

TARGETED BROWNFIELD ASSESSMENT

For The

ELK CITY ARMORY

ASTM E 1527-05
Phase I Environmental Site Assessment
All Appropriate Inquiry

Prepared by:



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Prepared for:

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I declare that to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of this part. I have specific qualifications based on education, training, and experience to assess a property of the nature, history and setting of the subject property. I have developed and performed the all appropriate inquiry in conformance with the standards and practices set forth in 40 CFR Part 312.

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Background and Disclaimer: The purpose of an environmental site assessment is to identify actual or potential “recognized environmental conditions” that may result in liability or land use restrictions. The ASTM Phase I Environmental Site Assessment E 1527 – 05 is the minimum standard for environmental due diligence in the commercial real estate industry and meets the standard for All Appropriate Inquiry under the Small Business Liability Relief and Brownfield Revitalization Act of 2002. A diligent effort in accordance with generally accepted good commercial and customary standards and practices was undertaken to identify the “recognized environmental conditions” that might affect the redevelopment project. However, the identification of old hazardous waste sites is an evolving process; therefore, DEQ cannot state with absolute certainty that no other potential hazardous waste sites are located in the area. In no event shall the DEQ or its employees be liable for any damages, injury, loss, cost or expense whatsoever arising in connection with the use or reliance on the information contained in this report, except as otherwise provided by law.

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1.0 Executive Summary

This Phase I Targeted Brownfield Assessment of the Elk City Armory was performed in accordance with the ASTM E 1527-05, a guide for conducting Environmental Site Assessments. Jonathan Reid of the Oklahoma Department of Environmental Quality (DEQ) performed the site reconnaissance on April 17, 2009.

The site is located in the Southwest $\frac{1}{4}$ of the Northeast $\frac{1}{4}$ of the Northwest $\frac{1}{4}$ of Section 22, Township 11 North, and Range 21 West Indian Meridian in Beckham County, Oklahoma. The site's address is 609 West E Avenue in Elk City, Oklahoma.

A cursory summary of findings is provided below. However, details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items contained herein.

- Suspect asbestos containing materials (ACM) was found throughout the Armory. Window putty observed between the windows externally and internally appeared to be suspect for ACM. The Drill Floor appeared to have ACM in the roof, exhaust pipes, and the fire door connected to the Maintenance Room. Several of the rooms in the main building east of the Drill Floor contained wrapped TSI utility piping, which is very likely to contain ACM. These rooms included: Hallway #7, Utility Room, Officers Latrine, Enlisted Latrine, Training Room, Locker Room, and the Classroom. The Utility room contained the same kind of exhaust pipes found in the Drill Floor, which were found leading up to the ceiling from the boiler and to the furnace. Twelve-inch floor tile was observed in the entrance of the Classroom and the whole floor of the Day Room. The twelve-inch floor tile is unlikely to have ACM; however, the mastic binding the floor to the floor tile could be suspect for ACM. The suspect ACM inside the Armory constitutes a Recognized Environmental Condition (REC).
- Several areas of the Armory were observed that may contain lead-based paint. Externally, eight cone-like metal structures were observed along the corners of the brick wall next to the overhead doors of the Drill Floor and Maintenance Room. The white paint on these structures was deteriorating and appeared to be suspect for lead-based paint. The metal surfaced doors and overhead doors, internally and externally, are suspect for lead-based paint. This is especially relevant in the Drill Floor and Maintenance Room where the paint has deteriorated. The overhead door frames located at the Drill Floor and Maintenance Room; the fire door located between the Drill Floor and Maintenance Room; and a metal-surfaced window compartment located on the east side of the Drill Floor have suspect lead-based paint. Red primer was observed on the floors of the Maintenance Room and Hallway #7, the fire door, and the overhead doors. A yellow primer painted line formed in a rectangular shape was observed along the Drill Floor. The two primers are suspect for lead-based paint. The Supply Room contained green and white painted steel pipe that could be suspect for lead-based paint. The suspect lead based paint throughout the building constitutes a REC.
- There may be a potential for mold growth due to the age of the Armory, humidity, and possible water seepage.

- On September 25, 1995, a 1,000 gallon diesel underground storage tank (UST) was removed and disposed of at the Northern Oklahoma Metals facility, which is a scrapping/disposal company. Two confirmation soil samples were collected at the bottom of the excavated pit in the center and east sidewall for the analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX) and total petroleum hydrocarbons (TPH). Both sample results were below the OCC and DEQ Residential soil screening levels for BTEX and TPH.
- One LUST site, In "N" Out Express, was reported as being located within the ASTM's minimum search distance of ½ mile of the subject property. The facility is located at 1220 Colorado Avenue approximately 0.43 mile east-northeast of the subject property. Three 6,000 gallon gasoline leaking USTs were removed.
- Fluorescent light bulbs were found in the light fixtures throughout the Armory building. The bulbs contain mercury. Some of the light bulbs had green tips and the others did not have green tips. Fluorescent light bulbs with green tips are nonhazardous whereas other fluorescent light bulbs may be hazardous. Mercury contained in green tipped fluorescent light bulbs is not leachable through toxicity characteristic leaching procedure (TCLP) analysis, which makes them nonhazardous.
- Four heating, ventilation, and air conditioning (HVAC) systems, a furnace, and a boiler were found inside the Armory. The Drill Floor, Maintenance Room, Supply Room, and Utility Room contain the units. There may be a potential for the HVAC systems to contain chlorofluorocarbons (CFCs). These compounds are used in HVAC systems.
- According to two former employees of the Elk City Armory, there were no known chemical or petroleum spills on the property. The only chemicals used at the facility were for housekeeping purposes.
- One transformer was observed behind the subject property. The transformer appeared to be in good condition. Transformers are known to have polychlorinated biphenyls (PCBs). PCBs are mixtures of chemicals that form clear to yellow, oily liquids, or mixtures that form white, crystalline (sand-like) solids and hard resins. They were used in electrical equipment until their regulation in 1977.
- According to the Oklahoma Water Resources Board Water Well Record database, there are no wells present on the subject property or adjacent properties. One well is reported within 0.5 mile of the Armory. The well is approximately 0.40 mile west of the Armory.
- No National Priorities List NPL or delisted NPL sites, active Comprehensive Environmental Response, CERCLIS site listings, RCRA CORRACTS and non-CORRACTS TSD listings, ERNS list, State-equivalent NPL or CERCLIS lists, or State landfills and/or solid waste disposal sites were found on the subject property or within the ASTM minimum search radii. No archived CERCLIS site listings, RCRA generators, or VCP sites were found on the subject property or the minimum search radii. No Brownfield sites were found on the subject property and the minimum search radii either.

- The Oklahoma Corporation Commission's (OCC) oil and gas records database did not have any oil and/or gas well records within a mile of the subject property.
- The site is not on any Federal or State institutional controls (IC)/engineering controls (EC) Registries. The Elk City Armory representatives of the property were not aware of any ICs or ECs on the property.
- The subject property is on the DEQ's Site Cleanup Assistance Program list for environmental cleanup.

2.0 INTRODUCTION

The Oklahoma DEQ under a Brownfield Assistance Agreement (No. RP96681001-0) (Ref. 1) with the U.S. Environmental Protection Agency (EPA) conducted a Targeted Brownfield Assessment of the Elk City, Oklahoma National Guard Armory. The property will be used for community events.

2.1 Purpose

The purpose of this assessment is to look at the environmental conditions within the target area and provide this information to the City of Elk City to assist in its revitalization planning as well as meet the All Appropriate Inquiry requirement of the landowner liability protections under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), better known as Superfund – Ref. 2), as provided in the Small Business Relief and Brownfield Revitalization Act of 2002 (Public Law 107-118, Subtitle B – Ref. 3). The purpose of a Phase I Environmental Site Assessment is to identify, to the extent feasible, recognized environmental conditions in connection with the target property through a systematic review of readily available information sources and a site reconnaissance. The Phase I will also be used to guide DEQ's cleanup efforts at the Armory.

The DEQ is providing technical assistance to the project by evaluating the environmental condition of the property prior to the City acquiring the property. Funding for this assessment has been provided by the U.S. EPA.

2.2 Detailed Scope-of-Services

The DEQ examined the current use of the property and then identified the historical uses of the property to determine if recognized environmental conditions exist. The DEQ examined historical documents, governmental databases, oil and gas records, aerial photographs, Sanborn Fire Insurance Maps, and conducted interviews, and a site reconnaissance of the area. A good faith effort was made to identify possible environmental conditions that might affect the revitalization of the property.

2.3 Significant Assumptions

The term “recognized environmental condition” as defined by ASTM E 1527-05 Standards, is “the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* are not recognized environmental conditions.

2.4 Limitations and Exceptions

The purpose of an environmental site assessment is to identify actual or potential “recognized environmental conditions” that may result in liability, land use restrictions, or cause delays in revitalization. The ASTM Phase I Environmental Site Assessment E 1527 – 05 (Ref. 4) is the minimum standard for environmental due diligence in the commercial real estate industry and meets the standard for All Appropriate Inquiry under the Small Business Liability Relief and the Brownfield Revitalization Act of 2002. A diligent effort in accordance with generally accepted good commercial and customary standards and practices was undertaken to identify the “recognized environmental conditions” that might affect the revitalization project. However, the identification of old hazardous waste sites is an evolving process; therefore, DEQ cannot state with absolute certainty that no other potential hazardous waste sites are located in the area. This assessment was conducted under constraints of time, cost, and scope and reflects a limited investigation and evaluation. It reflects the normal degree of care and skill that is ordinarily exercised by environmental professionals conducting business in this or similar localities. In no event shall the DEQ or its employees be liable for any damages, injury, loss, cost or expense whatsoever arising in connection with the use or reliance on the information contained in this report, except as otherwise provided by law.

The information in this report is based on a review of governmental records, interviews with knowledgeable residents in the community, information provided by the City of Elk City, the Oklahoma Military Department, and observations of the environmental professional. The result of this assessment, as written in this report, is valid as of the date of the report. The assessment does not include sampling of soil, groundwater, surface water, or air.

2.5 Special Terms and Conditions

Certain conditions are beyond the scope of ASTM Phase I Environmental Site Assessments and are therefore outside the scope of this assessment, unless specifically addressed in this report. Those conditions include but are not limited to:

- Radon
- Lead-Based Paint
- Regulatory Compliance
- Cultural and Historic Resources Industrial Hygiene
- Health and Safety
- Radioactive Materials under the Jurisdiction of the Nuclear Regulatory Commission
- Ecological Resources
- Indoor Air Quality
- High Voltage Power Lines
- Environmental Permitting Issues
- ACM
- Wetland and Endangered Species

3.0 SITE CHARACTERIZATION AND HISTORY

3.1 Location and Legal Description

The subject property is located on 609 West E Avenue in Elk City, Oklahoma. The site's legal location is in the Southwest ¼ of the Northeast ¼ of the Northwest ¼ of Section 22, Township 11 North, and Range 21 West Indian Meridian. A site map of the property is provided in Appendix A of this report.

3.2 Site and Vicinity Characterization

The Elk City Armory is located in north central Elk City in an area surrounded by residences. The site is located off of West E Avenue to the north and an alley lies north of the Armory. A residence is located adjacent to the west and an open area of grassland is east of the Armory building and fence line.

The Armory is a one-story building composed of a Drill Floor and Maintenance area to the west side and training rooms and latrines to the east. A fenced-in, open gravel/grass covered area is located north of the main building of training rooms and latrines. The Drill Floor area was created in 1947 and the main building area to the east was created in 1956.

A review of the topographical map indicated that the surface elevation of the site is approximately 1950 feet above mean sea level. The topographical gradient appears to be to the east-southeast towards a tributary of Elk Creek. The tributary of Elk Creek is approximately 0.20 mile southeast of the Armory. The topographical map is provided in Appendix A.

3.3 Description of Structures, Roads, and Other Improvements

The structure of the Armory is in good condition. The roof of the Drill Floor is in good condition as well. There are several areas located in the Drill Hall and Maintenance area, which may contain lead-based paint contamination. Based on past armory inspections, there is a likelihood of lead-based paint on the painted metal surfaces of the metal pipe inside the Supply Room east of the Drill Floor. ACM was found mainly in the main building area. Thermal insulation was the main item found that is potentially composed of asbestos. Details of each area of concern are explained more in Section 5.4 Internal Observations.

West E Avenue and the alley north of the Armory are in good condition. All pavement is constructed of asphalt. No improvements were observed during the site reconnaissance.

3.4 Owner, Property Manager, and Occupant Information

The subject property is owned by the Oklahoma Department of Environmental Quality. The DEQ Site Cleanup Assistance Program (SCAP) is in charge of identifying environmental hazards and conducting the cleanup of the Armory.

3.5 Information Reported by User Regarding Environmental Lien or Specialized Knowledge or Experience

Former Elk City Armory National Guard members, Richard Gay and Rodney Vincent, reported no environmental liens on the subject property. Mr. Gay had been stationed at the Armory from 1998 to September of 2007. Mr. Vincent had been station at the Armory from the early 1980s until 2007. Neither gentleman had any specialized knowledge regarding environmental conditions at the subject property.

A 1,000 gallon diesel underground storage tank (UST) was removed on September 25 1995 south of the Armory building. No leaks or free product of diesel was observed or detected in the confirmation soil results. The DEQ conducted a search for environmental liens at the Beckham County Courthouse. No environmental liens or use limitations were reported for the subject property.

3.6 Commonly Known or Reasonably Ascertainable Information

Mr. Gay and Mr. Vincent did not have any commonly known or reasonably ascertainable information within the local community about possible environmental conditions on the property.

3.7 Valuation Reduction for Environmental Issues

Valuation of the property is outside the scope of this assessment. A professional appraiser should be consulted to place a value on the property.

3.8 Current Use of the Property

Currently, the Armory is vacant and not being used. The property will be transferred to the City of Elk City following environmental cleanup by the DEQ Site Cleanup Assistance Program.

3.9 Past Use of the Property

3.9.1 Review of Aerial Photographs

Historic aerial photographs were searched to view the changes to the property over time. Aerial photographs from 1941, 1955, 1995, and 2008 were obtained. The earliest aerial photograph on record for the subject property was taken in 1941. This photograph was obtained from the Oklahoma Department of Libraries. The succeeding aerial photograph, taken in 1955, was obtained from the archived aerial photographs at the DEQ. The 1995 and 2008 aerial photographs were obtained from the DEQ Data Viewer. All these photographs are located in Appendix B. The following represents a summary of what was found at the subject property from each photograph.

