

TARGETED BROWNFIELD ASSESSMENT

For

**Oklahoma Army National Guard
Former Pawhuska Armory
Pawhuska, Oklahoma**

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

Prepared by:



August 24, 2011

Prepared for:

The City of Pawhuska
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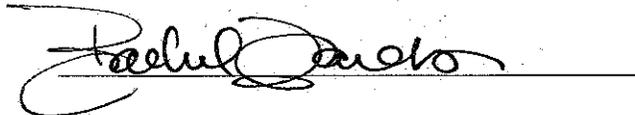
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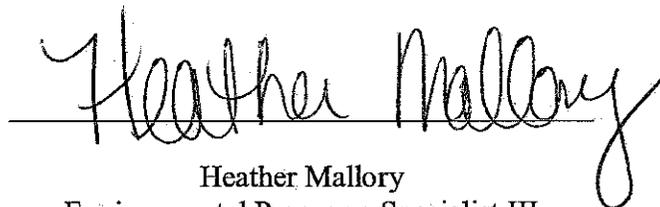
I declare that to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of this part. I have specific qualifications based on education training, and experience to assess a property of the nature, history and setting of the 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 Brownfields 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, the Oklahoma Department of Environmental Quality (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

On March 5, 2010 Christa Welch and Sara Downard of the DEQ performed site reconnaissance of the Pawhuska Armory located at 823 East 8th Street, Pawhuska, Oklahoma as part of a Targeted Brownfield Assessment (TBA). Rachel Francks completed this TBA in Christa Welch's absence. The subject property is in a section of Pawhuska characterized by residential properties. The purpose of the TBA is to identify potential environmental concerns by reviewing historical data, regulatory information, and by performing a visual inspection of the site and surrounding area. The following is an executive summary of the environmental site assessment results:

- The Works Progress Administration (WPA) initiated construction of the former Pawhuska Armory in 1935 and concluded with a dedication of the building in 1938. The land for the building was deeded by the City of Pawhuska in September 1935, for benefit of the Oklahoma National Guard. The subject property is currently owned by the Department of Environmental Quality. After all remediation activities have taken place and a notice of remediation and easement has been filed in the Osage County, courthouse, the deed to the property will revert to the City of Pawhuska.
- Historically, the subject property served to quarter contingents of the Oklahoma Army National Guard. Tools, heavy equipment, firearms, gas masks, chemical suits, and communication equipment were stored in the building. An indoor firing range was also onsite for target practice. The firing range is periodically flooded with water and likely to have lead dust contamination. It is unknown if the firing range contains any sand. The building is contaminated with lead dust, lead-based paint, and asbestos. The Oklahoma Department of Environmental Quality Site Cleanup Assistance Program plans to clean up the lead and asbestos contamination on the subject property and properly dispose of all associated waste.
- The property formerly contained a 1,000 gallon underground storage tank (UST) that was removed from the site in 1995. The vent pipe was left in place. Analytical results were below Oklahoma Corporation Commission (OCC) action limits.
- Adjoining properties consist of residences and undeveloped land. Historical aerial photographs show residences and a park adjacent to the subject property.
- Sanborn Fire Insurance maps showed that the subject property was park land before the armory was built. Adjacent properties consisted of residential structures. During the interview in November 2010 with John Gibson, environmental specialist for the military department, Christa Welch asked about the 1936 armory.
- No National Priority List (NPL), delisted NPL sites, active or archived Comprehensive Environmental Response, Compensation, and Liability Information Search (CERCLIS) site listings, Resource Conservation and Recovery Act (RCRA) non-corrective action sites (CORRACTS) treatment, storage, and disposal (TSD) listings, Emergency Response Notification System (ERNS) list, Institutional Controls/Engineering Controls, or State landfills and/or solid waste disposal sites were found on the subject property or within the ASTM recommended search radii. No RCRA generators, Voluntary Cleanup (VCP) sites, or Brownfield sites were found on the subject property. The subject property is on the DEQ Site Cleanup Assistance Program (SCAP) list for cleanup of lead and asbestos contamination. There were seven RCRA CORRACTS listed within one mile of the subject property.

