
Schedule end date:	Not Reported
EPA ID:	IAD005267588
EPA Region:	7
Area Name:	ENTIRE FACILITY
Actual Date:	19880201
Action:	CA070NO - RFA Determination Of Need For An RFI, RFI is Not Necessary
NAICS Code(s):	335991 Carbon and Graphite Product Manufacturing
Original schedule date:	Not Reported
Schedule end date:	Not Reported
EPA ID:	IAD005267588
EPA Region:	7
Area Name:	ENTIRE FACILITY
Actual Date:	19950322
Action:	CA225NR - Stabilization Measures Evaluation, This facility is, not amenable to stabilization activity at the, present time for reasons other than (1) it appears to be technically, infeasible or inappropriate (NF) or (2) there is a lack of technical, information (IN). Reasons for this conclusion may be the status of, closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other, administrative considerations
NAICS Code(s):	335991 Carbon and Graphite Product Manufacturing
Original schedule date:	19950930

ELKEM CARBON - KEOKUK, 365 CARBIDE LANE RD, KEOKUK, IA 52632 (Continued)

Schedule end date:	Not Reported
EPA ID:	IAD005267588
EPA Region:	7
Area Name:	ENTIRE FACILITY
Actual Date:	20100428
Action:	CA050 - RFA Completed
NAICS Code(s):	335991
	Carbon and Graphite Product Manufacturing
Original schedule date:	Not Reported
Schedule end date:	Not Reported
EPA ID:	IAD005267588
EPA Region:	7
Area Name:	ENTIRE FACILITY
Actual Date:	20120731
Action:	CA050 - RFA Completed
NAICS Code(s):	335991
	Carbon and Graphite Product Manufacturing
Original schedule date:	Not Reported
Schedule end date:	Not Reported

RAATS: Other Standard Environmental Records

Entry No:	1
Facility ID:	IAD005267588
Type:	Not Reported
Docket No:	VII 88-H-0011
Region:	07
Issue Date:	03/07/1989
Final Date:	03/23/1988
Status:	Consent Agreement/Final Order
Additional:	Not Reported
Action ID:	899
Action:	3008 (A)
Violation No:	Not Reported
Viol No Cited:	1 265.312
Total No Cited:	Not Reported
Reg Type:	CFR
Prop. Penalty:	6,500.00
Final Penalty:	27,375.00
Total Prop. Penalty:	36,500.00
Comments:	THIS IS AN AMENDED COMPLAINT ORIGINAL COMPLAINT ISSUED ON 3/23/88
Entry No:	1
Facility ID:	IAD005267588
Type:	Not Reported
Docket No:	VII 88-H-0011
Region:	07
Issue Date:	03/07/1989
Final Date:	03/23/1988

ELKEM CARBON - KEOKUK, 365 CARBIDE LANE RD, KEOKUK, IA 52632 (Continued)

Status:	Consent Agreement/Final Order
Additional:	Not Reported
Action ID:	899
Action:	3008 (A)
Violation No:	Not Reported
Viol No Cited:	2 265.91
Total No Cited:	Not Reported
Reg Type:	CFR
Prop. Penalty:	6,500.00
Final Penalty:	27,375.00
Total Prop. Penalty:	36,500.00
Comments:	THIS IS AN AMENDED COMPLAINT ORIGINAL COMPLAINT ISSUED ON 3/23/88

Entry No:	1
Facility ID:	IAD005267588
Type:	Not Reported
Docket No:	VII 88-H-0011
Region:	07
Issue Date:	03/07/1989
Final Date:	03/23/1988
Status:	Consent Agreement/Final Order
Additional:	Not Reported
Action ID:	899
Action:	3008 (A)
Violation No:	Not Reported
Viol No Cited:	3 265.147(A)
Total No Cited:	Not Reported
Reg Type:	CFR
Prop. Penalty:	1,000.00
Final Penalty:	27,375.00
Total Prop. Penalty:	36,500.00
Comments:	THIS IS AN AMENDED COMPLAINT ORIGINAL COMPLAINT ISSUED ON 3/23/88

Entry No:	1
Facility ID:	IAD005267588
Type:	Not Reported
Docket No:	VII 88-H-0011
Region:	07
Issue Date:	03/07/1989
Final Date:	03/23/1988
Status:	Consent Agreement/Final Order
Additional:	Not Reported
Action ID:	899
Action:	3008 (A)
Violation No:	Not Reported
Viol No Cited:	4 3005(A)
Total No Cited:	Not Reported
Reg Type:	Federal
Prop. Penalty:	22,500.00
Final Penalty:	27,375.00
Total Prop. Penalty:	36,500.00

ELKEM CARBON - KEOKUK, 365 CARBIDE LANE RD, KEOKUK, IA 52632 (Continued)

Comments:	THIS IS AN AMENDED COMPLAINT ORIGINAL COMPLAINT ISSUED ON 3/23/88
Entry No:	1
Facility ID:	IAD005267588
Type:	Not Reported
Docket No:	VII 88-H-0011
Region:	07
Issue Date:	03/07/1989
Final Date:	03/23/1988
Status:	Consent Agreement/Final Order
Additional:	Not Reported
Action ID:	899
Action:	3008 (A)
Violation No:	Not Reported
Viol No Cited:	1 265.312
Total No Cited:	Not Reported
Reg Type:	CFR
Prop. Penalty:	6,500.00
Final Penalty:	27,375.00
Total Prop. Penalty:	36,500.00
Comments:	THIS IS AN AMENDED COMPLAINT ORIGINAL COMPLAINT ISSUED ON 3/23/88
Entry No:	1
Facility ID:	IAD005267588
Type:	Not Reported
Docket No:	VII 88-H-0011
Region:	07
Issue Date:	03/07/1989
Final Date:	03/23/1988
Status:	Consent Agreement/Final Order
Additional:	Not Reported
Action ID:	899
Action:	3008 (A)
Violation No:	Not Reported
Viol No Cited:	2 265.91
Total No Cited:	Not Reported
Reg Type:	CFR
Prop. Penalty:	6,500.00
Final Penalty:	27,375.00
Total Prop. Penalty:	36,500.00
Comments:	THIS IS AN AMENDED COMPLAINT ORIGINAL COMPLAINT ISSUED ON 3/23/88
Entry No:	1
Facility ID:	IAD005267588
Type:	Not Reported
Docket No:	VII 88-H-0011
Region:	07
Issue Date:	03/07/1989
Final Date:	03/23/1988
Status:	Consent Agreement/Final Order
Additional:	Not Reported

ELKEM CARBON - KEOKUK, 365 CARBIDE LANE RD, KEOKUK, IA 52632 (Continued)

Action ID:	899
Action:	3008 (A)
Violation No:	Not Reported
Viol No Cited:	3 265.147(A)
Total No Cited:	Not Reported
Reg Type:	CFR
Prop. Penalty:	1,000.00
Final Penalty:	27,375.00
Total Prop. Penalty:	36,500.00
Comments:	THIS IS AN AMENDED COMPLAINT ORIGINAL COMPLAINT ISSUED ON 3/23/88
Entry No:	1
Facility ID:	IAD005267588
Type:	Not Reported
Docket No:	VII 88-H-0011
Region:	07
Issue Date:	03/07/1989
Final Date:	03/23/1988
Status:	Consent Agreement/Final Order
Additional:	Not Reported
Action ID:	899
Action:	3008 (A)
Violation No:	Not Reported
Viol No Cited:	4 3005(A)
Total No Cited:	Not Reported
Reg Type:	Federal
Prop. Penalty:	22,500.00
Final Penalty:	27,375.00
Total Prop. Penalty:	36,500.00
Comments:	THIS IS AN AMENDED COMPLAINT ORIGINAL COMPLAINT ISSUED ON 3/23/88

RCRA NonGen / NLR: Other Standard Environmental Records

Date form received by agency:	02/08/2006
Facility name:	ELKEM CARBON - KEOKUK
Facility address:	365 CARBIDE LANE RD KEOKUK, IA 52632
EPA ID:	IAD005267588
Mailing address:	PO BOX 6003 KEOKUK, IA 52632
Contact:	DAN O'CONNELL
Contact address:	PO BOX 6003 KEOKUK, IA 52632
Contact country:	US
Contact telephone:	(319) 524-6510
Contact email:	Not Reported
EPA Region:	07
Land type:	Private
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

ELKEM CARBON - KEOKUK, 365 CARBIDE LANE RD, KEOKUK, IA 52632 (Continued)

Owner/Operator Summary:

Owner/operator name:	MIDWEST CARBIDE CORPORATION
Owner/operator address:	PO BOX 607 KEOKUK, IA 52632
Owner/operator country:	US
Owner/operator telephone:	(319) 524-6510
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not Reported
Owner/Op end date:	02/08/2006
Owner/operator name:	ELKEM METALS
Owner/operator address:	Not Reported
Owner/operator country:	US
Owner/operator telephone:	(319) 524-6510
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	02/08/2006
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:	07/18/2005
Site name:	ELKEM CARBON - KEOKUK
Classification:	Conditionally Exempt Small Quantity Generator
. Waste code:	D001
. Waste name:	IGNITABLE WASTE
. Waste code:	D002
. Waste name:	CORROSIVE WASTE
. Waste code:	D003

ELKEM CARBON - KEOKUK, 365 CARBIDE LANE RD, KEOKUK, IA 52632 (Continued)

. Waste name: REACTIVE WASTE

. Waste code: D005
. Waste name: BARIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D009
. Waste name: MERCURY

. Waste code: P012
. Waste name: ARSENIC OXIDE AS2O3 (OR) ARSENIC TRIOXIDE

. Waste code: P030
. Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

. Waste code: P098
. Waste name: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)

. Waste code: P106
. Waste name: SODIUM CYANIDE (OR) SODIUM CYANIDE NA(CN)

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

. Waste code: U169
. Waste name: BENZENE, NITRO- (OR) NITROBENZENE (I,T)

. Waste code: U188
. Waste name: PHENOL

. Waste code: U197
. Waste name: 2,5-CYCLOHEXADIENE-1,4-DIONE (OR) P-BENZOQUINONE

. Waste code: U239
. Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Date form received by agency: 01/27/2003
Site name: ELKEM CARBON - KEOKUK
Classification: Not a generator, verified

Date form received by agency: 04/15/1996
Site name: MIDWEST CARBIDE
Classification: Not a generator, verified

. Waste code: NONE
. Waste name: None

Date form received by agency: 03/10/1994
Site name: MIDWEST CARBIDE
Classification: Not a generator, verified

. Waste code: NONE
. Waste name: None

ELKEM CARBON - KEOKUK, 365 CARBIDE LANE RD, KEOKUK, IA 52632 (Continued)

Date form received by agency:	11/14/1980
Site name:	MIDWEST CARBIDE
Classification:	Not a generator, verified
. Waste code:	D001
. Waste name:	IGNITABLE WASTE
. Waste code:	D003
. Waste name:	REACTIVE WASTE

Corrective Action Summary:

Event date:	02/01/1988
Event:	RFA Completed, Assessment was an RFA.
Event date:	02/01/1988
Event:	RFA Determination Of Need For An RFI, RFI is Not Necessary;
Event date:	01/28/1992
Event:	CA Prioritization, Facility or area was assigned a medium corrective action priority.
Event date:	03/22/1995
Event:	Stabilization Measures Evaluation,This facility is not amenable to stabilization activity at the present time for reasons other than 1- it appears to be technically infeasible or inappropriate (NF) or 2- there is a lack of technical information (IN). Reasons for this conclusion may be the status of closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other administrative considerations.
Event date:	04/28/2010
Event:	RFA Completed
Event date:	07/31/2012
Event:	RFA Completed

Facility Has Received Notices of Violations:

Regulation violated:	Not Reported
Area of violation:	TSD - Closure/Post-Closure
Date violation determined:	03/09/1989
Date achieved compliance:	03/13/1990
Violation lead agency:	EPA
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	03/09/1989
Enf. disposition status:	Not Reported
Enf. disp. status date:	Not Reported
Enforcement lead agency:	EPA
Proposed penalty amount:	Not Reported
Final penalty amount:	Not Reported
Paid penalty amount:	Not Reported
Regulation violated:	Not Reported
Area of violation:	LDR - General
Date violation determined:	03/16/1988
Date achieved compliance:	03/13/1990
Violation lead agency:	EPA
Enforcement action:	Not Reported

ELKEM CARBON - KEOKUK, 365 CARBIDE LANE RD, KEOKUK, IA 52632 (Continued)

Enforcement action date:	Not Reported
Enf. disposition status:	Not Reported
Enf. disp. status date:	Not Reported
Enforcement lead agency:	Not Reported
Proposed penalty amount:	Not Reported
Final penalty amount:	Not Reported
Paid penalty amount:	Not Reported
Regulation violated:	Not Reported
Area of violation:	TSD - Closure/Post-Closure
Date violation determined:	05/15/1987
Date achieved compliance:	05/30/1989
Violation lead agency:	EPA
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	05/15/1987
Enf. disposition status:	Not Reported
Enf. disp. status date:	Not Reported
Enforcement lead agency:	EPA
Proposed penalty amount:	Not Reported
Final penalty amount:	Not Reported
Paid penalty amount:	Not Reported
Regulation violated:	Not Reported
Area of violation:	TSD - Closure/Post-Closure
Date violation determined:	05/15/1987
Date achieved compliance:	05/30/1989
Violation lead agency:	EPA
Enforcement action:	INITIAL 3008(A) COMPLIANCE
Enforcement action date:	03/23/1988
Enf. disposition status:	Not Reported
Enf. disp. status date:	Not Reported
Enforcement lead agency:	EPA
Proposed penalty amount:	46450
Final penalty amount:	Not Reported
Paid penalty amount:	Not Reported
Regulation violated:	Not Reported
Area of violation:	TSD - General
Date violation determined:	05/15/1987
Date achieved compliance:	05/30/1989
Violation lead agency:	EPA
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	05/15/1987
Enf. disposition status:	Not Reported
Enf. disp. status date:	Not Reported
Enforcement lead agency:	EPA
Proposed penalty amount:	Not Reported
Final penalty amount:	Not Reported
Paid penalty amount:	Not Reported
Regulation violated:	Not Reported
Area of violation:	TSD - Closure/Post-Closure

ELKEM CARBON - KEOKUK, 365 CARBIDE LANE RD, KEOKUK, IA 52632 (Continued)

Date violation determined:	05/15/1987
Date achieved compliance:	05/30/1989
Violation lead agency:	EPA
Enforcement action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date:	03/07/1989
Enf. disposition status:	Not Reported
Enf. disp. status date:	Not Reported
Enforcement lead agency:	EPA
Proposed penalty amount:	Not Reported
Final penalty amount:	27375
Paid penalty amount:	27375
Regulation violated:	Not Reported
Area of violation:	TSD - General
Date violation determined:	05/15/1987
Date achieved compliance:	05/30/1989
Violation lead agency:	EPA
Enforcement action:	INITIAL 3008(A) COMPLIANCE
Enforcement action date:	03/23/1988
Enf. disposition status:	Not Reported
Enf. disp. status date:	Not Reported
Enforcement lead agency:	EPA
Proposed penalty amount:	46450
Final penalty amount:	Not Reported
Paid penalty amount:	Not Reported
Regulation violated:	Not Reported
Area of violation:	TSD - Financial Requirements
Date violation determined:	05/15/1987
Date achieved compliance:	05/30/1989
Violation lead agency:	EPA
Enforcement action:	INITIAL 3008(A) COMPLIANCE
Enforcement action date:	03/23/1988
Enf. disposition status:	Not Reported
Enf. disp. status date:	Not Reported
Enforcement lead agency:	EPA
Proposed penalty amount:	46450
Final penalty amount:	Not Reported
Paid penalty amount:	Not Reported
Regulation violated:	Not Reported
Area of violation:	TSD - Financial Requirements
Date violation determined:	05/15/1987
Date achieved compliance:	05/30/1989
Violation lead agency:	EPA
Enforcement action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date:	03/07/1989
Enf. disposition status:	Not Reported
Enf. disp. status date:	Not Reported
Enforcement lead agency:	EPA
Proposed penalty amount:	Not Reported

ELKEM CARBON - KEOKUK, 365 CARBIDE LANE RD, KEOKUK, IA 52632 (Continued)

Final penalty amount:	27375
Paid penalty amount:	27375
Regulation violated:	Not Reported
Area of violation:	TSD IS-Ground-Water Monitoring
Date violation determined:	05/15/1987
Date achieved compliance:	03/13/1990
Violation lead agency:	EPA
Enforcement action:	Not Reported
Enforcement action date:	Not Reported
Enf. disposition status:	Not Reported
Enf. disp. status date:	Not Reported
Enforcement lead agency:	Not Reported
Proposed penalty amount:	Not Reported
Final penalty amount:	Not Reported
Paid penalty amount:	Not Reported
Regulation violated:	Not Reported
Area of violation:	TSD - General
Date violation determined:	05/15/1987
Date achieved compliance:	05/30/1989
Violation lead agency:	EPA
Enforcement action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date:	03/07/1989
Enf. disposition status:	Not Reported
Enf. disp. status date:	Not Reported
Enforcement lead agency:	EPA
Proposed penalty amount:	Not Reported
Final penalty amount:	27375
Paid penalty amount:	27375
Regulation violated:	Not Reported
Area of violation:	TSD - Financial Requirements
Date violation determined:	05/15/1987
Date achieved compliance:	05/30/1989
Violation lead agency:	EPA
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	05/15/1987
Enf. disposition status:	Not Reported
Enf. disp. status date:	Not Reported
Enforcement lead agency:	EPA
Proposed penalty amount:	Not Reported
Final penalty amount:	Not Reported
Paid penalty amount:	Not Reported
Regulation violated:	Not Reported
Area of violation:	TSD IS-Ground-Water Monitoring
Date violation determined:	04/14/1987
Date achieved compliance:	05/15/1987
Violation lead agency:	EPA
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	04/14/1987

ELKEM CARBON - KEOKUK, 365 CARBIDE LANE RD, KEOKUK, IA 52632 (Continued)

Enf. disposition status:	Not Reported
Enf. disp. status date:	Not Reported
Enforcement lead agency:	EPA
Proposed penalty amount:	Not Reported
Final penalty amount:	Not Reported
Paid penalty amount:	Not Reported
Regulation violated:	Not Reported
Area of violation:	TSD - General
Date violation determined:	07/09/1986
Date achieved compliance:	05/04/1987
Violation lead agency:	EPA
Enforcement action:	Not Reported
Enforcement action date:	Not Reported
Enf. disposition status:	Not Reported
Enf. disp. status date:	Not Reported
Enforcement lead agency:	Not Reported
Proposed penalty amount:	Not Reported
Final penalty amount:	Not Reported
Paid penalty amount:	Not Reported
Regulation violated:	Not Reported
Area of violation:	TSD - Financial Requirements
Date violation determined:	03/31/1986
Date achieved compliance:	06/17/1986
Violation lead agency:	EPA
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	04/03/1986
Enf. disposition status:	Not Reported
Enf. disp. status date:	Not Reported
Enforcement lead agency:	EPA
Proposed penalty amount:	Not Reported
Final penalty amount:	Not Reported
Paid penalty amount:	Not Reported
Regulation violated:	Not Reported
Area of violation:	TSD - General
Date violation determined:	05/13/1985
Date achieved compliance:	06/11/1985
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	05/23/1985
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:	TSD - Financial Requirements
Date violation determined:	10/04/1984

ELKEM CARBON - KEOKUK, 365 CARBIDE LANE RD, KEOKUK, IA 52632 (Continued)

Date achieved compliance:	11/06/1984
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	10/12/1984
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:	TSD - Closure/Post-Closure
Date violation determined:	10/04/1984
Date achieved compliance:	11/08/1984
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	10/04/1984
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:	TSD - Financial Requirements
Date violation determined:	08/18/1984
Date achieved compliance:	09/18/1984
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	08/18/1984
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:	TSD - Closure/Post-Closure
Date violation determined:	07/26/1984
Date achieved compliance:	08/29/1984
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	08/06/1984
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

ELKEM CARBON - KEOKUK, 365 CARBIDE LANE RD, KEOKUK, IA 52632 (Continued)

Paid penalty amount:	Not Reported
Regulation violated:	Not Reported
Area of violation:	TSD - Financial Requirements
Date violation determined:	07/26/1984
Date achieved compliance:	08/29/1984
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	08/06/1984
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:	02/08/2006
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not Reported
Date achieved compliance:	Not Reported
Evaluation lead agency:	EPA Contractor/Grantee
Evaluation date:	03/13/1994
Evaluation:	FOCUSED COMPLIANCE INSPECTION
Area of violation:	Not Reported
Date achieved compliance:	Not Reported
Evaluation lead agency:	EPA Contractor/Grantee
Evaluation date:	03/13/1990
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not Reported
Date achieved compliance:	Not Reported
Evaluation lead agency:	EPA
Evaluation date:	03/09/1989
Evaluation:	NON-FINANCIAL RECORD REVIEW
Area of violation:	TSD - Closure/Post-Closure
Date achieved compliance:	03/13/1990
Evaluation lead agency:	EPA
Evaluation date:	11/16/1988
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - Financial Requirements
Date achieved compliance:	05/30/1989
Evaluation lead agency:	EPA
Evaluation date:	03/16/1988
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	LDR - General
Date achieved compliance:	03/13/1990
Evaluation lead agency:	EPA

ELKEM CARBON - KEOKUK, 365 CARBIDE LANE RD, KEOKUK, IA 52632 (Continued)

Evaluation date:	05/15/1987
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - Financial Requirements
Date achieved compliance:	05/30/1989
Evaluation lead agency:	EPA
Evaluation date:	05/15/1987
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - General
Date achieved compliance:	05/30/1989
Evaluation lead agency:	EPA
Evaluation date:	05/15/1987
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - Closure/Post-Closure
Date achieved compliance:	05/30/1989
Evaluation lead agency:	EPA
Evaluation date:	05/15/1987
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD IS-Ground-Water Monitoring
Date achieved compliance:	03/13/1990
Evaluation lead agency:	EPA
Evaluation date:	04/14/1987
Evaluation:	NON-FINANCIAL RECORD REVIEW
Area of violation:	TSD IS-Ground-Water Monitoring
Date achieved compliance:	05/15/1987
Evaluation lead agency:	EPA
Evaluation date:	07/09/1986
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - General
Date achieved compliance:	05/04/1987
Evaluation lead agency:	EPA
Evaluation date:	03/31/1986
Evaluation:	FINANCIAL RECORD REVIEW
Area of violation:	TSD - Financial Requirements
Date achieved compliance:	06/17/1986
Evaluation lead agency:	EPA
Evaluation date:	05/30/1985
Evaluation:	FINANCIAL RECORD REVIEW
Area of violation:	Not Reported
Date achieved compliance:	Not Reported
Evaluation lead agency:	State
Evaluation date:	05/13/1985
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - General
Date achieved compliance:	06/11/1985
Evaluation lead agency:	State

ELKEM CARBON - KEOKUK, 365 CARBIDE LANE RD, KEOKUK, IA 52632 (Continued)

Evaluation date:	10/04/1984
Evaluation:	FINANCIAL RECORD REVIEW
Area of violation:	TSD - Closure/Post-Closure
Date achieved compliance:	11/08/1984
Evaluation lead agency:	State
Evaluation date:	10/04/1984
Evaluation:	FINANCIAL RECORD REVIEW
Area of violation:	TSD - Financial Requirements
Date achieved compliance:	11/06/1984
Evaluation lead agency:	State
Evaluation date:	08/18/1984
Evaluation:	FINANCIAL RECORD REVIEW
Area of violation:	TSD - Financial Requirements
Date achieved compliance:	09/18/1984
Evaluation lead agency:	State
Evaluation date:	07/26/1984
Evaluation:	GROUNDWATER MONITORING EVALUATION
Area of violation:	Not Reported
Date achieved compliance:	Not Reported
Evaluation lead agency:	EPA
Evaluation date:	07/26/1984
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - Closure/Post-Closure
Date achieved compliance:	08/29/1984
Evaluation lead agency:	State
Evaluation date:	07/26/1984
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - Financial Requirements
Date achieved compliance:	08/29/1984
Evaluation lead agency:	State
Evaluation date:	05/24/1984
Evaluation:	NON-FINANCIAL RECORD REVIEW
Area of violation:	Not Reported
Date achieved compliance:	Not Reported
Evaluation lead agency:	State

MAP FINDINGS

365 CARBIDE LN 365 CARBIDE LN, KEOKUK, IA, 0		2000551647
▲ A4	Target Property 660 ft. Above Sea Level	Federal ERNS list

Worksheet:

ERNS: Federal ERNS list

Site ID:	2000551647
Incident cause:	OTHER
Incident desc:	THE MATERIAL WAS RELEASED FROM A TRANSFORMER TANK ON A CONCRETE SLAB DUE TO WATER IN THE COILS THAT DISPLACED THE OIL.
Incident type:	FIXED
Incident date:	20001220
Incident TG:	OCCURRED
Inc location:	THE TRANSFORMER IS LOCATED NEAR THE CALCINE FURNACE
Incident address:	365 CARBIDE LN KEOKUK, IA 0
Distance from city:	Not Reported
Lat/Long:	/
Lat/Long quad:	/
Incident date:	12/20/2000
Township/section/range:	//
WMD flag:	False
Rad flag:	False
Oil flag:	True
Potential:	Not Reported
Amt material flag:	Not Reported
LNG flag:	Not Reported
Fire involved:	No
Fire extinguished:	Unknown
Any evacuees:	No
Number of evacs:	Not Reported
Who evacuated:	Not Reported
Radius of evacuation:	Not Reported
Any injuries:	No
Number injured:	Not Reported
Number hospitalized:	Not Reported
Any fatalities:	No
Any damage:	No
Damage amount:	Not Reported
Air corridor desc:	Not Reported
Air corridor closed:	Not Reported
Water description:	Not Reported
Water closed:	No
Water closed time:	Not Reported
Road closed:	No
Road closed desc:	Not Reported
Road closed time:	Not Reported

365 CARBIDE LN, 365 CARBIDE LN, KEOKUK, IA 0 (Continued)

Closure direction:	Not Reported
Major artery:	No
Track closed:	No
Track closed time:	Not Reported
Tr. close direction:	Not Reported
Track description:	Not Reported
Media interest:	NONE
Medium affected:	WATER
Additional medium:	OUTFALL>SOAP CREEK
Body of water:	OUTFALL
Tributary:	SOAP CREEK
Near river:	0
Release secured:	Yes
Est. duration of rel.:	Not Reported
Release rate:	Not Reported
Rel. rate units:	Not Reported
Rel. per units:	Not Reported
Remedial action:	OIL DRY APPLIED, BROKE THROUGH THE ICE AND APPLIED ABSORBENTS
Agency on scene:	Not Reported
Other agency:	Not Reported
State agency notified:	IADNR
Fed. agency notified:	Not Reported
Structure name:	Not Reported
Structure type:	Not Reported
Struct. operator:	Not Reported
Weather:	UNKNOWN
Air temp:	0
Wind speed:	0
Wind speed unit:	Not Reported
Wind direction:	Not Reported
Water contaminated:	No
Sheen size:	Not Reported
Sheen size units:	Not Reported
Sheen color:	RAINBOW
Sheen odor:	NO SHEEN INFORMATION
Sheen length:	Not Reported
Sheen len. units:	Not Reported
Sheen width:	Not Reported
Sheen wid. units:	Not Reported
Wave condit:	Not Reported
Current speed:	Not Reported
Current speed units:	Not Reported
Current direction:	Not Reported
Water temp:	Not Reported
Allision:	Not Reported
Employees injured:	Not Reported
Employee fatalities:	Not Reported
Passengers injured:	Not Reported
Passenger fatalities:	Not Reported
Occupant fatalities:	Not Reported

365 CARBIDE LN, 365 CARBIDE LN, KEOKUK, IA 0 (Continued)

Community impact:	No
Offshore:	No
Addition info:	THE CALLER STATED THE RELEASE DOES NOT CONTAIN PCB'S.
Aircraft type:	Not Reported
Aircraft model:	Not Reported
Aircraft ID:	Not Reported
Aircraft fuel cap:	Not Reported
Capacity units:	Not Reported
Fuel onboard:	Not Reported
Fuel units:	Not Reported
Spot number:	Not Reported
AC hanger:	Not Reported
AC runway:	Not Reported
Mile marker:	Not Reported
Building ID:	Not Reported
Type fixed obj:	TRANSFORMER
Power gen facility:	No
Generation capacity:	Not Reported
Fuel type:	Not Reported
NPDES:	Not Reported
NPDES compliance:	Unknown
Pipe type:	Not Reported
DOT regulated:	Unknown
Pipe above:	ABOVE
Exposed underwtr:	No
Pipe covered:	Unknown
Railroad hotline:	Not Reported
Grade crossing:	No
Location subdivision:	Not Reported
Railroad milepost:	Not Reported
Vehicle type:	Not Reported
Crossing device:	Not Reported
Device operational:	Yes
DOT crossing #:	Not Reported
Brakes failed:	No
Tank description:	Not Reported
Above ground tank:	ABOVE
Tank regulated:	Unknown
Tank ID:	Not Reported
Tank regulated by:	Not Reported
Tank capacity:	Not Reported
Capacity units:	Not Reported
Actual amount:	Not Reported
Amount units:	Not Reported
Transportable container:	Unknown
Platform rig name:	Not Reported
Platform letter:	Not Reported
Local area ID:	Not Reported
Local block ID:	Not Reported

365 CARBIDE LN, 365 CARBIDE LN, KEOKUK, IA 0 (Continued)

OCSG number:	Not Reported
State lease #:	Not Reported
Pier dock #:	Not Reported
Berth slip #:	Not Reported
Initial continuous rel #:	Not Reported
Cont. rel permit:	Not Reported
Allision:	No
Structure type:	Not Reported
Structure:	Not Reported
Structure operator:	U
Air bag deployed:	Not Reported
Date time normal srvc:	Not Reported
Service disruption time:	Not Reported
Transit bus flag:	Not Reported
Begin date:	Not Reported
End date:	Not Reported
Change date:	Not Reported
Call received date:	20001221
Complete date:	20001221
Call Taker:	CAP5932
Call Type:	INC
Responsible Party:	DAVID BOGNER
RP telephone:	3195246510
RP tel type:	PRIMARY
Responsible company:	MIDWEST CARBIDE
RC organization type:	PRIVATE ENTERPRISE
PR address:	365 CARBIDE LN KEOKUK, IA
Initial caller:	Not Reported
Initially reported comp.:	Not Reported
On behalf:	Yes
Source:	TELEPHONE
Spilled material:	OIL, MISC: TRANSFORMER
Material CHRIS code:	OTF
Mat. CAS number:	000000-00-0
Material UN #:	Not Reported
Amount of spilled mat.:	0
Mat. amount unit:	UNKNOWN AMOUNT
Mat. reached water:	YES
Amount in water:	0
Amount in water units:	UNKNOWN AMOUNT

MAP FINDINGS

MIDWEST CARBIDE CORP 365 CARBIDE RD, KEOKUK, IA, 52632		1007286447
▲ A5	Target Property 660 ft. Above Sea Level	Other Standard Environmental Records

Worksheet:

FTTS INSP: Other Standard Environmental Records

Inspection Number:	19950329KY020 1
Region:	04
Inspection Date:	03/29/95
Inspector:	KNOPP,JOAN
Violation occurred:	No
Investigation Type:	Section 6 PCB State Conducted
Investigation Reason:	Neutral Scheme, State
Legislation Code:	TSCA
Facility Function:	User

FTTS INSP:

Inspection Number:	19950329KY020 1
Region:	04
Inspection Date:	03/29/95
Inspector:	KNOPP,JOAN
Violation occurred:	No
Investigation Type:	Section 6 PCB State Conducted
Investigation Reason:	Neutral Scheme, State
Legislation Code:	TSCA
Facility Function:	User

HIST FTTS INSP: Other Standard Environmental Records

Inspection Number:	19950329KY020 1
Region:	04
Inspection Date:	Not Reported
Inspector:	KNOPP,JOAN
Violation occurred:	No
Investigation Type:	Section 6 PCB State Conducted
Investigation Reason:	Neutral Scheme, State
Legislation Code:	TSCA
Facility Function:	User

HIST FTTS INSP:

Inspection Number:	19950329KY020 1
Region:	04
Inspection Date:	Not Reported
Inspector:	KNOPP,JOAN
Violation occurred:	No

MIDWEST CARBIDE CORP, 365 CARBIDE RD, KEOKUK, IA 52632 (Continued)

Investigation Type:	Section 6 PCB State Conducted
Investigation Reason:	Neutral Scheme, State
Legislation Code:	TSCA
Facility Function:	User

MAP FINDINGS

365 CARBIDE LANE, KEOKUK, IA 365 CARBIDE LANE, KEOKUK, IA, KEOKUK, MO,		S105359395
▲ A6	Target Property 660 ft. Above Sea Level	Other Standard Environmental Records

Worksheet:

MO SPILLS: Other Standard Environmental Records

Facility ID:	0012211553MDO
Regional Office:	none
Spill Number:	0012211553MDO
Date Reported:	12/21/2000
Call Date/time:	15:53:00
Lat/Long:	40.422001 -91.420998
UTM Zone For GPS:	15
Discovery Date:	12/20/2000
Email:	False
Is This A Continuous Release To Be Monitered?:	False
Cause:	Weather Related
Contact Name:	David Bogner
Contact Phone #:	3195246510
Contact Id:	{D893E4C5-6285-4817-80F1-B32A11BC5C4E}
Organization Name:	Midwest Carbide
Organization Address1:	365 Carbide Lane
Organization Address2:	Not Reported
Organization City:	Keokuk
Organization State:	IA
Organization Zip:	Not Reported
Entity Phone #:	3195246510
Date Of Incident Search:	12/21/2000
Property Code Description:	Water/Waterway/Marina
Property Sub Category:	Unknown/Other
Cause Description:	Weather Related
Cause Sub Category:	Not Reported
Description:	Other - Unknown
Job Code:	Not Reported
Additional Info:	Spill Summary: THE NRC FAX REPORTS THAT MINERAL OIL WAS RELEASED FROM A TRANSFORMER TANK.Response Summary: THE IOWA DNR HAS RESPONDED TO THE RELEASE. THE ESP EER HAS INFORMED THE PDWP AND THE NERO OF THE RELEASE.Additional Information: THE IOWA DNR REPRESENTATIVE DAVE PERRY (515/281-8883) CALLED AT 1545 HOURS AND INFORMED THE MDNR REPRESENTATIVE THAT AT LEAST 400 GALLONS OUT OF A 1700-GALLON TRANSFORMER SPILLED INTO A STORM DRAIN WHICH LED TO SOAP CREEK. THE OIL IS BELIEVED TO BE NON-PCB MINERAL OIL. THE OIL SUBSEQUENTLY WENT UNDER THE ICE IN SOAP CREEK AND IS ANTICIPATED TO REACH THE

365 CARBIDE LANE, KEOKUK, IA, 365 CARBIDE LANE, KEOKUK, IA, KEOKUK, MO (Continued)

MISSISSIPPI RIVER.ALAN CORTVRIENT INFORMED EVERETT BAKER (NERO - PDWP) OF THIS INCIDENT AT 1605 HOURS. JOE BOLAND INFORMED DEANNA CASH (PDWP) OF THIS SITUATION AT 1610 HOURS.