1941 aerial photograph

The Elk City Armory was not present in November 14, 1941. Open farm land covered the west end of the present-day Armory. A barn-like structure and a residence covered the east end of the present-day Armory. West E Avenue was not developed due west of North Oliver Avenue, which runs north and south on the southeast corner of the subject property. All adjacent properties to the north, south, and west were open farmland. An additional residence was adjacent to the east followed by more farm land.

1955 aerial photograph

The Drill Floor was present on July 29, 1955. A road leads to the Drill floor from the developed West E Avenue. Grassland occupied the east area of the present-day Armory. The area that was once composed of open farmland was fully developed into a neighborhood of residences. Residences were adjacent to the subject property in the north east, west, and southeast areas. Open grassland occupied the adjacent area south of West E Avenue.

1995 aerial photograph

The Subject property appears to be the same in 1995 as it appears today. The Drill Floor and main building area are located on the west area of the property and an open grass covered field with a gravel drive-way is located at the east end of the property. The gravel drive-way leads into the fenced-in area behind the Armory building. An alley is located to the north of the subject property. Residences are adjacent on all sides of the subject property.

2008 aerial photograph

Nothing appears to have changed from 1995 to 2008. Everything appears to have stayed the same on the subject property and adjacent properties.

3.9.2 Fire Insurance Maps

Sanborn Fire Insurance maps were viewed from the Oklahoma Department of Libraries website. The maps dated from April 1904 through 1931. All Sanborn maps on record for Elk City, OK did not have the location of the subject property. No Sanborn maps were found dated after 1931. The subject property may have not been a part of Elk City during the time the available Sanborn maps were created. The Armory was not constructed until 1947.

3.10 Current and Past Uses of Adjoining Properties

Adjoining properties surrounding the Armory are all residences. Before development into a neighborhood all adjacent properties were composed of open farmland. No industrial properties are known to have existed at the adjoining properties.

3.11 Environmental (Physical) Setting

The DEQ reviewed several sources to obtain information on the physical setting of the subject property and its surrounding areas. These sources include: The United States Department of Agriculture (USDA) Beckham County Web Soil Survey, Oklahoma Geological Survey, and the Federal Emergency Management Association. Review of the physical setting of the area is to evaluate the sensitivity of the hydrogeology to potential contamination from sources either on or near the site.

3.11.1 Surface Water Characteristics

The elevation at the Elk City Armory is approximately 1950 feet. The subject property is relatively flat and the general topographical gradient appears to be to the east-southeast. There are no surface water bodies on the subject property. The water body is a tributary of Elk Creek approximately 0.20 mile southeast of the Armory.

According to the Federal Emergency Management Agency, the subject property is located in Zone X. This area is determined to be outside the 0.2% annual chance floodplain. All adjacent properties are outside the 0.2% annual chance floodplain as well. A flood insurance rate map of this information is located in Appendix C.

3.11.2 Subsurface Geological Characterization

The subject property is located in the Western Redbed Plains consisting of gently rolling hills of flat lying red Permian sandstones and shales. According to the USDA Natural Resources Conservation Service Web Soil Survey, the subject

property consists of the Grandfield Fine sandy loam (1 to 3 percent slopes). This soil was developed from loamy alluvium and/or eolian deposits of sand sheets on paleoterraces. The soil is well drained and available water capacity is moderate at about 8.2 inches. A soil map and a more detailed description of the soil type are provided in Appendix D.

3.11.3 Groundwater Characteristics

The subject property is located in the Anadarko Basin, which is composed of sedimentary rocks from the Cambrian through Permian ages. The major source of groundwater for Elk City is the Elk City Sandstone Aquifer. The Armory and adjoining properties overlie the aquifer. Maximum yield of the Elk City Sandstone Aquifer is 150 gallons per minute and the mineral content of the water is low to moderate.

The direction of the hydraulic gradient is unknown. The direction of shallow groundwater flow is often related to the surface topography. Therefore, the expected shallow groundwater flow direction would likely be to the east-southeast based on the topography of the site.

3.11.4 Air Characteristics

No air emissions were noticed at the subject property or the adjoining properties. No significant odors were noticed at the subject property during the site visit. Several rooms in the main building have thermal insulation coated piping located near the ceilings. The thermal insulation is suspect for asbestos, which could be airborne where the insulation is torn. There may be the potential for mold growth due to the age of the Armory, humidity, and possible water damage.

4.0 RECORDS REVIEW

A regulatory database search was conducted by the DEQ. This search included, at a minimum, those records and distances from the site dictated as appropriate in the ASTM standard. The DEQ performed a review of available federal and state databases to assess whether the subject property or proximate properties were listed as having environmental concerns, which could have an adverse impact on the subject property. The following provides a summary of the databases reviewed.

4.1 Federal National Priorities List (NPL)

The EPA database was searched for NPL sites near the subject property within the ASTM's recommended search radius of one mile. The subject property is not a listed NPL site. There are no NPL sites reported within a one-mile radius of the subject property.

There is also an EPA database for delisted NPL sites, which ASTM requires to be reported within ½ mile of the subject property. No delisted NPL sites are within the ½ mile search radius.

4.2 Federal CERCLIS List

The EPA database for Comprehensive Environmental Response, Compensation and Liability Act Information System (CERCLIS) was searched for active and archived CERCLIS sites on and near the subject property. The ASTM's recommended search radius of the subject property for both active and archived CERCLIS sites is ½ mile. No active CERCLIS sites were found within ½ mile of the subject property. No archived CERCLIS sites were found within ½ mile of the subject property.

4.3 Federal RCRA CORRACTs List

The EPA database for Resource Conservation and Recovery Act (RCRA) facilities subject to corrective action was searched within the ASTM's required minimum distance of one mile of the subject property. No RCRA CORRACT facilities are within the one-mile radius of the subject property.

4.4 Federal RCRA non-CORRACTS TSD List

The EPA database for RCRA facilities not subject to corrective action was searched within the ASTM's required minimum distance of ½ mile of the subject property. No RCRA non-CORRACT Treatment, Storage and Disposal (TSD) sites are within the ½ mile radius of the subject property.

4.5 Federal RCRA Generators List

The EPA RCRA Notifiers database was searched for RCRA generators within the ASTM's required minimum search distance of the subject property. The minimum distance is the property and adjoining properties. The subject property did not have any RCRA Notifiers or generators. No RCRA Notifier facilities are on any of the adjacent properties.

4.6 Federal ERNS List

The Emergency Response Notification system (ERNS) maintained by the National Response Center was searched for any hazardous substance releases or spills within the subject property. ASTM requires a minimum search distance of the property only when identifying ERNS cases. No ERNS sites were reported within the property or the adjoining properties.

4.7 Federal Institutional Control/Engineering Control Registries

There are no known Institutional Controls/Engineering Controls on the subject property according to the representatives of the subject property and the County Clerk records of Beckham County.

4.8 State-Equivalent NPL

The DEQ does not have a State-equivalent NPL database. Oklahoma does not have a State Superfund law to establish a State-equivalent NPL database.

4.9 State-Equivalent CERCLIS

The DEQ does not have a State-equivalent CERCLIS database.

4.10 State Landfill and / or Solid Waste Disposal Sites

The DEQ regulates landfills and solid waste disposal sites across the State of Oklahoma. State landfills and solid waste disposal facilities were searched in the DEQ database within the ASTM required minimum distance of ½ mile from the subject property. No permitted landfills or solid waste disposal facilities are located within the search distance of the subject property.

4.11 State Leaking UST List

The OCC's UST Notification Database was searched to locate any known leaking underground storage tanks (LUSTs) sites located within the ASTM's minimum search distance of a ½ mile of the subject property. One LUST site is listed within the ½ mile radius. The following is the listed LUST site.

- In "N" Out Express (Facility ID: 0-504822) is located at 1220 Colorado Avenue approximately 0.43 mile east-northeast of the subject property. The latitude is 35° 25' 17.211" and longitude is -99° 24' 11.321". Three tanks out of six USTs were removed on February 5, 1992. All LUST tanks removed held gasoline with a holding capacity of 6,000 gallons each. The remaining 12,000, 6,000, and 4,000 gallon gasoline USTs are still in use and in good condition.

4.12 State Registered UST Sites

The OCC UST Notification Database was searched to locate registered USTs located within the ASTM's minimum search distance of the subject property and its adjoining properties. There was one registered UST listed at the subject property. Below is the description and history of the UST.

An Oklahoma Military Department owned UST (ID number: 0-505807), was once located approximately nine feet south of the building and 45 feet east of the west end of

the building. The UST, which was a 1,000-gallon diesel tank, was installed in 1957. It became permanently out of service in July 1988. No fuel had been purchase or pumped since that date.

On September 25, 1995, the UST was removed and disposed of at the Northern Oklahoma Metals facility, which is a metal scrapping/disposal company. Two confirmation soil samples were collected at the bottom of the excavated pit in the center and east sidewall. Samples were analyzed for BTEX and TPH. Both samples had non-detect concentrations below the OCC and DEQ Residential soil screening levels for BTEX and TPH. The OCC Tank Removal and Closure Report of the UST are provided in Appendix E.

4.13 State Institutional Control/Engineering Control Registries

The State Institutional Control/Engineering Control Registry is currently under development by the DEQ. There are no known Institutional Control/Engineering Controls in effect for this property.

4.14 State Voluntary Cleanup Sites

The DEQ Voluntary Cleanup Program (VCP) database was searched for VCP sites within the required ASTM search distance of ½ mile of the subject property. No VCP sites are located on or within ½ mile of the Elk City Armory.

4.15 State Brownfield Sites

The DEQ Brownfield database was searched for Brownfield sites within the required ASTM search distance of ½ mile of the subject property. No Brownfield sites are located on or within ½ mile of the Elk City Armory.

4.16 Oil and Gas Records

The DEQ performed a search of oil and gas records from the OCC's oil and gas records database. The database did not have any oil and/or gas well records within a mile of the subject property.

5.0 SITE RECONNAISSANCE AND INTERVIEWS

5.1 Methodology and Limiting Conditions

A site reconnaissance of the subject property, located at 609 West E Avenue, was performed on April 17, 2009. Jon Reid of the DEQ examined all the rooms inside the building and the outside area of the subject property for any recognized environmental conditions. All areas of the subject property were accessible. There were no limiting conditions during the site reconnaissance.

5.2 General Site conditions

The Drill Floor area was built in 1947 and the main building was built in 1956. The following are general site conditions that were investigated on the property.

Aboveground Storage Tanks (ASTs)

No ASTs are on the subject property or adjacent properties.

Landfills and/or Dumping

No landfills, dumping, or disturbed soil was found on the property.

Impoundments

No impoundments are on the subject property and the adjacent properties.

Monitoring Wells

According to the Oklahoma Water Resources Board Water Well Record database, there are no wells present on the subject property or adjacent properties. One well is reported within 0.5 mile of the Armory. The well is approximately 0.40 mile west of the Armory in the Southeast ¼ of the Northeast ¼ of the Northeast ¼ of Section 21 Township 11 N and Range 21 West Indian Meridian. This groundwater well is a domestic well with a total depth of 140.5 feet and a first water zone of 40 feet below ground surface. Estimated yield is approximately 15 gallons per minute. The Oklahoma Water Resources Board well ID is 21360.

Disturbed and Stained Soils

No disturbed and/or stained soils were observed at the subject property. There was no stressed vegetation of concern either. Areas where it was bare consisted of vehicle pathways of loose gravel and sand.

Seeps

No seeps were observed at the subject property. The Armory does not have an indoor firing range or subsurface rooms that could allow the potential for water seepage.

Chemical Spills

No chemical spills were observed at the subject property.

Farm Waste

No farm waste was observed at the subject property.

Known Pesticide Misapplication

No evidence of pesticide misapplications were observed during the site visit.

Discharges and Runoff from Adjacent Property Affecting the Site

No discharges and/or runoff were observed from any of the adjacent properties that would affect the subject property.

Petroleum Products

No petroleum products are located inside the Armory or on the premises of the property.

Asbestos

Since the Elk City Armory was built before the 1970s, there is a high potential of finding ACM inside the building. The U.S. began banning the use of asbestos in most building products in the 1970s due to studies confirming the harmful health effects caused by exposure to airborne asbestos. ACM may be found in the insulation wrapping of the heating pipes and/or heaters, roofing materials, exhaust pipes, window putty, floor tile mastic, and floor tiles. Floor tiles that are 9 x 9 inches have been found to contain ACM in most cases.

The building may contain ACM. It is very likely that the thermal insulation observed throughout the main building area contains ACM. The roofing material and exhaust pipes inside the Drill Floor have the potential of containing ACM. Window putty found between the small rectangular windows is also suspect of ACM. There was 12" x 12" floor tile observed in the Day Room and the Classroom. No nine-inch floor tile was observed. It is unlikely that the 12" x 12" floor tile contains ACM, however, it is possible. Other structures observed in the building that may contain ACM are the Fire Door connecting the Drill Floor and Maintenance Room; the exhaust pipe connecting the furnace to the ceiling in the Utility Room; and the cylinder pipe leading up to the ceiling from the boiler inside the Utility Room.

Lead-Based Paint

Lead-based paint was commonly used until 1978, when its use in residential paints was restricted in the United States. There is high probability that the Elk City Armory has lead-based paint. A red primer was found on the floor surfaces of the Maintenance Area, Hallway #7, and some of the metal surface doors and overhead door frames. A yellow primer was found on the Drill Floor surface floor. Both of these primers typically contain lead-based paint past investigations of armories have shown. All the metal painted surfaces (doors and piping) and wooden doors may contain lead-based paint due to the Armory's age. DEQ's contractor will perform a lead-based paint survey to determine the presence of lead-based paint in the building.

Mercury

The Armory contained several fluorescent light bulbs, which contain small amounts of mercury. Some bulbs had green tips at the ends whereas some did not. The bulbs with green tips have been shown by analysis not to leach mercury and therefore may be thrown in the municipal trash.

Transformers/PCB Equipment

One transformer was observed behind the subject property. The transformer appeared to be in good condition. Transformers are known to have PCBs. PCBs are mixtures of chemicals that form clear to yellow, oily liquids, or mixtures that form white, crystalline (sand-like) solids and hard resins. They were used in electrical equipment until their regulation in 1977.