- Four leaking underground storage tank (LUST) cases were reported in the OCC UST database within ½ mile of the subject property. No LUST cases were reported on the subject property.
- According to the OCC's database, there are no registered UST's adjacent to subject property. There are no up-gradient LUST cases, relative to the subject property. The subject property does not have any LUST cases on record. The UST at the subject property was removed on June 8, 1995 according to military records. The tank did not appear to have any leaks upon removal. Soil samples showed gasoline range organics total xylenes with a range of 0.7µg/Kg and no diesel range organics present in the UST excavation.
- No oil and gas development was found in the OCC oil and gas records for the subject property and quarter, quarter, quarter sections directly above and upgradient of the site.
- One pole mounted transformer, in good condition without any leaks, are located on the northwest side of the subject property. It is unknown if the transformer contains polychlorinated biphenyls (PCBs). Fluorescent lighting ballasts are located throughout the building. The lighting ballasts are all in good condition. It is unknown if the lighting ballasts contain PCBs. Fluorescent light-bulbs generally contain mercury.

2.0 INTRODUCTION

The State of Oklahoma Department of Environmental Quality under a Brownfield Assistance Agreement (No. RP96681001-0) (Ref. 1) with the U.S. Environmental Protection Agency (EPA) conducted a Targeted Brownfield Assessment of a property located at 823 East 8th Street Pawhuska, Oklahoma.

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 Pawhuska 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's 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.

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. Environmental Protection Agency (EPA).

2.2 Detailed Scope-of-Services

DEQ examined the current use of the property and then identified the historical uses of the property to determine if recognized environmental conditions exist. 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. DEQ also hired a contractor to conduct asbestos, lead-based paint, and lead dust assessments. A good faith effort

was made to identify possible environmental conditions that might affect the development of the property.

2.3 Significant Assumptions

History and knowledge of the subject property shows that the building was used as a National Guard Armory. Prior to armory construction in 1936, the property was park space owned by the City of Pawhuska. There has been no oil and gas exploration on the property according to OCC records.

Since the building was constructed in 1936, the building is likely to contain asbestos containing material (ACM). The U.S. began banning the use of asbestos in most building materials in the 1970s due to studies confirming the harmful health effects caused by exposure to airborne asbestos. The building has limited asbestos containing materials. All asbestos containing floor tile and mastic have been removed from the building. No information was available on the removal of the floor tile. Marshall Environmental Management conducted an asbestos survey on July 19, 2008 and found asbestos only in the caulking around the windows of the building. (see Appendix F).

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 Brownfields 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 representatives of the property, and observations of the environmental professional. The result of this assessment, as written in this report, is valid as of the date of report. The assessment does not include sampling of rock, groundwater, surface water, or air. For qualifications of environmental professionals see Appendix G.

2.5 Special Terms and Conditions

This assessment report has been prepared for the City of Pawhuska, Oklahoma by the DEQ using EPA funding. Information about this report will be provided to the EPA for its files. This report and the working file are public record and subject to the Oklahoma Open Records Act and the federal Freedom of Information Act.

3.0 SITE CHARACTERIZATION AND HISTORY

3.1 Location and Legal Description

The subject property is located on 823 East 8th Street in between Ruble and Parker Avenues in Pawhuska, Oklahoma. This property consists of approximately one acre of land and contains the former National Guard Armory building. A site map and topographical map depicting the property has been provided in Appendix A and Appendix B respectively.

The subject property is located in section 3, township 25N, and range 9E. The armory building's legal location is described as lots 20 to 24 block 47, in the City of Pawhuska, Osage County, Oklahoma.

Records at the Osage County Courthouse were searched to determine ownership and operational history of the subject property. It was determined that the property was previously owned by a Mr. H.H. Brenner, the original trustee of the land from part of the Prudom Addition, and deeded to the Oklahoma National Guard in 1936.

3.2 Site and Vicinity Characterization

The former Pawhuska Armory was completed in 1938 by the Works Progress Administration. According to Osage County land records, the land for the building was deeded by the City of Pawhuska to the State of Oklahoma, on May 2, 1936, for benefit of the Veterinary Company No. 120 of Pawhuska, Oklahoma National Guard (see Appendix A). The subject property is a small tract of land, 1.4 acres. Vehicle maintenance, fueling, small arms fire, and storage occurred onsite. The subject property is located at 823 E. 8th Street in Pawhuska, Oklahoma bound by an unnamed alley to the north, Ruble Avenue to the east, and Parker Avenue to the west. The areas where the subject property and adjacent properties are located are best characterized by residential development. A site vicinity map of the subject property can be found in Appendix A.