Spill Num:	0012211553MDO
Agent Code:	561
Agency Receiving Copy of Incident Report:	Border States
Immediate Or Delayed:	D
User Name:	Border States

MIDWEST CARBIDE, 365 CARBIDE LANE, KEOKUK, IA 52632 MIDWEST CARBIDE, 365 CARBIDE LANE, KEOKUK, IA 52632, KEOKUK, IA,		S105272695
▲ A7	Target Property 660 ft. Above Sea Level	Other Standard Environmental Records

Worksheet:

SPILL: Other Standard Environmental Records

Facility ID:	122100-DLP-1505
Reported Date:	12/21/2000
Reported Time:	3:05:00 PM
Taken By:	Dave Perry
Spill Date:	12/21/2000
Spill Time:	10:35:00 PM
6 hr Letter:	TRUE
Continuous Release:	FALSE
Incident Location:	Not Reported
Incident Mode:	Transformer
Incident Type:	Transformer oil/PCB
Incident Medium Land:	TRUE
Incident Medium Water:	TRUE
Incident Medium Air:	FALSE
Field Office:	Not Reported
Company Name:	Not Reported
Company Address1:	Not Reported
Company Address2:	Not Reported
Company City/State/Zip:	Not Reported
Company Phone:	Not Reported
Company Fax No:	Not Reported
Company Start Date:	Not Reported
Company End Date:	Not Reported
Company Contact Name:	Not Reported
Contact Address1:	Not Reported
Company Contact Address2:	Not Reported
Company Contact City/State/Zip:	Not Reported
Company Contact Phone:	Not Reported
Company Contact Fax No:	Not Reported
Company Contact Start Date:	Not Reported
Company Contact End Date:	Not Reported
Initial Instructions:	It was the opinion of the responsible party that with water flowing from the storm sewer, any product which entered, had since flowed into the creek. However, with the ice cover on Soap Creek, there was no discernable product visible in the creek. Absor
Events:	This incident reportedly occurred at 10:00 PM on 12-20-00. The incident was reportedly discovered at 10:35 PM (12/20/00). The Department was notified at 3:05 PM on 12/21/00. Mr. Bogner with Midwest Carbide initially reported the quantity of non-PCB tr

AMSTED RAIL CO. INC. 416 CARBIDE LANE, KEOKUK, IA, 52632			S109132532
▲ 8	WNW <1/10	(45 ft. / 0.009 mi.)	State and tribal landfill / solid waste disposal Other Standard Environmental Records
	4 ft. Higher Elevation	664 ft. Above Sea Level	

Worksheet:

AIRS: Other Standard Environmental Records

Facility Number:	56-01-023
Status:	Not Reported
Closed?:	Not Reported
Region:	Not Reported
Contact Name:	Not Reported
Contact Phone:	Not Reported
Facility Contact Phone:	Not Reported
Mailing Address:	Not Reported
Mailing Address 2:	Not Reported
Mailing City,St,Zip:	Not Reported
SIC Primary:	3325
NAICS Primary:	331513

TIER 2: Other Standard Environmental Records

Report Year:	2014
Facility Id:	1511
Id:	3325
Description:	STEEL FOUNDRIES, NEC SIC
Last Modified:	Not Reported
Id:	331513
Description:	Steel Foundries (except Investment) NAICS
Last Modified:	Not Reported
State Id:	Not Reported
Fire District:	Keokuk Fire Department
Site Map:	Not Reported
Site Coord Abbreviation:	Not Reported
Date Signed:	01/14/2008
Date Modified:	02/06/2015
Dike Or Other Safeguard:	Not Reported
Mailing Address:	Not Reported
Mail City:	Not Reported
Mail State:	IA
Mail Zip:	Not Reported
Latitude:	40.42485
Longitude:	-91.42110
Notes:	Not Reported

Contact:

Report Year:	2014

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Contact Id:	83377
Date Modified:	Not Reported
First Name:	Paul
Last Name:	Sheppard
Title:	Not Reported
Email:	psheppard@griffinwheel.com
Address:	416 Carbide Lane
City:	Keokuk
Country:	US
State:	IA
Zip Code:	52632
Type1:	Owner / Operator
Last Modified:	Not Reported
Telephone:	Not Reported
Telephone Type:	Not Reported

Chemical:

Report Year:	2014
Chem Inv Record Id:	8345
CICAS:	7782-42-5
EHS Chemical:	Not Reported
Chemical Name:	GRAPHITE
Acute:	Not Reported
Ave Amount:	1871610
Ave Amount Code:	Not Reported
Max Amount:	1874940
Max Amount Code:	Not Reported
Chronic:	Not Reported
Last Modified:	Not Reported
Days On Site:	365
Fire:	Not Reported
Gas:	Not Reported
Liquid:	Not Reported
Mixture:	True
Pressure:	Not Reported
Pure:	True
Reactive:	Not Reported
Solid:	True
Trade Secret:	Not Reported

Chemical Mix:

Report Year:	2014
Record Key:	22561
Chemical Inv Recid:	8345
Mx Chemical:	Stoppers
Mx Cas:	7782-42-5
Percentage:	35
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Report Year:	2014
Record Key:	22560
Chemical Inv Recid:	8345
Mx Chemical:	Graphite molds
Mx Cas:	7782-42-5
Percentage:	100
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Report Year:	2014
Record Key:	22562
Chemical Inv Recid:	8345
Mx Chemical:	Graphite ingates
Mx Cas:	7782-42-5
Percentage:	40
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Chemical Loc:

Report Year:	2014
Record Key:	12791
Chem Inv Record Id:	8345
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2014
Record Key:	12792
Chem Inv Record Id:	8345
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2014
Record Key:	12793
Chem Inv Record Id:	8345
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Report Year:	2014
Chem Inv Record Id:	8346
CICAS:	1305-78-8
EHS Chemical:	Not Reported
Chemical Name:	CAO (LIME)
Acute:	Not Reported
Ave Amount:	281224
Ave Amount Code:	Not Reported
Max Amount:	375366
Max Amount Code:	Not Reported
Chronic:	Not Reported
Last Modified:	Not Reported
Days On Site:	365
Fire:	Not Reported
Gas:	Not Reported
Liquid:	Not Reported
Mixture:	True
Pressure:	Not Reported
Pure:	True
Reactive:	Not Reported
Solid:	True
Trade Secret:	Not Reported

Chemical Mix:

Report Year:	2014
Record Key:	22542
Chemical Inv Recid:	8346
Mx Chemical:	Lime
Mx Cas:	1305-78-8
Percentage:	93.5
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Report Year:	2014
Record Key:	22541
Chemical Inv Recid:	8346
Mx Chemical:	Lime
Mx Cas:	1305-78-8
Percentage:	93.5
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Report Year:	2014
Record Key:	22543
Chemical Inv Recid:	8346
Mx Chemical:	Furnace Brick
Mx Cas:	1305-78-8
Percentage:	85

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported
Report Year:	2014
Record Key:	22544
Chemical Inv Recid:	8346
Mx Chemical:	Dola B
Mx Cas:	1305-78-8
Percentage:	18
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Chemical Loc:

Report Year:	2014
Record Key:	12794
Chem Inv Record Id:	8346
Type Code:	Silo
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported
Report Year:	2014
Record Key:	12795
Chem Inv Record Id:	8346
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported
Report Year:	2014
Record Key:	12796
Chem Inv Record Id:	8346
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported
Report Year:	2014
Record Key:	12797
Chem Inv Record Id:	8346
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2014
Chem Inv Record Id:	8347
CICAS:	1309-48-4
EHS Chemical:	Not Reported
Chemical Name:	MAGNESIUM OXIDE
Acute:	Not Reported
Ave Amount:	58017
Ave Amount Code:	Not Reported
Max Amount:	98860
Max Amount Code:	Not Reported
Chronic:	Not Reported
Last Modified:	Not Reported
Days On Site:	365
Fire:	True
Gas:	Not Reported
Liquid:	Not Reported
Mixture:	True
Pressure:	Not Reported
Pure:	Not Reported
Reactive:	Not Reported
Solid:	True
Trade Secret:	Not Reported

Chemical Mix:

Report Year:	2014
Record Key:	22609
Chemical Inv Recid:	8347
Mx Chemical:	Furnace brick
Mx Cas:	1309-48-4
Percentage:	85
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Report Year:	2014
Record Key:	22608
Chemical Inv Recid:	8347
Mx Chemical:	Lime
Mx Cas:	1309-48-4
Percentage:	1.5
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Report Year:	2014
Record Key:	22607
Chemical Inv Recid:	8347

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Mx Chemical:	Lime
Mx Cas:	1309-48-4
Percentage:	1.5
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported
Report Year:	2014
Record Key:	22610
Chemical Inv Recid:	8347
Mx Chemical:	Gundol G
Mx Cas:	1309-48-4
Percentage:	40
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported
Report Year:	2014
Record Key:	22611
Chemical Inv Recid:	8347
Mx Chemical:	SSK-2000
Mx Cas:	1309-48-4
Percentage:	80
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported
Report Year:	2014
Record Key:	22612
Chemical Inv Recid:	8347
Mx Chemical:	Dola B
Mx Cas:	1309-48-4
Percentage:	80
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Chemical Loc:

Report Year:	2014
Record Key:	12798
Chem Inv Record Id:	8347
Type Code:	Silo
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported
Report Year:	2014
Record Key:	12799
Chem Inv Record Id:	8347

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2014
Record Key:	12800
Chem Inv Record Id:	8347
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2014
Record Key:	12801
Chem Inv Record Id:	8347
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2014
Record Key:	12802
Chem Inv Record Id:	8347
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2014
Record Key:	12803
Chem Inv Record Id:	8347
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2014
Chem Inv Record Id:	8348
CICAS:	7439-89-6
EHS Chemical:	Not Reported
Chemical Name:	IRON

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Acute:	Not Reported
Ave Amount:	11482
Ave Amount Code:	Not Reported
Max Amount:	15254
Max Amount Code:	Not Reported
Chronic:	Not Reported
Last Modified:	Not Reported
Days On Site:	365
Fire:	Not Reported
Gas:	Not Reported
Liquid:	Not Reported
Mixture:	True
Pressure:	Not Reported
Pure:	Not Reported
Reactive:	Not Reported
Solid:	True
Trade Secret:	Not Reported

Chemical Mix:

Report Year:	2014
Record Key:	22606
Chemical Inv Recid:	8348
Mx Chemical:	Steel Shot
Mx Cas:	7439-89-6
Percentage:	0.9599999999999
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Chemical Loc:

Report Year:	2014
Record Key:	12804
Chem Inv Record Id:	8348
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2014
Record Key:	51436
Chem Inv Record Id:	8348
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Report Year:	2014
Chem Inv Record Id:	8349
CICAS:	108-95-2
EHS Chemical:	True
Chemical Name:	RESIN (PHENOL)
Acute:	Not Reported
Ave Amount:	857
Ave Amount Code:	Not Reported
Max Amount:	1142
Max Amount Code:	Not Reported
Chronic:	Not Reported
Last Modified:	Not Reported
Days On Site:	365
Fire:	Not Reported
Gas:	Not Reported
Liquid:	Not Reported
Mixture:	True
Pressure:	Not Reported
Pure:	Not Reported
Reactive:	True
Solid:	True
Trade Secret:	Not Reported

Chemical Mix:

Report Year:	2014
Record Key:	22617
Chemical Inv Recid:	8349
Mx Chemical:	Resin Plastiflake
Mx Cas:	108-95-2
Percentage:	8
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Chemical Loc:

Report Year:	2014
Record Key:	12805
Chem Inv Record Id:	8349
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2014
Chem Inv Record Id:	8351
CICAS:	7440-44-0
EHS Chemical:	Not Reported

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Chemical Name:	CARBON
Acute:	Not Reported
Ave Amount:	106734
Ave Amount Code:	Not Reported
Max Amount:	120849
Max Amount Code:	Not Reported
Chronic:	Not Reported
Last Modified:	Not Reported
Days On Site:	365
Fire:	Not Reported
Gas:	Not Reported
Liquid:	Not Reported
Mixture:	True
Pressure:	Not Reported
Pure:	True
Reactive:	Not Reported
Solid:	True
Trade Secret:	Not Reported

Chemical Mix:

Report Year:	2014
Record Key:	29412
Chemical Inv Recid:	8351
Mx Chemical:	ELECTRODES
Mx Cas:	7440440
Percentage:	100
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Report Year:	2014
Record Key:	29411
Chemical Inv Recid:	8351
Mx Chemical:	STEEL SHOT
Mx Cas:	7440440
Percentage:	12
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Report Year:	2014
Record Key:	29413
Chemical Inv Recid:	8351
Mx Chemical:	FERO CHROME
Mx Cas:	7440440
Percentage:	7.0000000000000
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Report Year:	2014

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Record Key:	29410
Chemical Inv Recid:	8351
Mx Chemical:	SILOMANGANESE
Mx Cas:	7440440
Percentage:	2
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported
Report Year:	2014
Record Key:	29409
Chemical Inv Recid:	8351
Mx Chemical:	CARBON RAISER
Mx Cas:	7440440
Percentage:	98
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported
Report Year:	2014
Record Key:	29408
Chemical Inv Recid:	8351
Mx Chemical:	CARBON WIRE
Mx Cas:	7440440
Percentage:	65
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Chemical Loc:

Report Year:	2014
Record Key:	12808
Chem Inv Record Id:	8351
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported
Report Year:	2014
Record Key:	12809
Chem Inv Record Id:	8351
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported
Report Year:	2014

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Record Key:	12810
Chem Inv Record Id:	8351
Type Code:	Box
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2014
Record Key:	12811
Chem Inv Record Id:	8351
Type Code:	Bag
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2014
Record Key:	12812
Chem Inv Record Id:	8351
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2014
Record Key:	42995
Chem Inv Record Id:	8351
Type Code:	Bag
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2014
Chem Inv Record Id:	8352
CICAS:	7439-96-5
EHS Chemical:	Not Reported
Chemical Name:	MANGANESE
Acute:	Not Reported
Ave Amount:	44157
Ave Amount Code:	Not Reported
Max Amount:	76628
Max Amount Code:	Not Reported
Chronic:	Not Reported
Last Modified:	Not Reported

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Days On Site:	365
Fire:	Not Reported
Gas:	Not Reported
Liquid:	Not Reported
Mixture:	True
Pressure:	Not Reported
Pure:	Not Reported
Reactive:	True
Solid:	True
Trade Secret:	Not Reported

Chemical Mix:

Report Year:	2014
Record Key:	22613
Chemical Inv Recid:	8352
Mx Chemical:	Silomanganese
Mx Cas:	7439-96-5
Percentage:	65
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Report Year:	2014
Record Key:	22614
Chemical Inv Recid:	8352
Mx Chemical:	Steel Shot
Mx Cas:	7439-96-5
Percentage:	1.3
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Chemical Loc:

Report Year:	2014
Record Key:	12813
Chem Inv Record Id:	8352
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2014
Record Key:	12814
Chem Inv Record Id:	8352
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Date Last Modified:	Not Reported
Amount:	Not Reported
Report Year:	2014
Record Key:	63997
Chem Inv Record Id:	8352
Type Code:	Other
Pressure Code:	Ambient Pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported
Report Year:	2014
Chem Inv Record Id:	8353
CICAS:	7440-21-3
EHS Chemical:	Not Reported
Chemical Name:	SILICON
Acute:	Not Reported
Ave Amount:	47112
Ave Amount Code:	Not Reported
Max Amount:	63315
Max Amount Code:	Not Reported
Chronic:	Not Reported
Last Modified:	Not Reported
Days On Site:	365
Fire:	Not Reported
Gas:	Not Reported
Liquid:	Not Reported
Mixture:	True
Pressure:	Not Reported
Pure:	Not Reported
Reactive:	Not Reported
Solid:	True
Trade Secret:	Not Reported

Chemical Mix:

Report Year:	2014
Record Key:	22624
Chemical Inv Recid:	8353
Mx Chemical:	SILOCOMANGANESE
Mx Cas:	7440213
Percentage:	16
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported
Report Year:	2014
Record Key:	22623
Chemical Inv Recid:	8353
Mx Chemical:	FERRROSILICON

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Mx Cas:	7440213
Percentage:	65
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported
Report Year:	2014
Record Key:	22625
Chemical Inv Recid:	8353
Mx Chemical:	STEEL SHOT
Mx Cas:	7440213
Percentage:	1.2
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported
Report Year:	2014
Record Key:	22626
Chemical Inv Recid:	8353
Mx Chemical:	FERO CHROME
Mx Cas:	7440213
Percentage:	0.01
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Chemical Loc:

Report Year:	2014
Record Key:	12815
Chem Inv Record Id:	8353
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported
Report Year:	2014
Record Key:	12816
Chem Inv Record Id:	8353
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported
Report Year:	2014
Record Key:	12817
Chem Inv Record Id:	8353
Type Code:	Other

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2014
Record Key:	42996
Chem Inv Record Id:	8353
Type Code:	Bag
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2014
Chem Inv Record Id:	8354
CICAS:	N/A
EHS Chemical:	Not Reported
Chemical Name:	RICE HULLS
Acute:	Not Reported
Ave Amount:	42855
Ave Amount Code:	Not Reported
Max Amount:	57140
Max Amount Code:	Not Reported
Chronic:	Not Reported
Last Modified:	Not Reported
Days On Site:	365
Fire:	True
Gas:	Not Reported
Liquid:	Not Reported
Mixture:	True
Pressure:	Not Reported
Pure:	True
Reactive:	Not Reported
Solid:	True
Trade Secret:	Not Reported

Chemical Mix:

Report Year:	2014
Record Key:	22618
Chemical Inv Recid:	8354
Mx Chemical:	Rice Hulls
Mx Cas:	Not Reported
Percentage:	100
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Chemical Loc:

Report Year:	2014
Record Key:	12818
Chem Inv Record Id:	8354
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2014
Chem Inv Record Id:	8355
CICAS:	60676-86-0
EHS Chemical:	Not Reported
Chemical Name:	SILICA
Acute:	Not Reported
Ave Amount:	465876
Ave Amount Code:	Not Reported
Max Amount:	697083
Max Amount Code:	Not Reported
Chronic:	Not Reported
Last Modified:	Not Reported
Days On Site:	365
Fire:	Not Reported
Gas:	Not Reported
Liquid:	Not Reported
Mixture:	True
Pressure:	Not Reported
Pure:	Not Reported
Reactive:	Not Reported
Solid:	True
Trade Secret:	Not Reported

Chemical Mix:

Report Year:	2014
Record Key:	22620
Chemical Inv Recid:	8355
Mx Chemical:	Magnamix
Mx Cas:	60676-86-0
Percentage:	10
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Report Year:	2014
Record Key:	22619
Chemical Inv Recid:	8355
Mx Chemical:	GP-31 Silica

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Mx Cas:	60676-86-0
Percentage:	80
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported
Report Year:	2014
Record Key:	22621
Chemical Inv Recid:	8355
Mx Chemical:	Silica Sand
Mx Cas:	60676-86-0
Percentage:	98
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported
Report Year:	2014
Record Key:	22622
Chemical Inv Recid:	8355
Mx Chemical:	Silica sand
Mx Cas:	60676-86-0
Percentage:	98
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Chemical Loc:

Report Year:	2014
Record Key:	12819
Chem Inv Record Id:	8355
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported
Report Year:	2014
Record Key:	12820
Chem Inv Record Id:	8355
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported
Report Year:	2014
Record Key:	12821
Chem Inv Record Id:	8355
Type Code:	Silo

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2014
Record Key:	27505
Chem Inv Record Id:	8355
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2014
Chem Inv Record Id:	8356
CICAS:	74-98-6
EHS Chemical:	Not Reported
Chemical Name:	PROPANE
Acute:	Not Reported
Ave Amount:	10000
Ave Amount Code:	Not Reported
Max Amount:	33000
Max Amount Code:	Not Reported
Chronic:	Not Reported
Last Modified:	Not Reported
Days On Site:	365
Fire:	True
Gas:	True
Liquid:	True
Mixture:	True
Pressure:	Not Reported
Pure:	True
Reactive:	True
Solid:	Not Reported
Trade Secret:	Not Reported

Chemical Mix:

Report Year:	2014
Record Key:	22616
Chemical Inv Recid:	8356
Mx Chemical:	Propane
Mx Cas:	74-98-6
Percentage:	100
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Chemical Loc:

Report Year:	2014
Record Key:	12822
Chem Inv Record Id:	8356
Type Code:	Above ground tank
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2014
Chem Inv Record Id:	8357
CICAS:	7782-44-7
EHS Chemical:	Not Reported
Chemical Name:	OXYGEN
Acute:	Not Reported
Ave Amount:	65587
Ave Amount Code:	Not Reported
Max Amount:	121174
Max Amount Code:	Not Reported
Chronic:	Not Reported
Last Modified:	Not Reported
Days On Site:	365
Fire:	True
Gas:	True
Liquid:	True
Mixture:	True
Pressure:	True
Pure:	True
Reactive:	True
Solid:	Not Reported
Trade Secret:	Not Reported

Chemical Mix:

Report Year:	2014
Record Key:	29414
Chemical Inv Recid:	8357
Mx Chemical:	Oxygen
Mx Cas:	7782-44-7
Percentage:	100
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Chemical Loc:

Report Year:	2014
Record Key:	12823

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Chem Inv Record Id:	8357
Type Code:	Above ground tank
Pressure Code:	Greater than ambient pressure
Temperature Code:	Less than ambient temperature but not cryogenic
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2014
Chem Inv Record Id:	8358
CICAS:	1344-28-1
EHS Chemical:	Not Reported
Chemical Name:	ALUMINUM OXIDE
Acute:	Not Reported
Ave Amount:	17563
Ave Amount Code:	Not Reported
Max Amount:	26916
Max Amount Code:	Not Reported
Chronic:	Not Reported
Last Modified:	Not Reported
Days On Site:	365
Fire:	Not Reported
Gas:	Not Reported
Liquid:	Not Reported
Mixture:	True
Pressure:	Not Reported
Pure:	Not Reported
Reactive:	True
Solid:	True
Trade Secret:	Not Reported

Chemical Mix:

Report Year:	2014
Record Key:	22533
Chemical Inv Recid:	8358
Mx Chemical:	Magnamix
Mx Cas:	1344-28-1
Percentage:	20
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Report Year:	2014
Record Key:	22532
Chemical Inv Recid:	8358
Mx Chemical:	Ladle Brick
Mx Cas:	1344-28-1
Percentage:	20
Wt Vol:	Not Reported
Mx Ehs:	Not Reported

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Last Modified:	Not Reported
Report Year:	2014
Record Key:	22534
Chemical Inv Recid:	8358
Mx Chemical:	Narphos 85 Dipping
Mx Cas:	1344-28-1
Percentage:	80
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported
Report Year:	2014
Record Key:	22535
Chemical Inv Recid:	8358
Mx Chemical:	Hi Al Ram
Mx Cas:	1344-28-1
Percentage:	80
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Chemical Loc:

Report Year:	2014
Record Key:	12824
Chem Inv Record Id:	8358
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported
Report Year:	2014
Record Key:	12825
Chem Inv Record Id:	8358
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported
Report Year:	2014
Record Key:	12826
Chem Inv Record Id:	8358
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Amount:	Not Reported
Report Year:	2014
Record Key:	12827
Chem Inv Record Id:	8358
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported
Report Year:	2014
Chem Inv Record Id:	8359
CICAS:	N/A
EHS Chemical:	Not Reported
Chemical Name:	GLASS
Acute:	Not Reported
Ave Amount:	5000
Ave Amount Code:	Not Reported
Max Amount:	10000
Max Amount Code:	Not Reported
Chronic:	Not Reported
Last Modified:	Not Reported
Days On Site:	365
Fire:	Not Reported
Gas:	Not Reported
Liquid:	Not Reported
Mixture:	True
Pressure:	Not Reported
Pure:	Not Reported
Reactive:	Not Reported
Solid:	True
Trade Secret:	Not Reported

Chemical Mix:

Report Year:	2014
Record Key:	22559
Chemical Inv Recid:	8359
Mx Chemical:	Ladle Brick
Mx Cas:	Not Reported
Percentage:	10
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Chemical Loc:

Report Year:	2014
Record Key:	12828
Chem Inv Record Id:	8359

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2014
Chem Inv Record Id:	8360
CICAS:	1302-93-8
EHS Chemical:	Not Reported
Chemical Name:	ALUMINUM SILICATE
Acute:	Not Reported
Ave Amount:	87227
Ave Amount Code:	Not Reported
Max Amount:	125073
Max Amount Code:	Not Reported
Chronic:	Not Reported
Last Modified:	Not Reported
Days On Site:	365
Fire:	Not Reported
Gas:	Not Reported
Liquid:	True
Mixture:	True
Pressure:	Not Reported
Pure:	Not Reported
Reactive:	True
Solid:	True
Trade Secret:	Not Reported

Chemical Mix:

Report Year:	2014
Record Key:	22538
Chemical Inv Recid:	8360
Mx Chemical:	Magnamix
Mx Cas:	1302-93-8
Percentage:	55
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Report Year:	2014
Record Key:	22537
Chemical Inv Recid:	8360
Mx Chemical:	Roof Brick
Mx Cas:	1302-93-8
Percentage:	80
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Report Year:	2014
Record Key:	22536
Chemical Inv Recid:	8360
Mx Chemical:	Ladle Brick
Mx Cas:	1302-93-8
Percentage:	60
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Report Year:	2014
Record Key:	22539
Chemical Inv Recid:	8360
Mx Chemical:	Narphos Dipping
Mx Cas:	1302-93-8
Percentage:	7.5
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Report Year:	2014
Record Key:	22540
Chemical Inv Recid:	8360
Mx Chemical:	High AL Ram
Mx Cas:	1302-93-8
Percentage:	7.5
Wt Vol:	Not Reported
Mx Ehs:	Not Reported
Last Modified:	Not Reported

Chemical Loc:

Report Year:	2014
Record Key:	12829
Chem Inv Record Id:	8360
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2014
Record Key:	12830
Chem Inv Record Id:	8360
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Report Year:	2014
Record Key:	12831
Chem Inv Record Id:	8360
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2014
Record Key:	12832
Chem Inv Record Id:	8360
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2014
Record Key:	12833
Chem Inv Record Id:	8360
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Not Reported
Date Last Modified:	Not Reported
Amount:	Not Reported

Report Year:	2013
Facility Id:	1511
State Id:	Not Reported
Fire District:	Keokuk Fire Department
Site Map:	Not Reported
Site Coord Abbreviation:	Not Reported
Date Signed:	01/14/2008
Date Modified:	02/21/2014
Dike Or Other Safeguard:	Not Reported
Mailing Address:	Not Reported
Mail City:	Not Reported
Mail State:	IA
Mail Zip:	Not Reported
Latitude:	40.42485
Longitude:	-91.42110
Notes:	Not Reported

Report Year:	2012
Facility Id:	FAIDSIT2A00001511
State Id:	Not Reported
Fire District:	Keokuk Fire Department

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Site Map:	True
Site Coord Abbreviation:	False
Date Signed:	02/05/2013
Date Modified:	02/04/2013
Dike Or Other Safeguard:	False
Mailing Address:	Not Reported
Mail City:	Not Reported
Mail State:	Not Reported
Mail Zip:	Not Reported
Latitude:	40.42485
Longitude:	-91.42110
Notes:	Not Reported
Report Year:	2012
Facility Id:	FAIDSIT2A00001511
State Id:	Not Reported
Fire District:	Keokuk Fire Department
Site Map:	True
Site Coord Abbreviation:	False
Date Signed:	01/09/2007
Date Modified:	02/10/2012
Dike Or Other Safeguard:	False
Mailing Address:	Not Reported
Mail City:	Not Reported
Mail State:	Not Reported
Mail Zip:	Not Reported
Latitude:	40.42484
Longitude:	-91.42110
Notes:	Not Reported
Report Year:	2010
Facility Id:	FAIDSIT2A00001511
State Id:	Not Reported
Fire District:	Keokuk Fire Department
Site Map:	True
Site Coord Abbreviation:	False
Date Signed:	2011-02-22T13:14:13
Date Modified:	3/30/2011
Dike Or Other Safeguard:	False
Mailing Address:	Not Reported
Mail City:	Not Reported
Mail State:	Not Reported
Mail Zip:	Not Reported
Latitude:	40.424849999999999
Longitude:	-91.421102000000005
Notes:	Not Reported
Report Year:	2009
Facility Id:	FAIDSIT2A00001511
State Id:	IA
Fire District:	Keokuk Fire Department

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Site Map:	True
Site Coord Abbreviation:	False
Date Signed:	2010-02-10T15:03:24
Date Modified:	2010-02-10T15:02:48
Dike Or Other Safeguard:	False
Mailing Address:	Not Reported
Mail City:	Not Reported
Mail State:	Not Reported
Mail Zip:	Not Reported
Latitude:	40.424849999999999
Longitude:	-91.421102000000005
Notes:	Not Reported

SWF/LF: State and tribal landfill / solid waste disposal

Facility ID:	56-SDP-15-89
Facility Type:	Foundry Sand Landfill
Permit Stage:	Operation Permit
Expiration Date:	5/6/2013
Project Officer:	Leat
Affiliation:	Design Engineer
Phone:	Work: (515) 491-4880Fax: (515) 967-7182
Contact Name:	Stuart C Schmitz
Contact Title:	President
Contact eMail:	stu@schmitzenvironmental.com
Contact Company:	Schmitz Environmental, LLC
Contact Address:	11465 NE Hubbell Road
Contact Address2:	Not Reported
Contact City,St,Zip:	Maxwell, IA 50161
Field Office:	6
Loc Supplement:	Not Reported
Latitude:	40.423699
Longitude:	-91.417599