5.3 External Observations

Externally, the Armory building was in good condition. There were several cone-like metal structures along the corners of the brick wall where the overhead doors are located. Some of these structures, primarily outside the Maintenance Area, had areas of white paint deterioration. Rust accumulation was observed and it appears that the structures may contain lead-based paint. The outside building windows contained putty that is suspect for asbestos. A metal surfaced door located on the north side of the Maintenance Area was observed to be suspect for lead-based paint. Due to the appearance of the overhead door of the Maintenance Area and the outside door of Hallway #7, there could be a potential for lead-based paint.

An historical UST was once located approximately nine feet south of the Supply Room. The area is now grassed over with no stressed vegetation. A fire hydrant is located on the southeast corner of the subject property and a foot-long grey metal pipe was found sticking out of the ground next to the east fence line.

No stressed vegetation or stained soils were observed except in an area where there was vehicle traffic. This area contained loose gravel. Adjacent properties surrounding the subject property are all residences. Photographs of the external view of the site can be found in Appendix F.

5.4 Internal Observations

The Elk City Armory is a one-story building with no subsurface rooms or an indoor firing range. Rooms in the Elk City Armory include the following: Drill Floor, Maintenance Area, Supply Room, Vault, Orderly Room, Meeting Groom, Commander Room, Entrance Hallway, Recruiter's Office, Day Room, Hallway #7, Utility Room, Officers Latrine, Enlisted Latrine, Training Room, Locker Room, Classroom and the main east and west hallway. Each room is described in the following paragraphs.

The Drill Floor is located on the west end of the building. The roof was in good condition. Exhaust pipes were observed at the Drill Floor in each corner of the four corners. These exhaust pipes as well as the roof are suspect for ACM. Two HVAC Janitrol units are located on the southwest and northeast corners of the Drill Floor. Three metal doors, a metal window compartment opening and a fairly new overhead door are located on the east end of the Drill Floor. Due to the metal surfaces and their age, there could be a potential for lead-based paint. A fire door that connects the Drill Floor's north end to the Maintenance Area was observed having red primer, which is suspect for lead-based paint. Fire doors are also known to contain asbestos. The red primer was also observed on the overhead door frames and a door located on the west end of the Drill Floor. Another suspected lead-based paint area is located on Drill Floor. A yellow painted line is formed in a shape of a rectangle along the Drill Floor. The Drill Floor has six small rooms to the west that are empty. Fluorescent lights were observed in which there were ten bulbs without green tips and two bulbs with green tips.

The Maintenance Area is located north of the Drill Floor. The structure of the area was in good condition. The steel-roof beams appeared to be in good shape. An area on the southwest corner of the room contained red primer, which is suspect for lead-based paint. Patches of paint were observed in other areas too. The fire door, overhead door frame on the east, and a steel door to the north all were observed to be suspect for lead-based paint as well. One Sterling HVAC unit was observed near the fire door.

The Supply Room is located on the south side of the building adjacent and east of the Drill Floor. This room has a wood ceiling. Near the ceiling there are green and white colored metal piping. No thermal insulation was observed that would suggest ACM. However, the paint may contain lead-based paint. A Reznor HVAC unit is located in the northeast corner of the Supply Room. There is a metal surface door on the north side of the room. The door did not appear to be suspect for lead-based paint. The Vault is connected to the Supply Room to the east. The Vault did not appear to have any concerns. The Vault had four green tipped fluorescent light bulbs.

Hallway # 7 is located on the north side of the building adjacent and east of the Drill Floor. This room has a few places of red primer on the floor. The room also contains thermal system insulation (TSI) along several pipes located on the north end. The TSI is suspect for asbestos. There is a metal surfaced exit door on the north end, but does not appear to be suspect for lead-based paint.

The Utility Room is located east of Hallway #7. This room contains a boiler, two green tipped fluorescent light bulbs, thermal insulated piping, bare metal piping, and a Weather King Gas furnace. The cylinder pipe leading up to the ceiling from the boiler appeared to contain ACM as well as the TSI on the utility piping and an exhaust pipe connected to the furnace. A black oily liquid was observed along the boiler pipe leading up to the ceiling. A floor drain was observed in this room.

The Officers Latrine and the Enlisted Latrines are east of the Utility Room. Thermal insulated pipe extends across both rooms. Four non-green fluorescent light bulbs were observed in the Officer's Latrine. Two floor drains were observed in the Enlisted Latrine. Metal surfaced doors observed in these rooms and the rest of the main building area did not appear to have lead-based paint.

The following rooms, adjacently east of the latrines, consists of the Training Room, Locker Room, and Classroom. All three rooms contain a thermal insulated pipe extending along the top portion of the wall and ceiling. The pipe does not appear in the Classroom because the ceiling is below it. The Classroom had an additional area of thermal insulated piping along the wall on the east end. The Training Room contains three green and three non-green fluorescent light bulbs. The Locker Room contains sixteen non-green fluorescent light bulbs. The Classroom contains sixteen fluorescent light bulbs. It is unknown whether these are green or non-green tipped bulbs. The entrance into the Classroom from the main hallway contains twelve-inch floor tile. All floor tiles were in good condition.

The Orderly Room is located adjacently east of the Supply Room. Connected to this room to the south is the Meeting Room and Commander's Room. All the rooms have carpet and a total of 20 fluorescent light bulbs. It could not be ascertained whether these were green or non-green tipped bulbs. No environmental concerns were observed in these rooms.

The Entrance Hallway is adjacently east of the Orderly Room. No environmental concerns were observed in the Entrance Hallway or the main east and west hallway. The Entrance Hallway contained four fluorescent light bulbs and the main hallway contained 28 three-foot green-tipped fluorescent light bulbs.

The Recruiter's Office and the Day Room are located adjacent and east of the Entrance Hallway. The Recruiter's Office has carpeted floor whereas the Day Room contains twelve-inch floor tile. Three floor tiles were damaged in the Day Room. The Recruiter's Office contains eight fluorescent light bulbs and the Day Room contains twenty fluorescent light bulbs.

The Armory building was fairly empty. Ceiling tiles in the building were all Styrofoam and not suspect of ACM. All windows in the rooms may potentially contain asbestos in the window putty. Photographs of the internal view of the site can be found in Appendix F.

5.5 Interviews

Two former employees of the Elk City National Guard Armory were interviewed by telephone in May of 2009. Richard Gay was interviewed on May 14, 2009. Mr. Gay was Staff Sergeant and Section Chief of the M270 Multiple Launch Rocket Systems from 1998 to September 2007. Rodney Vincent was interviewed on May 22, 2009. Mr. Vincent was the head artillery commander of the Elk City Armory and was stationed at the Elk City Armory from 1982 until September 2007 when the Armory went out of operation. Below is the provided the information obtained from both gentlemen.

- The small foot-long metal pipe extending above the ground was used as a safety latch to catch the gate and keep it open.
- No vehicle maintenance was conducted at the Armory. Oil change services, radiator changes, battery changes, and all other maintenance were conducted at Fort Sill located in Lawton, OK. Twenty vehicles were stationed at the Armory. Maintenance of each vehicle occurred every two years.
- There were no known chemical or petroleum spills on the property. The only chemicals used at the facility were for housekeeping purposes.
- The Oklahoma Military Department had the ceiling tiles replaced. Styrofoam ceiling tiles were installed.

- No shooting occurred at the Armory in which military weapons containing lead ammunition were used. The only shooting that may have occurred was from BB guns that didn't contain lead ammunition.
- Within the last ten years the copper gutters have been replaced and new tin and tar was installed on the roof. In 2005 new central heat and air units were installed.
- The 1,000 gallon diesel UST was pulled out in 1995. No leaks or signs of diesel were observed after the UST was removed.

6.0 FINDINGS

Summarized below are the major findings from this Targeted Brownfield Assessment and DEQ's recommendations. The major findings of the highest environmental concern are presented first.

- Suspect ACM was found through the Armory. Window putty observed between the windows externally and internally appeared to be suspect for ACM. The Drill Floor appeared to have ACM in the roof, exhaust pipes in the roof, and the fire door connected to the Maintenance Room. Several of the rooms in the main building east of the Drill Floor contained wrapped TSI utility piping, which is very likely to contain ACM. These rooms included: Hallway #7, Utility Room, Officers Latrine, Enlisted Latrine, Training Room, Locker Room, and the Classroom. The Utility room contained the same kind of exhaust pipes found in the Drill Floor, which were found leading up to the ceiling from the boiler and to the furnace. Twelve-inch floor tile was observed in the entrance of the Classroom and the whole floor of the Day Room. The twelve-inch floor tile is unlikely to have ACM; however, the mastic binding the floor to the floor tile could be suspect for ACM. The suspect ACM inside the Armory constitutes a REC.
- Several areas of the Armory were observed that may contain lead-based paint. Externally, eight cone-like metal structures were observed along the corners of the brick wall next to the overhead doors of the Drill Floor and Maintenance Room. The white paint on these structures was deteriorating and appeared to be suspect for lead-based paint. The metal surfaced doors and overhead doors, internally and externally, are suspect for lead-based paint. This is especially relevant in the Drill Floor and Maintenance Room where the paint has deteriorated. The overhead door frames located at the Drill Floor and Maintenance Room; the fire door located between the Drill Floor and Maintenance Room; and a metal-surfaced window compartment located on the east side of the Drill Floor have suspect lead-based paint. Red primer was observed on the floors of the Maintenance Room and Hallway #7, the fire door, and the overhead doors. A yellow primer painted line formed in a rectangular shape was observed along the Drill Floor. The two primers are suspect for lead-based paint. The Supply Room contained green and white painted steel pipe that could be suspect for lead-based paint. DEQ's contractor will perform a lead-based paint survey to determine the presence of lead-based paint in the building. The suspect lead based paint throughout the building constitutes a REC.

- There may be a potential for mold growth due to the age of the Armory, humidity, and possible water seepage.
- On September 25, 1995, a 1,000 gallon diesel UST was removed and disposed of at the Northern Oklahoma Metals facility, which is a metal scrapping/disposal company. Two confirmation soil samples were collected at the bottom of the excavated pit in the center and east sidewall for the analysis of BTEX and TPH. Both sample results were below the OCC and DEQ Residential soil screening levels for BTEX and TPH.
- One LUST site, In "N" Out Express was reported as being located within the ASTM's minimum search distance of ½ mile of the subject property. The facility is located at 1220 Colorado Avenue approximately 0.43 mile east-northeast of the subject property. Three 6,000 gallon gasoline leaking USTs were removed.
- Fluorescent light bulbs were found in the light fixtures throughout the Armory building. The bulbs contain mercury. Some of the light bulbs had green tips and the others did not have green tips. Fluorescent light bulbs with green tips are nonhazardous whereas other fluorescent light bulbs may be hazardous. Mercury contained in green tipped fluorescent light bulbs is not leachable through TCLP analysis, which makes them nonhazardous.
- Four HVAC systems, a furnace, and a boiler were found inside the Armory. The Drill Floor, Maintenance Room, Supply Room, and Utility Room contain the units. There may be a potential for the HVAC systems to contain CFCs. These compounds are used in HVAC systems.
- According to two former employees of the Elk City Armory, there were no known chemical or petroleum spills on the property. The only chemicals used at the facility were for housekeeping purposes.
- One transformer was observed behind the subject property. The transformer appeared to be in good condition. Transformers are known to have PCBs. PCBs are mixtures of chemicals that form clear to yellow, oily liquids, or mixtures that form white, crystalline (sand-like) solids and hard resins. They were used in electrical equipment until their regulation in 1977.
- According to the Oklahoma Water Resources Board Water Well Record database, there are no wells present on the subject property or adjacent properties. One well is reported within 0.5 mile of the Armory. The well is approximately 0.40 mile west of the Armory.
- No National Priorities List NPL or delisted NPL sites, active Comprehensive Environmental Response, CERCLIS site listings, RCRA CORRACTS and non-CORRACTS TSD listings, ERNS list, State-equivalent NPL or CERCLIS lists, or State landfills and/or solid waste disposal sites were found on the subject property or within the ASTM minimum search radii. No archived CERCLIS site listings, RCRA generators, or VCP sites were found on the subject property or the minimum search radii. No Brownfield sites were found on the subject property and the minimum search radii either.

- The Oklahoma Corporation Commission's oil and gas records database did not have any oil and/or gas well records within a mile of the subject property.
- The site is not on any Federal or State IC/EC Registries. The Elk City Armory representatives of the property were not aware of any ICs or ECs on the property.
- The subject property is on the DEQ's Site Cleanup Assistance Program list for environmental cleanup.

7.0 OPINION AND RECOMMENDATIONS

Based on the findings of this assessment, The DEQ recommends that additional investigation be conducted to evaluate areas of the property that may need future clean-up and remediation.

Areas of additional evaluation consist of the following:

- The window putty throughout the Armory building should be tested for asbestos. The Drill Floor roof, exhaust pipes, and fire door connected to the Maintenance Room should be tested for asbestos. Hallway #7, Utility Room, Officers Latrine, Enlisted Latrine, Training Room, Locker Room, and the Classroom all contained wrapped TSI utility piping, which should be tested for asbestos. Exhaust pipes located in the Utility Room should be tested for asbestos as well as any underlying mastic shown where the floor tiles had been damaged inside the Day Room. If ACM is found an asbestos abatement should occur.
- There appears to be several lead-based paint issues in the Armory. It is recommended that additional investigation be conducted at the Armory. It would be beneficial to collect lead wipes to test for lead dust and use an XRF machine to test for lead-based paint. The cone-like metal structures outside the building; metal surfaced doors; overhead doors and frames; fire door; metal-surfaced window compartment located on the east side of the Drill Floor; red primer on the floors of the Maintenance Room and Hallway #7; yellow primer observed along the Drill Floor surface; and painted bare steel pipes as observed in the Supply Room need to be tested for lead-based paint and remediated if analytical test results are above the DEQ action level of 500 mg/kg for lead.

8.0 DATA GAPS

Section 3.2.20 (ASTM 1527-05) defines a data gap as "a lack or inability to obtain information required by the practice despite good faith efforts of the environmental professional to gather such information." No data gaps were found.