Lead dust, lead-based paint, and asbestos were discovered on the subject property by DEQ contractor, Marshall Environmental Management. Sample results for the lead-based paint, lead dust, and asbestos inspections can be found in Appendix F.

Utilities that serve the subject property are Oklahoma Gas and Electric for natural gas and the City of Pawhuska for water, sewer, and electric according to Paul McAlexander, environmental specialist for the Oklahoma Military Department (OMD) (Ref. 14). According to the Oklahoma Water Resources Board Water Information Mapping System, the subject property is served by the City of Pawhuska supplied surface water, public water supply ID 1021301.

A review of the topographical map indicated that the surface elevation of the site is approximately 812 feet above mean sea level. The topographical gradient is to the northeast. The topographical map can be found in Appendix B.

Underground features at the subject property presently include utility lines and formerly, one UST on the south side of the building. According to military department documents, the UST was installed in 1958 for fuel storage and dispensing. The UST vent pipe remains on the subject property. The UST was last used in July 1980 permanently closed in situ August 5, 1993. The UST was excavated when funding became available June 8, 1995 and removed from the subject

property. Soil testing adjacent to the tank was non-detect. See Appendix C for information on the UST.

3.3 Description of Structures, Roads, and Other Improvements

The subject property consists of approximately half a city block. The two city lots are used to house the former armory building, driveway, sidewalk, and yard. The driveway is located on the east side of the building and is a paved area leading to the overhead doors that are attached to the building. The sidewalk is located on the south side of the building.

The adjacent property consists of residential structures to the east and north, with the property to the south being undeveloped and forested land, and a city park to the west.

3.4 Owner, Property Manager, and Occupant Information

The Oklahoma Department of Environmental Quality currently owns the subject property. After all remediation activities have taken place and a notice of remediation and easement has been filed in the Osage County courthouse, the deed to the property will be transferred to the City of Pawhuska.

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

Before transfer of property to the DEQ, the OMD reported no environmental liens on the subject property. OMD did disclose that the military used the basement of the building as a firing range. OMD also mentioned that the building could contain asbestos, PCBs, and lead-based paint due to the age of the building. The Environmental Office of OMD performed a Limited Environmental Baseline Assessment (LEBA) of the Pawhuska Armory (Ref. 13) and the OMD contractor, C.H. Guernsey & Company, sampled lead dust in the IFR and surrounding area (Ref. 17). A copy of the LEBA can be found in Appendix C and the Guernsey report can be found in Appendix F. The LEBA details the conditions found in the armory when it was in active use by the Oklahoma Army National Guard. The Guernsey report provides a brief narrative, a map of the IFR, and sample results.

3.6 Commonly Known or Reasonably Ascertainable Information

It is commonly known within the community that the building was used as a National Guard Armory by the Oklahoma Army National Guard. The building was used to house de minimus volumes of hazardous materials and chemicals as required to support the mission of the Oklahoma Armory National Guard unit since it was occupied. According to John Gibson of the OMD, these items may have included petroleum, oils, lubricants (POLs), solvents, and cleaning products.

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

The property is occupied by contingents of the Oklahoma Army National Guard (OKARNG) and is maintained and managed by the OMD on behalf of the OKARNG.

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. The 1937 aerial photograph was obtained from the Oklahoma Department of Libraries archives. All other aerial photographs were obtained from the DEQ digital database of archived and present-day aerial photographs. Aerial photographs from 1995, 2003, 2005, and 2008 were obtained. All of these photographs are located in Appendix B. The following represents a summary of what was found at the subject property from each aerial photograph.

1937 Aerial Photograph

The 1937 aerial photograph shows the subject property to be to the southeast of Pawhuska, Oklahoma near a residential area and near agricultural land. The photograph shows the building on the subject property to be under construction. Buildings on adjacent properties appear to be residences. No apparent environmental conditions were noted from the photograph.

1995 Aerial Photograph

The 1995 aerial photograph shows the subject property to be to the southeast of Pawhuska, Oklahoma near a residential area and north of a heavily wooded area. Buildings on adjacent properties appear to be residences. No apparent environmental conditions were noted from the photograph.

2003 Aerial Photograph

The 2003 aerial photograph shows the subject property to be to the southeast of Pawhuska, Oklahoma near a residential area and north of a heavily wooded area. Buildings on adjacent properties appear to be residences. No apparent environmental conditions were noted from the photograph.