Facility ID:	56-SDP-15-89
Facility Type:	Foundry Sand Landfill
Permit Stage:	Operation Permit
Expiration Date:	5/6/2013
Project Officer:	Leat
Affiliation:	Mailing Contact,Responsible Official of Agency served,Automated Email
Phone:	Work: (319) 524-2962 ext.20712Mobile: (319) 795-0692Fax: (319) 524-8119
Contact Name:	Paul Sheppard
Contact Title:	Environmental Specialist
Contact eMail:	psheppard@griffinwheel.com
Contact Company:	Amsted Rail Company, Inc. / Griffin Wheel
Contact Address:	416 Carbide Lane
Contact Address2:	Not Reported
Contact City,St,Zip:	Keokuk, IA 52632
Field Office:	6
Loc Supplement:	Not Reported
Latitude:	40.423699

AMSTED RAIL CO. INC., 416 CARBIDE LANE, KEOKUK, IA 52632 (Continued)

Longitude:	-91.417599
Facility ID:	56-SDP-15-89
Facility Type:	Foundry Sand Landfill
Permit Stage:	Operation Permit
Expiration Date:	5/6/2013
Project Officer:	Leat
Affiliation:	Primary Contact
Phone:	Work: (641) 836-2323Fax: (641) 836-2377
Contact Name:	Kim Myers
Contact Title:	Not Reported
Contact eMail:	kmyers@griffinwheel.com
Contact Company:	Amsted Rail Co Inc
Contact Address:	3900 Bixby Rd
Contact Address2:	Not Reported
Contact City,St,Zip:	Groveport, OH 43125
Field Office:	6
Loc Supplement:	Not Reported
Latitude:	40.423699
Longitude:	-91.417599
Facility ID:	56-SDP-15-89
Facility Type:	Foundry Sand Landfill
Permit Stage:	Operation Permit
Expiration Date:	5/6/2013
Project Officer:	Leat
Affiliation:	Report Form Contact
Phone:	Work: (319) 524-2962Fax: (319) 524-8119
Contact Name:	Brad Hickerson
Contact Title:	Not Reported
Contact eMail:	bhickerson@griffinwheel.com
Contact Company:	Not Reported
Contact Address:	416 Carbide Lane
Contact Address2:	Not Reported
Contact City,St,Zip:	Keokuk, IA 52632
Field Office:	6
Loc Supplement:	Not Reported
Latitude:	40.423699
Longitude:	-91.417599

ELKEM METALS, KEOKUK 356 CARBIDE LANE, KEOKUK, IA, 52632			S111085273
▼ A9	NNE <1/10	(98 ft. / 0.019 mi.)	Other Standard Environmental Records
	1 ft. Lower Elevation	659 ft. Above Sea Level	

Worksheet:

ALLSITES: Other Standard Environmental Records

Site Id Number:	1440
Project Manager:	Greg Fuhrmann
Ownership Type:	Private
Status:	Closed
Origin:	Environmental Assessment
Program:	CERCLA Preremedial
Site Type:	Commercial

KEOKUK FERRO-SIL, INC. INDUSTRIAL WASTE LANDFILL Not Reported, , IA,			S105890935
▼ 10	W <1/10	(174 ft. / 0.033 mi.)	State and tribal landfill / solid waste disposal
	18 ft. Lower Elevation	642 ft. Above Sea Level	

Worksheet:

SWF/LF: State and tribal landfill / solid waste disposal

Facility ID:	56-SDP-17-91
Facility Type:	Industrial Landfill
Permit Stage:	Closure
Expiration Date:	4/4/2037
Project Officer:	Leat
Affiliation:	Design Engineer
Phone:	Work: (319) 524-2883
Contact Name:	Gerald Moughler
Contact Title:	Not Reported
Contact eMail:	Not Reported
Contact Company:	Shoemaker & Haaland Professional Engineers
Contact Address:	2021 Main Street
Contact Address2:	Not Reported
Contact City,St,Zip:	Keokuk, IA 52632
Field Office:	6
Loc Supplement:	NE1/4 of NE1/4 of NW1/4 Section 22 T65N, R5W
Latitude:	40.420789
Longitude:	-91.428849

Facility ID:	56-SDP-17-91
Facility Type:	Industrial Landfill
Permit Stage:	Closure
Expiration Date:	4/4/2037
Project Officer:	Leat
Affiliation:	Primary Contact
Phone:	Work: (319) 484-2618
Contact Name:	Carol Wilson
Contact Title:	Not Reported
Contact eMail:	Not Reported
Contact Company:	CHEM-ECO Environmental
Contact Address:	PO Box 367
Contact Address2:	Not Reported
Contact City,St,Zip:	Anamosa, IA 52205
Field Office:	6
Loc Supplement:	NE1/4 of NE1/4 of NW1/4 Section 22 T65N, R5W
Latitude:	40.420789
Longitude:	-91.428849

Facility ID:	56-SDP-17-91
Facility Type:	Industrial Landfill
Permit Stage:	Closure
Expiration Date:	4/4/2037

KEOKUK FERRO-SIL, INC. INDUSTRIAL WASTE LANDFILL, Not Reported, , IA (Continued)

Project Officer:	Leat
Affiliation:	Responsible Official of Agency served,Automated Email
Phone:	Work: (203) 328-4900
Contact Name:	Stephen Cramer
Contact Title:	Not Reported
Contact eMail:	Not Reported
Contact Company:	Twin Rivers Holding Company, c/o Glencore, Ltd.
Contact Address:	301 Tresser Blvd.
Contact Address2:	Not Reported
Contact City,St,Zip:	Stamford, CT 06901
Field Office:	6
Loc Supplement:	NE1/4 of NE1/4 of NW1/4 Section 22 T65N, R5W
Latitude:	40.420789
Longitude:	-91.428849

MAP FINDINGS

PRYOR TRUCKING INC 1304 S NAVAJO DR, KEOKUK, IA, 526320000			U003170035
▼ 11	E <1/10	(412 ft. / 0.078 mi.)	State and tribal leaking storage tank lists State and tribal registered storage tank lists
	30 ft. Lower Elevation	630 ft. Above Sea Level	

Worksheet:

UST: State and tribal registered storage tank lists

Facility Id:	5629
Loc Id:	5629
Registration:	198605275
Owner Type:	6
Financial Code:	Not Reported
Insurer's Name:	Not Reported
Policy Number:	Not Reported
Policy Start Date:	Not Reported
Policy End Date:	Not Reported
Registration Sign Date:	04/21/1986
Created By:	migration
Created Date:	01/08/2007
Changed By:	migration
Last Changed:	01/08/2007
Latitude:	40.42297
Longitude:	-91.41509

Tank Info:

Tank Num:	15198
In Use:	False
Tank Type:	1
Tank Brand Id:	Not Reported
Inert Material Id:	Not Reported
Filled In Place:	Not Reported
Material Construction:	Double Wall Steel
Emergency Power Gen:	Not Reported

LUST: State and tribal leaking storage tank lists

Facility ID:	2473
Spill Number:	Not Reported
Occur Date:	Not Reported
Discover Date:	09/06/1991
Discover Time:	UNK
Record Date:	11/15/1991
Leak Number:	8LTR12
Loc ID:	64811
Ust ID:	5629
Latitude:	40.42297
Longitude:	-91.41509
Start Date:	11/15/1991

PRYOR TRUCKING INC, 1304 S NAVAJO DR, KEOKUK, IA 526320000 (Continued)

Spill Date:	Not Reported
Date Occurred Time:	UNK
Lead ID:	5
Coordinator ID:	11
Staff ID:	Not Reported
Discover Method ID:	5
Leak Status:	Unknown
Tanks Removed:	Not Reported
Created Date:	01/08/2007
Created By:	migration
Last Changed:	01/08/2007
Changed By:	migration

Lust Status:

ID:	2474
Site Leak Number:	8LTR12
Discovered During:	Other
Tanks Removed:	00
Leak Cause:	UNK
Gas:	Not Reported
Diesel:	Yes
Oil:	Not Reported
Kerosene:	Not Reported
Released Fuel Oil:	Not Reported
Released Hydraulic Oil:	Not Reported
Released Other Petroleum:	Not Reported
Released Unknown:	Not Reported
Released Non_Petroleum Chemical:	Not Reported
Gallons Released:	Not Reported
Leak Status:	Unknown
Loc Soil:	Not Reported
Loc Ground Water:	Yes
Loc Surface Water:	Not Reported
Loc Water Supply:	Not Reported
Res Public Water Supply:	Not Reported
Resources Water Well:	Not Reported
Res Actual Drinking WW:	Not Reported
Res Non-Drink WW:	Not Reported
Res Soil:	Not Reported
Res Ground Water:	Not Reported
Res Surface Water:	Not Reported
Res Toxic Vapor:	Not Reported
Res Explosive Vapor:	Not Reported
Res Other:	Not Reported
Res Impacted Soil:	Not Reported
Res Impacted Ground Water:	Not Reported
Res Impacted Water Well:	Not Reported
Res Impacted Pub Water Supply:	Not Reported
Res Impacted Surface Water:	Not Reported
Res Impacted Toxic Vapor:	Not Reported

PRYOR TRUCKING INC, 1304 S NAVAJO DR, KEOKUK, IA 526320000 (Continued)

Res Impacted Explosive Vapor:	Not Reported
Res Impacted Other:	Not Reported
Res Impacted Drinking WW:	Not Reported
Res Impacted Non-Drink WW:	Not Reported
Res Impacted Potential Non Drink WW:	Not Reported
Officials Onsite Health:	Not Reported
Officials Onsite Fire:	Not Reported
Officials Onsite Law:	Not Reported
Officials Onsite Civil:	Not Reported
Officials Onsite None:	Not Reported
Officials Onsite Unknown:	Yes
Officials Onsite Other:	Not Reported
AST:	Not Reported
UST/LUST Other:	Not Reported
Delete:	False
Status Memo:	Not Reported

Lust Cause:

Release Cause:	Unknown

Lust Misc:

Misc Due Date:	Not Reported
Misc Rec Date:	Not Reported
Misc Other:	Not Reported
Misc Title:	Not Reported

IA_LUST_REM: Not Reported

Lust Remediation:

Heat Treatment:	False
Land Application:	False
On Site:	False
Achieved Over-Excavation:	False
Soil Venting Passive:	False
Soil Venting Active:	False
BioRemediation Passive:	False
BioRemediation Active:	False
In Situ GW Treatment - Air Sparging:	False
Ground Water:	False
Fresh Water:	False
IGT - pH Adjustment:	False
Nutrient:	False
Oxygen:	False
Biological:	False
Permit Date:	Not Reported
Other:	False
Surface Treatment - Carbon Absorption:	False
Biological:	False

PRYOR TRUCKING INC, 1304 S NAVAJO DR, KEOKUK, IA 526320000 (Continued)

ST Other:	False
TDT Sanitary Sewer:	False
TDT Storm Sewer:	False
Stream:	False
TDT Other:	False
Reduced Risk Plugged Well:	False
RR Replace:	False
RR Relocate:	False
RR Other:	False
Delete:	False
Rem Memo:	Not Reported

Lust Administration:

ID:	2474
Owner Identified:	Yes
Responsible Party Found:	Yes
RP Date:	11/15/1991
Owner Broke:	No
ER Date:	Not Reported
Cost Recovery Start Dt:	Not Reported
CR Notice of Intent Dt:	Not Reported
CR Appeal of NOI Dt:	Not Reported
CR Final Decision Dt:	Not Reported
CR EP Comm Lien Approval Dt:	Not Reported
CR Lien:	Not Reported
CR Ten Yr Renewal Dt:	Not Reported
CR Lien Named:	False
CR Remediation:	Not Reported
Delete:	False
CR Amnt Received:	Not Reported
CR End Date:	Not Reported
Memo:	Not Reported

Lust Track:

ID:	2474
Site Assesment Start Date:	04/14/1992
Free Product Recvry End Date:	Not Reported
FP Letter Sent Date:	Not Reported
FP Report Frequency:	Not Reported
Assesment Report Due:	Not Reported
Assesment Report Received:	Not Reported
Assesment Report Approved:	Not Reported
Achieved Over-Excavation:	No
Release Not Verified Date:	Not Reported
Ref to Contaminated Site Section:	Not Reported
Cleanup Start Date:	1994-02-23
Cleanup Complete Date:	1996-01-16
Cleanup Report Due Date:	1995-01-29
Cleanup Report Received Date:	1995-02-23

PRYOR TRUCKING INC, 1304 S NAVAJO DR, KEOKUK, IA 526320000 (Continued)

Cleanup Report Approved Date:	1996-01-16
Check Report Due Date:	Not Reported
Check Report Received Date:	Not Reported
Check Report Rejected Date:	Not Reported
Check Report Approved Date:	Not Reported
Date Classified:	1996-01-16
Risk Classification -NFA:	True
Class - Low Risk:	False
Class - High Risk:	False
Lust Current:	No Action Required
Tier 1 Consultant Recommends:	Not Reported
T1 Actual GW Ingestion:	False
T1 Poten GW Ingestion from Protected GW:	False
T1 Poten GW Ingestion from Protected GW:	False
T1 GW Vapor to Enclosed Space:	False
T1 GW to Plastic Water Line:	False
T1 Surface Water:	False
T1 Soil Leaching to GW:	False
T1 Soil Vapor to Enclosed Space:	False
T1 Soil to Plastic Line:	False
Tier 2 Consultant Recommends:	Not Reported
T2 Actual GW Ingestion:	Not Reported
T2 Poten GW Ingestion from Protected GW:	Not Reported
T2 Poten GW Ingestion from Protected GW:	Not Reported
T2 GW Vapor to Enclosed Space:	Not Reported
T2 GW to Plastic Water Line:	Not Reported
T2 SW General Use:	Not Reported
T2 SW Designated Use:	Not Reported
T2 Soil Leaching to GW:	Not Reported
T2 Soil Vapor to Enclosed Space:	Not Reported
T2 Soil to Plastic Line:	Not Reported
Institutional Control Obtained:	False
NFA Certificate Sent:	Not Reported
No Action Required:	**False**
Priority Ranking:	Not Reported
Delete:	False
Track Memo:	12/18/91: 'HOLD' LETR RE SF 362 SNT. REC'D 12/20/91.04/09/92: SCR LTR SNT. REC'D 4/14/92. CNSLT DUE 5/14/92. SCR DUE 10/14/92.10/08/93: REC'D SCR.02/23/94: NFA LTR SENT.06/24/94: REC'D LTR: SOIL CONT FOUND @ UST REMOVAL. SENT OE/SCR OPTION LTR.07/05/94: RP REC'D OPT LTR.07/07/94: DISCUSSED OPTIONS.08/02/94: CHOSE SCR.01/16/96: LOW RISK, NO MONITORING.

MAP FINDINGS

2703 CRAMER LN 2703 CRAMER LN, KEOKUK, IA, 52632			1015379238
▼ 12	SSE 1/10 - 1/3	(977 ft. / 0.185 mi.)	Historical Gas Stations
	18 ft. Lower Elevation	642 ft. Above Sea Level	

Worksheet:

EDR Historical Auto Stations: Historical Gas Stations

Name:	NEWBERRY AUTO SALVAGEWRECKER
Year:	2010
Address:	2703 CRAMER LN

CASEY'S GENERAL STORE #1346 3531 MAIN ST, KEOKUK, IA, 526320000		U001730628	
▲ 13	ENE 1/10 - 1/3	(1720 ft. / 0.326 mi.)	State and tribal leaking storage tank lists State and tribal registered storage tank lists
	3 ft. Higher Elevation	663 ft. Above Sea Level	Other Standard Environmental Records

Worksheet:

UST: State and tribal registered storage tank lists

Facility Id:	11757
Loc Id:	11757
Registration:	198911985
Owner Type:	6
Financial Code:	01
Insurer's Name:	CASEY S MARKETING CO
Policy Number:	Not Reported
Policy Start Date:	08/25/2008
Policy End Date:	08/25/2009
Registration Sign Date:	01/04/1988
Created By:	migration
Created Date:	01/08/2007
Changed By:	teresa.barrie@dnr.iowa.gov
Last Changed:	10/12/2009
Latitude:	40.42209
Longitude:	-91.40972

Tank Info:

Tank Num:	33658
In Use:	True
Tank Type:	1
Tank Brand Id:	Not Reported
Inert Material Id:	Not Reported
Filled In Place:	False
Material Construction:	Double Wall FRP
Emergency Power Gen:	False

Tank Num:	33659
In Use:	True
Tank Type:	1
Tank Brand Id:	Not Reported
Inert Material Id:	Not Reported
Filled In Place:	Not Reported
Material Construction:	Double Wall FRP
Emergency Power Gen:	Not Reported

IA Financial Assurance 1: Other Standard Environmental Records

Facility ID:	198911985
Insurers Name:	CASEY S MARKETING CO
Policy End Date:	08/25/2009

CASEY'S GENERAL STORE #1346, 3531 MAIN ST, KEOKUK, IA 526320000 (Continued)

Site Status:	Not Reported
Financial Code:	01
Policy Number:	Not Reported
Policy Start Date:	08/25/2008

LUST: State and tribal leaking storage tank lists

Facility ID:	6204
Spill Number:	Not Reported
Occur Date:	Not Reported
Discover Date:	10/24/2006
Discover Time:	Not Reported
Record Date:	01/09/2007
Leak Number:	9LTM96
Loc ID:	68264
Ust ID:	11757
Latitude:	40.42209
Longitude:	-91.40972
Start Date:	01/11/2007
Spill Date:	Not Reported
Date Occurred Time:	Not Reported
Lead ID:	4
Coordinator ID:	11
Staff ID:	Not Reported
Discover Method ID:	Not Reported
Leak Status:	Not Reported
Tanks Removed:	0
Created Date:	01/11/2007
Created By:	sherry.blaisdell
Last Changed:	08/18/2008
Changed By:	Bonnie.Garrison
IA_LUST_REM:	Not Reported

RECORD SOURCES AND CURRENCY

To maintain currency of the following databases, EDR contacts the appropriate 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

PRP: Potentially Responsible Parties
Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Number of Days to Update: 3
Last EDR Contact :11/13/2015

Source: EPA
Telephone: 202-564-6023

RMP: Risk Management Plans
Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

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: 08/01/2015
Number of Days to Update: 69
Last EDR Contact :10/26/2015

Source: Environmental Protection Agency
Telephone: 202-564-8600

AIRS: Minor and Title V Sources Listing
Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

A listing of Minor and Title V sources.

Date of Government Version: 09/14/2015
Number of Days to Update: 37
Last EDR Contact :12/11/2015

Source: Department of Natural Resources
Telephone: 515-281-8468

ALLSITES: Contaminated Sites Tracking Database
Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: 0.333 Mile

All the sites included in the Contaminated Sites Tracking Database. The database includes several regulatory complinace programs and actions.

Date of Government Version: 11/04/2015
Number of Days to Update: 32
Last EDR Contact :10/19/2015

Source: Department of Natural Resources
Telephone: 515-281-4171

AST: Aboveground Storage Tank Sites
Standard Environmental Record Source: State and tribal registered storage tank lists

Search Distance: Property

Bulk fuel facilities, commercial fuel operations, private farm sites, and any other storage facility that meets the Department of Public Safety?s registration criteria. They register any class I, II or III petroleum product (gas, diesel and oil) above 1,100 gallons.

Date of Government Version: 09/28/2015
Number of Days to Update: 22
Last EDR Contact :01/11/2016

Source: Department of Public Safety
Telephone: 515-281-5821

BROWNFIELDS: Brownfields Site Listing

Standard Environmental Record Source: State and tribal Brownfields sites
Search Distance: 0.333 Mile

Brownfields are abandoned, idled, or under-used industrial and commercial facilities where expansion or redevelopment is complicated by real or perceived environmental contamination.

Date of Government Version: 11/04/2015
Number of Days to Update: 32
Last EDR Contact :10/19/2015

Source: Department of Natural Resources
Telephone: 515-281-8489

COAL ASH: Coal Ash Disposal Site Listing

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: 0.333 Mile

A listing of coal combustion residue landfill locations.

Date of Government Version: 09/08/2015
Number of Days to Update: 42
Last EDR Contact :12/09/2015

Source: Department of Natural Resources
Telephone: 515-281-8308

DEL SHWS: Delisted Contaminated Sites Listing

Standard Environmental Record Source: State and tribal - equivalent CERCLIS
Search Distance: 0.333 Mile

A listing of sites delisted from the Contaminated Sites Listing.

Date of Government Version: 12/31/2013
Number of Days to Update: 14
Last EDR Contact :10/19/2015

Source: Department of Natural Resources
Telephone: 515-281-8801

DRYCLEANERS: Iowa Drycleaner List

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: 0.25 Mile

A listing of drycleaners in Iowa.

Date of Government Version: 06/10/2015
Number of Days to Update: 17
Last EDR Contact :10/19/2015

Source: Department of Natural Resources
Telephone: 515-242-5100

Financial Assurance 1: Financial Assurance Information Listing

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

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: 09/08/2015
Number of Days to Update: 34
Last EDR Contact :12/07/2015

Source: Department of Natural Resources
Telephone: 515-242-5086

Financial Assurance 2: Financial Assurance Information Listing

Standard Environmental Record Source: Other Standard Environmental Records

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

Date of Government Version: 09/11/2015
Number of Days to Update: 40
Last EDR Contact :12/04/2015

Source: Department of Natural Resources
Telephone: 515-242-5818

INST CONTROL: Sites with Institutional Controls

Standard Environmental Record Source: State and tribal institutional control / engineering control registries
Search Distance: Property

Sites currently enrolled in the Land Recycling Program that have Institutional Controls.

Date of Government Version: 10/19/2015
Number of Days to Update: 49
Last EDR Contact :10/21/2015

Source: Department of Natural Resources
Telephone: 515-242-5818

LAST: Leaking Aboveground Storage Tank Sites

Standard Environmental Record Source: State and tribal leaking storage tank lists
Search Distance: 0.333 Mile

A listing of leaking aboveground storage tank sites.

Date of Government Version: 11/04/2015
Number of Days to Update: 32
Last EDR Contact :10/19/2015

Source: Department of Natural Resources
Telephone: 515-281-6001

LIENS: Liens Filed Listing

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

A listing of liens filed with the Iowa Comprehensive Petroleum Underground Storage Tank Fund.

Date of Government Version: 11/10/2015
Number of Days to Update: 26
Last EDR Contact :11/09/2015

Source: Department of Natural Resources
Telephone: 515-281-5523

LUST: Leaking Underground Storage Tank Data

Standard Environmental Record Source: State and tribal leaking storage tank lists
Search Distance: 0.333 Mile

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

Date of Government Version: 09/08/2015
Number of Days to Update: 34

Source: Department of Natural Resources
Telephone: 515-281-6001

Last EDR Contact :12/07/2015

NPDES: List of NPDES Permittees

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

The files listed below contain information on facilities that hold NPDES permits, or those that are authorized to discharge wastewater to surface waters in Iowa.

Date of Government Version: 06/01/2015 Source: Department of Natural Resources

Number of Days to Update: 1 Telephone: 515-281-4736

Last EDR Contact :11/20/2015

SHWS: Registry of Hazardous Waste or Hazardous Substance Disposal Sites

Standard Environmental Record Source: State and tribal - equivalent CERCLIS

Search Distance: 0.333 Mile

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: 12/31/2014 Source: Department of Natural Resources

Number of Days to Update: 27 Telephone: 515-281-8801

Last EDR Contact :10/19/2015

SPILLS: Spills Database

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Spill reporting data that is collected during the initial report of an incident.

Date of Government Version: 09/08/2015 Source: Department of Natural Resources

Number of Days to Update: 42 Telephone: 515-281-4367

Last EDR Contact :12/09/2015

SWF/LF: Permitted Solid Waste Management Facilities

Standard Environmental Record Source: State and tribal landfill / solid waste disposal

Search Distance: 0.333 Mile

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: 09/08/2015 Source: Department of Natural Resources

Number of Days to Update: 42 Telephone: 515-281-8801

Last EDR Contact :12/09/2015

TIER 2: Tier 2 Information Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report.

Date of Government Version: 12/31/2014 Source: Department of Natural Resources

Number of Days to Update: 9 Telephone: 515-725-0302

Last EDR Contact :12/17/2015

RECORD SOURCES AND CURRENCY

UST: Underground Storage Tank Data

Standard Environmental Record Source: State and tribal registered storage tank lists

Search Distance: Property

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

Date of Government Version: 09/08/2015
Number of Days to Update: 34
Last EDR Contact :12/07/2015

Source: Department of Natural Resources
Telephone: 515-281-6001

VCP: Land Recycling Program Sites

Standard Environmental Record Source: State and tribal voluntary cleanup sites

Search Distance: 0.333 Mile

Sites currently enrolled in the Land Recycling Program.

Date of Government Version: 11/04/2015
Number of Days to Update: 32
Last EDR Contact :10/19/2015

Source: Department of Natural Resources
Telephone: 515-242-5818

SPILLS: Environmental Response Tracking Database

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

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

Date of Government Version: 09/01/2015
Number of Days to Update: 37
Last EDR Contact :12/21/2015

Source: Department of Natural Resources
Telephone: 573-526-3349

2020 COR ACTION: 2020 Corrective Action Program List

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.25 Mile

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: 04/22/2013
Number of Days to Update: 6
Last EDR Contact :11/13/2015

Source: Environmental Protection Agency
Telephone: 703-308-4044

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

Standard Environmental Record Source: Federal CERCLIS

Search Distance: 0.333 Mile

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

Date of Government Version: 10/25/2013
Number of Days to Update: 94
Last EDR Contact :11/23/2015

Source: EPA
Telephone: 703-412-9810

RECORD SOURCES AND CURRENCY

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

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

Date of Government Version: 10/25/2013 Source: EPA

Number of Days to Update: 94 Telephone: 703-412-9810

Last EDR Contact :11/23/2015

COAL ASH DOE: Steam-Electric Plant Operation Data

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005 Source: Department of Energy

Number of Days to Update: 76 Telephone: 202-586-8719

Last EDR Contact :01/13/2016

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

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

Date of Government Version: 07/01/2014 Source: Environmental Protection Agency

Number of Days to Update: 40 Telephone: Not Reported

Last EDR Contact :12/11/2015

CONSENT: Superfund (CERCLA) Consent Decrees

Standard Environmental Record Source: Federal NPL

Search Distance: 0.333 Mile

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

Date of Government Version: 12/31/2014 Source: Department of Justice, Consent Decree Library

Number of Days to Update: 46 Telephone: Varies

Last EDR Contact :12/23/2015

CORRACTS: Corrective Action Report

Standard Environmental Record Source: Federal RCRA CORRACTS facilities list

Search Distance: 0.333 Mile

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/09/2015 Source: EPA

Number of Days to Update: 82 Telephone: 800-424-9346

Last EDR Contact :12/18/2015

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

Standard Environmental Record Source: State and tribal landfill / solid waste disposal

Search Distance: 0.333 Mile

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
Number of Days to Update: 137
Telephone: 415-947-4219
Last EDR Contact :10/26/2015

DOT OPS: Incident and Accident Data

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Source: Department of Transporation, Office of Pipeline Safety
Number of Days to Update: 42
Telephone: 202-366-4595
Last EDR Contact :11/07/2015

Delisted NPL: National Priority List Deletions

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

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

Date of Government Version: 10/30/2015
Source: EPA
Number of Days to Update: 58
Telephone: Not Reported
Last EDR Contact :01/08/2016

EPA WATCH LIST: EPA WATCH LIST

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

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
Number of Days to Update: 88
Telephone: 617-520-3000
Last EDR Contact :11/10/2015

ERNS: Emergency Response Notification System

Standard Environmental Record Source: Federal ERNS list

Search Distance: Property

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

Date of Government Version: 06/22/2015
Source: National Response Center, United States Coast Guard
Number of Days to Update: 82
Telephone: 202-267-2180
Last EDR Contact :12/29/2015

FEMA UST: Underground Storage Tank Listing

Standard Environmental Record Source: State and tribal registered storage tank lists
Search Distance: Property

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010 Source: FEMA
Number of Days to Update: 55 Telephone: 202-646-5797
Last EDR Contact :01/08/2016

FINDS: Facility Index System/Facility Registry System

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

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: 07/20/2015 Source: EPA
Number of Days to Update: 55 Telephone: Not Reported
Last EDR Contact :12/10/2015

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

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

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
Number of Days to Update: 25 Telephone: 202-566-1667
Last EDR Contact :11/18/2015

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

Standard Environmental Record Source: Other Standard Environmental Records
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009 Source: EPA
Number of Days to Update: 25 Telephone: 202-566-1667
Last EDR Contact :11/18/2015

FUDS: Formerly Used Defense Sites

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: 0.333 Mile

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: 01/31/2015 Source: U.S. Army Corps of Engineers
Number of Days to Update: 97 Telephone: 202-528-4285
Last EDR Contact :12/11/2015

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

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
Number of Days to Update: 40
Last EDR Contact :12/17/2007
Source: Environmental Protection Agency
Telephone: 202-564-2501

HMIRS: Hazardous Materials Information Reporting System
Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

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

Date of Government Version: 06/24/2015
Number of Days to Update: 68
Last EDR Contact :12/30/2015
Source: U.S. Department of Transportation
Telephone: 202-366-4555

ICIS: Integrated Compliance Information System
Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

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: 01/23/2015
Number of Days to Update: 31
Last EDR Contact :01/08/2016
Source: Environmental Protection Agency
Telephone: 202-564-5088

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
Standard Environmental Record Source: State and tribal leaking storage tank lists
Search Distance: 0.333 Mile

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015
Number of Days to Update: 67
Last EDR Contact :10/27/2015
Source: EPA Region 1
Telephone: 617-918-1313

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 07/21/2015
Number of Days to Update: 76
Last EDR Contact :01/07/2016
Source: EPA Region 10
Telephone: 206-553-2857

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 11/24/2015
Number of Days to Update: 34
Last EDR Contact :10/26/2015

Source: EPA Region 4
Telephone: 404-562-8677

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Standard Environmental Record Source: State and tribal leaking storage tank lists
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/04/2015
Number of Days to Update: 52
Last EDR Contact :10/26/2015

Source: EPA, Region 5
Telephone: 312-886-7439

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/13/2015
Number of Days to Update: 71
Last EDR Contact :10/26/2015

Source: EPA Region 6
Telephone: 214-665-6597

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/30/2015
Number of Days to Update: 55
Last EDR Contact :10/08/2015

Source: EPA Region 7
Telephone: 913-551-7003

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/30/2015
Number of Days to Update: 48
Last EDR Contact :10/08/2015

Source: EPA Region 8
Telephone: 303-312-6271

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/08/2015
Number of Days to Update: 32
Last EDR Contact :10/30/2015

Source: Environmental Protection Agency
Telephone: 415-972-3372

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: 0.333 Mile

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Number of Days to Update: 52
Last EDR Contact :11/06/2015

Source: Environmental Protection Agency
Telephone: 703-308-8245

RECORD SOURCES AND CURRENCY

INDIAN UST R1: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

Search Distance: Property

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: 10/20/2015
Number of Days to Update: 67
Last EDR Contact :10/27/2015

Source: EPA, Region 1
Telephone: 617-918-1313

INDIAN UST R10: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

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: 07/21/2015
Number of Days to Update: 76
Last EDR Contact :01/07/2016

Source: EPA Region 10
Telephone: 206-553-2857

INDIAN UST R4: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

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: 11/24/2015
Number of Days to Update: 34
Last EDR Contact :10/26/2015

Source: EPA Region 4
Telephone: 404-562-9424

INDIAN UST R5: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

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: 11/05/2015
Number of Days to Update: 52
Last EDR Contact :10/26/2015

Source: EPA Region 5
Telephone: 312-886-6136

INDIAN UST R6: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

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

Date of Government Version: 05/13/2015
Number of Days to Update: 71
Last EDR Contact :10/26/2015

Source: EPA Region 6
Telephone: 214-665-7591

INDIAN UST R7: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

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: 09/23/2014
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003

Last EDR Contact :10/26/2015

INDIAN UST R8: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

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

Date of Government Version: 07/28/2015 Source: EPA Region 8
Number of Days to Update: 60 Telephone: 303-312-6137
Last EDR Contact :07/22/2015

INDIAN UST R9: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

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: 12/14/2014 Source: EPA Region 9
Number of Days to Update: 28 Telephone: 415-972-3368
Last EDR Contact :10/30/2015

INDIAN VCP R1: Voluntary Cleanup Priority Listing

Standard Environmental Record Source: State and tribal voluntary cleanup sites
Search Distance: 0.333 Mile

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

Date of Government Version: 09/29/2014 Source: EPA, Region 1
Number of Days to Update: 36 Telephone: 617-918-1102
Last EDR Contact :12/28/2015

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

Standard Environmental Record Source: State and tribal voluntary cleanup sites

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
Number of Days to Update: 27 Telephone: 913-551-7365
Last EDR Contact :04/20/2009

LEAD SMELTER 1: Lead Smelter Sites

Standard Environmental Record Source: Other Standard Environmental Records
Search Distance: Property

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014 Source: Environmental Protection Agency
Number of Days to Update: 64 Telephone: 703-603-8787
Last EDR Contact :01/08/2016

LEAD SMELTER 2: Lead Smelter Sites

Standard Environmental Record Source: Other Standard Environmental Records

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

Date of Government Version: 04/05/2001 Source: American Journal of Public Health
Number of Days to Update: 36 Telephone: 703-305-6451

Last EDR Contact :12/02/2009

LIENS 2: CERCLA Lien Information

Standard Environmental Record Source: Federal CERCLIS

Search Distance: Property

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

Date of Government Version: 02/18/2014
Source: Environmental Protection Agency
Number of Days to Update: 37
Telephone: 202-564-6023
Last EDR Contact :10/30/2015

LUCIS: Land Use Control Information System

Standard Environmental Record Source: Federal institutional controls / engineering controls registries

Search Distance: 0.333 Mile

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

Date of Government Version: 05/28/2015
Source: Department of the Navy
Number of Days to Update: 13
Telephone: 843-820-7326
Last EDR Contact :11/13/2015

MLTS: Material Licensing Tracking System

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

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

Date of Government Version: 06/26/2015
Source: Nuclear Regulatory Commission
Number of Days to Update: 95
Telephone: 301-415-7169
Last EDR Contact :12/07/2015

NPL: National Priority List

Standard Environmental Record Source: Federal NPL

Search Distance: 0.333 Mile

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

Date of Government Version: 10/30/2015
Source: EPA
Number of Days to Update: 58
Telephone: Not Reported
Last EDR Contact :01/08/2016

NPL Site Boundaries

Sources:

EPA"s Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-566-0690

EPA Region 1
Telephone: 617-918-1102

EPA Region 2
Telephone: 212-637-4293

EPA Region 3
Telephone: 215-814-5418

EPA Region 4
Telephone: 404-562-8681

EPA Region 5
Telephone: 312-353-1063

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6118

EPA Region 9
Telephone: 415-947-4579

EPA Region 10
Telephone: 206-553-4479

NPL LIENS: Federal Superfund Liens

Standard Environmental Record Source: Federal NPL

Search Distance: Property

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

Date of Government Version: 10/15/1991 Source: EPA
Number of Days to Update: 56 Telephone: 202-564-4267
Last EDR Contact :08/15/2011

ODI: Open Dump Inventory

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

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
Number of Days to Update: 39 Telephone: 800-424-9346
Last EDR Contact :06/09/2004

PADS: PCB Activity Database System

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

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: 07/01/2014 Source: EPA
Number of Days to Update: 33 Telephone: 202-566-0500
Last EDR Contact :01/12/2016

PCB TRANSFORMER: PCB Transformer Registration Database

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Number of Days to Update: 83
Last EDR Contact :10/29/2015
Source: Environmental Protection Agency
Telephone: 202-566-0517

Proposed NPL: Proposed National Priority List Sites

Standard Environmental Record Source: Federal NPL

Search Distance: 0.333 Mile

A site that has been proposed for listing on the NationalPriorities 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 therequirements for listing.