9.0 CONCLUSIONS

The DEQ has performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E 1527-05 of *property* located at 609 West E Avenue in Elk City, Oklahoma. Any exceptions to, or deletions from, this practice are described in Section 10.0 of this *report*. This assessment has revealed no evidence of *recognized environmental conditions* in connection with the *property* except for the following: ACM inside the Armory building and lead-based paint inside and outside of the Armory building.

The information provided in this assessment is to assist the City of Elk City in its revitalization planning as well as meet the All Appropriate Inquiry requirement of the landowner liability protections under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA, better known as Superfund – Ref. 2), as provided in the Small Business Relief and Brownfield Revitalization Act of 2002 (Public Law 107-118, Subtitle B – Ref. 3).

10.0 ADDITIONAL SERVICES

No additional services were provided in this Phase I Targeted Brownfield Assessment.

11.0 DEVIATIONS

No deviations and deletions from E 1527-05 were made for this Phase I site investigation.

12.0 REFERENCES

1. U.S. Environmental Protection Agency. (2008). Oklahoma *Brownfield Assistance Agreement* (No #RP96681001-0). Unpublished Document. State of Oklahoma: Oklahoma City, Oklahoma.
2. U.S. Environmental Protection Agency. (1980). *Comprehensive Environmental Response, Compensation, and Liability Act*. (Public Law 96-510). Washington, DC: U.S. Government Printing Office.
3. U.S. Environmental Protection Agency. (2002). *Small Business Liability Relief and Brownfield Revitalization Act*. (Public Law 107-118, Subtitle B). Washington, DC: U.S. Government Printing Office.
4. ASTM International. (2005). *Water and Environmental Technology: Phase I Environmental Site Assessment E 1527 – 05*. Baltimore, Maryland.
5. United States Department of Agriculture
<http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>

6. Oklahoma Geological Survey. Mankin, Charles J. (June 1970). *Geology and Earth Resources of Oklahoma*. The University of Oklahoma, Norman, OK.
7. Federal Emergency Management Association (FEMA). <https://msc.fema.gov>.
8. State Landfill site list: <http://www.deq.state.ok.us/LpDnew/swindex.html>.
9. Emergency Response Notification System: <http://www.nrc.uscg.mil/foia.html>.
10. EPA NPL list: <http://www.epa.gov/superfund/sites/npl/status.htm>.
11. CERCLIS current and archived sites:
<http://cfpub.epa.gov/supercpad/cursites/srchsites.cfm>.
12. RCRA database: http://www.epa.gov/enviro/html/rcris/rcris_query_java.html.
13. RCRA NOTIFIERS sorted by county and then city:
<http://www.deq.state.ok.us/LPDnew/HW/Notifiers/notifiersbycountycity.pdf>.
14. Sanborn Fire Insurance Maps. Oklahoma Department of Libraries. www.odl.state.ok.us.

13.0 APENDICIES

- Appendix A Site Map and Topographic Map
- Appendix B Aerial Photographs
- Appendix C Flood Insurance Rate Map
- Appendix D USDA Beckham County Web Soil Survey
- Appendix E Oklahoma Corporation Commission Tank Removal and Closure Report for the 1000-Gallon Diesel Underground Storage Tank
- Appendix F Site Photographs
- Appendix G Field Notes
- Appendix H Floor Plan
- Appendix I Qualification(s) of Environmental Professionals

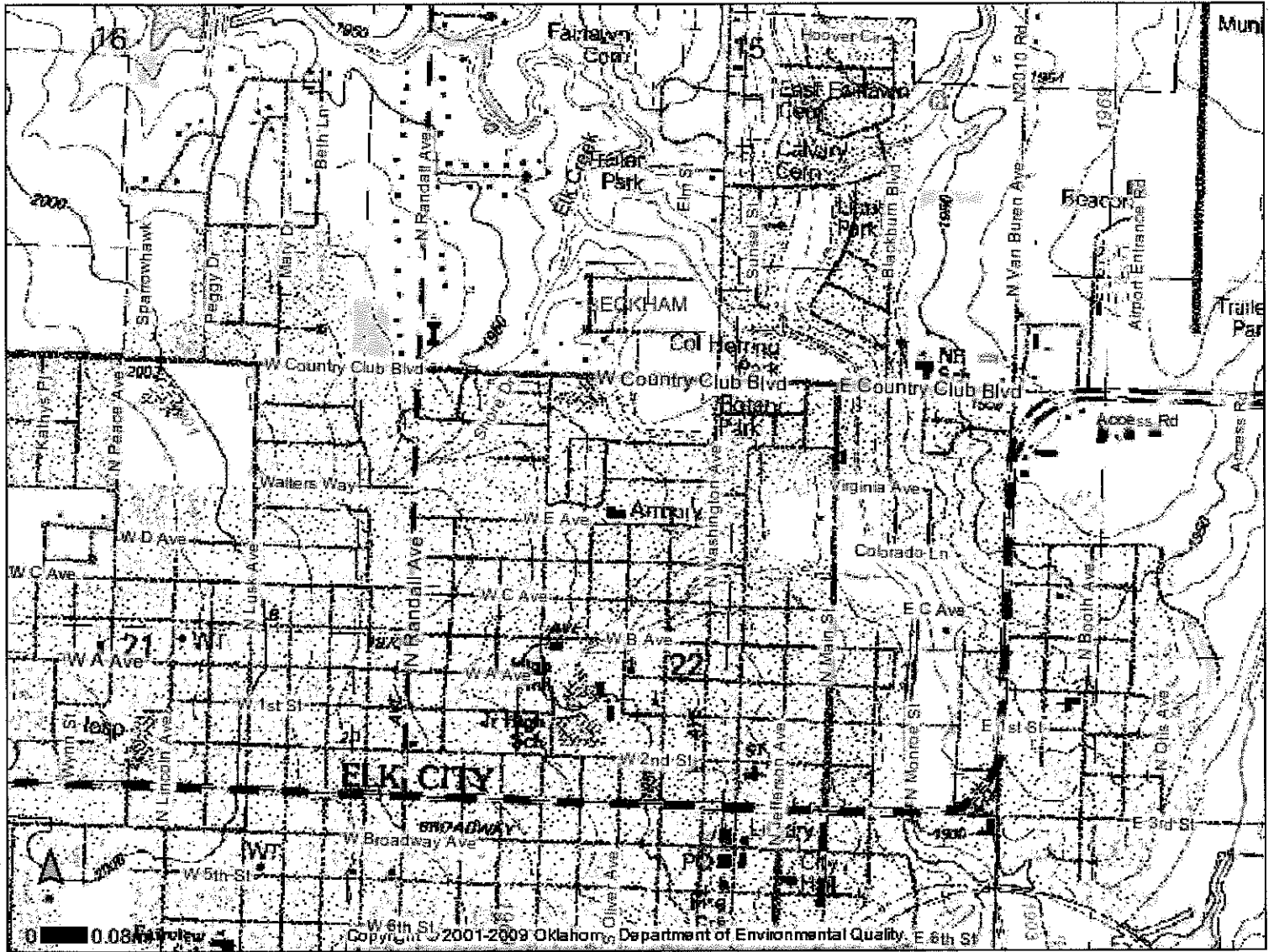
Appendix A

Site Map and Topographic Map

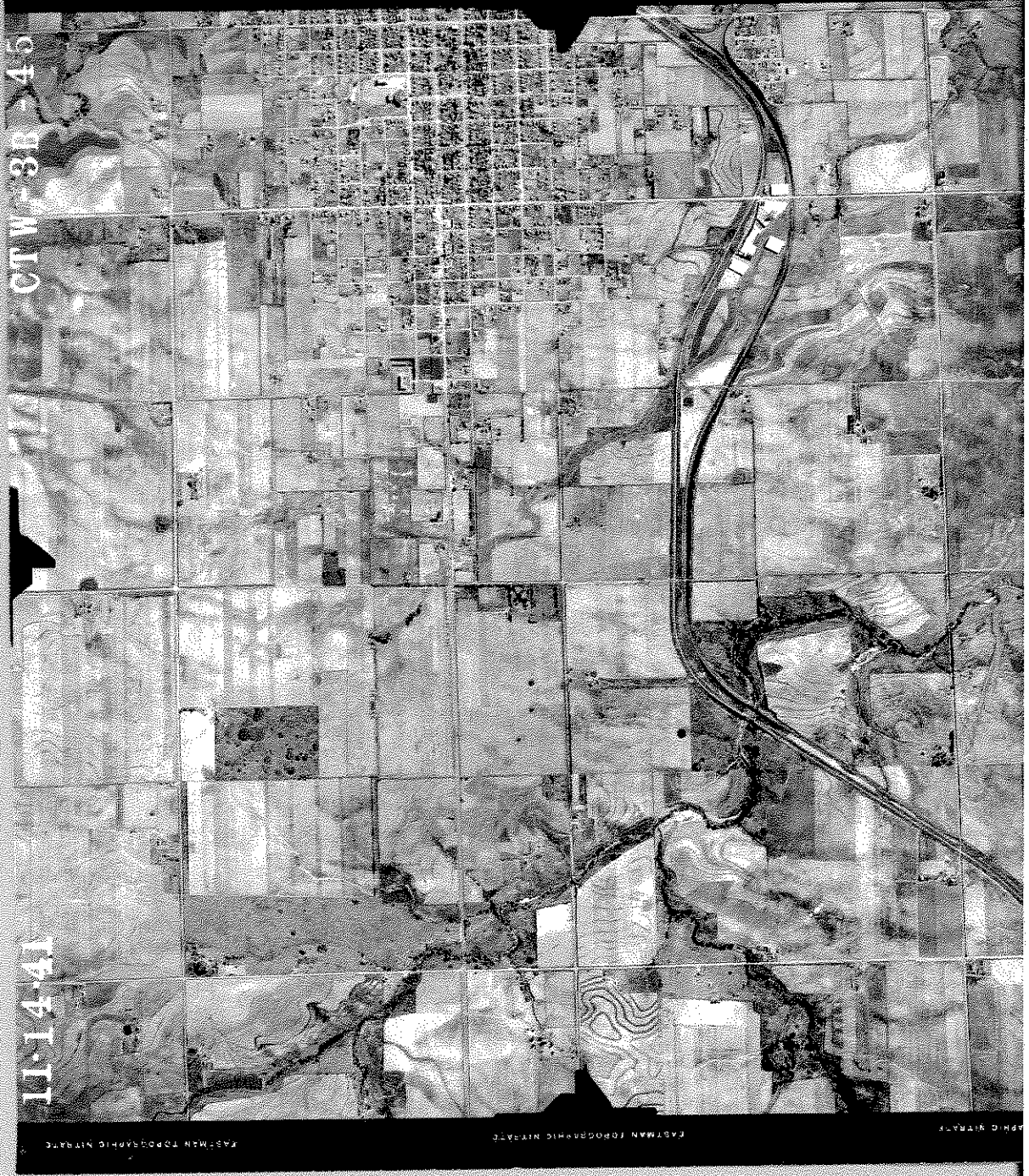
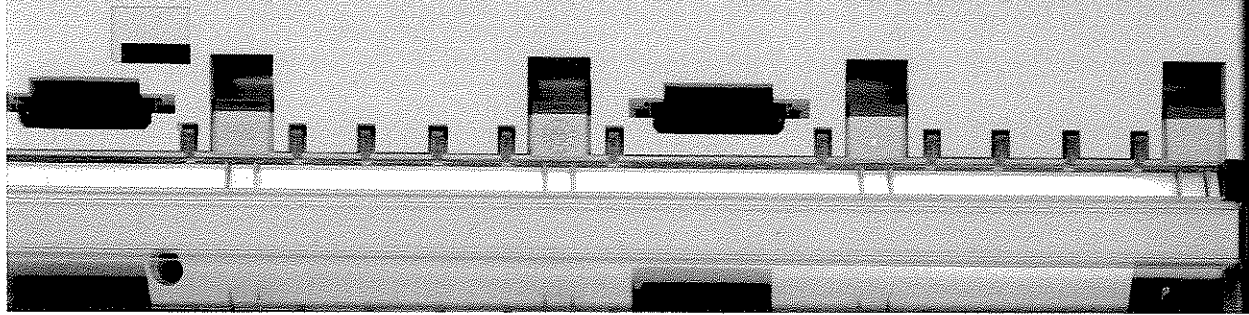
Site Map

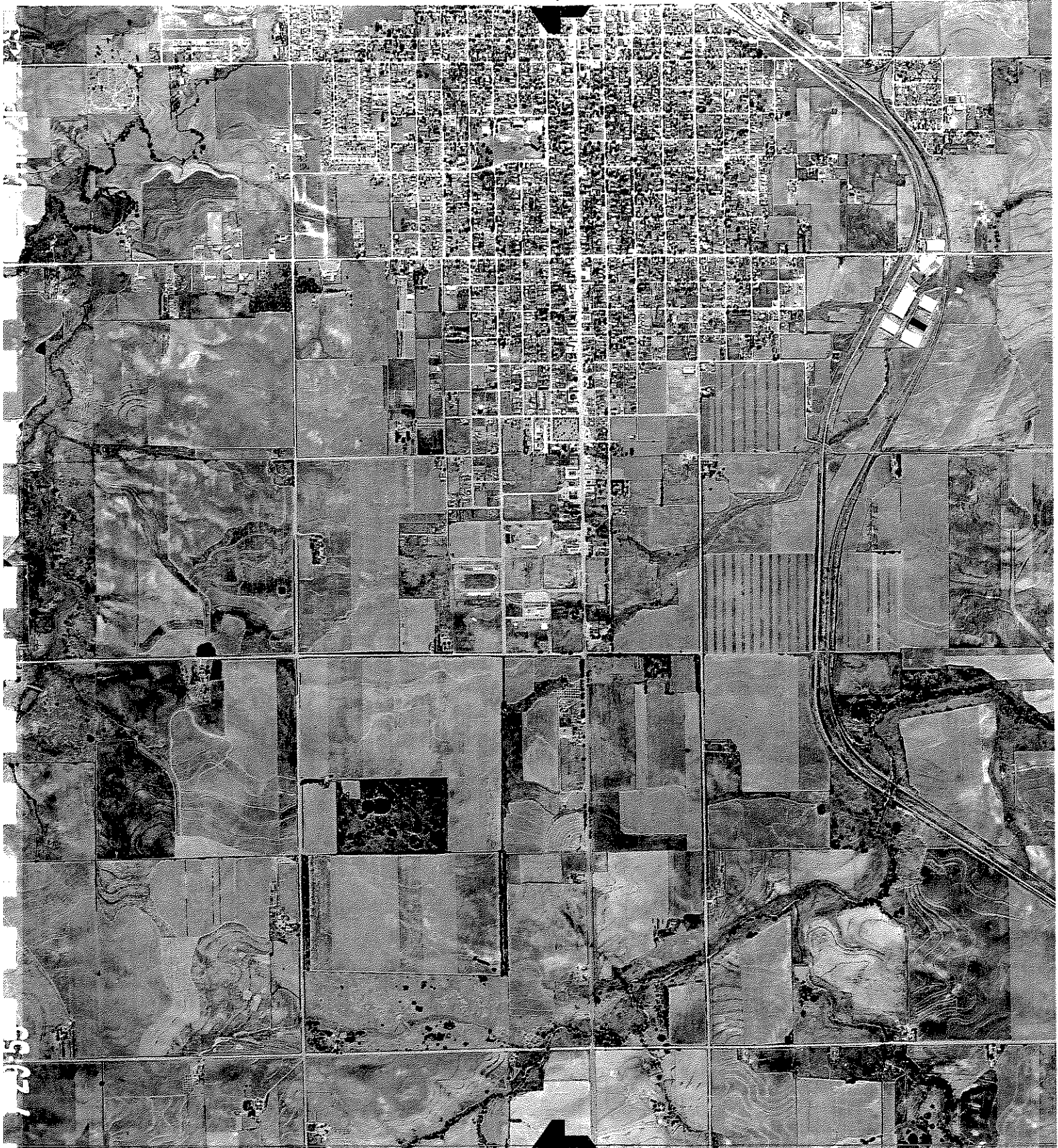


Topographic Map



Appendix B
Aerial Photographs





203

1995 Aerial Photograph



2008 Aerial Photograph



Appendix C

Flood Insurance Rate Map



MAP SCALE 1" = 500'