2008 Aerial Photograph

The 2008 aerial photograph shows the subject property to be to the southeast of Pawhuska, Oklahoma near a residential area and north of a heavily wooded area. Buildings on adjacent properties appear to be residences. No apparent environmental conditions were noted from the photograph.

3.9.2 Fire Insurance Maps

Sanborn Fire Insurance maps were viewed for Pawhuska Oklahoma and downloaded from the Sanborn Libraries website (Ref. 5). Sanborn maps of the subject property and adjoining properties were found for 1894, 1927, and 1958. All of the Sanborn maps are

located in Appendix A along with the two map legends used to decipher the maps. The following represents a summary of what was found at the subject property and adjoining properties from each Sanborn map. The 1894 Sanborn map does not show the area where the subject property resides and therefore was omitted from this report.

1927 Sanborn Map

Sheet 16 of the 1927 Sanborn shows the location where the subject property is located, before development. The subject property is located in the northeast quadrant of Parker and East 8th Streets. During this time, the subject property was a municipal park. The property to the north of the subject property contains residential land. To the south is four dwellings and vacant land. The properties to the east are not shown on the 1927 Sanborn map.

1958 Sanborn Map

Sheet 16 of the 1958 Sanborn shows the subject property edifice. The surrounding area has changed little. Two additional residential properties are shown to the north. To the south of the subject property, two wood outbuildings have been added behind the two existing dwellings shown on the 1927 map. No changes have been made to the property to the west, it remains vacant park land. The properties to the east are not shown on the 1958 Sanborn map.

3.10 Current and Past Uses of Adjoining Properties

As discussed above, Sanborn maps were consulted to determine past uses of adjoining properties. The properties to the north and south of the subject property were residential in nature. The property to the west of the subject property is undeveloped. The property to the east of the subject property is not shown on the Sanborn maps.

During the site visit on March 5, 2010, adjoining properties were observed to contain the following. To the north of the subject property is an alleyway and residential area. The property to the south is undeveloped and forested. The property to the east is residential. To the west of the subject property is a green space with no structures.

3.11 Environmental (Physical) Setting

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 Osage County Soil Survey, Oklahoma Geological Survey Hydrologic Atlas, 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 subject property is located in Pawhuska, Oklahoma, in Osage County. The climate in Pawhuska, Oklahoma is humid and receives average rainfall, about 37 inches per year. The temperature usually ranges from 25°F to 100°F during the winter and summer

respectively (Ref. 18). Primary surface water bodies in Osage County include the Arkansas River and Kaw Lake. The Arkansas River forms part of the southern boundary of the county.

The closest water body is Bird Creek which is 0.25 miles south of the site. According to the Federal Emergency Management Association, the subject property and adjoining properties are in an area determined to be outside the 500-year floodplain (Ref. 7). A map of this information is located in Appendix C. No wastewater discharge permits were located within 1 mile of the subject property according to the Department of Environmental Quality GIS Data Viewer.

3.11.2 Soil Characterization

The subject property is located within the Osage silty clay soil association. It is characterized as having 0 to 1 percent slopes, and occasionally flooding and poorly drained (Ref. 6).

3.11.3 Subsurface Geological Characterization

Subsurface geology near the subject property primarily consists of the Vamoosa-Ada Formation. The Vamoosa Formation consists of a complex sequence of fine- to very fine-grained sandstone, siltstone, shale, and conglomerate interbedded with very thin limestones. The formation is an important water source for both residential and municipal wells (Ref. 8).

3.11.4 Ground Water Characteristics

The groundwater near Pawhuska, Oklahoma typically has poor to fair chemical quality. Groundwater flow is to the southeast. There are no well-head protection areas adjacent to subject property. This area is underlain by sandstone, siltstone, shale, and conglomerate interbedded with very thin limestones. The water tends to contain concentrations of total dissolved solids of less than 500 mg per liter. Groundwater wells near Pawhuska, Oklahoma produce from 25 to 50 gallons per minute (gpm) (Ref. 8).

3.11.5 Air Characteristics

No air emissions were noticed at the subject property or the adjoining properties. Paul McAlexander, OMD Environmental Engineering Department, had no knowledge of any air emissions on the subject property (Ref. 11). During the site visit, a musty odor was noticed inside the building. No odors were noticed outside of the subject property during the site visit. There is a potential for lead dust and asbestos emissions from the subject property.

There are no air-permitted facilities located within 1 mile of the subject property according to the DEQ Air Quality inventory on the DEQ Data viewer (Ref. 11).