Date of Government Version: 10/30/2015
Number of Days to Update: 58
Last EDR Contact :01/08/2016
Source: EPA
Telephone: Not Reported

RAATS: RCRA Administrative Action Tracking System

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

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
Number of Days to Update: 35
Last EDR Contact :06/02/2008
Source: EPA
Telephone: 202-564-4104

RADINFO: Radiation Information Database

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

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

Date of Government Version: 07/07/2015
Number of Days to Update: 69
Last EDR Contact :01/07/2016
Source: Environmental Protection Agency
Telephone: 202-343-9775

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

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

Date of Government Version: 06/09/2015
Number of Days to Update: 82
Last EDR Contact :12/18/2015
Source: Environmental Protection Agency
Telephone: 703-308-8895

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

Standard Environmental Record Source: Federal RCRA generators list

Search Distance: Property

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

Date of Government Version: 06/09/2015 Source: Environmental Protection Agency
Number of Days to Update: 82 Telephone: 703-308-8895
Last EDR Contact :12/18/2015

RCRA-LQG: RCRA - Large Quantity Generators

Standard Environmental Record Source: Federal RCRA generators list

Search Distance: Property

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

Date of Government Version: 06/09/2015 Source: Environmental Protection Agency
Number of Days to Update: 82 Telephone: 703-308-8895
Last EDR Contact :12/18/2015

RCRA-SQG: RCRA - Small Quantity Generators

Standard Environmental Record Source: Federal RCRA generators list

Search Distance: Property

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

Date of Government Version: 06/09/2015 Source: Environmental Protection Agency
Number of Days to Update: 82 Telephone: 703-308-8895
Last EDR Contact :12/18/2015

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

Standard Environmental Record Source: Federal RCRA TSD facilities list

Search Distance: 0.333 Mile

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

Date of Government Version: 06/09/2015 Source: Environmental Protection Agency
Number of Days to Update: 82 Telephone: 703-308-8895
Last EDR Contact :12/18/2015

ROD: Records Of Decision

Standard Environmental Record Source: Federal NPL

Search Distance: 0.333 Mile

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Source: EPA
Number of Days to Update: 74
Telephone: 703-416-0223
Last EDR Contact :12/11/2015

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

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

Date of Government Version: 03/07/2011
Source: Environmental Protection Agency
Number of Days to Update: 54
Telephone: 615-532-8599
Last EDR Contact :11/19/2015

SSTS: Section 7 Tracking Systems

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

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
Number of Days to Update: 77
Telephone: 202-564-4203
Last EDR Contact :10/26/2015

TRIS: Toxic Chemical Release Inventory System

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

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: 12/31/2013
Source: EPA
Number of Days to Update: 110
Telephone: 202-566-0250
Last EDR Contact :11/24/2015

TSCA: Toxic Substances Control Act

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

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: 12/31/2012
Source: EPA
Number of Days to Update: 14
Telephone: 202-260-5521
Last EDR Contact :12/23/2015

UMTRA: Uranium Mill Tailings Sites

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

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

Date of Government Version: 09/14/2010
Source: Department of Energy
Number of Days to Update: 146
Telephone: 505-845-0011
Last EDR Contact :11/19/2015

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

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

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: 10/20/2015
Source: EPA
Number of Days to Update: 69
Telephone: 202-564-2496
Last EDR Contact :12/22/2015

US AIRS MINOR: Air Facility System Data

Standard Environmental Record Source: Other Standard Environmental Records

A listing of minor source facilities.

Date of Government Version: 10/20/2015
Source: EPA
Number of Days to Update: 69
Telephone: 202-564-2496
Last EDR Contact :12/22/2015

US BROWNFIELDS: A Listing of Brownfields Sites

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

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: 09/21/2015
Source: Environmental Protection Agency
Number of Days to Update: 103
Telephone: 202-566-2777
Last EDR Contact :12/21/2015

US CDL: Clandestine Drug Labs

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

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

Date of Government Version: 08/12/2015
Source: Drug Enforcement Administration
Number of Days to Update: 60
Telephone: 202-307-1000

Last EDR Contact :11/25/2015

US ENG CONTROLS: Engineering Controls Sites List

Standard Environmental Record Source: Federal institutional controls / engineering controls registries

Search Distance: Property

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: 09/10/2015
Number of Days to Update: 53
Last EDR Contact :11/24/2015

Source: Environmental Protection Agency
Telephone: 703-603-0695

US FIN ASSUR: Financial Assurance Information

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

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: 09/01/2015
Number of Days to Update: 61
Last EDR Contact :11/13/2015

Source: Environmental Protection Agency
Telephone: 202-566-1917

US HIST CDL: National Clandestine Laboratory Register

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

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

Date of Government Version: 08/12/2015
Number of Days to Update: 60
Last EDR Contact :08/31/2015

Source: Drug Enforcement Administration
Telephone: 202-307-1000

US INST CONTROL: Sites with Institutional Controls

Standard Environmental Record Source: Federal institutional controls / engineering controls registries

Search Distance: Property

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: 09/10/2015
Number of Days to Update: 53
Last EDR Contact :11/24/2015

Source: Environmental Protection Agency
Telephone: 703-603-0695

US MINES: Mines Master Index File

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

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

Date of Government Version: 08/18/2015
Source: Department of Labor, Mine Safety and Health Administration
Number of Days to Update: 125
Telephone: 303-231-5959
Last EDR Contact :12/03/2015

DOD: Department of Defense Sites

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

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

Date of Government Version: 12/31/2005
Source: USGS
Number of Days to Update: 62
Telephone: 888-275-8747
Last EDR Contact :10/16/2015

INDIAN RESERV: Indian Reservations

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Source: USGS
Number of Days to Update: 34
Telephone: 202-208-3710
Last EDR Contact :10/16/2015

PWS: Public Water System Data

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

This Safe Drinking Water Information System (SDWIS) file contains public water systems name and address, population served and the primary source of water

Date of Government Version: 12/17/2013
Source: EPA
Number of Days to Update: 279
Telephone: Not Reported
Last EDR Contact :12/09/2015

RECORD SOURCES AND CURRENCY

HISTORICAL USE RECORDS

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

Standard Environmental Record Source: Exclusive Recovered Govt. Archives

Search Distance: Property

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 Iowa.

Date of Government Version: Not Reported
Source: Department of Natural Resources
Number of Days to Update: 186
Telephone: Not Reported
Last EDR Contact :06/01/2012

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

Standard Environmental Record Source: Exclusive Recovered Govt. Archives

Search Distance: Property

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 Iowa.

Date of Government Version: Not Reported
Source: Department of Natural Resources
Number of Days to Update: 178
Telephone: Not Reported
Last EDR Contact :06/01/2012

EDR Hist Auto: EDR Exclusive Historic Gas Stations

Standard Environmental Record Source: Historical Gas Stations

Search Distance: 0.25 Mile

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: 02/20/2007
Source: EDR, Inc.
Number of Days to Update: 42
Telephone: Not Reported
Last EDR Contact :02/21/2007

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

Standard Environmental Record Source: Historical Dry Cleaners

Search Distance: 0.25 Mile

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: 02/20/2007
Source: EDR, Inc.
Number of Days to Update: 42
Telephone: Not Reported
Last EDR Contact :02/21/2007

EDR MGP: EDR Proprietary Manufactured Gas Plants

Standard Environmental Record Source: Former manufactured Gas Plants

Search Distance: 0.333 Mile

RECORD SOURCES AND CURRENCY

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: 08/28/2009
Number of Days to Update: 55
Last EDR Contact :11/30/2012

Source: EDR, Inc.
Telephone: Not Reported

RECORD SOURCES AND CURRENCY

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.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW® 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

STATSGO: State Soil Geographic Database

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

SSURGO: Soil Survey Geographic Database

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

Telephone: 800-672-5559

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

STREET AND ADDRESS INFORMATION

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APPENDIX G

HISTORICAL USE DOCUMENTATION

APPENDIX G-1

HISTORICAL SANBORN MAP SEARCH

Elkem Carbide
365 Carbide Lane
Keokuk, IA 52632

Inquiry Number: 4513291.3
January 14, 2016

Certified Sanborn® Map Report

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

Certified Sanborn® Map Report

1/14/16

Site Name:
Elkem Carbide
365 Carbide Lane
Keokuk, IA 52632

Client Name:
Tetra Tech EMI
415 Oak Street
Kansas City, MO 64106

EDR Inquiry # 4513291.3

Contact: Joann Jeplawy

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

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

Certified Sanborn Results:

Site Name: Elkem Carbide
Address: 365 Carbide Lane
City, State, Zip: Keokuk, IA 52632
Cross Street:
P.O. # 103X9025140002019017
Project: Elkem Carbide
Certification # 96E9-4FDE-B71E

UNMAPPED PROPERTY

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

Sanborn® Library search results
Certification # 96E9-4FDE-B71E

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

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

The Sanborn Library LLC Since 1866™

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APPENDIX G-2

HISTORICAL AERIAL PHOTOGRAPHS

Elkem Carbide
365 Carbide Lane
Keokuk, IA 52632

Inquiry Number: 4513291.9
January 15, 2016

The EDR Aerial Photo Decade Package

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

EDR Aerial Photo Decade Package

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

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

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Date EDR Searched Historical Sources:

Aerial Photography January 15, 2016

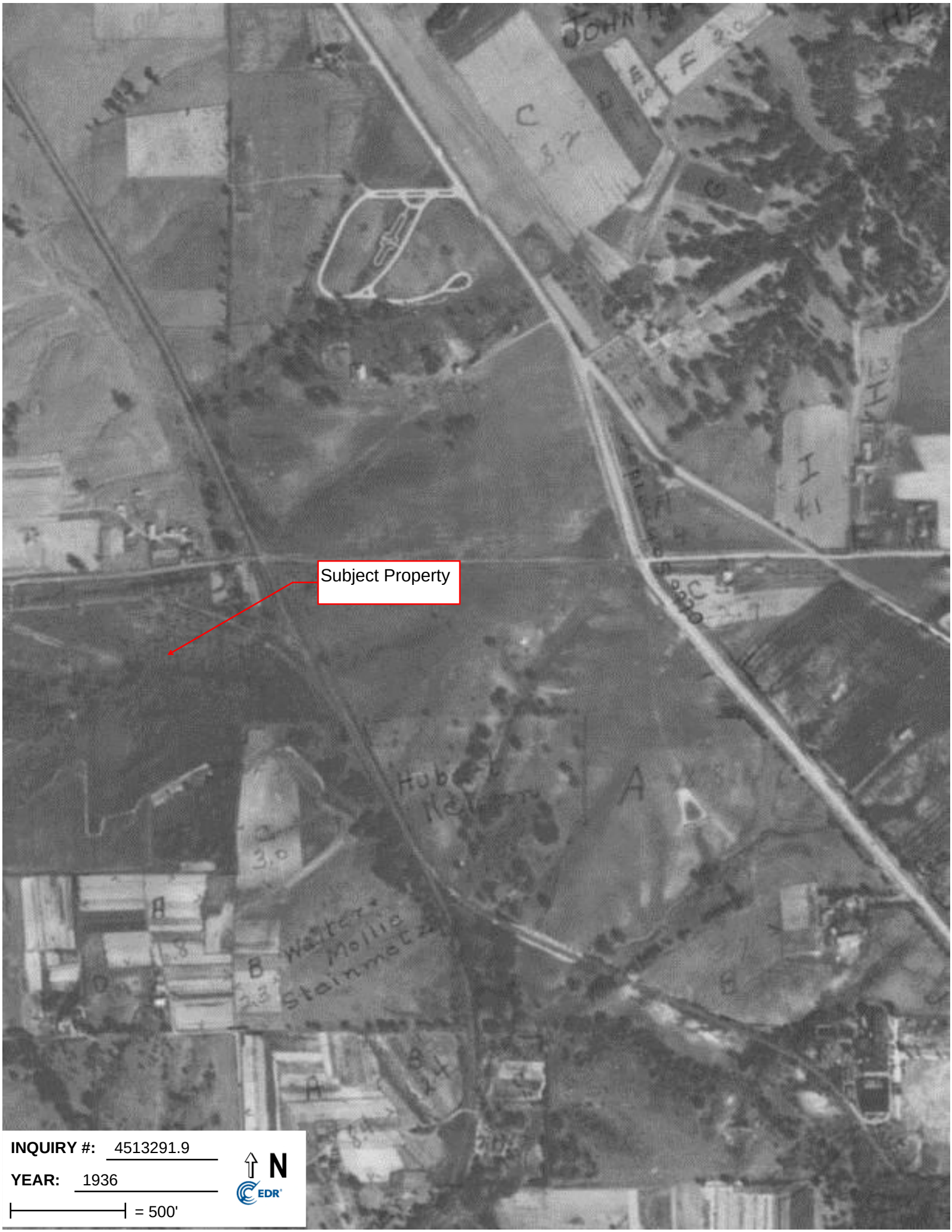
Target Property:

365 Carbide Lane

Keokuk, IA 52632

Year	***Scale***	***Details***	***Source***
1936	Aerial Photograph. Scale: 1"=500'	Flight Year: 1936	DOT
1956	Aerial Photograph. Scale: 1"=500'	Flight Year: 1956	USDA
1963	Aerial Photograph. Scale: 1"=500'	Flight Year: 1963	USDA
1974	Aerial Photograph. Scale: 1"=500'	Flight Year: 1974	USDA
1985	Aerial Photograph. Scale: 1"=500'	Flight Year: 1985	NHAP
1994	Aerial Photograph. Scale: 1"=500'	Flight Year: 1994	NAPP
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2005	Aerial Photograph. Scale: 1"=500'	/DOQQ - acquisition dates: 2005	USGS/DOQQ
2005	Aerial Photograph. Scale: 1"=500'	/DOQQ - acquisition dates: 2005	USGS/DOQQ
2006	Aerial Photograph. Scale: 1"=500'	Flight Year: 2006	USDA/NAIP
2006	Aerial Photograph. Scale: 1"=500'	Flight Year: 2006	USDA/NAIP
2007	Aerial Photograph. Scale: 1"=500'	Flight Year: 2007	USDA/NAIP
2007	Aerial Photograph. Scale: 1"=500'	Flight Year: 2007	USDA/NAIP
2008	Aerial Photograph. Scale: 1"=500'	Flight Year: 2008	USDA/NAIP
2008	Aerial Photograph. Scale: 1"=500'	Flight Year: 2008	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP

Year	*Scale*	*Details*	*Source*
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2011	Aerial Photograph. Scale: 1"=500'	Flight Year: 2011	USDA/NAIP
2011	Aerial Photograph. Scale: 1"=500'	Flight Year: 2011	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP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YEAR: 1936
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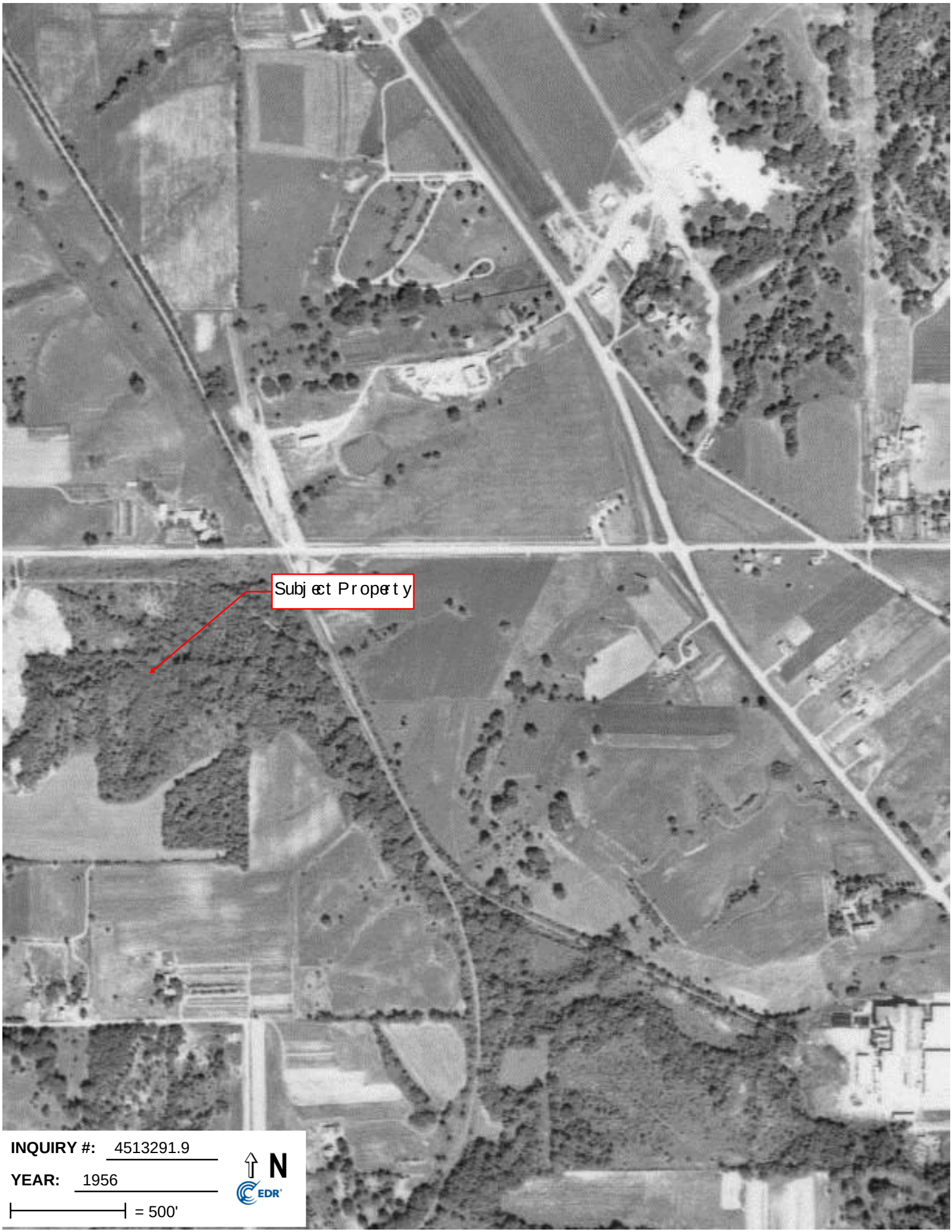
EDR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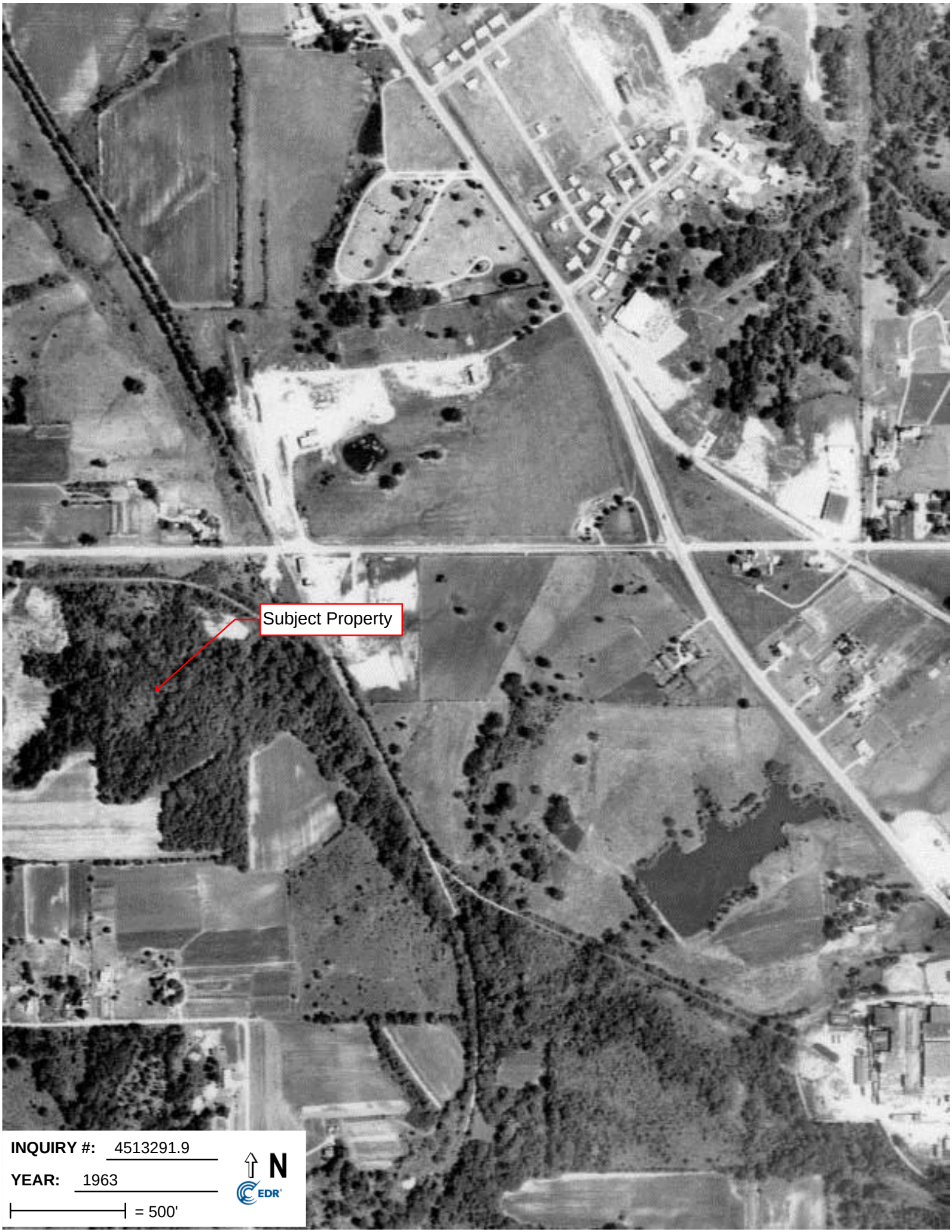
EDR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EDR

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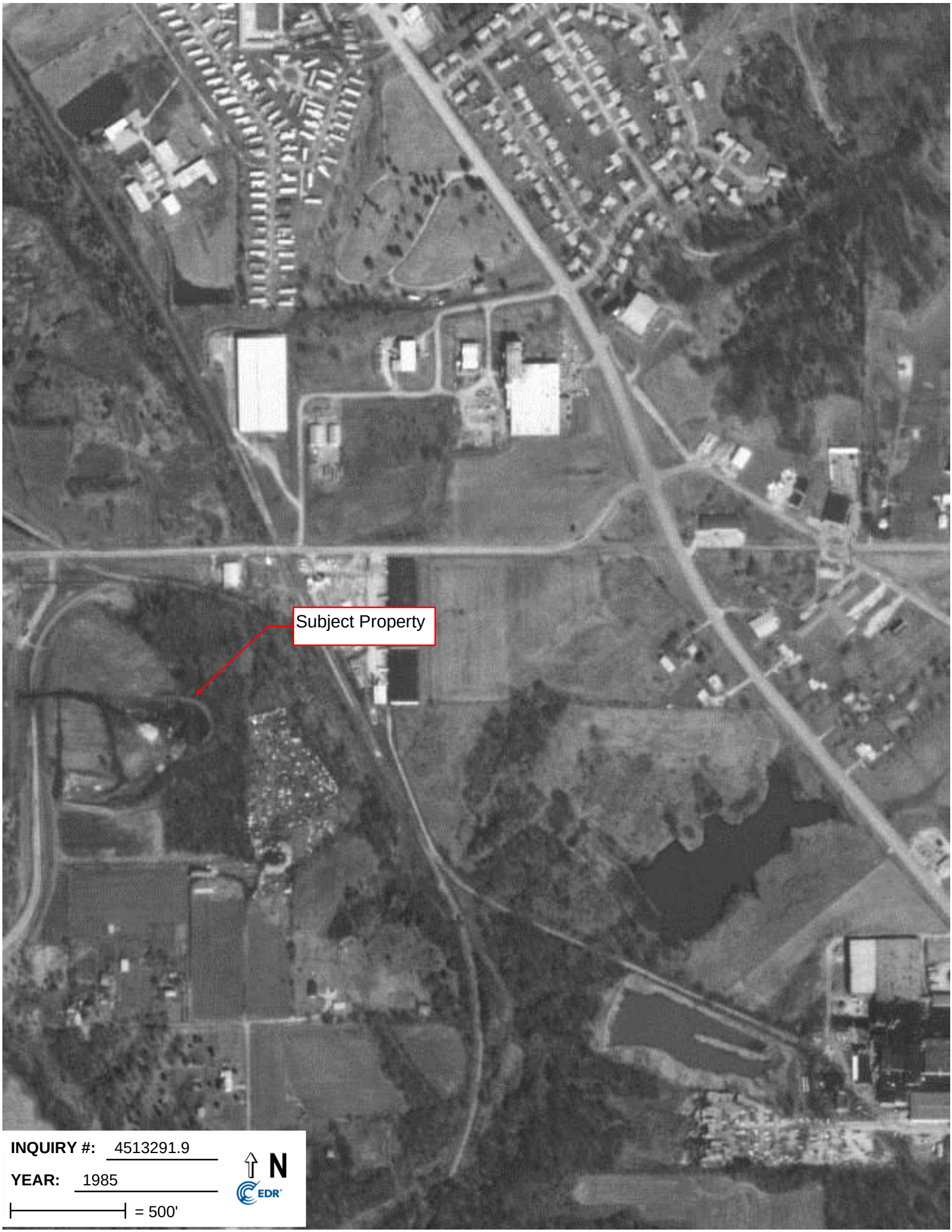
EDR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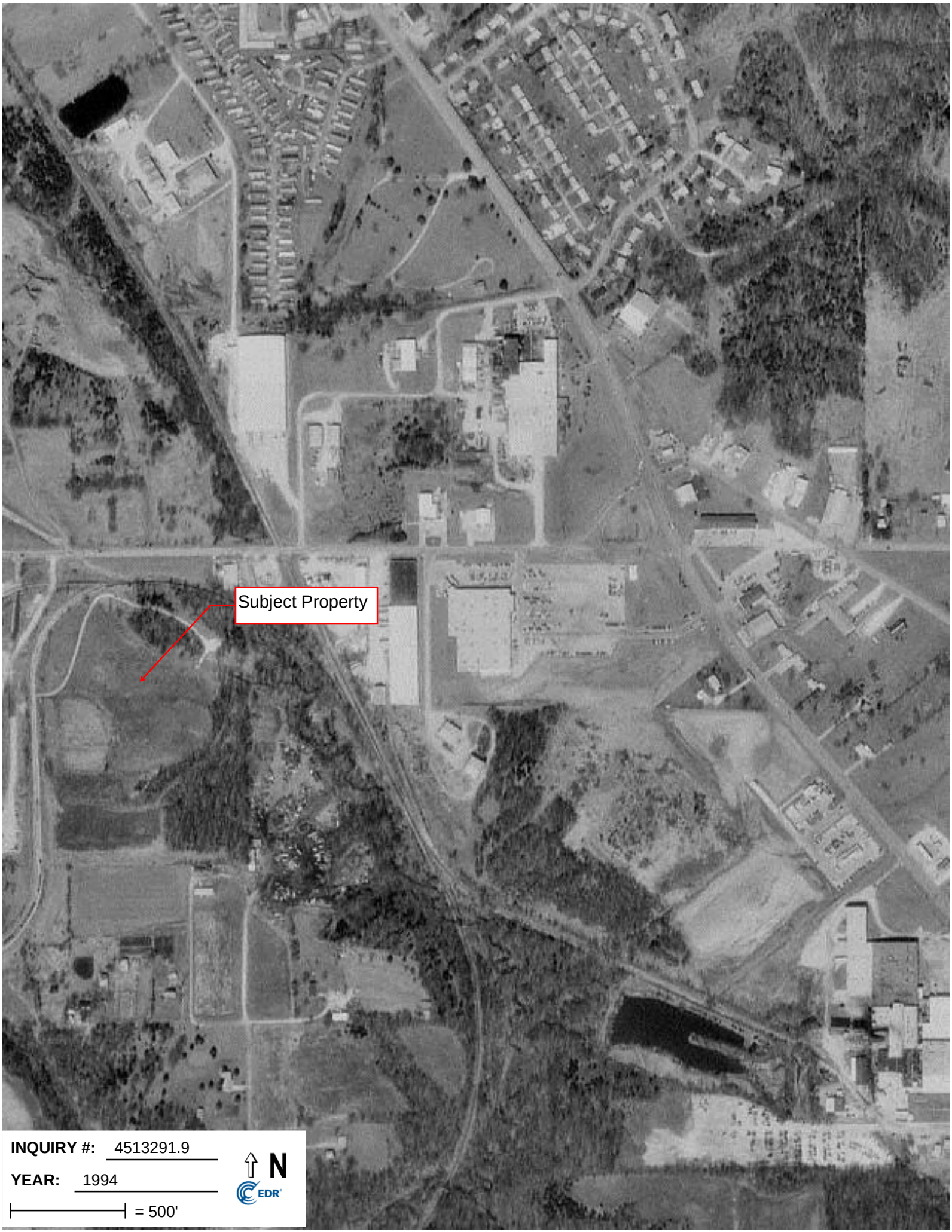
EDR