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0016D

FIRM
FLOOD INSURANCE RATE MAP
CITY OF
ELK CITY,
OKLAHOMA
BECKHAM COUNTY

PANEL 16 OF 150

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:
COMMUNITY NUMBER 400010
ELK CITY, CITY OF 0018
PANEL SUFFIX D

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



MAP NUMBER
4000100016D
MAP REVISED
DECEMBER 16, 2003

Federal Emergency Management Agency

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

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary

Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.

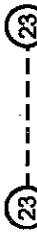
Base Flood Elevation line and value; elevation in feet*

Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988



Cross section line



Transect line

Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)

4989 000 M

ML5510 X

● M1.5

1000-meter Universal Transverse Mercator grid values, zone 14

Bench mark (see explanation in Notes to Users section of this FIRM panel)

River Mile

Map Repository

City Hall, 120 South Jefferson Avenue, Elk City, Oklahoma 73648
(Maps available for reference only, not for distribution.)

INITIAL NFIP MAP DATE
May 24, 1974

FLOOD HAZARD BOUNDARY MAP REVISIONS
June 18, 1976
August 29, 1978

FLOOD INSURANCE RATE MAP EFFECTIVE
June 1, 1982

FLOOD INSURANCE RATE MAP REVISIONS

December 16, 2003- to add Base Flood Elevations, roads and roads names, and floodway; to update corporate limits and map format; to change zone designations, and Special Flood Hazard Areas.



MAP SCALE 1" = 500'



NFIP NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0016D

FIRM
FLOOD INSURANCE RATE MAP
CITY OF
ELK CITY,
OKLAHOMA
BECKHAM COUNTY

PANEL 16 OF 150

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:
COMMUNITY NUMBER 400010
ELK CITY, CITY OF 0016
PANEL SUFFIX D

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



MAP NUMBER
4000100016D
MAP REVISED
DECEMBER 16, 2003

Federal Emergency Management Agency

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Appendix D

USDA Beckham County Web Soil Survey

Beckham County, Oklahoma

27—Grandfield fine sandy loam, 1 to 3 percent slopes

Map Unit Setting

Elevation: 1,000 to 2,500 feet
Mean annual precipitation: 20 to 38 inches
Mean annual air temperature: 57 to 64 degrees F
Frost-free period: 185 to 230 days

Map Unit Composition

Grandfield and similar soils: 80 percent
Minor components: 20 percent

Description of Grandfield

Setting

Landform: Sand sheets on paleoterraces
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy alluvium and/or eolian deposits

Properties and qualities

Slope: 1 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Available water capacity: Moderate (about 8.2 inches)

Interpretive groups

Land capability (nonirrigated): 2e
Ecological site: Sandy Loam Prairie 23-31" PZ (R078CY110TX)

Typical profile

0 to 10 inches: Fine sandy loam
10 to 14 inches: Sandy clay loam
14 to 52 inches: Fine sandy loam
52 to 65 inches: Fine sandy loam

Minor Components

Grandmore

Percent of map unit: 10 percent
Landform: Sand sheets on stream terraces
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: Deep Sand 23-30 PZ (R078CY014OK)

Devol

Percent of map unit: 6 percent

Landform: Dunes on sand sheets on stream terraces

Down-slope shape: Convex

Across-slope shape: Convex

Ecological site: Deep Sand 23-30 PZ (R078CY014OK)

Altus

Percent of map unit: 3 percent

Landform: Paleoterraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear

Across-slope shape: Convex

Ecological site: Sandy Loam Prairie 23-31" PZ (R078CY110TX)

Carwile

Percent of map unit: 1 percent

Landform: Depressions

Down-slope shape: Concave

Across-slope shape: Concave

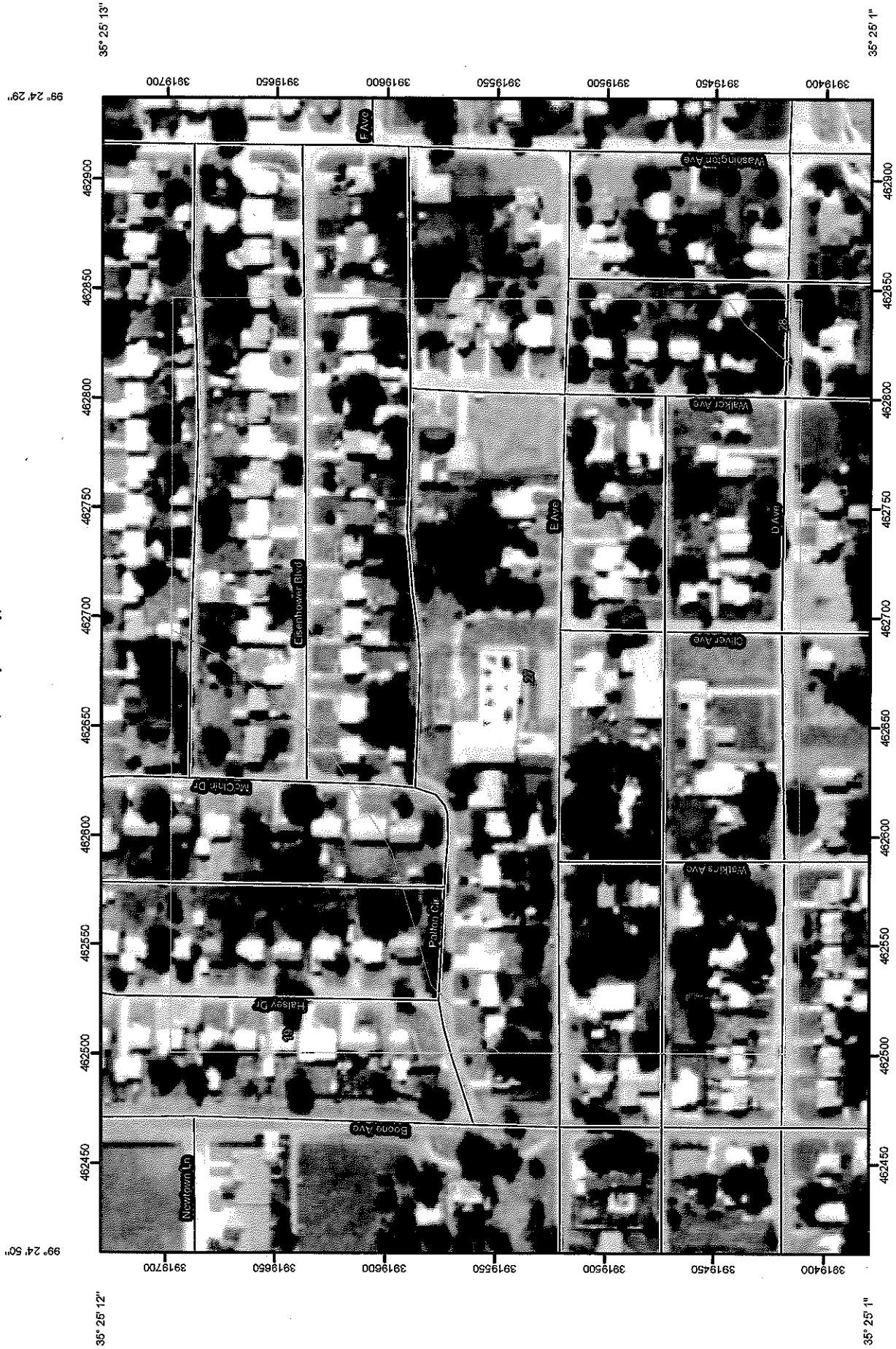
Ecological site: Depressional Upland PE 44-64 (R080AY099OK)

Data Source Information

Soil Survey Area: Beckham County, Oklahoma

Survey Area Data: Version 7, Sep 11, 2008

Soil Map—Beckham County, Oklahoma
(Elk City Armory)



Map Scale: 1:2,500 (if printed on A size (8.5" x 11") sheet).



MAP LEGEND

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

MAP INFORMATION

Map Scale: 1:2,500 if printed on A size (8.5" x 11") sheet.
 The soil surveys that comprise your AOI were mapped at 1:24,000.
 Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
 Coordinate System: UTM Zone 14N NAD83

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

Soil Survey Area: Beckham County, Oklahoma
 Survey Area Data: Version 7, Sep 11, 2008
 Date(s) aerial images were photographed: 6/23/2003

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

Map Unit Legend

Beckham County, Oklahoma (OK009)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
19	Dill-Quinlan complex, 1 to 3 percent slopes	4.2	17.2%
27	Grandfield fine sandy loam, 1 to 3 percent slopes	20.0	82.1%
28	Grandfield fine sandy loam, 3 to 5 percent slopes	0.2	0.6%
Totals for Area of Interest		24.4	100.0%

Appendix E

Oklahoma Corporation Commission Tank Removal and Closure Report for the 1000-Gallon Diesel Underground Storage Tank

Notification for Underground Storage Tanks		STATE USE ONLY	
Last agency name and address <i>Oklahoma Military Department 3501 Military Circle, Okc. Ok 73111</i>		ID NUMBER <i>0-505807</i>	
TYPE OF NOTIFICATION		DATE RECEIVED	
<input type="checkbox"/> A. NEW FACILITY	<input type="checkbox"/> B. AMENDED	A. Date Entered into Computer _____	
No. of tanks at facility _____		B. Data Entry Clerk Initials _____	
No. of continuation sheets attached _____		C. Owner Was Contacted to Clarify Responses, Comments. _____	
INSTRUCTIONS		_____	
Please type or print in ink all items except "signature" in section V. This form must be completed for each location containing underground storage tanks. If more than five (5) tanks are owned at this location, photocopy the following sheets, and staple continuation sheets to the form.			

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1985, or that are brought into use after May 8, 1985. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act, (RCRA), as amended.

The primary purpose of the notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means:

- a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and
- b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.
- c) if the State agency so requires, any facility that has undergone any changes to facility information or tank system status (only amended tank information needs to be included).

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of regulated substances, and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. Gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fungicides.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

- 1. farm or residential tanks of 1,100 gallons or less capacity used for storage, transfer, or use for noncommercial purposes.
- 2. tanks used for storing heating oil for consumer use on the premises where stored.

- 3. septic tanks.
- 4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1978, or which is an injection pipeline facility regulated under Subtitle C.
- 5. surface impoundments, pits, ponds, or lagoons.
- 6. storm water or waste water collection systems.
- 7. low-through process tanks.
- 8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations.
- 9. storage tanks situated in an underground area (such as caverns, cisterns, manure pits, sink, shaft or tunnel) if the storage tank is above ground or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. The meaning of substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (50 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Send completed forms to:

Oklahoma Corporation Commission
Underground Storage Tank Program
Jim Thorpe Building
Room 340
Oklahoma City, OK 73105

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but not in the ground, must notify by May 8, 1985. 2. Owners who bring underground storage tanks into use after May 8, 1985, must notify within 30 days of bringing the tanks into use. If the State requires notification of any circumstances in facility sent information to State agency immediately.

Penalty: Any owner who knowingly fails to notify or provides false information shall be subject to a civil penalty not to exceed \$5000 for each tank for which notification is not given or for which false information is submitted.