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 (CERCLA) Information Service (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 or inactive CERCLIS sites were found within ½ mile of the subject property (Ref. 9).

4.3 Federal RCRA CORRACTs List

The EPA database for Resource Conservation and Recovery Act (RCRA) facilities subject to corrective action were 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 (Ref. 15).

4.5 Federal RCRA Generators List

DEQ RCRA Notifiers database was searched for RCRA generators within the ASTM's required minimum search distance of the subject property (Ref. 15). The minimum distance is the property and adjoining properties. The subject property did not have any RCRA notifiers or generators and none are known on adjacent properties.

4.6 Federal ERNS List

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 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 owner and representatives of the subject property. Federal Institutional Control Registries are still under development.

4.8 State-Equivalent NPL

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

DEQ does not have a State-equivalent CERCLIS database.

4.10 State Landfill and / or Solid Waste Disposal Sites

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. No landfills, dumping, or disturbed soil were noticed on the subject property during the DEQ site visit on March 5, 2010.

4.11 State Leaking UST List

The Oklahoma Corporation Commission UST Notification Database was searched to locate any known LUST sites located within the ASTM's minimum search distance of a ½ mile of the subject property. Four LUST sites were found within the ½ mile radius. The following sites are listed and described below.

- EZ Mart #626 of Pawhuska, located at 521 E. Main, is approximately four blocks southwest of the subject property. The site has a historical LUST case and the status is closed. The LUST case Facility ID number is 5703642. The direction of groundwater flow is to the southeast, according to the topographic map. Therefore, it is unlikely that this spill has affected the subject property.
- Henkels Quick Stop of Pawhuska, located at 429 E. Main, is approximately 4 and a half block southwest of the subject property. The site has a historical LUST case with 4 tanks, the case is closed. Three of the tanks are still in use, one is permanently out of use. The LUST case Facility ID number is 5708247. The direction of groundwater flow is to the southeast, according to the topographic map. Therefore, it is unlikely that this spill has affected the subject property.

- Formby’s Phillips 66 Station of Pawhuska, located at 301 E. Main, is approximately 5 blocks to the southwest of the subject property. The site has a current LUST case that is still open. There are four tanks affected, three are currently in use, and one tank is temporarily out of use. The LUST case Facility ID number is 5709222. The direction of groundwater flow is to the southeast, according to the topographic map. Therefore, it is unlikely that this spill has affected the subject property.
- According to the Oklahoma Water Resources Board reported well-log viewer, there is another LUST case within ½ mile of the subject property. There is no name listed with the data, however, information states at Prudom & Main Streets in Pawhuska, specifically 238 E. Main, approximately 6 blocks to the southwest of subject property, there is a historical LUST case. There are three tanks on the site, listed as permanently out of use and the case status is closed. The LUST case facility ID is 5701131. The direction of groundwater flow is to the southeast, according to the topographic map. Therefore, it is unlikely that this spill has affected the subject property.

4.12 State Registered UST Sites

The Oklahoma Corporation Commission 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. The subject property formerly contained a 1,000 gallon gasoline UST on the property. The UST was removed June 14, 1995 from the subject property. No leaks were reported to the OCC for the UST. Following the tank removal the soil was sampled from the side and the center of the tank pit. No gasoline range organics were found above action limits within the soil. Soil samples showed no diesel range organics above action limits in the UST excavation. For a map of UST sites near the subject property, see Appendix C. The following table shows UST locations within 1 mile of the subject property.