Subject Property
INQUIRY #: 4513291.9
YEAR: 1994
= 500'
N
EDR

Subject Property
INQUIRY #: 4513291.9
YEAR: 2005
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EDR

Subject Property
INQUIRY #: 4513291.9
YEAR: 2005
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EDR

INQUIRY #: 4513291.9

YEAR: 2005

= 500'

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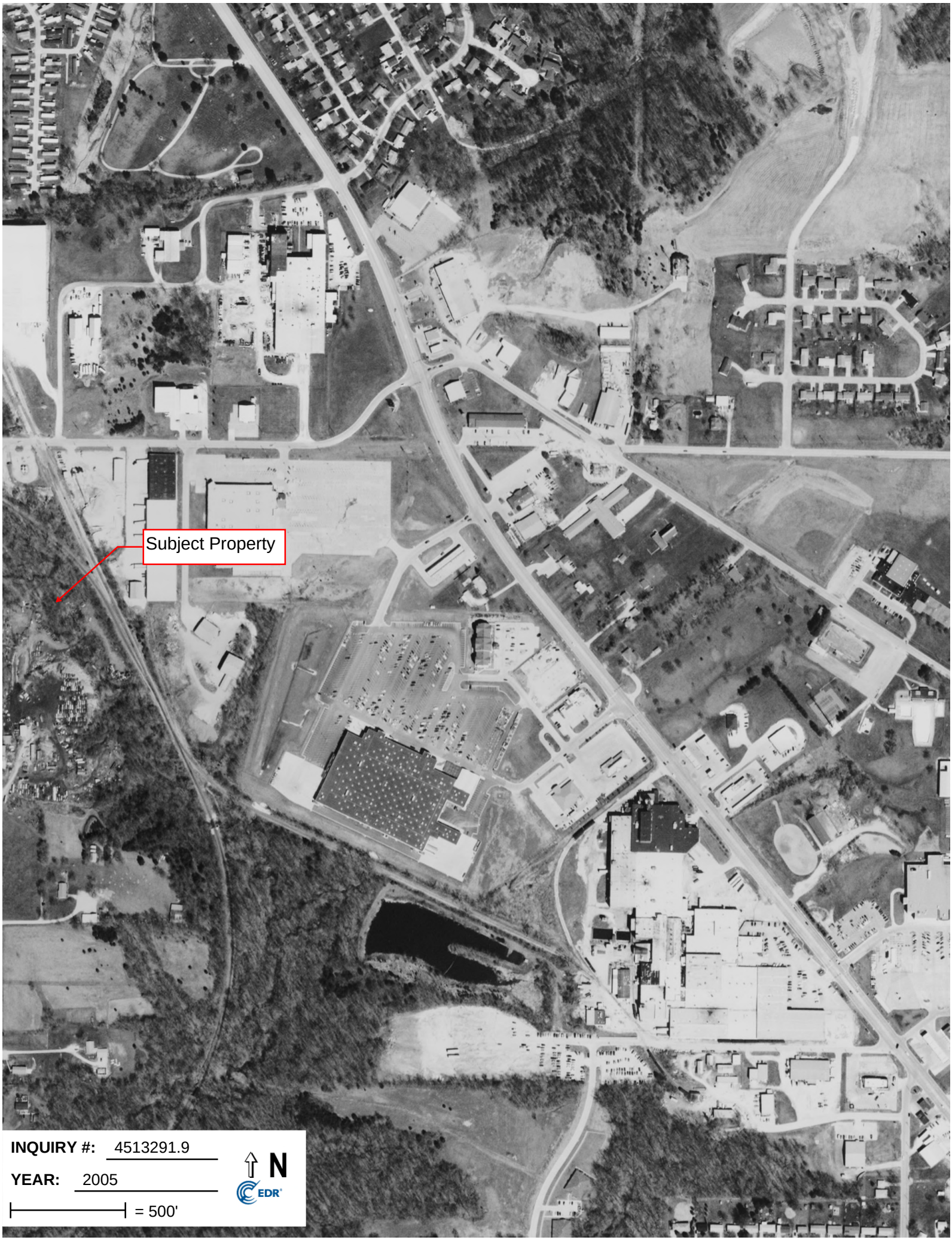
EDR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EDR

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EDR

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YEAR: 2007
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N
EDR

Subject Property
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EDR

Subject Property
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YEAR: 2008
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N
EDR

Subject Property
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YEAR: 2008
= 500'
N
EDR

Subject Property
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YEAR: 2009
= 500'
N
EDR

Subject Property
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YEAR: 2009
= 500'
N
EDR

Subject Property
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YEAR: 2010
= 500'
N
EDR

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YEAR: 2010
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EDR

Subject Property
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EDR

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YEAR: 2011
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Subject Property
INQUIRY #: 4513291.9
YEAR: 2012
= 500'
N
EDR

Subject Property
INQUIRY #: 4513291.9
YEAR: 2012
= 500'
N
EDR

HIG Research Summary

Site Location
Elkem Carbide
None, IA

Conducted For
Tetra Tech, Inc.
415 Oak Street
Kansas City, MO

HIG Project #
1628807
Date Created
02/25/2016

Historical Information Gatherers

This Research Summary identifies the products and services provided by Historical Information Gatherers, Inc. (HIG) for the above referenced site location. All products are provided as PDFs unless otherwise noted.

Historical Aerial Photographs

Aerial photographs of the site location were used to create a multi-page file named AerialPhotos. Each aerial photograph has a title block that includes the year and scale of the photograph as well as project information submitted at the time the order was placed. The years of coverage provided are listed below.

1936, 1947, 1956, 1963, 1974, 1985, 1988, 1996, 2000, 2006, 2011, 2015

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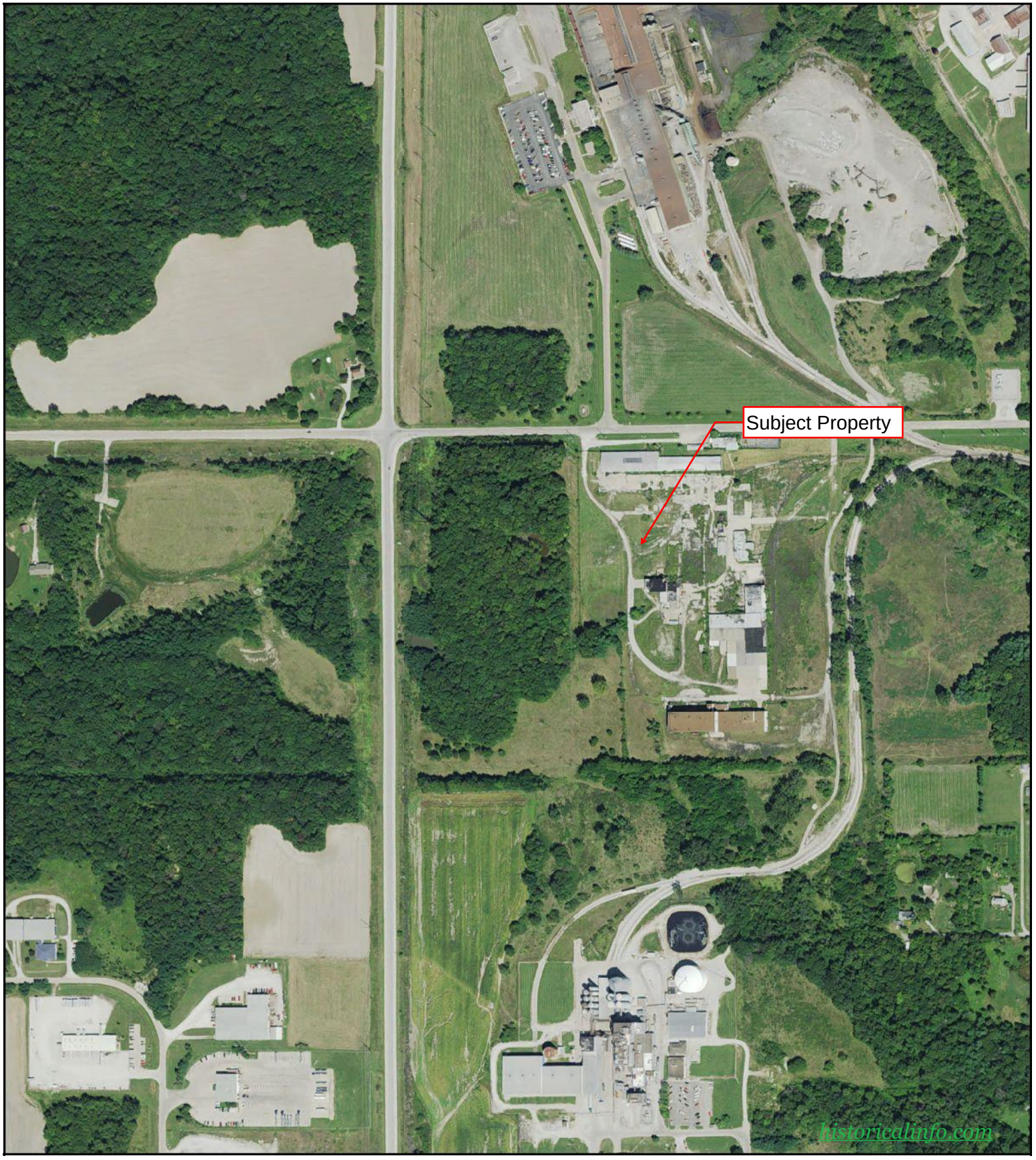
infogroup

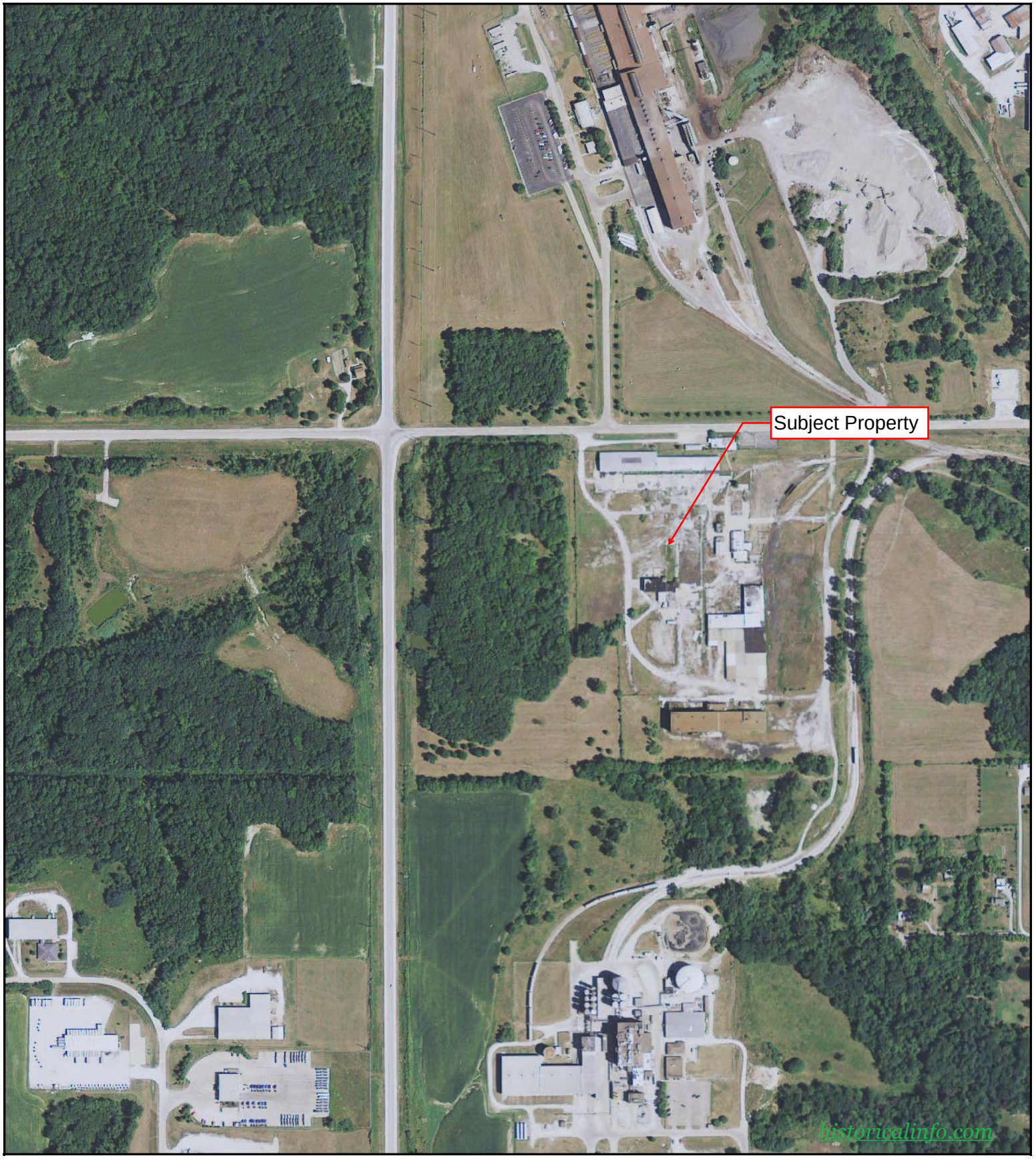


Elkem Carbide
, IA

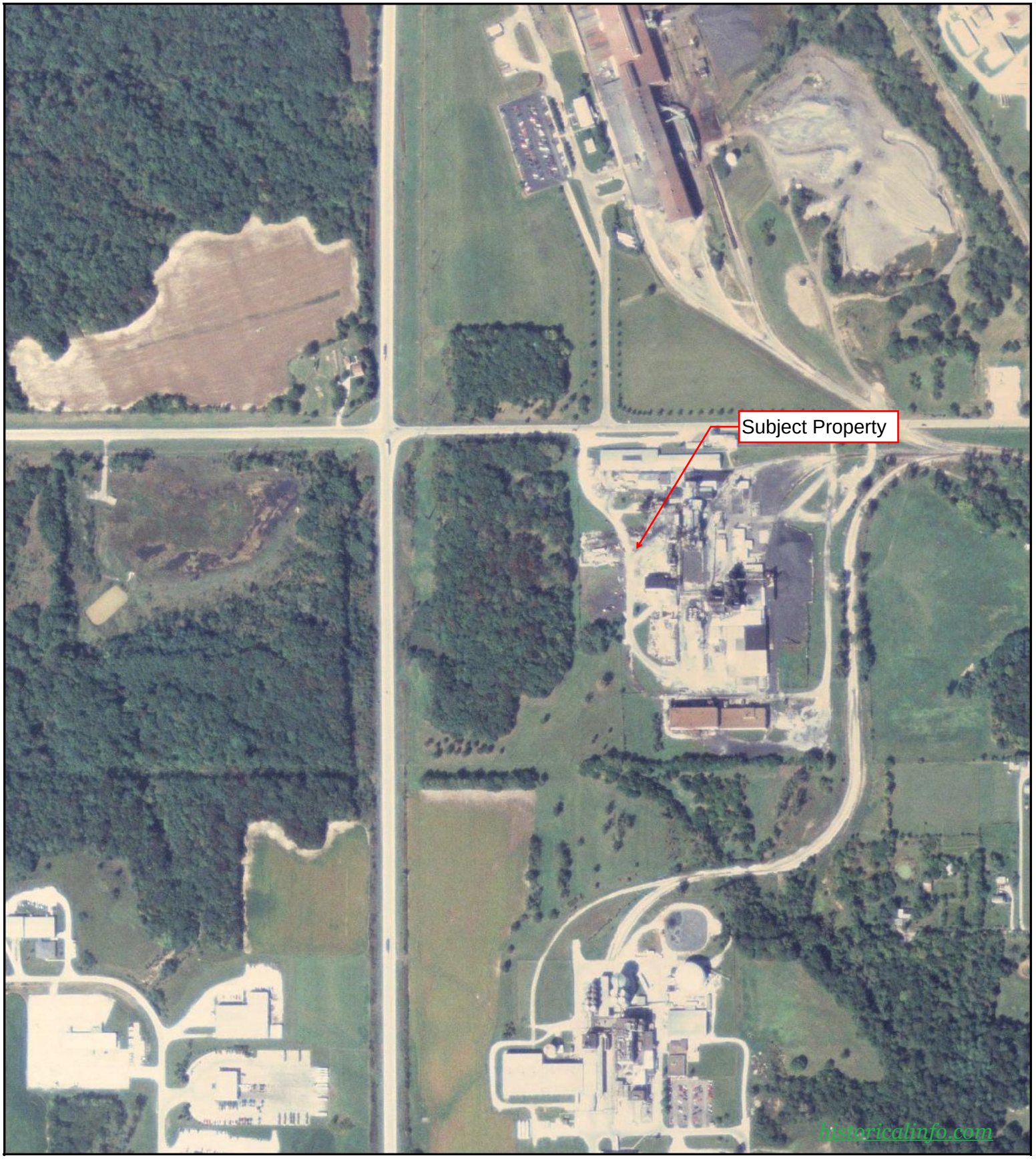
N

2015

HIG Project # 1628807
Client Project # 103X9025140002019017
Approximate Scale 1:6000 (1"=500')



Elkem Carbide , IA	N	**2011** HIG Project # 1628807 Client Project # 103X9025140002019017 Approximate Scale 1:6000 (1"=500')



Elkem Carbide
, IA

N

2006

HIG Project # 1628807
Client Project # 103X9025140002019017
Approximate Scale 1:6000 (1"=500')

Elkem Carbide
, IA

N

2000

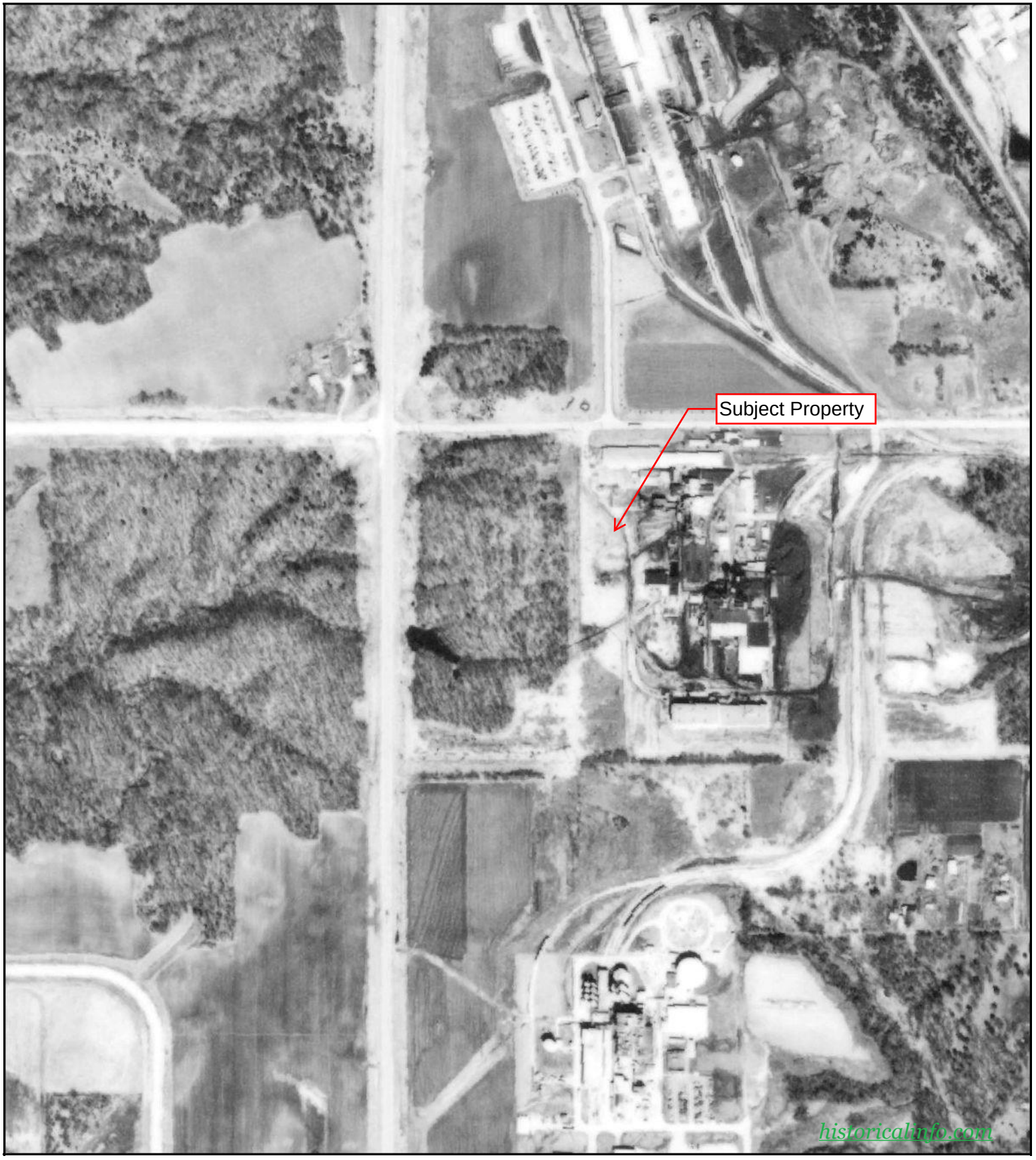
HIG Project # 1628807
Client Project # 103X9025140002019017
Approximate Scale 1:6000 (1"=500')

Elkem Carbide
, IA

N

1996

HIG Project # 1628807
Client Project # 103X9025140002019017
Approximate Scale 1:6000 (1"=500')



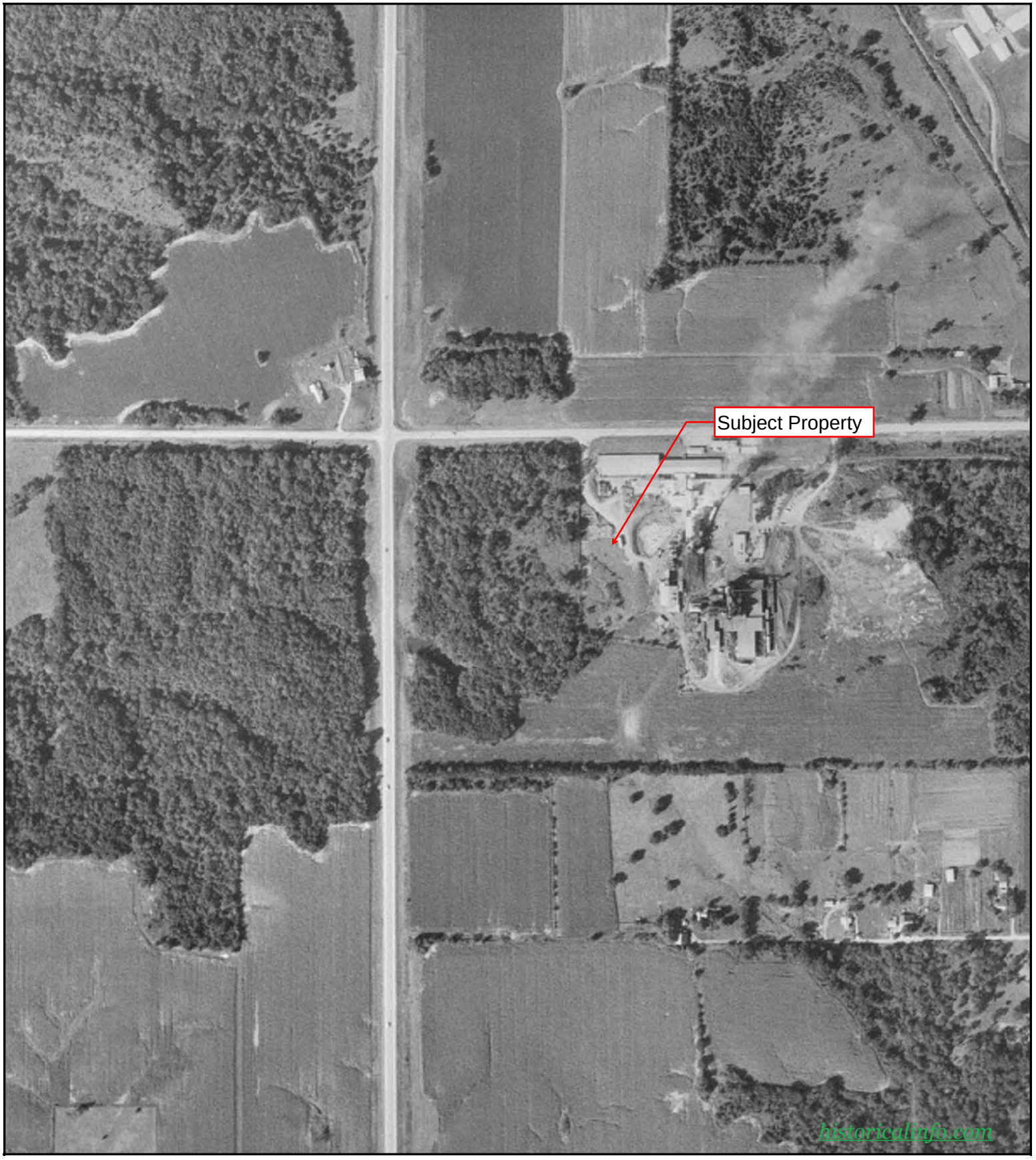
Elkem Carbide
, IA

N

1988

HIG Project # 1628807
Client Project # 103X9025140002019017
Approximate Scale 1:6000 (1"=500')

Elkem Carbide , IA	N	**1985** HIG Project # 1628807 Client Project # 103X9025140002019017 Approximate Scale 1:6000 (1"=500')



Elkem Carbide , IA	N	**1974** HIG Project # 1628807 Client Project # 103X9025140002019017 Approximate Scale 1:6000 (1"=500')

Elkem Carbide
, IA

N

1963

HIG Project # 1628807
Client Project # 103X9025140002019017
Approximate Scale 1:6000 (1"=500')

Elkem Carbide
, IA

N

1956

HIG Project # 1628807
Client Project # 103X9025140002019017
Approximate Scale 1:6000 (1"=500')

Elkem Carbide , IA	N	**1947** HIG Project # 1628807 Client Project # 103X9025140002019017 Approximate Scale 1:6000 (1"=500')	HIG

Elkem Carbide , IA	N	**1936** HIG Project # 1628807 Client Project # 103X9025140002019017 Approximate Scale 1:6000 (1"=500')	HIG

APPENDIX G-3

HISTORICAL TOPOGRAPHIC MAPS

Elkem Carbide

365 Carbide Lane

Keokuk, IA 52632

Inquiry Number: 4513291.4

January 14, 2016

EDR Historical Topo Map Report

with QuadMatch™

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

EDR Historical Topo Map Report

01/14/16

Site Name:
Elkem Carbide
365 Carbide Lane
Keokuk, IA 52632
EDR Inquiry # 4513291.4

Client Name:
Tetra Tech EMI
415 Oak Street
Kansas City, MO 64106
Contact: Joann Jeplawy

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Tetra Tech EMI 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. EDRs 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:

Site Name: Elkem Carbide
Address: 365 Carbide Lane
City,State,Zip: Keokuk, IA 52632
P.O.# 103X9025140002019017
Project: Elkem Carbide

Coordinates:

Latitude: 40.4213 40° 25' 17" North
Longitude: -91.4209 -91° 25' 15" West
UTM Zone: Zone 15 North
UTM X Meters: 633962.20
UTM Y Meters: 4475716.24
Elevation: 660.00' above sea level

Maps Provided:

2013
1975
1964
1950
1936

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Topo Sheet Thumbnails

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2013 Source Sheets

Keokuk
2013
7.5-minute, 24000

1975 Source Sheets

Keokuk
1975
7.5-minute, 24000
Photo Revised 1975
Aerial Photo Revised 1975

1964 Source Sheets

Keokuk
1964
7.5-minute, 24000
Aerial Photo Revised 1962

1950 Source Sheets

Keokuk
1950
15-minute, 62500

Topo Sheet Thumbnails

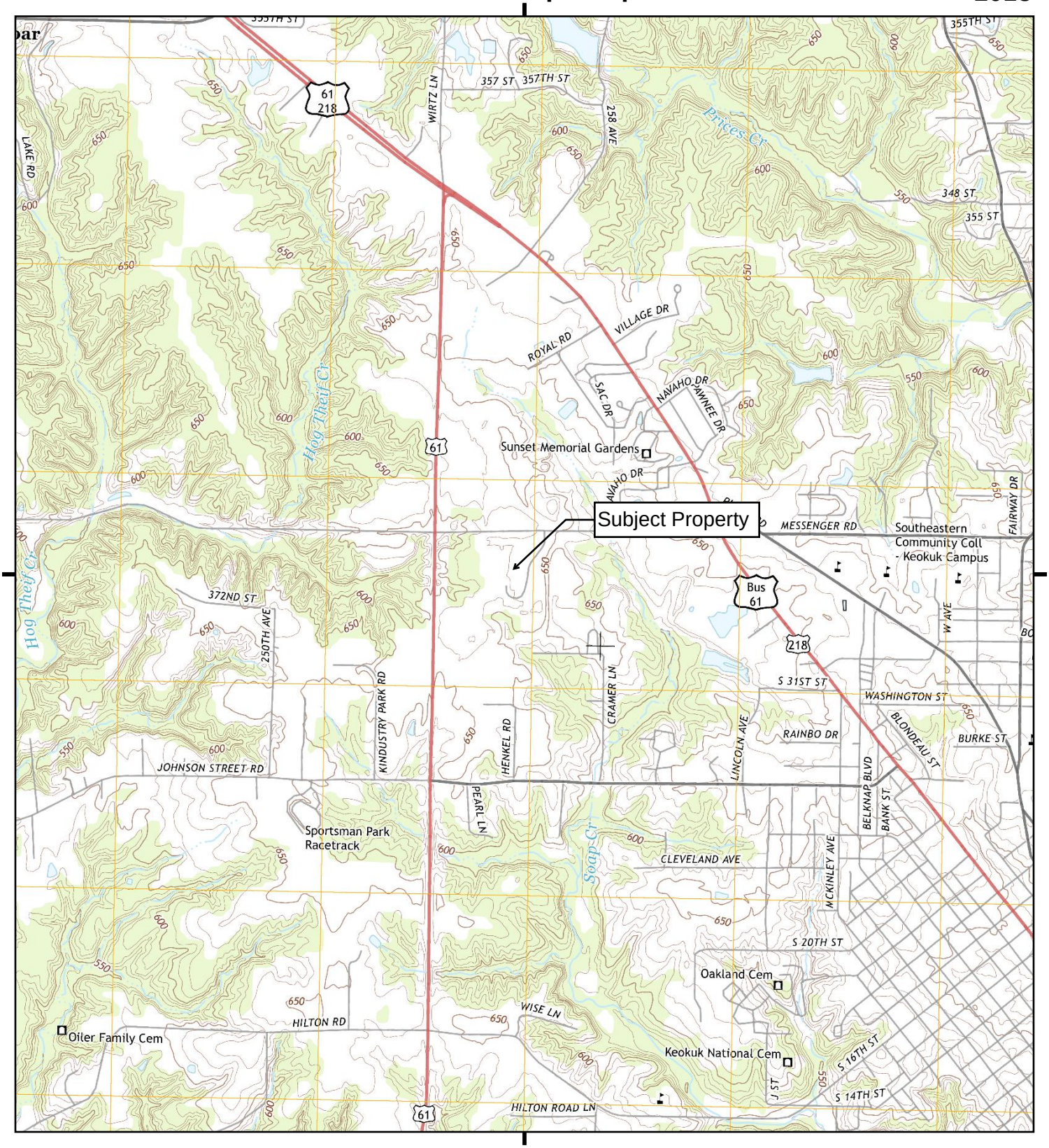
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1936 Source Sheets