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity)
OKLAHOMA MILITARY DEPARTMENT

Street Address
3501 MILITARY CIRCLE

City
OKLAHOMA CITY, OK ZIP Code **73111-4398**

County
OKLAHOMA

Phone Number (Include Area Code)
405/425-8334

II. LOCATION OF TANK(S)

Latitude _____ Longitude _____

(If same as Section I, check one box)

Facility Name or Company Name (Include, or approximate)
Oklahoma National Guard Armory

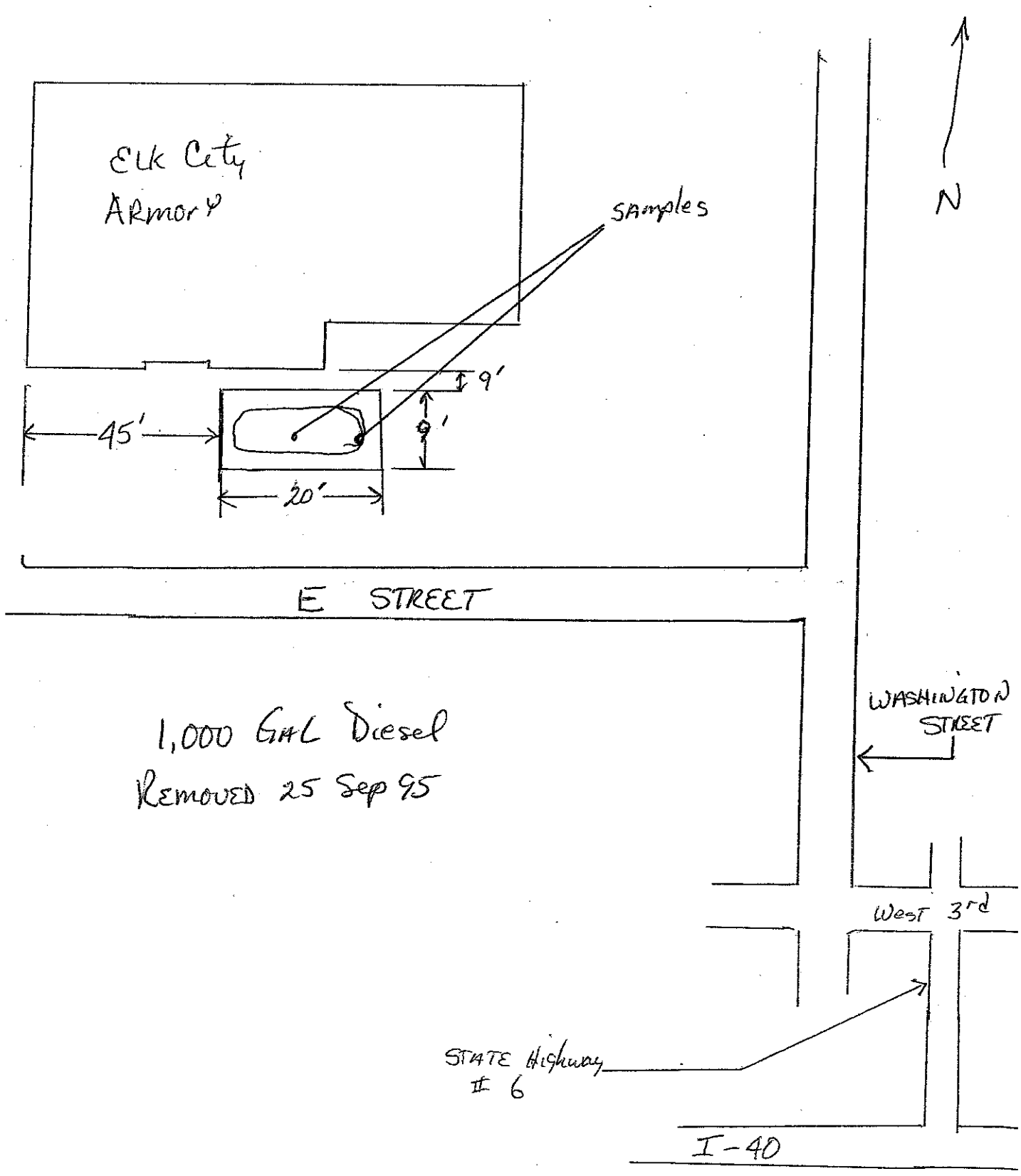
Street Address, P.O. Box and city/zip
*609 W. Avenue E
Elk City, Ok 73648*

City _____ State _____ Zip Code _____

County _____

IX. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location.)

Tank Identification Number: <u>D-505807</u>	Tank No. <u>1</u>	Tank No. <u> </u>	Tank No. <u> </u>	Tank No. <u> </u>	Tank No. <u> </u>
1. Status of Tank (mark only one) Currently in Use <input type="checkbox"/> Temporarily Out of Use <input type="checkbox"/> <small>(Reference to Section 2.1)</small> Permanently Out of Use <input checked="" type="checkbox"/> <small>(Reference to Section 2.1)</small> Amendme... of Information <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Date of Installation (mo./year)	<u>1957</u>				
3. Estimated Total Capacity (gallons)	<u>1,000</u>				
4. Material of Construction (Mark all that apply) Asphalt Coated or Bare Steel <input checked="" type="checkbox"/> Cathodically Protected Steel <input type="checkbox"/> Epoxy Coated Steel <input type="checkbox"/> Composite (Steel with Fiberglass) <input type="checkbox"/> Fiberglass Reinforced Plastic <input type="checkbox"/> Lined Interior <input type="checkbox"/> Double Walled <input type="checkbox"/> Polyethylene Tank Jacket <input type="checkbox"/> Concrete <input type="checkbox"/> Excavation Liner <input type="checkbox"/> Unknown <input type="checkbox"/> Other, Please specify _____ _____ Has tank been repaired? <input checked="" type="checkbox"/> <u>NO</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Piping (Material) (Mark all that apply) Bare Steel <input checked="" type="checkbox"/> Galvanized Steel <input type="checkbox"/> Fiberglass Reinforced Plastic <input type="checkbox"/> Copper <input type="checkbox"/> Cathodically Protected <input type="checkbox"/> Double Walled <input type="checkbox"/> Secondary Containment <input type="checkbox"/> Unknown <input type="checkbox"/> Other, Please specify _____ _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Piping (Type) (Mark all that apply) Suction: no valve at tank <input type="checkbox"/> Suction: valve at tank <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Gravity Feed <input type="checkbox"/> Has piping been repaired? <input checked="" type="checkbox"/> <u>NO</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



ALPHA ANALYTICAL LABORATORIES
 2700 N.W. 39TH STREET
 OKLAHOMA CITY, OK 73112

CHAIN OF CUSTODY RECORD

Package Shipped From: Oklahoma Military Dept Date: 27 Sep 95

ATTN: OKDE-D
 Address: 3501 Military Circle
Oklahoma City, Ok 73111-4398

Phone # 425-8334 Fax # 425-8571 Contact: LTC Englebretson

Condition of Package Upon Receipt: _____ P.O. # _____
 Number of Samples Received: 2 Person Sampling: LTC Englebretson
 Project I.D.: Elk City Sample Type: Soil

NUMBER	RECEIVING SAMPLE #	DESCRIPTION	VAL LOG NUMBER
1	Center	BTEX & TPH	952282
2	Side	BTEX & TPH	952283
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			

* Use additional sheets as needed.

Comments: _____

Relinquished by: [Signature] Date: 27 Sep Time: 1700 Received by: P. Schmidt
 Relinquished by: _____ Date: _____ Time: _____ Received by: _____
 Relinquished by: _____ Date: _____ Time: _____ Received by: _____
 Relinquished by: _____ Date: _____ Time: _____ Received by: _____
 Relinquished by: _____ Date: _____ Time: _____ Received by: _____

Stanley Engineering, Inc.
Alpha Analytical Laboratories Division
 2700 NW 39th Street
 Oklahoma City, Oklahoma 73112
 (405) 948-1979 (405) 948-1964 (FAX)

Dr. Keith L. Stanley, P.E., C.I.H., Director of Field and Analytical Services

Client: Oklahoma Military Department
Address: 9501 Military Circle
 Oklahoma City, OK 73111-4398
Project: Elk City
Req. By: LTC Englebretson

Date Collected: 9-27-95
Date Analyzed: 10-3-95
Analyst: Tony LaValle
Received by: Penny Schmidt
Lab ID: 952282, 952283

Sample ID	Parameter	Media	Method	Detection Limit	Result	Units
#1 Center 952282	Benzene	Soil	EPA 8020	0.0005	<0.0005	mg/kg
	Toluene	Soil	EPA 8020	0.0005	0.0006	mg/kg
	Ethylbenzene	Soil	EPA 8020	0.0005	<0.0005	mg/kg
	Xylene	Soil	EPA 8020	0.0005	<0.0005	mg/kg
	GRO	Soil	EPA 8015(m)	0.1	0.127	mg/kg
	DRO	Soil	EPA 8100	1.0	<1.0	mg/kg
#2 Side 952283	Benzene	Soil	EPA 8020	0.0005	<0.0005	mg/kg
	Toluene	Soil	EPA 8020	0.0005	<0.0005	mg/kg
	Ethylbenzene	Soil	EPA 8020	0.0005	<0.0005	mg/kg
	Xylene	Soil	EPA 8020	0.0005	<0.0005	mg/kg
	GRO	Soil	EPA 8015(m)	0.1	<0.1	mg/kg
	DRO	Soil	EPA 8100	1.0	<1.0	mg/kg

Media: W = Water, WW = Wastewater, DW = Drinking Water, S = Solid, SL = Sludges, A = Air

CERTIFICATIONS: OWRB # 2417; NVLAP # 1368; PROFICIENCY ANALYTICAL TESTING PROGRAM (PAT) 73112001

SEI/AAL is not responsible for any errors resulting from improper or incorrect sampling procedures; errors resulting from atmospheric conditions at the time of sampling or during shipment; or errors resulting from shipping conditions

Completed By _____

CERTIFICATE OF DESTRUCTION

Scrapping/Disposal Company:

Site of Destruction:

None

None

NORTHERN OKLA METALS

Penny OKLA

Tank Removal Contractor:

OK Military dept

3501 Mt. Joy Cir

JLC, Jr

Tank Identification:

Tank No.: _____

Size: 1000

Location: Company Elk City National guard ARMORY

Address _____

City/State Elk City OK

Destruction Date: _____

I certify that the above described tank has been rendered unusable for the storage of any fluids, and all removed fluids, sludges and the tanks were disposed of in accordance with all applicable local, state, and federal regulations.

* By [Signature]

Title _____

Subscribed and Sworn to before me this _____ day of _____
in the year _____.

Notary Public _____ My Commission Expires: _____

0505801 W/

Notification for Underground Storage Tanks		STATE USE ONLY	
State Agency Name and Address:		ID NUMBER	0505807
TYPE OF NOTIFICATION		DATE RECEIVED	8/5/93 Rf
<input type="checkbox"/> A. NEW FACILITY	<input type="checkbox"/> B. AMENDED	<input checked="" type="checkbox"/> C. CLOSURE	A. Date Entered into Computer _____
No. of tanks at facility _____		B. Data Entry Clerk Initials _____	
No. of continuation sheets attached _____		C. Owner Was Contacted to Clarify Responses, Comments _____	
INSTRUCTIONS			
Please type or print in ink all items except "signature" in section V. This form must be completed for each location containing underground storage tanks. If more than five (5) tanks are owned at this location, photocopy the following sheets, and staple continuation sheets to the form.			

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act, (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

- a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances; and
- b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use
- c) if the State agency so requires, any facility that has undergone any changes to facility information or tank system status (only amended tank information needs to be included)

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of regulated substances, and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. Gasoline, used oil, or diesel fuel; and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

- 1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes.
- 2. tanks used for storing heating oil for consumptive use on the premises where stored;

- 3. septic tanks;
- 4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1975 or which is an intrastate pipeline facility regulated under State laws.
- 5. surface impoundments, pits, ponds, or lagoons
- 6. storm water or waste water collection systems.
- 7. flow-through process tanks
- 8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations.
- 9. storage tanks situated in an underground area (such as a basement, cell, manworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit) and 14.7 pounds per square inch absolute.

Where To Notify? Send completed forms to

Oklahoma Corporation Commission
Underground Storage Tank Program
Jim Thorpe Building
Room 240
Oklahoma City, OK 73105

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use. 3. If the State requires notification of any amendments to facility send information to State agency immediately.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed \$10,000 for each tank for which notification is not given or for which false information is submitted.

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity)
Oklahoma Military Department (OKDF)

Street Address
3501 Military Circle

City Okla. City State OK ZIP Code 73111

County Okla.

Phone Number (include Area Code)
405-425-8335

II. LOCATION OF TANK(S)

If required by State, give the geographic location of tanks by degrees, minutes, and seconds. Example: Lat. 42, 36, 12 N Long. 85, 24, 17 W

Latitude _____ Longitude _____

(if same as Section I, mark box here)

Facility Name or Company Site Identifier, as applicable
Oklahoma National Guard Armory

Street Address (P.O. Box not acceptable)
609 W. Avenue E.

City Elk City State Ok. ZIP Code 73648

County _____ Municipality _____

IX. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location)

Tank Identification Number	Tank No. _____	Tank No. _____	Tank No. _____	Tank No. _____	Tank No. _____
1. Status of Tank (mark only one):	Currently in Use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Temporarily Out of Use <small>(Remember to file out section X.)</small>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Permanently Out of Use <small>(Remember to file out section X.)</small>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Amendment of Information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Date of Installation (mo./year)					
3. Estimated Total Capacity (gallons)					
4. Material of Construction (Mark all that apply)	Asphalt Coated or Bare Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Cathodically Protected Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Epoxy Coated Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Composite (Steel with Fiberglass)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fiberglass Reinforced Plastic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Lined Interior	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Double Walled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Polyethylene Tank Jacket	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Concrete	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Excavation Liner	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other, Please specify _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has tank been repaired?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Piping (Material) (Mark all that apply)	Bare Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Galvanized Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fiberglass Reinforced Plastic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Copper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Cathodically Protected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Double Walled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Secondary Containment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please specify _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Piping (Type) (Mark all that apply)	Suction: no valve at tank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Suction: valve at tank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Pressure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Gravity Feed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Has piping been repaired?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

X- CERTIFICATION OF COMPLIANCE (COMPLETE FOR ALL NEW AND UPGRADED TANKS AT THIS LOCATION)

Tank Identification Number: _____

Tank No. _____ Tank No. _____ Tank No. _____ Tank No. _____ Tank No. _____

1. Installation

- A. Installer certified by tank and piping manufacturers
- B. Installer certified or licensed by the implementing agency
- C. Installation inspected by a registered engineer
- D. Installation inspected and approved by implementing agency
- E. Manufacturer's installation checklists have been completed
- F. Another method allowed by State agency. Please specify:

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2. Release Detection (Mark all that apply)

- A. Manual tank gauging
- B. Tank tightness testing
- C. Inventory controls
- D. Automatic tank gauging
- E. Vapor monitoring
- F. Groundwater monitoring
- G. Interstitial monitoring double walled tank/piping
- H. Interstitial monitoring/secondary containment
- I. Automatic line leak detectors
- J. Line tightness testing
- K. Other method allowed by Implementing Agency. Please specify.

	TANK	PIPING	TANK	PIPING	TANK	PIPING	TANK	PIPING	TANK	PIPING
A.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. Spill and Overfill Protection

- A. Overfill device installed
- B. Spill device installed

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

OATH: I certify the information concerning installation that is provided in section XI is true to the best of my belief and knowledge.