Facility Status	Facility Number	Facility Name	Address 1	City	State	Zip Code	Tank Count
Active	5703684	The Country Store	27 CR 3460	Pawhuska	OK	74056	3
Active	5708247	Henkels Quick Stop	429 E MAIN	Pawhuska	OK	74056	4
Active	5708568	Maverick Mini Mart #26	914 W 7TH	Pawhuska	OK	74056	3
Active	5706387	Smiths Apco Station	903 N LYNN	Pawhuska	OK	74056	4
Active	5702855	Pawhuska Stop Buy	HWY 99 & NELAGONEY ROAD	Pawhuska	OK	74056	2
Active	5701132	Formby Oil Co - Super T	800 W MAIN	Pawhuska	OK	74056	4
Active	5709222	Formby Phillips 66 Station	301 E MAIN	Pawhuska	OK	74056	4
Active	5720835	Kum & Go #860	2101 E MAIN	Pawhuska	OK	74056	3
Inactive	5721858	Equinox Oil Co	E/2 E/2 NW 11-27N- 11E	Pawhuska	OK	74056	1
Active	5720676	Osage County Sheriff's Dept	900 S ST PAUL	Pawhuska	OK	74056	1
Inactive	H5718297	Owens Quick Mart Station	1230 W MAIN	Pawhuska	OK	74056	0
Inactive	H5716213	H F Stephenson Getty	603 E MAIN	Pawhuska	OK	74056	0
Inactive	H5716185	Phillips Bulk	413 PRUDOM	Pawhuska	OK	74056	0
Inactive	5701131	Prudom St & Main St	238 E MAIN	Pawhuska	OK	74056	3
Inactive	5718137	Mid-Continent Bulk Dx	400 PRUDOM	Pawhuska	OK	74056	0
Inactive	H5717235	Fred Leonard Dx	718 KEHEKAH	Pawhuska	OK	74056	0
Inactive	5712223	Osage Agency Campus	ADDRESS UNKNOWN	Pawhuska	OK	74056	1
Inactive	5701137	Barnsdall School	BOX 1420	Pawhuska	OK	74056	1

Inactive	H5717238	Nesbitt Corner Phillips	16 MI N HWY 99 & 10 JCT	Pawhuska	OK	74056	0
Temporarily Closed	5721174	Pawhuska Auto Salvage	218 S LYNN	Pawhuska	OK	74056	1
Inactive	5705061	Phillips 66 Co #005221	MAIN & PERSON	Pawhuska	OK	74056	4
Active	5756617	Pawhuska (Tu0548)	North of CR4070 & CR4201 Intersection	Pawhuska	OK	74056	1
Inactive	H5719296	Evergreen Service	4 1/2 MI S HWY 99	Pawhuska	OK	74056	0
Inactive	H5717187	Elmer Black (Gibble)	1001 W 7TH	Pawhuska	OK	74056	0
Inactive	5709284	Ron Fina	700 W MAIN	Pawhuska	OK	74056	4
Inactive	5709633	Dobbie's Bait Shop	HC 73 BOX 240	Pawhuska	OK	74056	2
Inactive	H5717236	King Motor Service Dx	HWY 60 W 1/2 MI	Pawhuska	OK	74056	0
Inactive	5700316	Jerry E. Collins	201 E MAIN	Pawhuska	OK	74056	4
Inactive	H5717239	George W Branum Gibble	RED EAGLE RT 1/4 MI N	Pawhuska	OK	74056	0
Inactive	5711797	Sand Creek Headquarters Divi	P.O. BOX 638	Pawhuska	OK	74056	1
Inactive	H5716629	Municipal Airport	4 MI W	Pawhuska	OK	74056	0
Active	5703296	City Of Pawhuska	406 SO LYNN AVE	Pawhuska	OK	74056	3
Inactive	5708385	Calumet Oil Company	RT. 1 BOX 65 A	Pawhuska	OK	74056	0
Active	5714780	Pawhuska Light & Water Plant	701 W 10TH	Pawhuska	OK	74056	2
Inactive	5703642	Ez Mart #626	521 E MAIN	Pawhuska	OK	74056	3
Inactive	H5716258	Mrs. Roy M Ward Phillips	RT 1 1/4 MI E ACROSS BIRD CREEK BRIDGE	Pawhuska	OK	74056	0
Inactive	5705964	Lowry's Clothing Store	127 W. MAIN	Pawhuska	OK	74056	2
Active	5709986	Osage Co Maintenance Hdq	RT 1 BOX 1211 M W OF PAWHUSKA ON US 60 W	Pawhuska	OK	74056	4
Inactive	5705549	John W Atterberry	717 LYNN AVE	Pawhuska	OK	74056	2
Temporarily Closed	5702300	H & H Oil Well Service, Inc	HWY 99 SOUTH OF CITY	Pawhuska	OK	74056	1
Inactive	5713759	Calumet Oil Company	1.8 MI S OF HWY 60 & 99 JCT ON HWY 99	Pawhuska	OK	74056	4
Inactive	H5717188	Don Galloway	RED EAGLE RT, 14 MI E HWY 60	Pawhuska	OK	74056	0
Inactive	5704098	P&H Machine	1220 WEST MAIN	Pawhuska	OK	74056	2
Active	5709571	Southwestern Bell Telephone Co	221 E MAIN	Pawhuska	OK	74056	2
Inactive	5701138	D. D. Kyler Tank	BOX 1420	Pawhuska	OK	74056	1
Inactive	5706826	Preston D Landrum	201 W MAIN ST	Pawhuska	OK	74056	3
Inactive	5701141	Blake Stone Co.	ADDRESS UNKNOWN	Pawhuska	OK	74056	2
Active	5720543	Formby Oil	400 PRUDOM	Pawhuska	OK	74056	4
Inactive	H5717237	John Noel Texaco	604 E MAIN	Pawhuska	OK	74056	0
Inactive	5705776	Oklahoma National Guard Armory	823 E 8TH	Pawhuska	OK	74056	1
Inactive	5701139	D.T.S. Tank	ADDRESS UNKNOWN	Pawhuska	OK	74056	3
Inactive	H5917240	Elton Stocker Phillips	4TH & HARRISON	Pawhuska	OK	74056	0
Inactive	5705965	Former-Miller Brus Service St	21ST STR & OLD HWY 99	Pawhuska	OK	74056	2
Inactive	5701142	Getty Bulk Plant	5TH & LEAHY	Pawhuska	OK	74056	1
Inactive	5701983	Texaco Master Station	MAIN & LYNN STREETS	Pawhuska	OK	74056	3
Inactive	5701130	Formby Oil Co.	1000 W MAIN	Pawhuska	OK	74056	1
Active	5756656	Apac	2805 US Hwy 60	Pawhuska	OK	74056	2
Active	5702991	Osage County Dist #1	1125 W MAIN	Pawhuska	OK	74056	6
Inactive	5711945	Fred A Drummond	715 N KI-KAH-KA	Pawhuska	OK	74056	1