Keokuk
1936
15-minute, 62500

Historical Topo Map

2013



This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

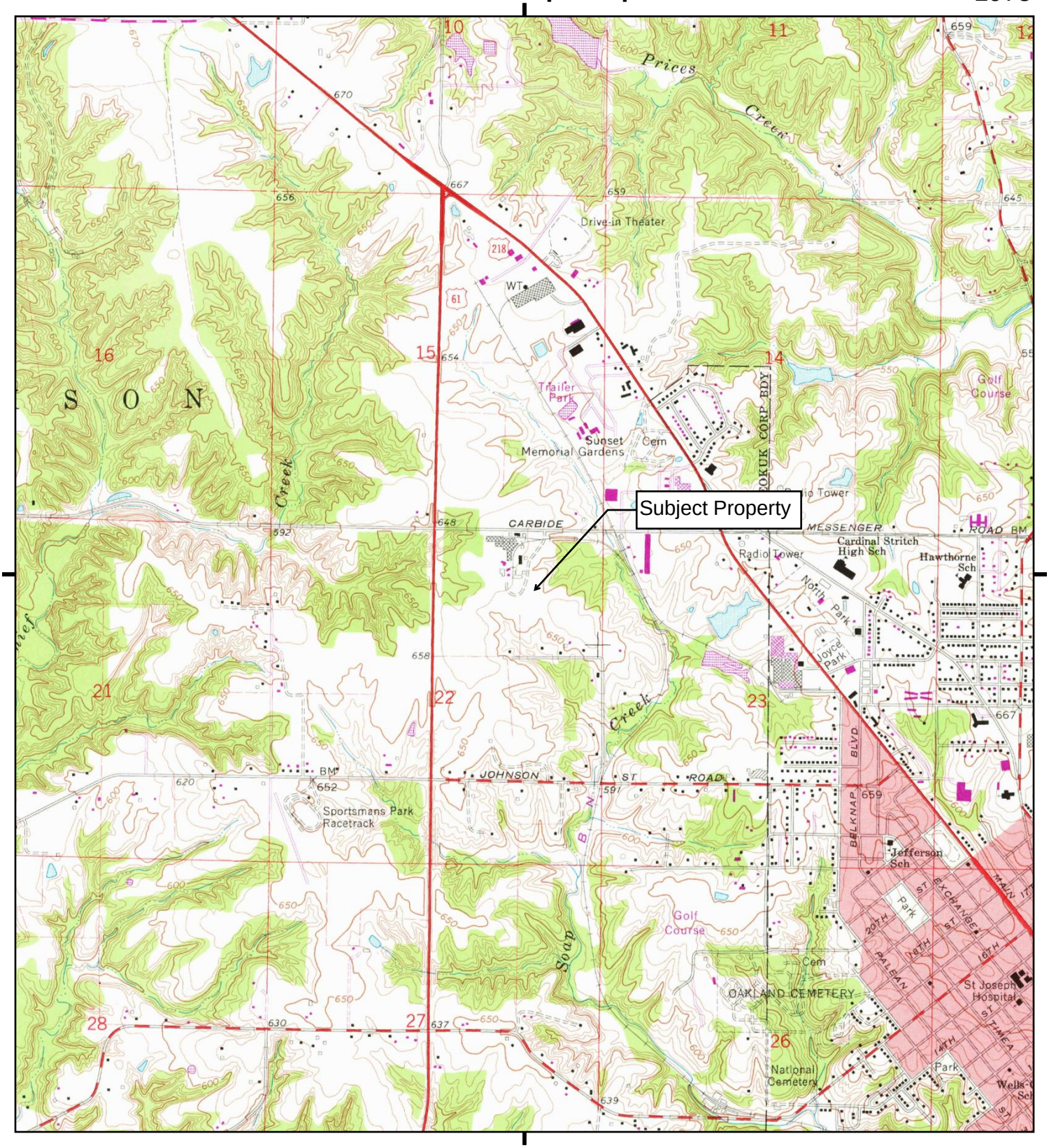
TP, Keokuk, 2013, 7.5-minute

SITE NAME: Elkem Carbide
ADDRESS: 365 Carbide Lane
Keokuk, IA 52632
CLIENT: Tetra Tech EMI

N

Historical Topo Map

1975



This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

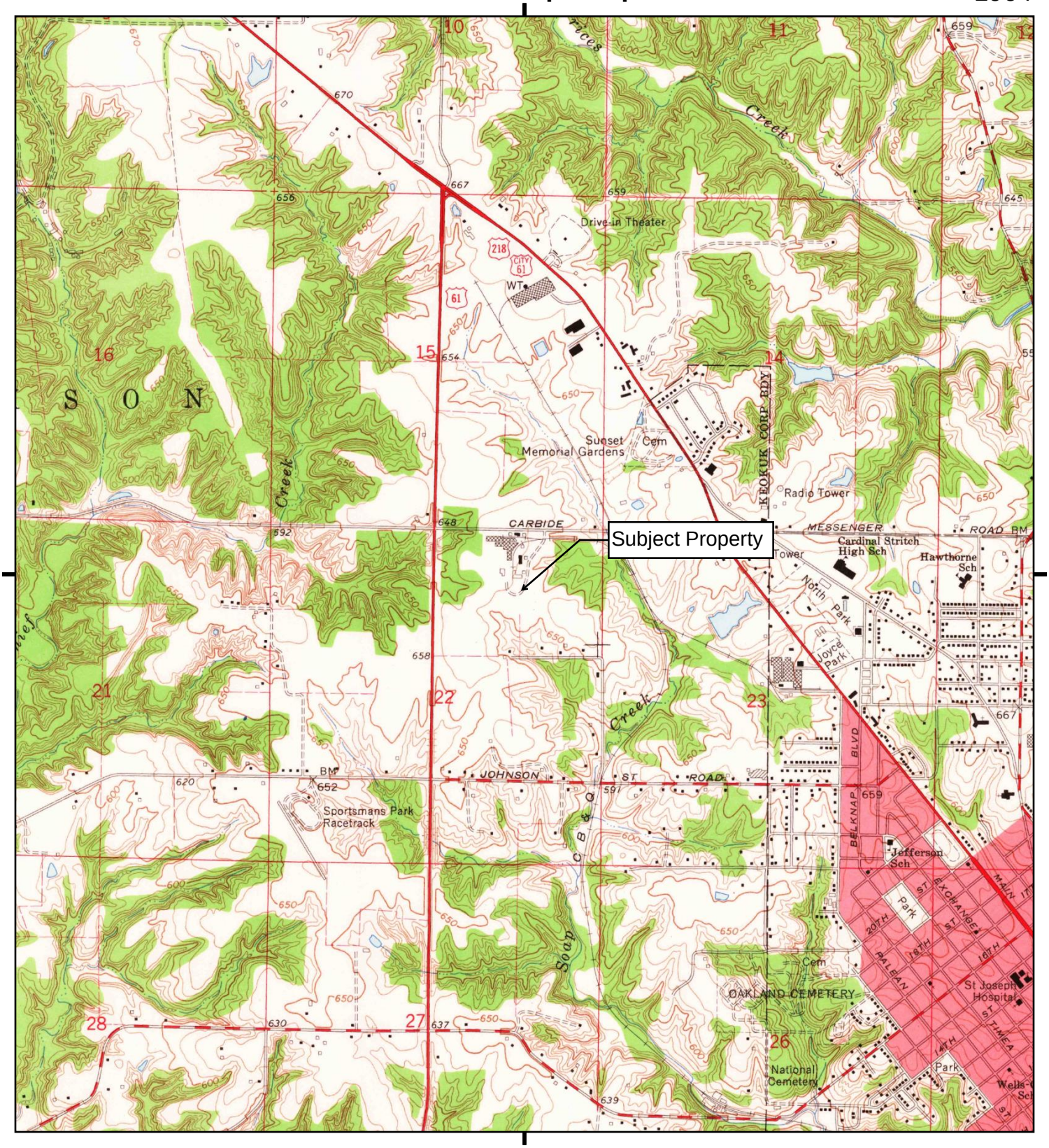
TP, Keokuk, 1975, 7.5-minute

SITE NAME: Elkem Carbide
ADDRESS: 365 Carbide Lane
Keokuk, IA 52632
CLIENT: Tetra Tech EMI

N

Historical Topo Map

1964



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Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

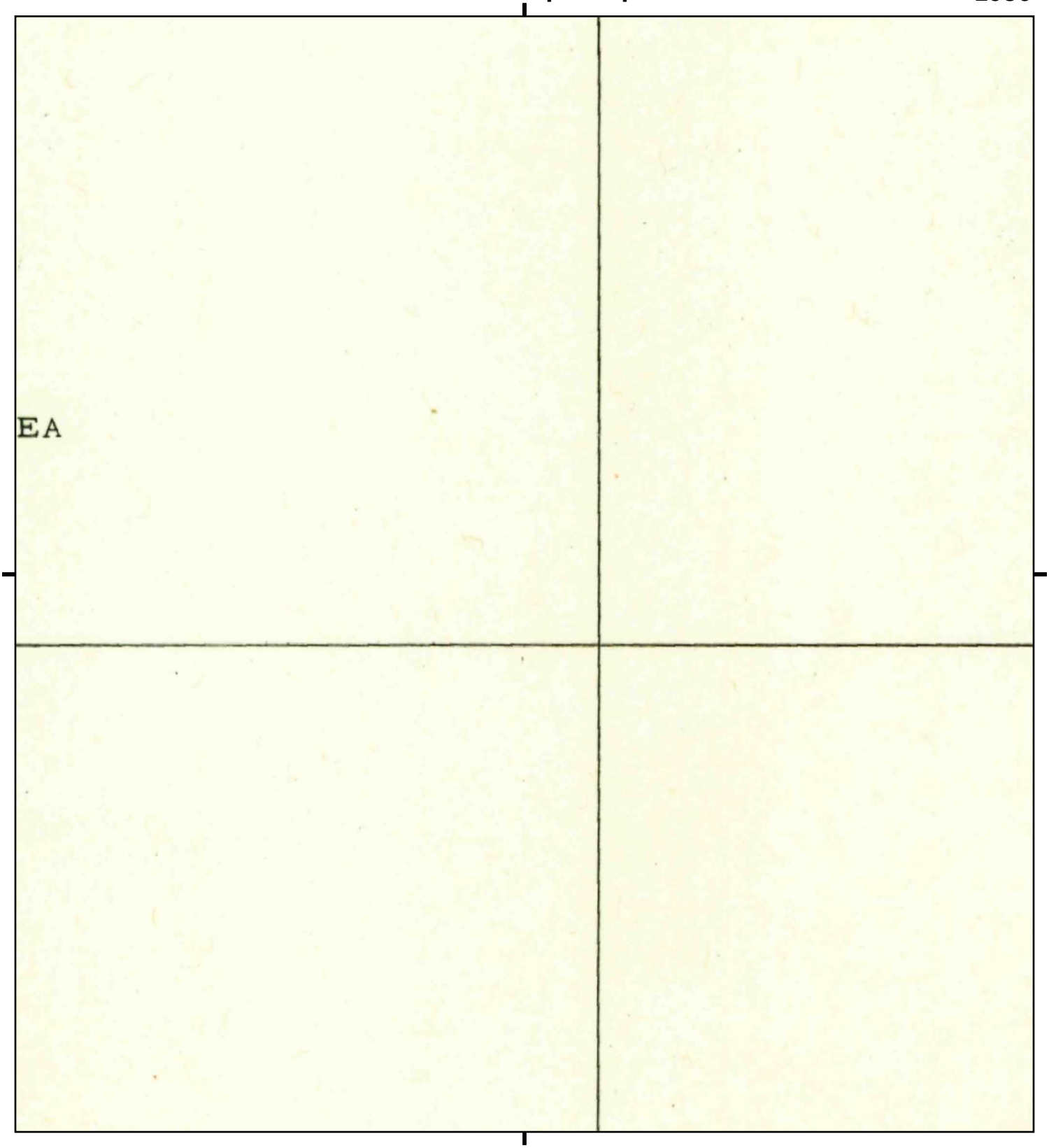
TP, Keokuk, 1964, 7.5-minute

SITE NAME: Elkem Carbide
ADDRESS: 365 Carbide Lane
Keokuk, IA 52632
CLIENT: Tetra Tech EMI

N

Historical Topo Map

1950



This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

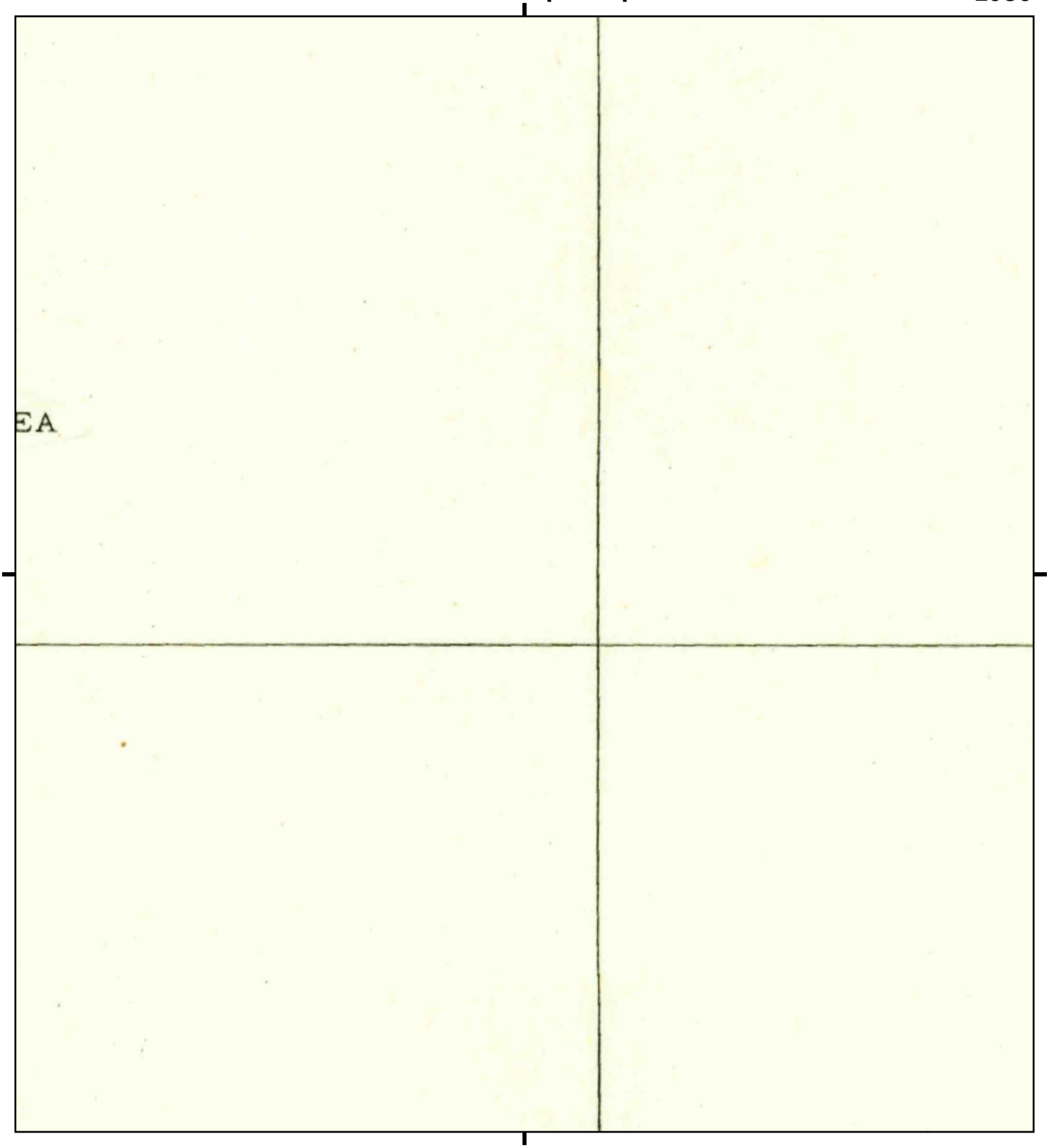
TP, Keokuk, 1950, 15-minute

SITE NAME: Elkem Carbide
ADDRESS: 365 Carbide Lane
Keokuk, IA 52632
CLIENT: Tetra Tech EMI

N

Historical Topo Map

1936



This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Keokuk, 1936, 15-minute

SITE NAME: Elkem Carbide
ADDRESS: 365 Carbide Lane
Keokuk, IA 52632
CLIENT: Tetra Tech EMI

N

APPENDIX G-4

HISTORICAL CITY DIRECTORY SEARCH

Elkem Carbide
365 Carbide Lane
Keokuk, IA 52632

Inquiry Number: 4513291.5
January 14, 2016

The EDR-City Directory Image Report

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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City Directory Images

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

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EXECUTIVE SUMMARY

DESCRIPTION

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

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	Target Street	Cross Street	Source
2013	☑	☐	Cole Information Services
2008	☑	☐	Cole Information Services
2003	☑	☐	Cole Information Services
1999	☑	☐	Cole Information Services
1995	☑	☐	Cole Information Services
1992	☑	☐	Cole Information Services
1987	☑	☐	Polk's City Directory
1982	☑	☐	Polk's City Directory
1977	☑	☐	Polk's City Directory
1972	☑	☐	Polk's City Directory
1967	☑	☐	Polk's City Directory
1961	☑	☐	Polk's City Directory
1957	☐	☐	Polk's City Directory

RECORD SOURCES

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FINDINGS

TARGET PROPERTY STREET

365 Carbide Lane
Keokuk, IA 52632

Year	*CD Image*	*Source*	
CARBIDE LN			
2013	pg A1	Cole Information Services	
2008	pg A2	Cole Information Services	
2003	pg A3	Cole Information Services	
1999	pg A4	Cole Information Services	
1995	pg A5	Cole Information Services	
1992	pg A6	Cole Information Services	
1987	pg A7	Polk's City Directory	
1982	pg A8	Polk's City Directory	
1977	pg A9	Polk's City Directory	
1972	pg A10	Polk's City Directory	
1967	pg A11	Polk's City Directory	
1961	pg A12	Polk's City Directory	
1957	-	Polk's City Directory	Street not listed in Source

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	Cole Information Services

CARBIDE LN 2013

111	GREAT RIVER REGIONAL WASTE AUTHORITY
116	VAN METER INC
117	TWIN RIVERS STORAGE
209	IDEAL READY MIX CO INC
249	CITY OF KEOKUK
416	AMSTED RAIL COMPANY INC
2227	STANLEY DOHRN
2251	DANIEL CALE
2298	OCCUPANT UNKNOWN
2302	OCCUPANT UNKNOWN
2324	RONALD MEYER
2334	OCCUPANT UNKNOWN
2358	PHIL OHARA
2360	JEFF OHARA

Target Street	Cross Street	Source
✓	-	Cole Information Services

CARBIDE LN 2008

111	GREAT RIVER REGIONAL WASTE AUTHORITY
116	VAN METER INDUSTRIAL INC
117	TWIN RIVERS STORAGE INC
209	IDEAL READY MIX CO INC
210	BIG RIVER BOX INC
249	KEOKUK EMERGENCY
365	ELKEM CARBON CORP
	NITROUS OXIDE
416	AMSTED INDUSTRIES INC
	GRIFFIN WHEEL CO
2227	STANLEY DOHRN
2251	STEVE CALE
2302	DORIS LIEURANCE
2324	RONALD MEYER
2334	KENNETH MERSCHBROCK
2358	PHIL OHARA
2360	JEFF OHARA

Target Street	Cross Street	Source
✓	-	Cole Information Services

CARBIDE LN 2003

100	KEOKUK MASONIC BUILDING
111	GREAT RIVER RGNL WASTE ATHRTY
116	VAN METER INDUSTRIAL INC
209	IDEAL READY MIX CO
210	S & T WAREHOUSING
249	KEOKUK CITY OF ANIMAL SHELTER
365	AIR GAS
	ELKEM METALS CO
	INSTITUTE MANAGEMENT ACNTNT INC
	MIDWEST CARBIDE CORP
	NITROUS OXIDE CORP
2227	STANLEY DOHRN
2251	RAYANN WOODRUFF
2281	DANIEL CALE
2302	DORIS LIEURANCE
2324	RONALD MEYER
2334	KENNETH MERSCHBROCK
2358	PHIL OHARA
2360	JEFF OHARA

Target Street	Cross Street	Source
✓	-	Cole Information Services

CARBIDE LN 1999

100	KEOKUK MASON TEMPLE
249	KEOKUK CITY OF ANIMAL SHELTER
2227	STANLEY DOHRN
2251	STEVE CALE
2302	DORIS LIEURANCE
2324	RONALD MEYER
2334	KENNETH MERSCHBROCK
2358	PHIL OHARA
2360	JEFF OHARA

Target Street	Cross Street	Source
✓	-	Cole Information Services

CARBIDE LN 1995

0	CALE, STEVE
	KEOKUK ANIMAL SHELTER
	PROTSMAN, FRANK JR
100	KEOKUK MASON TEMPLE
111	LEE COUNTY SOLID WASTE COMM
116	INDUSTRIAL ENGINEERING EQUIP
416	GRIFFIN WHEEL CO
2227	RUNGE, TED
2281	KLEISS, J V
2324	MEYER, RONALD E
2334	HARMON, BETH
2358	OHARA, JOHN

Target Street	Cross Street	Source
✓	-	Cole Information Services

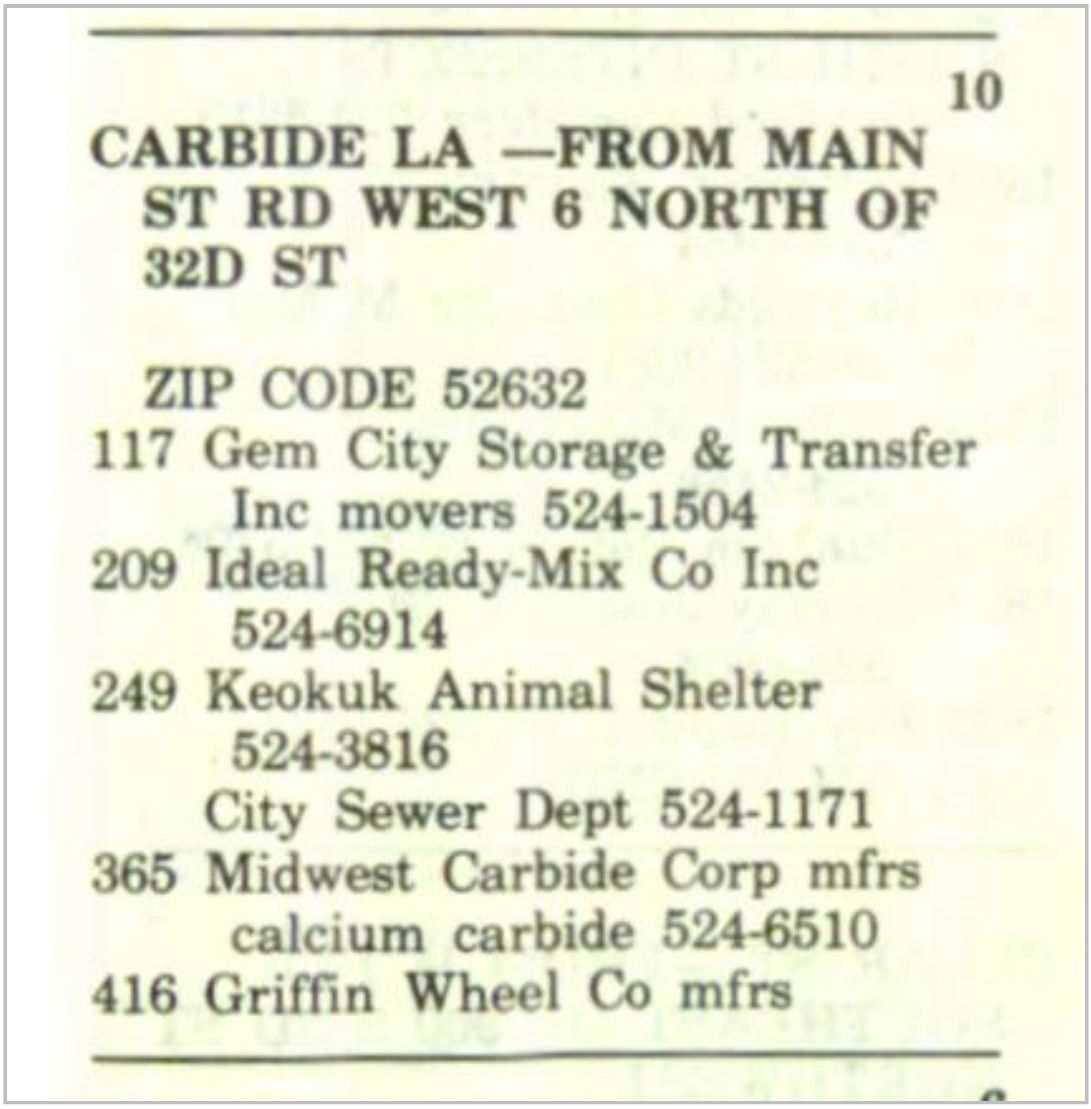
CARBIDE LN 1992

0

BURDETTE, DEAN
CALE, STEVE
LINDNER, MARVIN
OHARA, PHIL
PROTSMAN, FRANK JR
RUNGE, JOHN R
WESTERMEYER, GILBERT L

Target Street	Cross Street	Source
✓	-	Polk's City Directory

CARBIDE LN 1987



10

CARBIDE LA —FROM MAIN ST RD WEST 6 NORTH OF 32D ST

ZIP CODE 52632

117 Gem City Storage & Transfer Inc movers 524-1504

209 Ideal Ready-Mix Co Inc 524-6914

249 Keokuk Animal Shelter 524-3816

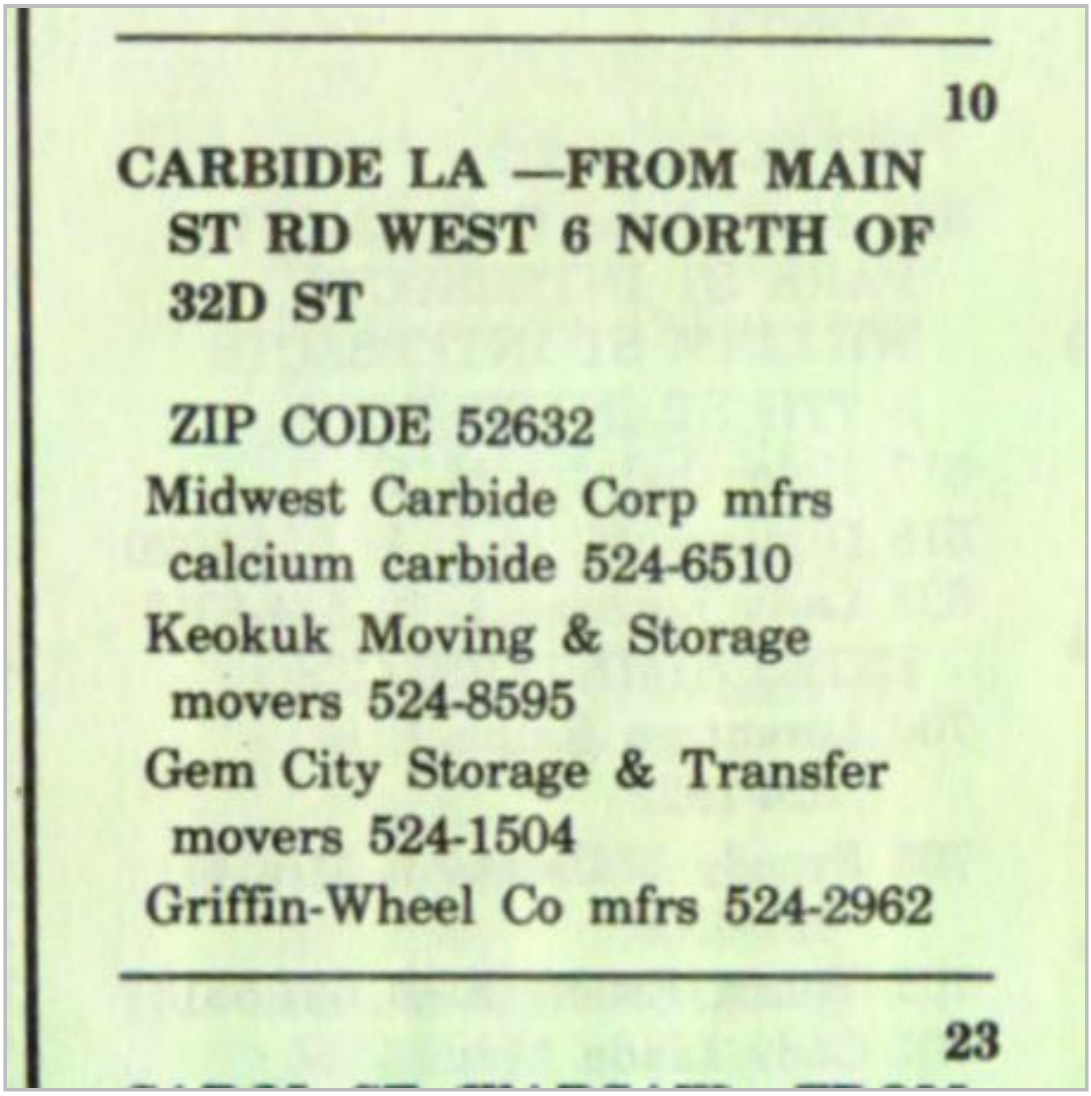
City Sewer Dept 524-1171

365 Midwest Carbide Corp mfrs calcium carbide 524-6510

416 Griffin Wheel Co mfrs

Target Street	Cross Street	Source
✓	-	Polk's City Directory

CARBIDE LN 1982



10

CARBIDE LA —FROM MAIN ST RD WEST 6 NORTH OF 32D ST

ZIP CODE 52632

Midwest Carbide Corp mfrs calcium carbide 524-6510

Keokuk Moving & Storage movers 524-8595

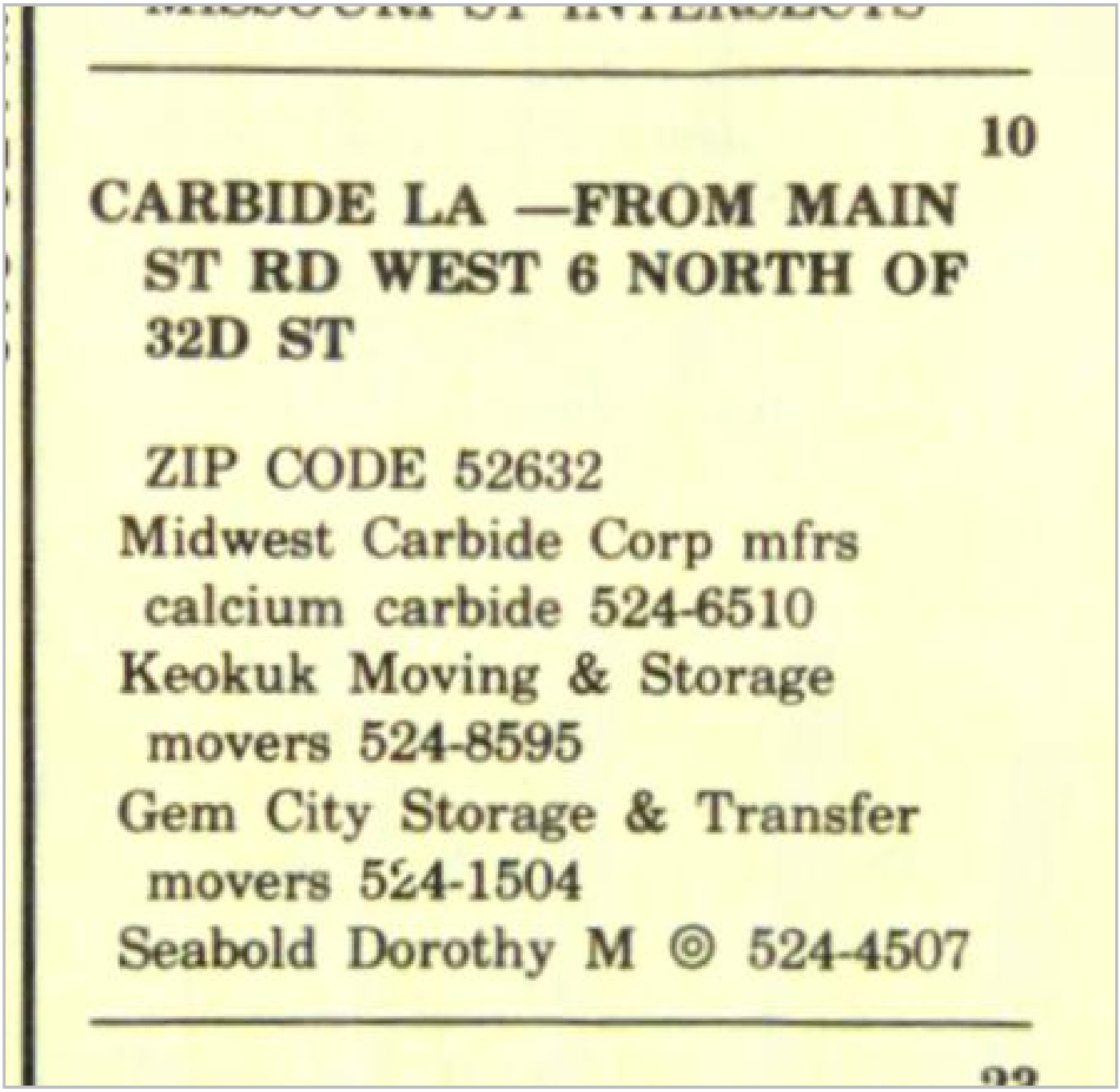
Gem City Storage & Transfer movers 524-1504