Installer: _____ Signature _____ Date _____
 Name _____
 Position _____ Company _____

DETACHMENT 2 BATTERY A 1ST BATTALION 171ST FIELD ARTILLERY
OKLAHOMA ARMY NATIONAL GUARD
P.O. BOX 705, ELK CITY, OKLAHOMA 73648-0705

8/5/93
file
RJ
28 July 1993

MEMORANDUM TO Oklahoma Military Department ATTN: 1SG Doyle Balzer, OKDE
3501 Military Circle, OKC, OK. 73111

Subject: Underground Fuel Tank

1. The underground fuel storage tank at this unit has been out of service since July 1988 and no fuel has been purchased or pumped since that date.
2. Any further questions should be directed to SSG Dennis L Baldock, phone (405)225-2048.

Gregory L Lankford

GREGORY L. LANKFORD
1SG, FA, OKARNG
Det Commander

30 JUL 93 10 12

RECEIVED
OKFAC



STATE OF OKLAHOMA
MILITARY DEPARTMENT
3501 MILITARY CIRCLE
OKLAHOMA CITY, OKLAHOMA 73111-4398
405-425-8000 DCTN 940-3210



August 3, 1993

*file
8/5/93
Rf*

Directorate of Engineering

SUBJECT: Underground Fuel Storage Tank at Elk City, Oklahoma

Oklahoma Corporation Commission
Underground Storage Tank Program
Jim Thorpe Building
Oklahoma City, Oklahoma 73105

The Oklahoma Military Department has permanently taken this tank out of service as of July 1988.

This tank is empty, will not be used again, and will remain in the ground.

Please adjust your records to show this tank permanently out of service.

Point of Contact for this matter is ISG Doyle Balzer at 405/425-8335.

Doyle L. Balzer
Doyle L. Balzer
ISG, OKARNG
Construction Consultant

OK

7AS

8/5/93

Notification for Underground Storage Tanks	STATE USE ONLY
State Agency Name and Address: <u>Oklahoma Military Department</u> <u>3501 Military Circle, Okc Ok 73111</u>	ID NUMBER <u>0-505807</u>
TYPE OF NOTIFICATION	DATE RECEIVED
<input type="checkbox"/> A. NEW FACILITY <input type="checkbox"/> B. AMENDED <input type="checkbox"/> C. CLOSURE No. of tanks at facility _____ No. of continuation sheets attached _____	A. Date Entered into Computer _____ B. Data Entry Clerk Initials _____ C. Owner Was Contacted to _____ Clarify Responses, Comments: _____ _____ _____
INSTRUCTIONS Please type or print in ink all items except "signature" in section V. This form must be completed for each location containing underground storage tanks. If more than five (5) tanks are owned at this location, photocopy the following sheets, and staple continuation sheets to the form.	

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1984, or that are brought into use after May 8, 1984. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act, (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably accurate records, or in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

- a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and
- b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.
- c) if the State agency so requires, any facility that has undergone any changes to facility information or tank system status (only amended tank information need to be included).

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. Gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fungicides.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are—

- 1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes.
- 2. tanks used for storing heating oil for consumer use on the premises where stored.

- 3. access tanks;
- 4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an offshore pipeline facility regulated under Subpart 300.100;
- 5. surface impoundments, pits, ponds, or lagoons;
- 6. storm water or waste water collection systems;
- 7. low-drawoff process tanks;
- 8. liquid traps or accumulators gathering lines directly related to an oil or gas production and gathering operation;
- 9. storage tanks located in an underground area (such as a basement, cellar, manway, drift, shaft, or tunnel) if the storage tank is below-surface or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subpart C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is found at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

When To Notify? Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still on the ground, must notify by May 8, 1984. Owners who bring underground storage tanks into use after May 8, 1984, must notify within 30 days of bringing the tanks into use. If the State requires notification of any circumstances to locate and eliminate tanks, agency immediately.

Where To Notify? Send completed forms to:
 Oklahoma Corporation Commission
 Underground Storage Tank Program
 Jim Thayer Building
 Room 248
 Oklahoma City, OK 73105

Penalties: Any owner who knowingly fails to notify or who provides false information shall be subject to a civil penalty not to exceed \$5,000 for each tank for which notification is not given or for which false information is furnished.

I. OWNERSHIP OF TANK(S)

II. LOCATION OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity)
OKLAHOMA MILITARY DEPARTMENT

Street Address
3501 MILITARY CIRCLE

OKLAHOMA CITY, OK 73111-4398
 City State ZIP Code

OKLAHOMA
 Country

405/425-8334
 Phone Number (include Area Code)

I received by State, upon the appropriate numbered form by department of environmental protection, Executive Order 42, 24, 12 N Lamp 06, 24, 1777

Latitude _____ Longitude _____

(If as on Section I, mark one box—)

Facility Name, or if Company, the location, as applicable
William National Guard Armory

Street Address, P.O. Box or other location
6111 W. Ardmore E.

Elk City, Ok 73648
 City State ZIP Code

County _____ Municipality _____

IX. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location.)

Tank Identification Number D-505807 Tank No. 1 Tank No. Tank No. Tank No. Tank No.

1. Status of Tank (mark only one)	Currently in Use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Temporarily Out of Use <small>(Reference to Section A.1)</small>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Permanently Out of Use <small>(Reference to Section A.1)</small>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Amendment of Information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2. Date of Installation (mo./year)	<u>1957</u>				
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3. Estimated Total Capacity (gallons)	<u>1,000</u>				
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4. Material of Construction: (Mark all that apply)	Asphalt Coated or Bare Steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Cathodically Protected Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Epoxy Coated Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Composite (Steel with Fiberglass)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fiberglass Reinforced Plastic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Lined Interior	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Double Walled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Polyethylene Tank Jacket	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Concrete	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Excavation Liner	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other, Please specify	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Has tank been repaired?	<u>NO</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5. Piping (Material) (Mark all that apply)	Bare Steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Galvanized Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fiberglass Reinforced Plastic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Copper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Cathodically Protected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Double Walled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Secondary Containment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other, Please specify	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

6. Piping (Type) (Mark all that apply)	Suction: no valve at tank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Suction: valve at tank	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Pressure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Gravity Feed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Has piping been repaired?	<u>NO</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Appendix F
Site Photographs