Griffin-Wheel Co mfrs 524-2962

23

Target Street	Cross Street	Source
✓	-	Polk's City Directory

CARBIDE LN 1977



10

CARBIDE LA —FROM MAIN ST RD WEST 6 NORTH OF 32D ST

ZIP CODE 52632

Midwest Carbide Corp mfrs calcium carbide 524-6510

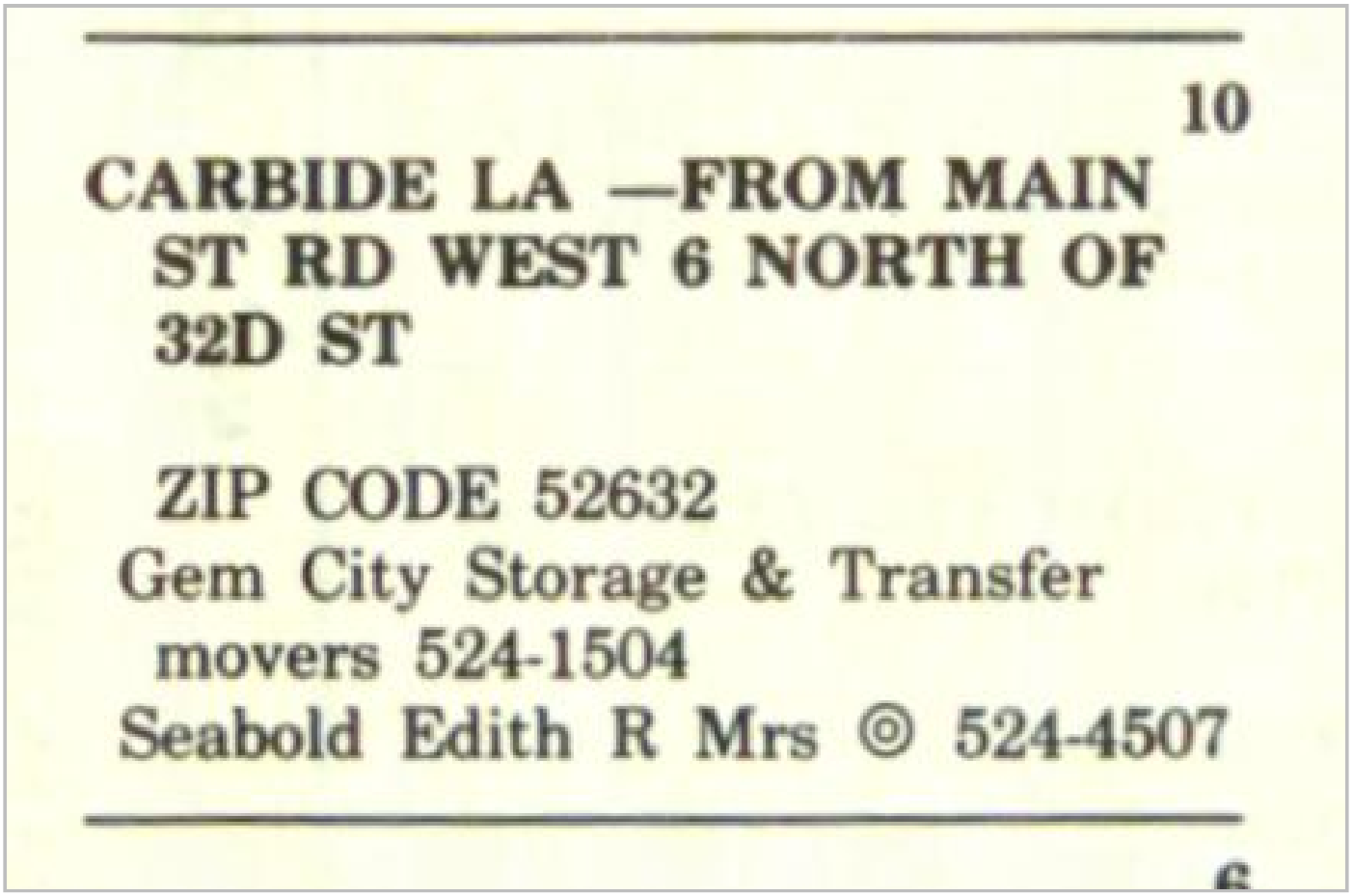
Keokuk Moving & Storage movers 524-8595

Gem City Storage & Transfer movers 524-1504

Seabold Dorothy M © 524-4507

Target Street	Cross Street	Source
✓	-	Polk's City Directory

CARBIDE LN 1972



10

CARBIDE LA —FROM MAIN ST RD WEST 6 NORTH OF 32D ST

ZIP CODE 52632

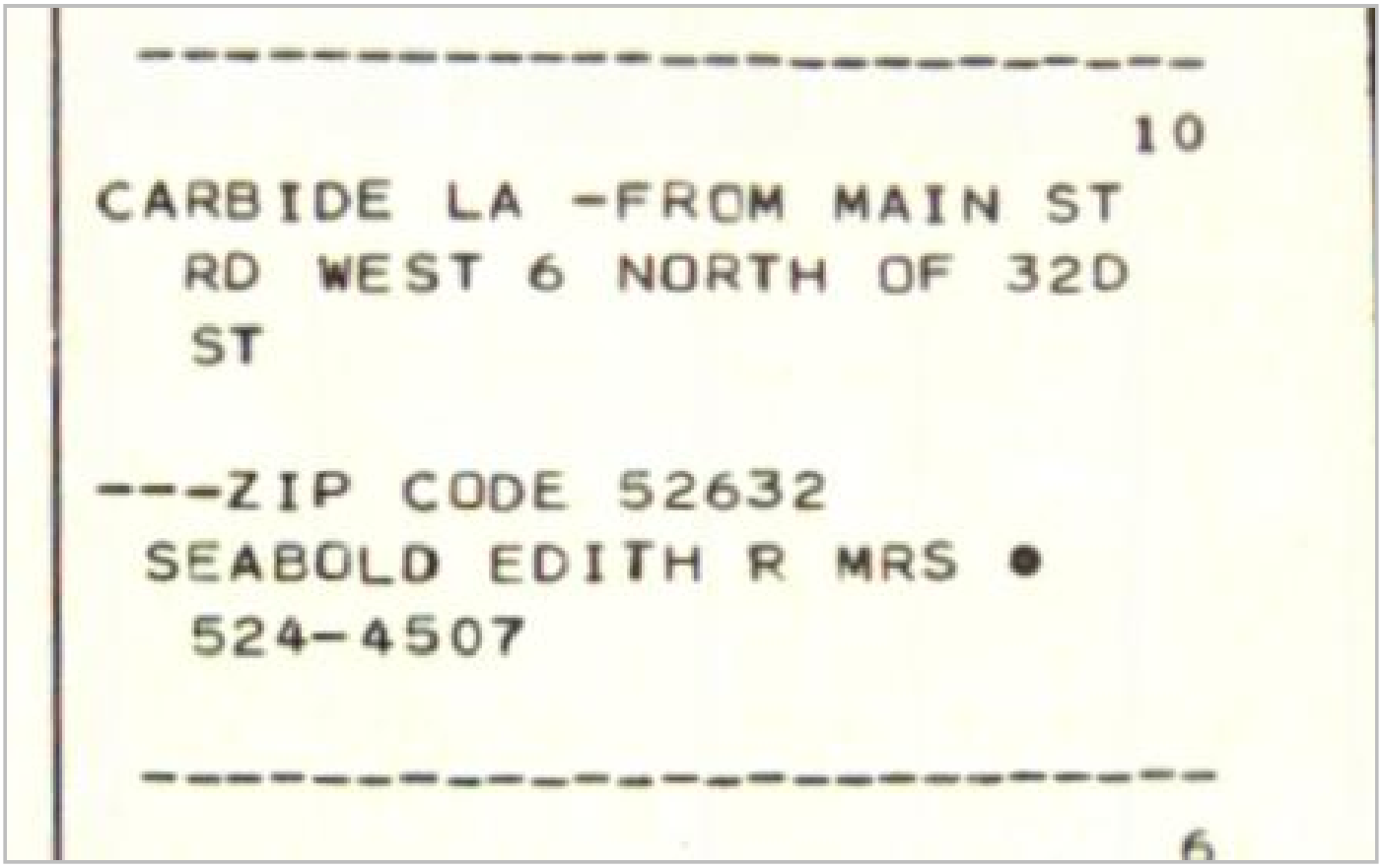
Gem City Storage & Transfer movers 524-1504

Seabold Edith R Mrs © 524-4507

6

Target Street	Cross Street	Source
✓	-	Polk's City Directory

CARBIDE LN 1967



10

CARBIDE LA -FROM MAIN ST
RD WEST 6 NORTH OF 32D
ST

---ZIP CODE 52632
SEABOLD EDITH R MRS ●
524-4507

6

Target Street	Cross Street	Source
✓	-	Polk's City Directory

CARBIDE LN 1961

10

CARBIDE LANE — From Main Street rd west to CB&QRR, 6 north of 32d

Seabold Edith R Mrs ⓪
524-4507

APPENDIX H

FILE REVIEW SUMMARIES

File Review Summaries

Document: Information Regarding Potential Releases from Solid Waste Management Units
Author: Midwest Carbide Corporation
Date: 3/21/1985
Regarding: This document is an EPA questionnaire that was completed by Midwest Carbide Corporation (MCC). MCC indicates the presence of Resource Conservation and Recovery Act (RCRA) Solid Waste Management Units (SWMUs) on the subject property (SP).

SP Feature	Finding
Landfill	A landfill on the subject property has been used since 1922 for disposal of "dusts from the furnace dust collector, carbide magnetic separator, packing room, coke drying, raw material dust collector, and flue gas dust collector, as well as wastes from gas testing residues, scrap pastes, spilled bond material, construction rubbles, and other miscellaneous solids wastes."
Calcium carbide waste piles	The facility aggregates calcium carbide wastes into piles and that are then mixed with water to render the material non-reactive/non-hazardous.
Oil water separator	An oil water separator on the SP separates oil from the facility's wastewater stream. Captured oil is reported to be returned to the manufacturing process and wastewater is discharged to the City sewer system.

Document: Hydrogeologic Investigation Report
Author: Shive-Hattery Engineers (for MCC)
Date: 1/16/1986
Regarding: This document describes an assessment of groundwater underlying the calcium carbide landfill, including the installation of monitoring wells on the SP.

SP Feature	Finding
Groundwater underlying landfill	Two aquifers are inferred beneath the landfill—the first being a sand layer occurring from 25 to 76 feet below ground surface (bgs) and the second comprised of the upper portion of the Mississippian bedrock aquifer at depths ranging from 101 to 106 bgs. The investigation assessed hydrogeological parameters only (the investigation did not include sampling for groundwater contamination).

Document: Department of Army Review of Chemical Analyses and Hydrogeologic Info
Author: US Army Corps of Engineers, Kansas City District Corps of Engineers
Date: 2/23/1987
Regarding: This document presents the Department of the Army's (DOA) evaluation of chemical and hydrogeologic analyses presented in a December 5, 1986 report.

SP Feature	Finding
Groundwater underlying landfill	DOA presents conclusion that the detection monitoring system (the groundwater monitoring well network) inadequately characterizes upgradient/background groundwater quality. The document indicates elevated radiological parameters in groundwater (gross beta average of 182 pCi/L and a gross alpha average of 122 pCi/L for well 9).

Document: Site Investigation of DT-167 Solvent Storage Area
Author: Environmental Science and Engineering, Inc. (for MCC)
Date: 11/2/1987
Regarding: This document presents results of soil sampling of the DT-167 used solvent drums storage area.

SP Feature	Finding
DT-167 Solvent Storage Area	Sampling identified dichlorobenzene in soil at concentrations requiring soil to be excavated and removed from the SP. A maximum dichlorobenzene concentration of 99.2 micrograms per gram (µg/g) is reported.

Document: Interim RCRA Facility Assessment
Author: CDM Federal Programs Corporation
Date: 12/7/1987
Regarding: This document presents results of an EPA RCRA Facility Assessment.

SP Feature	Finding
Ferrosilicate and calcium carbide wash tank (SWMU No. 1)	From 1984 until 1987, MCC would collect a ferrosilicate material into a bin that would be moved outdoors and then washed with water to react any residual calcium carbide in the material. This wash water, containing calcium hydroxide (produced by reacting calcium carbide with water) and small amounts of coke would overflow onto a nearby road bed.
Container storage yard (SWMU No. 2)	EPA observed a container storage yard in a 25- by 25-foot fenced area southwest of the facility's manifesting area. The area was used to store numerous 55-gallon drums of waste solvents, including o-dichlorobenzene and methylnaphthalene, and coal tar pitch. Some of the drums had reportedly leaked and contaminated soil in the storage yard.
Coal tar pitch pumping area (SWMU No. 3)	The facility used coal tar pitch which was stored in five above ground storage tanks supported on concrete pillars. During the assessment, coal tar pitch was observed on the ground beneath the storage tanks. The purchased pitch product was reportedly derived from a coking operation and reported to contain mostly aromatic hydrocarbons and some phenols.
Working coke pile (SWMU No. 4)	The facility stored coke in a pile directly south of the carbide furnace building. At the time of the assessment, the coke pile encompassed an area of approximately 10,000 square feet. The pile had reportedly been in use from before 1940. An unbermed concrete pad underlay the pile. The investigator reported that surface water runoff from the coke pile enters a nearby storm sewer that discharges to Soap Creek.
API Separator System (SWMU No. 5)	An API oil/water separator was installed in 1975 to recover oil from wastewater that is generated when water is sprayed onto paste blocks that have been removed from oil-coated molds. Oil recovered in the separator was skimmed and pumped into an AST. The API oil separator is an in-ground fiberglass tank construction surrounded on three sides by concrete dike. The EPA inspector observed that soil around the separator had been contaminated with oil and also observed that soil beneath the associated recovered oil AST was "heavily saturated with oil."
Coal stock pile (SWMU No. 6)	The facility stored "pre-washed anthracite coal (green coal)" in a large pile east of the coal calciner furnace building. The base of the pile is earthen and covered approximately 62,500 square feet. The EPA inspector indicated storm water runoff from the pile would likely enter a storm sewer and eventually discharge into Soap Creek.
Coke stock pile (SWMU No. 7)	The facility stored coke in a storage pile covering approximately 22,500 square feet created on a parking lot constructed of "gravel or oil and chip." The EPA inspector indicated storm water runoff from the pile would likely enter a sewer system that eventually discharged to Soap Creek.
Landfill (SWMU Nos. 8, 9, and 10)	Three SWMUs on the eastern portion of the subject property related to landfilling calcium carbide wastes are identified: (1) a "carbide lime pile" (SWMU No. 8), (2) an "active landfill" (SWMU No. 9), and (3) an "inactive landfill" (SWMU No. 10). At the time of the assessment, MCC had was using a treatment pile created for stabilizing waste calcium carbide (presumably allowing it to react with atmospheric moisture and rain). The stabilized waste would then be disposed in the active landfill. The "inactive landfill"—a landfilled area that had been closed and covered at the time of the assessment—had

	reportedly been used as early as 1914. Other waste materials landfilled reportedly included spilled coal tar pitch, coal dust, and sweepings from the carbon block plant. Previous sampling of the landfill and areas downgradient of the landfill are noted and reportedly identified "significant levels of metals and organics in sediment from the runoff of the landfill."
Storm sewer system/Soap Creek	The assessment report cites a previous report that describes a June 25, 1971 permit application for an outfall of a storm sewer system that discharged into Soap Creek. The sources of wastewater reportedly included sanitary sewage, laboratory wastes, contact cooling water from the paste block production area, lime sludge, and general drainage from the manufacturing area and storage piles at the facility. In September 1974, the facility reportedly connected with the city sewer system for disposal of its sanitary wastes, and, in October 1975, the facility installed an API oil separator which allowed the city to direct its contact cooling water from the Soap Creek outfall to the city's sanitary sewer system. The assessment report also includes analytical data reports from previous sediment sampling from Soap Creek; the analytical results are difficult to discern due to poor reproduction quality; however, it's apparent that some sediment samples contained elevated PAH concentrations.

Document: Removal Action Report at DT-167 Solvent Storage Area
Author: Environmental Science and Engineering, Inc. (for MCC)
Date: 2/9/1988
Regarding: This document describes the remediation of the DT-167 solvent storage area.

SP Feature	Finding
DT-167 Solvent Storage Area	In January 1988, a contractor for MCC conducted a removal action at the DT-167 solvent storage area, excavating contaminated soil and transporting it offsite to a disposal facility. Following excavation, soil samples were collected to confirm effectiveness of remediation. The report presents results for a first round of sample results (results for the other samples were presented in a subsequent March, 9, 1988 repot). Remnant concentrations of dichlorobenzene (0.04 to 0.27 µg/g) and chlorobenzene (less than 0.3 to 0.07 µg/g) were detected in this first round of confirmation samples. These concentrations were below the allowable soil limits established during the removal action (2,550 µg/g for o-dichlorobenzene and 500 µg/g for chlorobenzene).

Document: Documentation of Clean Closure of the DT-167 Solvent Storage Area
Author: Environmental Science and Engineering, Inc. (for MCC)
Date: 3/17/1988
Regarding: This document describes the remediation of the DT-167 solvent storage area and presents the complete closure sample results.

SP Feature	Finding
DT-167 Solvent Storage Area	The report presents a basis for a proposed "clean closure" status of the DT-167 solvent storage area following the January 1988 removal action. The report includes the complete closure sample results. Overall, o-dichlorobenzene in the closure soil samples ranged from less than detection levels to 0.60 µg/g and chlorobenzene concentrations ranged from less than detection levels to 0.07 µg/g. These concentrations were below the allowable soil limits established during the removal action (2,550 µg/g for o-dichlorobenzene and 500 µg/g for chlorobenzene).

Document: Comprehensive Monitoring Evaluation
Author: Jacobs Engineering Group, Inc. (for EPA Region 7)
Date: 3/16/1988
Regarding: This document presents a RCRA Comprehensive Monitoring Evaluation (CME) that included an assessment of MCC's groundwater monitoring program.

SP Feature	Finding
Groundwater underlying landfill – elevated radiological parameters	The report discusses the previous detection of elevated gross alpha and gamma parameters in groundwater samples collected from both upgradient and downgradient wells. Discussion in the report hypothesizes that the elevated radiological parameters could be due to naturally occurring material within the aquifer, and indicates that elevated levels are not consistent with waste characteristics of the facility.
Groundwater underlying landfill	The groundwater monitoring system was sampled as part of the CME. The report indicates "elevated" levels of sulfates, total organic carbon (TOC), total organic halides (TOX), cadmium, chromium, and gross alpha, but concluded that there was insufficient information to conclude if the elevated measurements were related to the landfill or from naturally occurring groundwater conditions.

Document: Calcium Carbide Treatment Area Closure Plan (Ground Water Quality Assessment Plan)
Author: Environmental Science and Engineering, Inc. (for MCC)
Date: 4/20/1988
Regarding: MCC presents a plan for clean closure of the "calcium carbide treatment area"—the area landfilled with calcium carbide and other wastes, including the areas previously referred to as the "inactive landfill," "active landfill", and the "carbide lime treatment pile."

SP Feature	Finding
Landfill	The closure plan indicated an estimated 175,000 cubic yards of waste material has been landfilled and lists an anticipated last date of use of June 1984.

Document: RCRA Facility Assessment Report
Author: CDM Federal Program Corporation (for EPA Region 7)
Date: 7/11/1988
Regarding: The report documents a RCRA Facility Assessment conducted to identify and evaluate information regarding releases from solid waste management units (SWMUs).

SP Feature	Finding
Ferrosilicate and calcium carbide wash tank (SWMU No. 1)	Areas of grey deposition were observed on the ground near the Ferrosilicate and Calcium Carbide Wash Water Tank. A surface soil sample containing material that appeared to originate from the wash area was collected for metals and cyanide analysis. The report indicates the sample exhibited lead (600 mg/kg) and cadmium (64 mg/kg) at concentrations significantly greater than the background soil concentration.
Coal tar pitch pumping area (SWMU No. 3)	A sludge sample obtained from beneath the coal tar pitch bond tank exhibited elevated PAH (including a benzo(a)pyrene concentration of 610 mg/kg) and metals concentrations.
Working coke pile (SWMU No. 4)	No soil sample was collected from the area because the area was covered in gravel and coal cinders.
API Separator System (SWMU No. 5)	A sample obtained from soil adjacent to the separator exhibited elevated PAH, copper, and lead. A sludge sample obtained from a diked area beneath the aboveground oil storage tank also exhibited elevated PAH and metals.
Coal stock pile (SWMU No. 6)	A soil sample was collected from a drainage feature extending from the base of the coal stock pile and analyzed for total metals and cyanide. Aluminum, cobalt, cooper, nickel, and vanadium were detected above background levels.

Coke stock pile (SWMU No. 7)	A soil sample was collected from a drainage feature extending from the base of the coke stock pile and analyzed for total metals and cyanide. Lead was detected at a concentration of 18 mg/kg.
Landfill (SWMU Nos. 8, 9, and 10)	Elevated pH (between 12 and 13 standard units) phenol constituents, metals, and PAHs were detected in leachate and sediments affected by the landfill.
Storm sewer system/Soap Creek	Elevated concentrations of lead and zinc were detected in a sediment sample collected below the storm sewer outfall. A downstream water sample from Soak Creek had an elevated lead concentration (0.25 ppm); lead was not detected in an upstream Soap Creek water sample. High concentrations of PAHs and lead were detected in a downstream sediment sample of Soap Creek.

Document: Transmittal of Sampling Data
Author: EPA Region 7
Date: 3/20/1989
Regarding: This EPA memorandum contains laboratory analytical results for split samples obtained by EPA during landfill closure sampling. Samples were obtained from the landfilled material via soil borings.

SP Feature	Finding
Landfill	Laboratory analysis characterizes contaminant concentrations of the landfilled waste. Contaminants including lead and PAHs were detected in the wastes.

Document: Final Report Clean Closure of the Calcium Carbide Treatment Area
Author: Hunter/ESE, Inc. (for MCC)
Date: June 1989
Regarding: The report documents actions undertaken to complete the clean closure of the calcium carbide treatment area (landfill). Samples from the landfill were collected via soil boring and submitted for laboratory analysis to characterize the landfill material.

SP Feature	Finding
Landfill – installation of cover	Beginning in January 1989, grading of the landfill was conducted to create stable slopes and a soil cover over the landfill was installed; these activities were completed in May 1989.
Landfill – presence of cyanide	Report indicates that historically cyanide had been a contaminant of concern for the waste materials after a June 1984 analysis indicated concentrations has high as 32 mg/kg in residues of reacted calcium carbide materials. However, cyanide was not detected in the eight landfill samples collected in June 1988.
Landfill – presence and leaching potential of coal tar pitch constituents and metals	Sampling of the landfill material established the presence of coal tar pitch constituents (primarily PAH) and elevated metals. A leaching analysis was performed on the landfill samples. Based on a comparison of leachable concentrations exhibited by landfill and subsoil samples to EPA Maximum Concentration Levels (MCL) drinking water standards, the facility concluded that coal tar pitch constituents (including PAH and metals) in the landfill material do not raise concerns regarding possible groundwater impact.

Document: Review of Groundwater Monitoring Portion of Clean Closure Report **Author:** EPA Region 7 **Date:** 10/27/1989 **Regarding:** EPA's assessment of the facility's groundwater monitoring system based on information from the June 1989 clean closure report prepared by Hunter Environmental Services for MCC.	
SP Feature	**Finding**
Groundwater underlying landfill	Based on information presented in the June 1989 clean closure report, an EPA geologist concluded that "Midwest Carbide has adequately demonstrated that hazardous waste or hazardous waste constituents have not impacted the groundwater underlying their Keokuk facility."

Document: Letter to Midwest Carbide Corporation Regarding Calcium Carbide Treatment Area Closure **Author:** EPA Region 7 **Date:** 11/22/1989 **Regarding:** EPA accepts closure certification.	
SP Feature	**Finding**
Landfill – regulatory status	EPA notifies MCC that the agency has accepted the facility's closure certification and that the facility is no longer required to conduct groundwater monitoring under 40 CFR Part 265 Subpart F.

Document: Compliance Monitoring Inspection Report **Author:** EPA Region 7 **Date:** 5/3/1990 **Regarding:** Inspection of the facility performed by the EPA RCRA Monitoring Section. No compliance issues were noted in the report.	
SP Feature	**Finding**
Groundwater underlying landfill – monitoring well closure	MCC personnel reported to the EPA inspector that the facility was in the process of plugging all monitoring wells associated with the closed landfill.

Documents: Phase I and II Environmental Site Assessments
Author: Terracon Consultants, Inc. (for Southeast Iowa Regional Planning Commission)
Date: 7/2/2009 (Phase I) and 4/28/2010 (Phase II)
Summary: A Phase I and II was completed as part of an EPA 7 Brownfields Assessment Grant project.

SP Feature	2009 Phase I ESA Finding	2010 Phase II ESA Finding	2012 Site Sampling Finding	REC Indicated?
Historical industrial development (REC 1)	Historical industrial development and former site activities indicate a REC.	Polycyclic aromatic hydrocarbon (PAH) soil concentrations exceeding Iowa statewide soil standards were found at multiple locations across the subject property (SP) (see sampling results for locations **B-8**, **B-13**, **B-25**, **B-26**, **B-38**, **B-48**, and **B-53**). Lead was also identified at one location (**B-8**) at a concentration exceeding the Iowa statewide soil standard.	PAH, lead, and arsenic concentrations exceeding EPA Regional Screening Levels (RSL) were identified in multiple samples. Groundwater sampling identified chlorinated VOCs (location **005**, collected at approximate center of manufacturing area of SP). Groundwater concentrations of *cis*-1,2-dichloroethene exceeded the EPA maximum contaminant level (MCL). Trichloroethene, 1,2-dichloroethane, and vinyl chloride were also detected in the sample.	**Yes.** PAH, lead, and arsenic soil concentrations exceed soil screening values. Chlorinated VOCs detected in groundwater.
Landfill (REC 2)	The closed landfill on the eastern portion of the site that historically received calcium carbide wastes, electrode paste, anthracite coal, and other waste materials as a REC.	One groundwater sample was collected in the landfill area (**B-56**) and was non-detect for VOCs, SVOCs, and PAHs. Only barium was detected in an analysis for RCRA metals and the detected concentration did not exceed site-specific Iowa groundwater standards.	One groundwater sample was collected from the landfill area (**015**) and was non-detect for VOCs, SVOCs (except for diethyl phthalate, a common laboratory contaminant), and cyanide. Metals analysis detected cadmium at a concentration exceeding the EPA MCL; however, the groundwater sample was unfiltered and the cadmium concentration may be attributable to naturally occurring cadmium concentrations.	**Yes.** Previous landfilling was identified and appears to meet the definition of a controlled REC (CREC) based on the regulatory acceptance of the previous "clean closure."
Coal tar pitch tank area (REC 3)	Past releases from the coal tar pitch tanks are identified as a REC.	Shallow (0 – 2 ft) and subsurface (6 – 8 ft) soil samples were collected from this area (**B-8**). PAHs and lead were detected in the shallow sample at concentrations exceeding Iowa statewide soil standards. The subsurface soil sample did not exceed the Iowa standards.	Soil samples **006**, **007**, and **008**, collected in the area of the former coal tar pitch tanks exhibited PAH concentrations exceeding residential and industrial worker EPA RSLs. In addition, lead and arsenic in soil samples **006** and **007** exceeded residential and industrial worker EPA RSLs.	**Yes.** PAH, lead, and arsenic concentrations exceed soil screening values.
Oil/water separator and adjacent AST (REC 4)	A former oil/water separator and an adjacent above ground storage tank (AST) used to store recovered oil were identified as an REC.	Except for benzo(a)pyrene, soil sample **B-26** (0 to 2 ft) collected from this area did not exhibit VOC, SVOC, RCRA metals, or total extractable hydrocarbon (TEH) concentrations exceeding Iowa statewide soil standards. An attempt was made to sample groundwater at this location; however, groundwater was not encountered.	PAH and lead concentrations exceeding residential and industrial EPA RSLs were detected in shallow (0 to 2 ft) and subsurface (2 to 4 ft) soil samples collected from this area (location **009**). USGS attempted to sample groundwater at this location; however, groundwater was not encountered.	**Yes.** PAH and lead concentrations exceed soil screening values.
Coal stockpile (REC 5)	A former coal stock pile was identified as a REC.	PAH concentrations exceeding Iowa statewide soil standards were detected in shallow soil samples (0 to 2 ft) from locations **B-38** and **B-48**.	Soil samples **010**, **011**, and **012**, collected in the area of the former coal pile exhibited PAH at concentrations exceeding residential and industrial worker EPA RSLs.	**Yes.** PAH concentrations exceed soil screening values.
Storm sewer (REC 6)	The storm sewer system that had been previously identified as a Solid Waste Management Unit by EPA was identified as an REC.	A sediment sample (**B-57**) was collected from a storm water sewer outfall location; the sample did not exhibit VOCs, BTEX, PAHs, or TEH exceeding Iowa statewide soil standards.	Sediment sample **016** collected from Soap Creek at the point of a storm sewer outfall exhibited PAH concentrations exceeding residential and industrial RSLs.	**Yes.** PAH concentrations is sediment exceed soil screening values.
Soap Creek (REC 7)	The Soap Creek area of concern that had been previously identified as a Solid Waste Management Unit by EPA was identified as an REC.	Sediment samples **B-63** and **B-65** collected from Soap Creek did not exhibit VOC, SVOC/PAH, RCRA metals, or cyanide concentrations exceeding Iowa statewide soil standards.	Sediment samples **016** and **019** collected from Soap Creek exhibited PAH concentrations exceeding residential and industrial EPA RSLs.	**Yes.** PAH concentrations in sediment exceed soil screening values.
Release from non-PCB transformer near calcine furnace (REC 8)	A reported spill of non-polychlorinated biphenyl (PCB) containing transformer oil occurring on December 21, 2000 is identified as an REC. The spill reportedly occurred from a transformer tank near the calcine furnace, and the spilled material reportedly entered a drain that discharged into Soap Creek.	The only samples collected during the Phase II that potentially characterize this release are the sediment samples collected from Soap Creek (**B-63** and **B-65**), which did not exhibit contaminant concentrations exceeding Iowa statewide standards. The sediment samples were not analyzed for PCBs. Shallow soil sampling at the reported spill location near the calcine furnace was not conducted during the Phase II.	Sediment samples **016** and **019** collected from Soap Creek exhibited PAH concentrations exceeding residential and industrial RSLs; however, the PAH concentrations may be unrelated to the past release from the transformer tank. The shallow soil sample **012** appears to have been collected in the area of the reported spill; this soil sample exhibited PAH concentrations exceeding residential and industrial EPA RSLs. No sampling for PCBs was performed.	**Yes.** Soil in the reported area of the spill has not been assessed for PCBs.

SP Feature	2009 Phase I ESA Finding	2010 Phase II ESA Finding	2012 Site Sampling Finding	REC Indicated?
Former USTs (REC 9)	North side of carbon block plant	PAH concentrations exceeding Iowa statewide soil standards were detected in a shallow soil sample (0 to 2 ft) from location **B-13**. Deeper soil samples were not collected.	*Not assessed.*	**Yes.** PAH concentrations exceed soil screening values.
	Former USTs in area of O/W separator	PAH concentrations exceeding Iowa statewide soil standards were detected in a shallow soil sample (0 to 2 ft) from locations **B-25** and **B-26**. Deeper soil samples were not collected.	PAH and lead concentrations exceeding residential and industrial EPA RSLs were detected in a shallow (0 to 2 ft) and subsurface (2 to 4 ft) soil samples collected from this area (location **009**). Groundwater sample **005** collected nearby exhibited chlorinated VOCs.	**Yes.** PAH and lead concentrations exceed soil screening values. Chlorinated VOCs detected in groundwater sample.
	Former USTs east side of container storage building	Soil sample **B-19** (0 to 2 ft) collected from this area did not exhibit BTEX, PAHs, or TEH concentrations exceeding Iowa statewide soil standards.	PAH concentrations exceeding residential and industrial RSLs were detected in a surficial (0 to 2 ft) and subsurface (2 to 4 ft) soil samples collected from this area (location **002**).	**Yes.** PAH concentrations exceed soil screening values.
Adjacent Property – Griffin Wheel Foundry Landfill (REC 10)	A foundry sand landfill identified on the Griffin Wheel Foundry property to the north is identified as an REC.	Soil sample **B-53** (0 to 2 ft) collected along the north property boundary exhibited benzo(a)pyrene (a PAH) concentration exceeding Iowa statewide soil standards. An attempt was made to sample groundwater at this location; however, groundwater was not encountered.	*Not assessed. USGS attempted to collect a groundwater sample at the north side of the subject property; however, groundwater was not encountered.*	**Yes.** PAH concentrations exceed soil screening values.
Oil staining and sheen on water in trench adjacent to compressor (REC 11)	Oil straining was observed on concrete near two air compressors in the northwest corner of the Paste Block structure. Standing water in an adjacent trench drain had a heavy oil sheen. This apparent release was identified as an REC.	*Not assessed. Trench water was frozen and a sample could not be collected.*	*Not assessed.*	**Yes.** The previously identified oil sheen indicates a potential release occurred.
Former hydraulic lift adjacent to Maintenance Shop (REC 12)	The key site manager identified a hydraulic lift located adjacent to and northeast of the Maintenance Shop. The above grade portions of the lift were removed in 2003; however, the status of the below grade features, including a hydraulic fluid reservoir was not known.	Soil sample **B-5** (0 to 2 ft) collected to assess this area did not exhibit metals, PAH, or TEH concentrations exceeding Iowa state standards. Deeper soil samples were not collected. An attempt was made to sample groundwater at this location; however, groundwater was not encountered.	*Not assessed.*	**Yes.** A potential release could have occurred from the former hydraulic lift.
Former waste water pit near acid storage and handling adjacent to cooling towers (REC 13)	A former concrete lined pit north of the Maintenance Shop held manufacturing process water that was treated and reused. An acid treatment structure was also located nearby adjacent to the cooling towers.	*Not assessed. An attempt to collect groundwater in this area was not successful.*	Chlorinated VOCs were detected in groundwater sample **005** (collected at approximate center of manufacturing area of SP and in the vicinity of the former waste water pit). Concentrations of *cis*-1,2-dichloroethene exceeded the EPA maximum contaminant level (MCL). Trichloroethene, 1,2-dichloroethane, and vinyl chloride were also detected in the sample.	**Yes.** Chlorinated VOCs detected in groundwater.
560-gallon diesel AST with sheen on water in containment structure (REC 14)	A 560-gallon diesel AST within concrete containment was observed east of the carbide container warehouse. A sheen was observed on water inside the containment. This AST was identified as an REC.	Soil sample **B-19** (0 to 2 ft) collected from this area did not exhibit BTEX, PAHs, or TEH concentrations exceeding Iowa statewide soil standards (*this soil sample also characterized the former UST located in this area—see REC 9*).	PAH concentrations exceeding residential and industrial RSLs were detected in a surficial (0 to 2 ft bgs) and subsurface (2 to 4 ft bgs) soil samples collected from this area (location **002**). *This soil sample also characterized the former UST located in this area—see REC 9*).	**Yes.** PAH concentrations exceed soil screening values.
Acid Treatment Shed (REC 15)	Staining observed on ground surface indicated an apparent release of hydrochloric acid.	*Not assessed. Based on the location of the acid treatment shed observed during the 2/8/16 site reconnaissance by Tetra Tech and locations of previous samples, it appears no samples have been collected in the immediate vicinity of the acid storage shed.*	*Not assessed.*	**Yes.** Previous observations indicated an apparent release of hydrochloric acid.
Former diesel and gasoline ASTs adjacent to and south of Lab Building (REC 16)	Former diesel and gasoline ASTs were reportedly located south of the Lab Building. The key site manager reported that monitoring wells had historically been located near the ASTs.	Except for benzo(a)pyrene, soil sample **B-26** (0 to 2 ft) collected from this area did not exhibit VOC, SVOC, RCRA metals, or TEH concentrations exceeding Iowa statewide soil standards. An attempt was made to sample groundwater at this location; however, groundwater was not encountered.	PAH and lead concentrations exceeding residential and industrial RSLs were detected in a shallow (0 to 2 ft) and subsurface (2 to 4 ft) soil samples collected from this area (location **009**). USGS attempted to sample groundwater at this location; however, groundwater was not encountered.	**Yes.** PAH and lead concentrations exceed soil screening values.
Staining near 55-gallon petroleum barrels in Maintenance Shop (REC 17)	Staining was observed on the ground surface around 55-gallon drums of hydraulic oil in the machine shop.	Soil sample **B-2** (0 to 2 ft) collected from this area did not exhibit BTEX, PAH, or TEH concentrations exceeding Iowa statewide soil standards. An attempt was made to sample groundwater at this location; however, groundwater was not encountered.	PAH and arsenic concentrations exceeding residential and industrial RSLs were detected in shallow (0 to 2 ft bgs) and subsurface (2 to 4 ft bgs) soil samples collected from this area (location **004**).	**Yes.** PAH and arsenic concentrations exceed soil screening values.
Stained soil near Carbon Block Plant (REC 18)	Staining was observed east and south of the Carbon Block Plant.	Soil sample **B-49** (0 to 2 ft), collected east of the Carbon Block Plant, did not exhibit RCRA metals concentrations exceeding Iowa statewide soil standards. The sample was not analyzed for VOCs, SVOCs, or PAHs.	PAH and arsenic concentrations exceeding residential and industrial RSLs were detected in a shallow (0 to 2 ft bgs) soil sample collected east of the Carbon Block Plant (location **004**). USGS attempted to sample groundwater at this location; however, groundwater was not encountered.	**Yes.** PAH and arsenic concentrations exceed soil screening values.

APPENDIX I

RESUMES

TETRA TECH

Joann Jeplawy
Environmental Scientist

EXPERIENCE SUMMARY

Ms. Jeplawy is an Environmental Scientist with a wide range of experience. She has significant experience in dealing with hazardous materials, specifically asbestos and lead based paint. She has conducted multiple hazardous materials surveys, varying in size and scope. She also has Phase I and II ESA experience.

RELEVANT EXPERIENCE

Private Well Water Sampling, Nebraska Department of Environmental Quality , Norfolk, NE, 2015

Ms. Jeplawy participated in the sampling and evaluation of volatile organic compounds contamination in residential private well water in Norfolk, NE. Tasks involved collecting water samples, communicating with residents, and sample preparation.

Phase I Environmental Site Assessment Services

Ms. Jeplawy has completed multiple Phase I ESAs for various commercial and government clients including, AMC Entertainment, Nebraska Department of Environmental Quality and the Unified Government of Wyandotte County. Each Phase I ESA included an on-site assessment followed by a detailed records review of the site.

Hazardous Materials Survey, Armory and Depot Site, Burlington, IA, 2015

Ms. Jeplawy assisted with an asbestos and lead-based paint inspection at the Burlington, IA Armory and Depot Site. Tasks included sampling plan development, sample collection and analysis, implementation of a material damage ranking, and field documentation.

Stormwater Sampling, Ford Motor Company Kansas City Plant, Claycomo, Missouri, 2015

Ms. Jeplawy is part of a field sampling team that performs quarterly stormwater and wastewater sampling at the Ford Motor Company Kansas City Plant. Tasks included organizing laboratory services, sample collection and analysis, and field documentation.

Risk Assessment Services

Ms. Jeplawy assisted with multiple Environmental and Human Health Risk Assessments for various Superfund sites. Tasks include threatened and endangered species habitat analysis, soil classification, risk characterization, and development of conceptual site models.

EDUCATION

B.S., Natural Resources, Central Michigan University, 2014

Minor, Spanish, Central Michigan University, 2014

AREAS OF EXPERTISE

Phase I ESAs

Asbestos, Lead-Based Paint

Environmental Sampling

KEY TRAINING/ CERTIFICATIONS

40-hour OSHA HAZWOPER with 8-hour Refreshers

CPR and Wilderness First Aid

AHERA Asbestos Inspector

OFFICE

Kansas City, MO

CONTACT

816-412-1748

joann.jeplawy@tetratech.com

ADDITIONAL EXPERIENCE

MS Excel, MS Word, MS Outlook, MS PowerPoint, and ArcGIS

EMPLOYMENT HISTORY

2014 - Present Environmental Scientist, Tetra Tech, Kansas City, Missouri

TETRA TECH

David A. Zimmermann, CHMM
Program Manager

EXPERIENCE SUMMARY

Mr. Zimmermann's 28 years of environmental experience have been primarily in support of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) remedial program and Resource Conservation and Recovery Act (RCRA) programs. He has been employed as an environmental scientist with Tetra Tech, Inc. for over 23 years. He has extensive knowledge of the Superfund and RCRA programs and has conducted numerous preliminary assessments (PAs), site investigations (SI), brownfields assessments, removal assessments, remedial investigations, and hazard ranking system (HRS) documentation projects. He has used this experience as an instructor under the EPA Office of Solid Waste and Emergency Response (OSWER), Technology Transfer and Training Support contract where he has delved numerous training classes on the HRS and PA/SI process.

Mr. Zimmermann has managed two separate CERCLA services contracts for the U.S. Forest Service Alaska Region.
Mr. Zimmermann served as deputy program manager for a general environmental services contract with the National Oceanic and Atmospheric Administration (NOAA) and was program manager for Brownfield's assessment contract for the Unified Government of Wyandotte County/Kansas City Kansas. Currently he is site assessment manager for a multi-million dollar Superfund Technical Assessment and Response Team (START) contract for EPA Region 7, program manager for an environmental engineering services contract for the Nebraska Department of Environmental Quality (NDEQ), and program manager for an environmental services contract with the city of Kansas City Missouri.

EDUCATION

B.A., Environmental Studies, University of Kansas, 1987

AREAS OF EXPERTISE

Project Management

Site Characterization

Training

REGISTRATIONS/ AFFILIATIONS

2001-2006, Certified Hazardous Materials Manager

Society of American Military Engineers, Associate.

KEY TRAINING/ CERTIFICATIONS

40-hour OSHA HAZWOPER, 1987 and subsequent annual 8-hour Refreshers

CPR and Standard First Aid

Incident Command System 100, 200

OFFICE

Kansas City, MO

YEARS OF EXPERIENCE

27

CONTACT

816.412.1788

Dave.Zimmermann@tetratech.com

RELEVANT EXPERIENCE

Management Experience

Mr. Zimmermann has the proven ability to manage complex Superfund projects, coordinate multidisciplinary teams on concurrent projects, manage team firms, procure subcontractors, and track and report on administrative and financial issues. From 1991 to 1993, Mr. Zimmermann managed the federal facilities' site assessment project under the Technical Enforcement Support (TES) 12 contract. This $630,000 project consistently received above average performance evaluation review scores from the Region 10 EPA work Assignment Manager (WAM).

From September 1993 to March 1997, Mr. Zimmermann served as program manager for the $1.5 million CERCLA Services Contract with the Forest Service in Juneau, Alaska. Work was conducted at sites within the Chugach and Tongass National Forests in remote southeast Alaska.

Contract activities consisted of site discovery investigations, preliminary assessments, site investigations, removal assessments, removal action engineering designs, legal and litigation investigations, and identification of natural resource damage assessment issues. Mr. Zimmermann prepared budgets and work plans; negotiated subcontracts and coordinated with three team firms; procured subcontractor services pursuant to Federal Acquisition Regulations; selected, coordinated, and organized field and project teams; reported and tracked financial information; communicated with the client; and presented data reports, conclusions, and recommendations. After completing the first contract, the USDA Forest Service issued a solicitation for hazardous materials and environmental engineering services. The contract was a 3-year, IDIQ/FFP contract with a $2,000,000 capacity. Due in part to the superior work conducted on the previous contract, Tetra Tech was awarded this follow-up contract with Mr. Zimmermann as program manager until he relocated to the Tetra Tech office in Kansas City.

In Kansas City, Mr. Zimmermann gained additional program manager experience after Tetra Tech was awarded a 10-million dollar IDIQ/FFP contract with NOAA. Mr. Zimmermann served as deputy contract manager for this activity with responsibilities that include: conflict of interest screening, subcontractor management, client communication, project staffing, and nationwide project coordination.

Mr. Zimmermann currently serves as site assessment manager for the EPA Region 7 START contract. In this capacity he coordinates all pre-remedial investigations, provides technical support and oversight, reviews all documents for adequacy and accuracy, and provided training to program staff. Mr. Zimmermann is also Program Manager for a CPFF contract with NDEQ and a similar contract with the city of Kansas City, Missouri. Mr. Zimmermann has provided continuous program management support to NDEQ through 4 sequential contracts since 2001.

Technical Experience - CERCLA

Mr. Zimmermann has 28 years of experience directly related to managing and conducting CERCLA site assessments. This experience includes conducting PAs and all forms of SIs, and applying the HRS throughout the site assessment process. He has also lead teams in the performance of remedial investigations and feasibility studies (RI/FS). Through his experience on the FIT, TES 12, and U.S. Forest Service CERCLA Services, NDEQ, and START contracts, he has managed or conducted investigations of literally hundreds of sites. Mr. Zimmermann has sampled all media including surface and subsurface soil, sediment, surface water, groundwater, soil vapor, ambient air, drums, and biota, and is familiar with many of the applicable standard operating procedures. He has direct experience conducting geophysical investigations (ground-penetrating radar, EM-31 and EM-34, seismic refraction, magnetometer), Geoprobe™, and environmental drilling projects. He has written numerous work plans, health and safety plans, investigation-derived waste management plans, and quality assurance project plans. He has coordinated analytical services through the Contract Laboratory Program (CLP) and EPA regional laboratories, as well as private and field laboratories. Under a crossover contract with the U.S. EPA Region 8 START contract, he provided technical document reviews on a number of sites submitted to EPA by the State of Nebraska.

Preliminary Assessments

Project Manager, USEPA Regions 7 and 10, 1987 – 1991. Conducted and managed 75 PA assignments over a 5-year period under the FIT contract. Examples of multisite investigations include approximately 20 PAs in Washington and Oregon and an investigation of approximately 15 potential sources of solvent contamination in Coeur d'Alene, Idaho.

Project Manager 1991 – 1993, US EPA Region 10. Served as technical lead/project manager for the federal facilities site assessment review work assignment under the TES 12 contract where over 250 PA type reports were evaluated to determine compliance with CERCLA Section 120 requirements.

Under this project, Tetra Tech used the PREscore software package to evaluate the sites' potential eligibility for the National Priorities List (NPL).

Project Manager, 2000 – Current, US **EPA Region 7, Superfund Technical Assessment and Response Team.** Under three sequential START contracts in EPA region 7, he managed or reviewed hundreds of PA documents for numerous types of facilities including Formerly Utilized Defense Sites, contaminated public water supplies, former grain storage facilities, and former manufactured Gas Plant sites.

Site Inspections

Conducted nearly 75 site inspections under various contracts with EPA, the Forest Service and State of Nebraska where innovative sampling approaches were applied, and removal and remedial programs were coordinated to facilitate early action.

Project Manager, Site Inspection/Removal Assessment, Thorne Bay Landfill, Cape Prince of Wales, Alaska, USDA Forest Service, 1994-1995. For the U.S. Forest Service, collected soil, sediment, and surface water data at abandoned landfill site in the Tongass National Forest in southeast Alaska. Also oversaw a Potentially Responsible Party (PRP) search and wetlands delineation survey. Recommended a time-critical removal action be initiated to cap landfills to reduce leachate flow to sensitive ecological receptors. Engineered cap design recommendation was approved by client. Tetra Tech later designed the cap however it was never installed as the identified responsible parties assumes responsibility.

Project Manager, Site Inspection of Abandoned Prospects and Mines Sites, Removal Assessment, Thorne Bay Landfill, Chugach National Forest, Alaska, USDA Forest Service, 1993-1994. Oversaw site inspection activities at over 40 abandoned mine and 11 Secial use sites in Alaska under the U.S. Forest Service contract. Managed multisite "discovery-level" investigations of 40 mine sites and prospects and 11 special use sites in Alaska for the U.S. Forest Service. Research PRP and development history, located sites, conducted safety inspections, evaluated the potential for acid rock drainage, and collected environmental samples. Evaluated site histories, potential sources, and target information, and made recommendations to the Forest Service on adding sites to the Federal Facilities Hazard Waste Compliance Docket.

Project Manager, Site Inspection of Sunset Aviation at the American Fall Airport, Idaho, 1990. Used Geoprobe to collect subsurface soil from beneath a dry well which received wash water from crop dusting operations (angle boring) at the American Falls Airport in American Falls, Idaho. Samples were sent to the FIT lab for screening, and to a CLP lab for pesticides analysis. Investigated numerous potential sources concurrently to expedite project progress.

Combined PA/SI reports

Program Manager, Multiple sites throughout Nebraska, Nebraska Department of Environmental Quality, 2006- 2010. Under the NDEQ contract, Mr. Zimmermann managed or conducted combined PA/SI assessments at 17 sites across Nebraska. These sites consisted primarily of groundwater contamination sites where the source of the contamination was unknown. Following investigation, five of these sites were prioritized for potential inclusion to the National Priorities list including the Stolley Park (Parkview Well) site in Grand Island, Nebraska, the Garvey Elevator and West Highway 6 and Highway 281 sites in Hastings, Nebraska, the Atwood Industries site in Norfolk, Nebraska, and the Broken Bow Public Water supply in Broken Bow, Nebraska.

Brownfields Targeted Assessments

Managed Brownfields Targeted Assessments of multiple sites under the START and NDEQ contracts for sites proposed for redevelopment. These sites include the Meeks Lumber Company, and Jordan Valley in Springfield, Missouri, the Dakota Landfill in Dakota City Nebraska, the former PCS Nitrogen

facility in Sarpy County Nebraska, and area wide Phase I and Phase II TBAs in the Green Impact Zone and the Municipal Farm site in Kansas City Missouri. For the Unified Government of Wyandotte County/Kansas City, Kansas he is building a site inventory the performing phase I and II investigations at up to 40 sites under two, $200,00 grants from EPA for assessment of petroleum and Hazardous substance brownfields sites.

Project Manager, Phase I and II Targeted Brownfields Assessment, Kansas City Municipal Farm property, Kansas City, MO, 2012 – Present. Mr. Zimmermann managed targeted Brownfields activities at four large parcels within the municipal farms redevelopment area referred to as; the former municipal correctional facility, an active animal shelter, the former LaFarge (concrete batch plant) site, and the KCMO Public Works East Garage site. For all for sites, Tetra Tech performed Phase I TBA activities in compliance with ASTM standards and all appropriate inquiry requirements. Also during the project Tetra Tech attended stakeholder meeting with EPA and City officials, the public, and other involved parties. During these meeting finding from various stages of the investigations were communicated. Based on the finding of the phase I assessments, site specific quality assurance project plans (QAPPs) were developed for all four sites and submitted to the EPA and City for approval. Sampling activities were conducted at all properties and included surface and subsurface soils, surface water and sediment and shallow groundwater. Groundwater and subsurface soil samples were collected with direct push technology (DPT) tools. Any buildings encountered were screened for lead-based paint using portable x-ray fluorescent (XRF) instrumentation and asbestos containing building materials were assessed and materials quantified. Following field activities Phase II TBA reports were generated for all sites.

Program Manager, Brownfield Assessment Grants, Unified Government of Wyandotte County/Kansas City, Kansas 2010-2013. Mr. Zimmermann was program Manager for this 3 year contract that ended in 2013 and entailed grant implementation/tracking/reporting, community involvement/education, development of an inventory of potential brownfield sites, site characterization of brownfields sites through Phase I and Phase II Environmental Site Assessments, and strategic planning for cleanup of sites. Numerous phase I, phase II and hazardous materials surveys were conducted under this contract.

Expanded Site Inspections

Project Member, Expanded Site Inspection/Removal Investigation, Reynolds Metals Facility, Troutdale Oregon, USEPA Region 10, 1992 – 1993. Provided technical support and helped collect over 50 environmental and waste samples at the Reynolds Metals facility in Troutdale, Oregon. Provided information to Region 10 OSCs to help identify sources for potential removal actions. This site was eventually listed on the NPL.

Expanded Site Inspections, Multiple Sites Reynolds Metals Facility, Troutdale Oregon, USEPA Regions 7 &10, 1987 – 1991. Participated in and managed expanded site inspections at more than 25 sites under the FIT contract, including Wycoff - West Seattle (Seattle, Washington); Triumph Mine (Triumph, Idaho); East Multnomah County (Portland, Oregon); Oregon Metallurgical Corporation (Albany, Oregon); Fairfield Coal Gassification (Fairfield, Iowa); 10th Street; Sheller Globe Disposal (Keokuk, Iowa); Lehigh Portland Cement Co. (Mason City, Iowa); Northwest States Portland Cement Co. (Mason City, Iowa); and Peoples Natural Gas (Dubuque, Iowa) sites. Activities conducted at these facilities included geophysics investigation, air monitoring, monitoring well installation, aquifer testing, multimedia sampling, soil-gas investigation, and mobile analytical laboratory analysis. Information collected during the inspection was used to list many of these sites on the NPL.

Remedial Investigation/Feasibility Study (RI/FS)

Project Manager Remedial Investigation/Feasibility Study, Parkview Well site, Grand Island, Nebraska, USEPA Region 7, 1992 – 1993. Managed the RI/FS for the Parkview Wells Superfund site in Grand Island, Nebraska. Two separate RI/FS reports were prepared. The first one for Operable Unit (OU) 1 where contaminated groundwater was impacting/threatening numerous private and municipal wells. An interim remedial action consisting of groundwater pump and treat was recommended to intercept a larger chlorinated solvent contaminant plume. Investigation techniques such as geophysics, soil gas analysis, and DPT sampling and field analysis were employed to locate the source of contamination for the plume which was defined by EPA as OU-2. Tetra Tech recommended a combination of source removal, soil vapor extraction, and in-situ chemical oxidation (ISCO) to address the source area and remainder of the plume.

Hazard Ranking System/National Priorities List Packages

Project Manager/Technical Reviewer, HRS Documentation Package Preparation, Multiple Sites, Nationwide, 1989-Current. Prepared or managed HRS documentation packages under the FIT, TES 12, and START contracts involving federal facility and general sites in Regions 7, 8, and 10. Served as a Tetra Tech corporate HRS expert, aiding people across the country with HRS issues. Provided technical support and reviews of documentation packages for EPA Regions 3, 5, 8, and 10. Listed or supported listing of several EPA Region 7, 8, and 10 sites on the NPL, including the 10th Street Site in Columbus, NE; Bruno Co-op Association in Bruno NE, Tulalip Landfill, Fort Richardson, White King and Lucky Lass Mines, Blackbird Mine, Jackson Park Housing Complex, Grand Forks Airforce Base, and Indian Island sites. Under the START contracts, Mr. Zimmermann listed or supported listing of numerous EPA Region 7 sites proposed to or on the NPL including the following sites in Nebraska - Iowa Nebraska Power and Light FMGP, Parkview Wells, Garvey Elevator, and West Highway 6 and Highway 281; the following sites in Iowa the Hills Perchlorate site; the following sites in Kansas - Tri-County Airport; and the following sites in Missouri Annapolis Lead, Madison Mine, Old Mines, Richwood, Potosi and Jefferson County mining areas, Compass Plaza Well TCE site and Oak Grove Village Well. He prepared many additional documentation records for other regions and other sites in Region 7 that were never proposed to the NPL.

Prepared documentation packages while working under the FIT contract using the original HRS rule; aided in development and testing of the revised HRS and prepared documentation packages using the revised HRS.

Response Activities

Responder, Corporate Clients Nationwide, 1988 – 1989. During his employment with Ecology and Environment, Mr. Zimmermann was a member of the corporate emergency response team. He received training in responding to chemical release emergencies for corporate clients such as motor freight companies. As a member of the corporate emergency response team, he was required to carry a pager 24 hours a day and was prepared to respond at a moment's notice. His training consisted of health and safety and ambient air monitoring; containment, documentation, and hazardous substance categorization techniques; and health and safety work zones and containment area set-up and decontamination techniques.

Responder, National Response to Red River Flood, Grand Forks, North Dakota, USEPA Region 8, 1997. Under the START contract in Region 8, Mr. Zimmermann assisted in responding to the Red River flood in Grand Forks, North Dakota. Activities conducted in support of response action included rapid assessment and removal of unknown wastes using field HAZ-CAT techniques. Mr. Zimmermann also supported U.S. Public Health Service personnel in assessing public (city, county,

and state) buildings for potential hazards. While working under the FIT contract, Mr. Zimmermann also worked with the removal program on a number of sites to expedite cleanup.

Removal Support

Project Manager, Removal Site Evaluation, Atlantic Public Water Supply, Atlantic Iowa, USEPA Region 7, 2011-2013. Conducted a Removal Reassessment at the Atlantic Water Supply in Atlantic Iowa. Used Direct Push techniques and membrane interface probe field analysis to delineated area of highly contaminated soil at former drycleaners site. Supplemental investigations included Roto-sonic drilling through bedrock, soil vapor and indoor air sapling and DPT soil and groundwater sampling. Evaluated different removal alternatives including soil heating coupled with soil vapor extraction, insitu chemical oxidation with deep soil blending, deep excavation and off site incineration/disposal. As part of the removal reassessment, the extent of groundwater contamination was mapped and recommendations for addition pumping wells was suggested to control the existing plume and protect active municipal well field.

Project Manager, Removal Site Evaluation, Parkview Well Site, Grand Island Nebraska, USEPA Region 7, 2006 - 2008. Conducted routine sampling of private wells at the Parkview Well site in Grand Island to determine if contamination was increasing to levels above preliminary remediation goals that triggered the removal program of EPA to either install whole-house filtration units or connect the home to city distribution mains as appropriate. Oversaw a time critical removal action to excavate a PCE hot spot at identified source area.

Conducted removal assessment investigation at the Astoria Plywood site for the Oregon Department of Environmental Quality. Identified eight contaminated soil “hot spot” areas for removal action consisting of low temperature thermal desorption.

Worked closely with OSCs and the TAT at dioxin removal sites in Missouri. Conducted air monitoring for 6 weeks at the Minker/Stout/Romaine Creek site as OSCs and ERCS contractors removed contaminated soils to ensure that removal actions did not create an air hazard to nearby communities.

Organized a 15-person field crew consisting of TAT, FIT, and EPA Region 7 OSCs to conduct 95 percent confidence level soil sampling of a dioxin-contaminated site to direct future removal actions in Mount Vernon, Missouri.

Training

Trainer, Revised HRS Training Comparison, USEPA Region 7, 1988. During the revision process of the HRS, trained FIT staff, state site assessment personnel, and EPA site assessment managers in use of the revised model and ways in which the changes affected the site assessment process.

Trainer, Preliminary Assessment/Site Inspection and HRS documentation record training classes, USEPA Headquarters, 2009 – 2013. Mr. Zimmermann serves as an instructor for two different courses for the EPA CERCLA Education Center. The first course covers the preparation of Preliminary Assessment/Site Inspections and includes a module on scoring sites using the EPA scoring software Quickscore. The second class pertains strictly on the Hazard Ranking System and how to properly score sites. Courses are delivered to EPA site assessment managers, on-scene coordinators, remedial project managers, state employees and tribal environmental staff charged with performing site assessment work, consultants and other interested parties. Since 2008, Mr. Zimmermann has delivered multiple classes in cities associated with EPA and State offices in numerous states in Regions 3, 4, 5, 7, 8, and 9.

Guidance Document Preparation/Special Investigations

Project Manager, Guidance Document and SOP Preparation, NDEQ, 1995. Under the NDEQ contract, Tetra Tech assesses numerous sites, supports NDEQ with Title 118 and 128 assessments and enforcement actions, and aids the state in development of guidance documents, standard operating procedures, and management plans. For NDEQ he developed standard operating procedures for conducting various pre-remedial investigations, and guidance documents for assessing data and scoring sites. Tetra Tech also developed a catastrophic animal mortality management plan which detailed plans for animal disposal in the event of a foreign animal disease outbreak. Tetra Tech also developed a guidance document for the implementation of Nebraska's voluntary cleanup program.

Technical Experience – RCRA

Under the TES 12, RCRA implementation, REPA, and REPA 2 contracts managed and conducted numerous investigations including:

Project Manager, RCRA Facility Assessments (RFA) at Multiple sites in Region 10, USEPA Region 10, 1993- 1995. Mr. Zimmermann conducted RCRA Facility Assessments under the Technical Enforcement Support contract to EPA Region 10. Sites assessed include the Barrow Landfill, Barrow Alaska; Washington Chemicals Company in Spokane, Washington; Fuel Processors, Inc. in Woodland, Washington; and Siemens Power Corporation in Richland, Washington. Also managed 15 CERCLA Environmental Priorities Initiative PAs (which were hybrid RFA/PA documents) for a sites in Oregon, Washington and Idaho.

Project Manager, RCRA Operations and Maintenance inspections at Multiple Refinery sites in Region 10, USEPA Region 10, 1993- 1995. Managed and conducted RCRA operations and maintenance (O&M) inspections at refinery sites including the Texaco Refinery in Anacortes Washington and the Tessoro Refinery in Kenai, Alaska.

Conducted reviews of RCRA facility investigation (RFI) workplans and related documents, and Corrective Measures Study (CMS) reports for the U.S. Coast Guard Kodiak Island facility.

Project Manager, RCRA Corrective Action Oversight, Harcros Chemical site, Kansas City, Kansas, USEPA Region 7, 1989- 1991. Provided corrective action oversight support to EPA Region 7 at the Harcros Chemicals site in Kansas City Kansas. Work included reviewing an extensive RCRA Facilities Investigation to determine adequacy of investigation, and negotiating with facility. Coordinated with hydrogeologists and groundwater modelers to estimate fate and transport of chlorinated solvent migration through unsaturated and saturated matrices to the Kansas River.

SCIENTIFIC/TECHNICAL PUBLICATIONS

2003 EPA National Site Assessment Symposium. Presented paper entitled "START, Region 7 GIS System Application" at the 2003 U.S. Environmental Protection Agency National site Assessment Symposium in Pittsburg, Pennsylvania on the beneficial use of GIS in site assessment applications.

2014 Ninth International Conference on Remediation of Chlorinated and Recacitrant Compounds. Presented paper entitled "Incremental Sampling Approach to Verify and Refine Results of traditional Discrete Sampling at Rhylander Park."

ADDITIONAL TRAINING/CERTIFICATIONS

The Decision-Making Process: Risk Assessment; Risk Management; Risk Communication, U.S. EPA Region 7, 1988

Toxic Air Release Contingency Planning, EPA Region 7, 1988

24-Hour Exposure Assessment Workshop, EPA, 1988

HRS II Training, 1988

24-Hour Air Pathway Analysis at Superfund Sites, EPA, 1989

Seminar on Transport and Fate of Contaminants in the Subsurface, EPA, 1989

24-Hour Corporate Emergency Response Training, 1989

40-Hour Drilling Oversight and Subsurface Investigation Training, 1990

8-Hour Supervisor Training, 1992

4-Hour Train-the-Trainer Emergency Responder Nuclear, Biological and Chemical Responder Operations Course. December 1999.

4-Hour Train-the Trainer Emergency Responder Nuclear, Biological and Chemical Responder Awareness Course. December 1999.

Domestic Preparedness, Defense Against Weapons of Mass Destruction,

Sharpening Your Site Inspections for EPA, 2001

16-Hour RCRA Corrective Action Workshop, 2002

8-Hour HRS Superscreen / HRS Quickscore Training, 2004

ADDITIONAL EXPERIENCE

MS Excel, MS Word, MS Outlook, MS Project, MS Access, HRS Quickscore

EMPLOYMENT HISTORY

1997 – Present	Program Manager/Team Leader, Tetra Tech, Inc., Kansas City Missouri
1991 - 1997	Program Manager/Team Leader, Tetra Tech EM Inc., Seattle, Washington
1990 - 1991	Project Manager, Ecology and Environment, Inc. Seattle, Washington
1987-1990	Project Manager, Ecology and Environment, Inc. Overland Park, Kansas
1986	Creel Clerk, Kansas Fish and Game Commission, Lawrence, Kansas