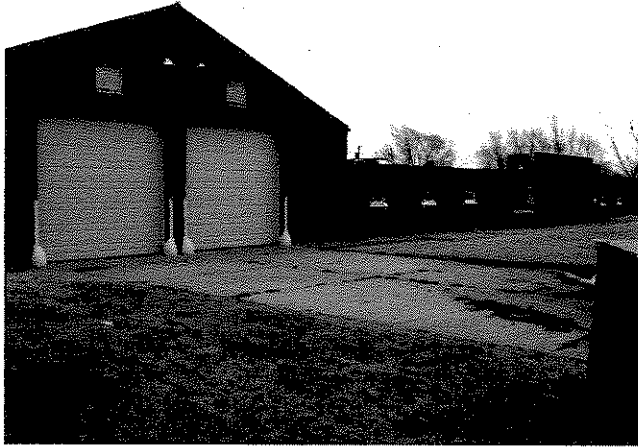


Photo #1: Property entrance



Photo #2: Northwest view



Photo #3: Southwest view



Photo #4: Close-up view of putty on an outside window



Photo #5: Corner metal siding near an overhead door

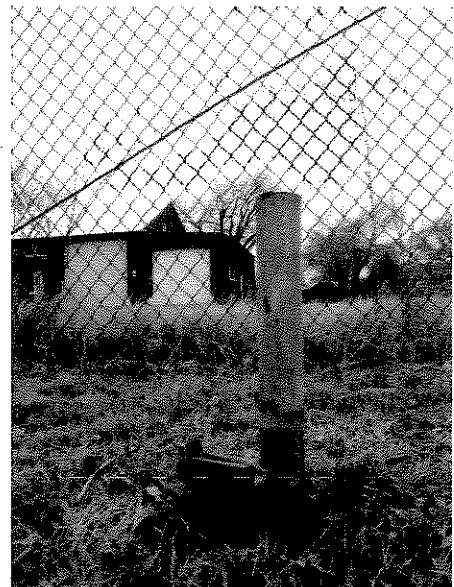


Photo #6: Gate safety latch outside the east side fence

Date Photos Taken: April 17, 2009

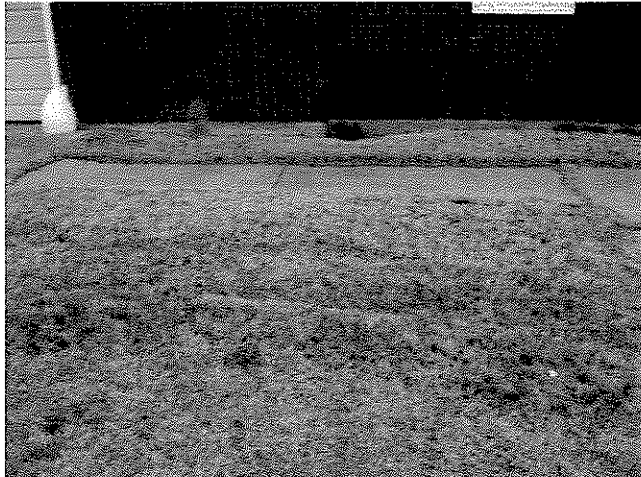


Photo #7: Area south of the sidewalk where a diesel UST was once located



Photo #8: South doors outside the Maintenance Area



Photo #9: South doors inside the Maintenance Area

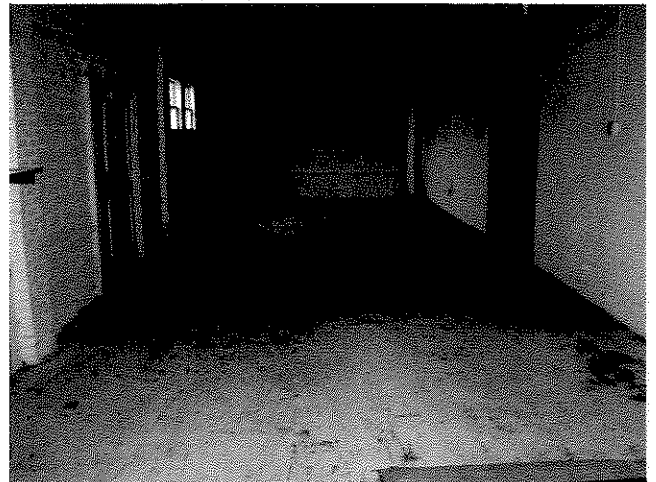


Photo #10: Maintenance Area



Photo #11: Suspect lead-based paint on an overhead door



Photo #12: Red primer located on the floor of the Maintenance Area

Date Photos Taken: April 17, 2009

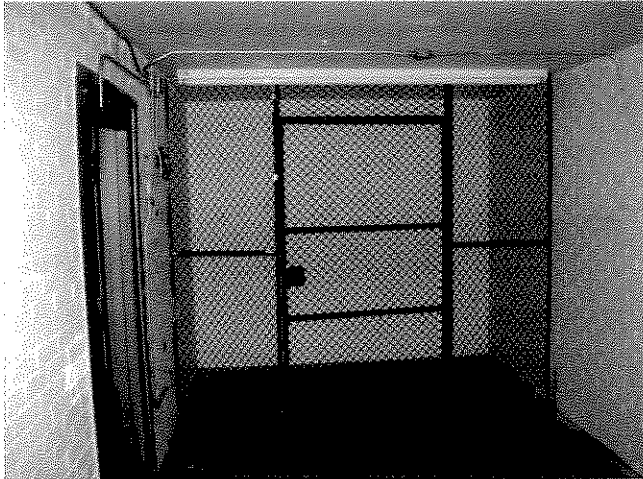


Photo #13: Room inside the Supply Room



Photo #14: Hallway #7



Photo #15: TSI along the wall of the main building area



Photo #16: TSI across the Officers Latrine



Photo # 17: TSI inside the Enlisted Latrine



Photo #18: Close-up view of the TSI, which may contain ACM

Date Photos Taken: April 17, 2009

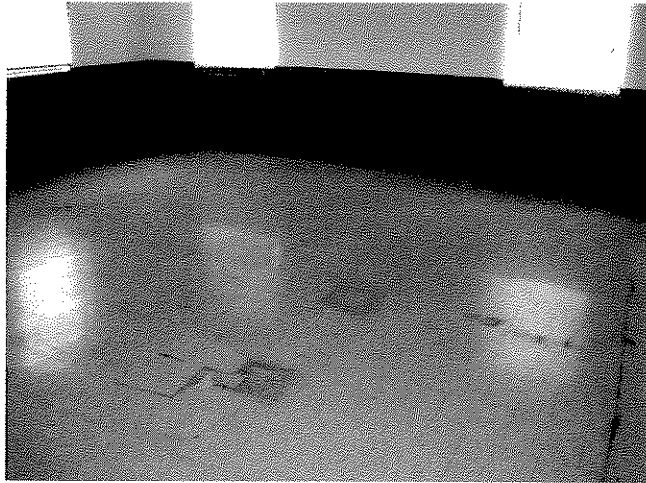


Photo #19: Day Room with 12" x 12" floor tile



Photo #20: Green-colored metal surface pipe inside the Supply Room



Photo #21: Fire door between the Drill Floor and the Maintenance Area

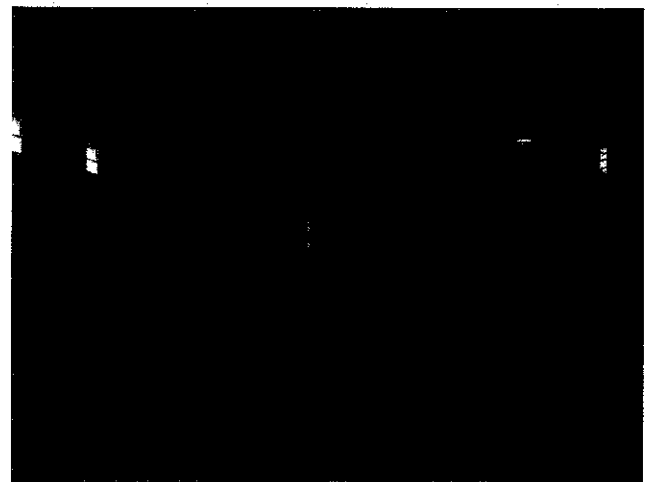


Photo #22: Drill Floor

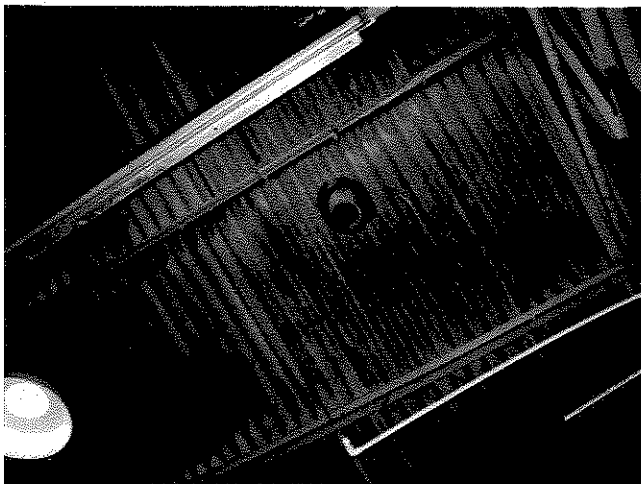


Photo #23: One of four exhaust pipes in the ceiling of the Drill Floor



Photo #24: Yellow primer located on the surface of the Drill Floor

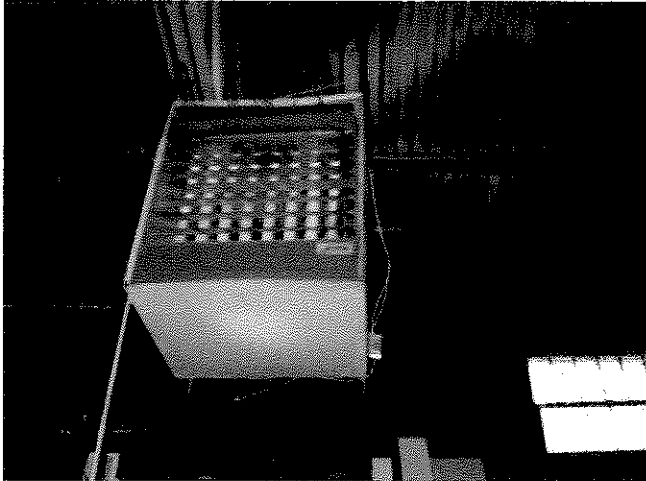


Photo #25: Drill Floor HVAC Unit



Photo #26: Utility Room with TSI near ceiling

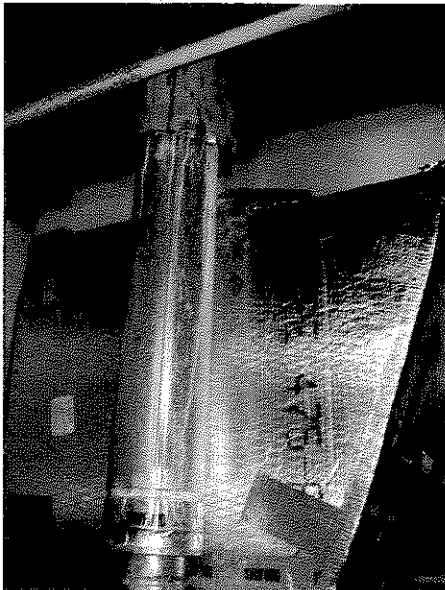


Photo #27: Exhaust pipe from the
Utility Room gas furnace

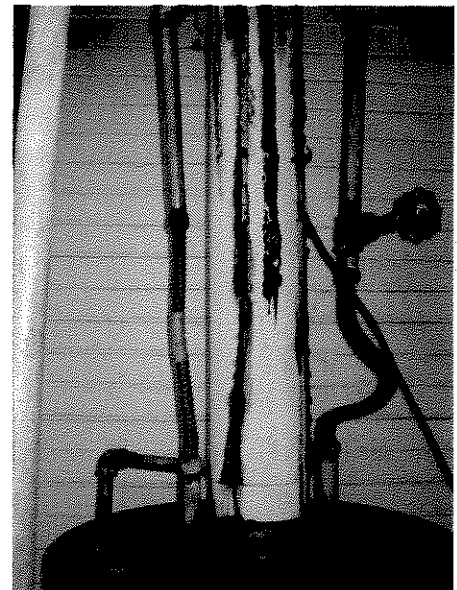


Photo #28: Cylinder pipe wrapping
above the boiler

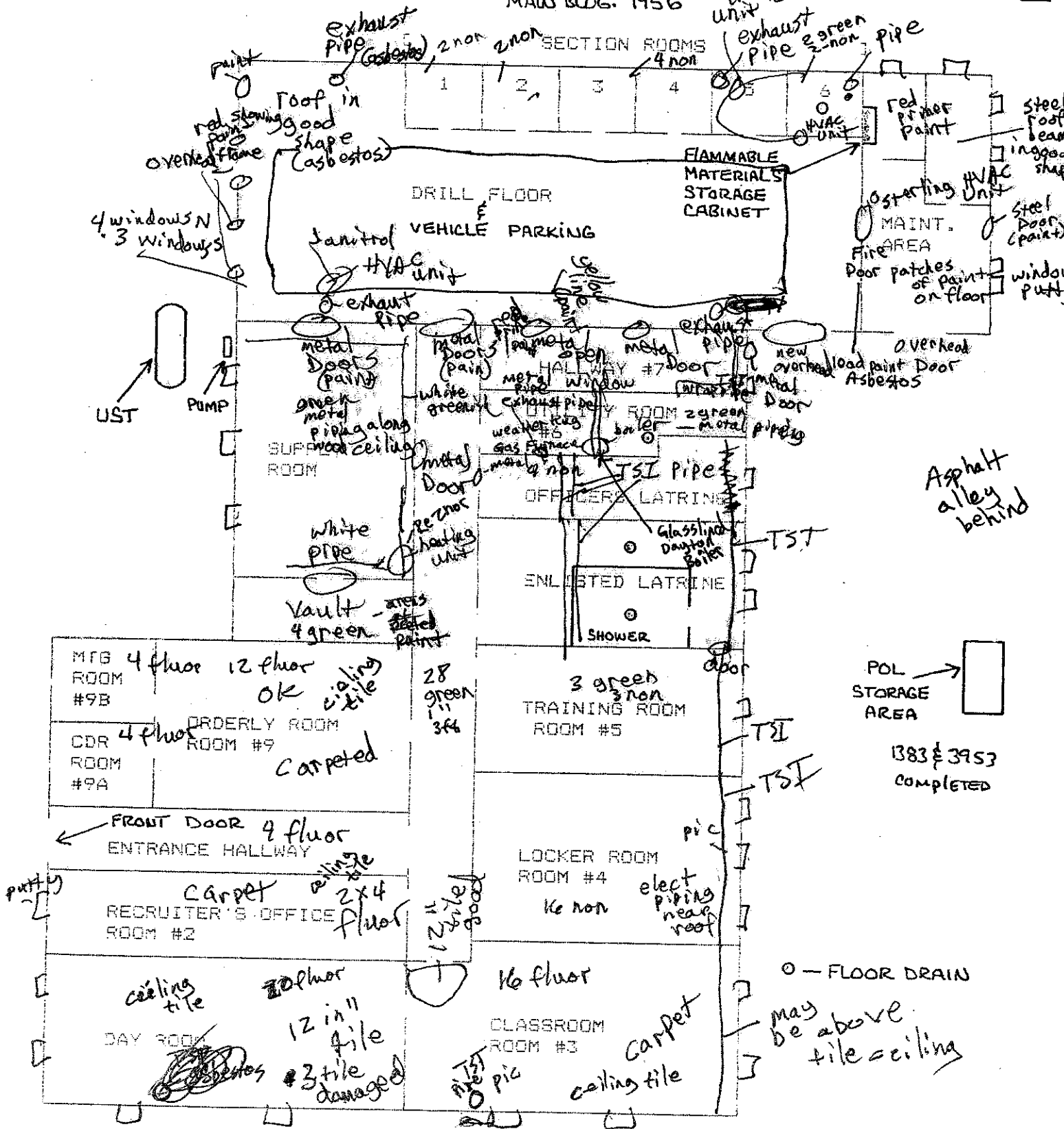
Appendix G

Field Notes

ELK CITY ARMORY

VISIT: 1 MARCH 1995

BUILT: DRILL FLOOR AREA: 1947
MAW BLDG: 1956



○ - FLOOR DRAIN
may be above tile ceiling

Fire Hydrant

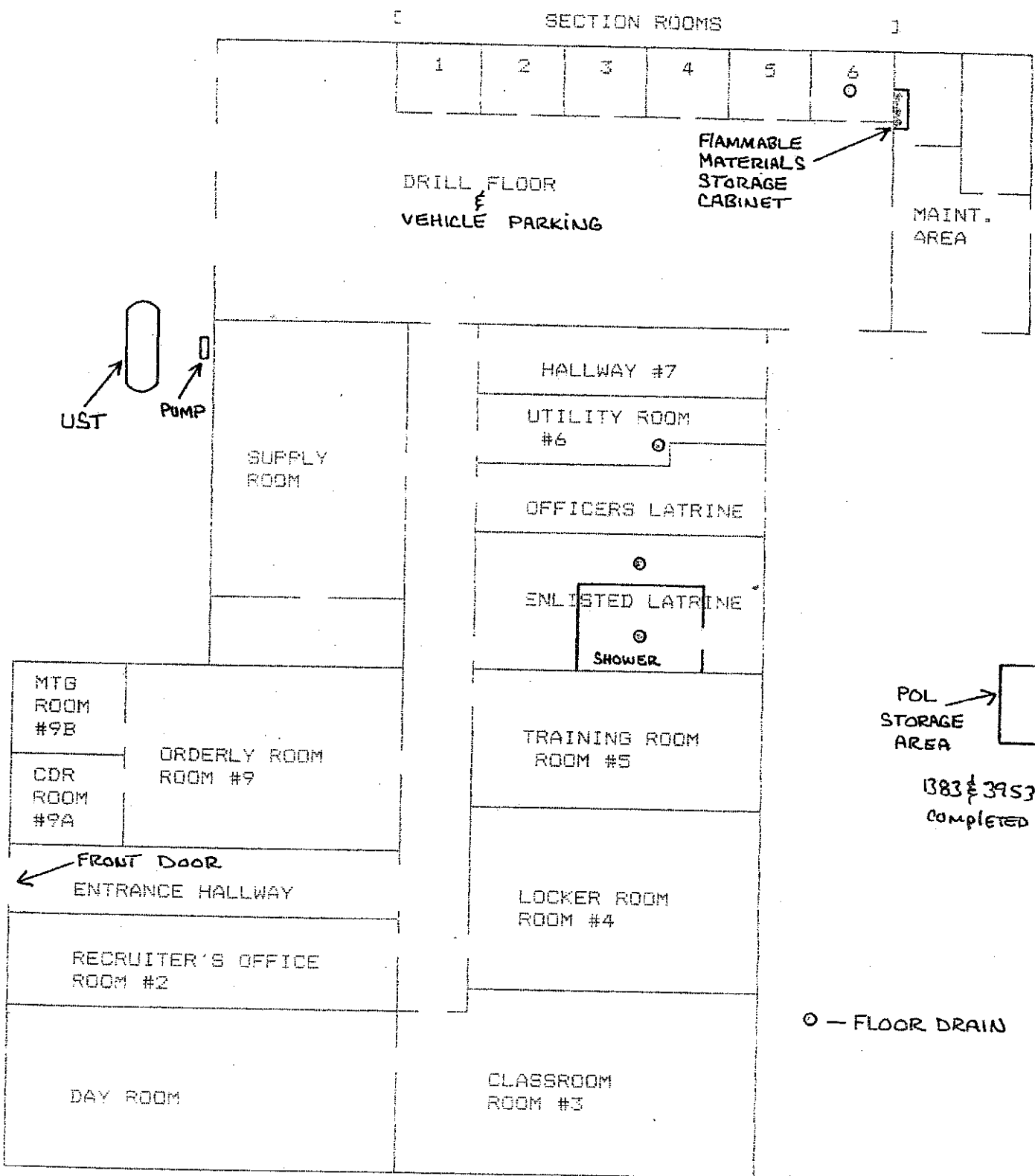
Appendix H

Floor Plan

ELK CITY ARMORY

VISIT: 1 MARCH 1995

BUILT: DRILL FLOOR AREA: 1947
MAW BLDG: 1956



Appendix I

Qualification(s) of Environmental Professionals

Environmental Professional Qualifications

Jonathan Reid holds a Bachelors Degree in Environmental Science with an emphasis in Natural Resources and a Minor in Soil Science from Oklahoma State University. Mr. Reid has 6 years experience in environmental sampling, remediation, and technical studies. He is an Environmental Programs Specialist III with the Land Protection Division of the Oklahoma Department of Environmental Quality. His responsibilities include: project management of Brownfield/Voluntary Cleanup Project (VCP) sites, fuel spill sites, conducting Targeted Brownfield Assessments, and assisting other project managers on technical activities at other Brownfield/VCP and National Priorities List sites as needed.

Rita R. Kottke, Ph.D., holds a Doctorate in Environmental Science from Oklahoma State University. She is an Environmental Programs Manager with the Land Protection Division of the Oklahoma Department of Environmental Quality. She functions as the DEQ's Brownfield Coordinator, Brownfield Cleanup Revolving Loan Fund Contact, Superfund Site Redevelopment Contact, Superfund Emergency Response Contact, Land Revitalization/Reuse Contact, and as a liaison between the state, EPA, and local communities. Her responsibilities also include acting as technical project manager at various Voluntary Cleanup and Superfund sites within the state. She has been with the agency for sixteen years, working in the Superfund and Brownfields Programs. She has sixteen years experience performing site assessments of real property. She was heavily involved in the formulation of the Brownfields Program's implementing rules, the negotiation of DEQ's Brownfields Memorandum of Agreement (MOA) with EPA, and the development of the Brownfield Cleanup Revolving Loan Fund Grant Proposal.

Heather Mallory holds a Bachelors and Masters Degree in Environmental Science from the University of Oklahoma. Mrs. Mallory has 7 years experience in environmental sampling and remediation. She is an Environmental Programs Specialist with the Land Protection Division of the Oklahoma Department of Environmental Quality. Her responsibilities include: project management of the Tar Creek Superfund Site, conducting and reviewing Targeted Brownfield Assessments, and project management of remediation and sampling of abandoned hazardous waste sites and National Guard armories across the State of Oklahoma.