4.13 State Institutional Control/Engineering Control Registries

DEQ Brownfields Program DEQ Institutional Controls page was searched for institutional controls on the site. There are no Institutional Control/Engineering Controls in effect for this property.

4.14 State Voluntary Cleanup Sites

DEQ Voluntary Cleanup Program (VCP) database was searched for VCP sites within the required ASTM search distance of ½ mile of the former Pawhuska Armory property. No VCP sites are located on or within ½ mile of the subject property (Ref 11).

4.15 State Brownfield Sites

DEQ Brownfield database was searched for Brownfield sites within the required ASTM search distance of ½ mile of the former Pawhuska Armory property (Ref. 16). No Brownfield sites were found within ½ mile of the former Pawhuska Armory property.

4.16 Oil and Gas Records

DEQ determined that the subject property is located in the SE ¼ SE ¼ SW ¼ of Section 3 – T25N – R9E. DEQ performed a search of oil and gas records from the Oklahoma Corporation Commission's oil and gas records database and looked at Osage county land records at the Osage County Courthouse. The subject property is in an area where there is very little history of oil and gas development. Oil and gas records were searched to record the known history of well development on this site. A search area consisted of the property as described from the legal location above and the quarter, quarter, quarter sections directly above and upgradient of the site. No well records were found in the quarter, quarter, quarter sections directly above and upgradient of the site. (see Appendix C).

5.0 SITE RECONNAISSANCE AND INTERVIEWS

5.1 Methodology and Limiting Conditions

A site reconnaissance of the subject property located on the northwest corner of Parker Street and East 8th Street was performed on March 5, 2010. Christa Welch and Sara Downard of the DEQ met the Pawhuska city manager, Paul McAlexander at the subject property. Mr. McAlexander introduced Christa Welch and Sara Downard to the site and answered questions to the best of his knowledge. Mr. McAlexander led Welch and Downard inside the building and gave his knowledge regarding the former use of the building and property and past activities that occurred onsite. All areas of the building were observed noting any environmental conditions that might need additional investigation. The outside area of the property was examined thoroughly for observations that might need additional investigation. Soil samples were taken outside the vent fan and in a drainage ditch.

5.2 General Site conditions

The former Pawhuska Armory Property is composed of a rock building of approximately 28,000 square feet. The building is currently vacant. The property surrounding the building consists of an overgrown alleyway to the north; a paved vehicle ramp leading into the motor pool, a small gravel parking area, and grass to the east; grass and sidewalks to the south, and grass to the west. The property is in town and surrounded by paved streets. The following are general site conditions that were evaluated on the property and adjacent properties.

Aboveground Storage Tanks (ASTs)

The subject property does not have any ASTs. No ASTs were found on the adjacent properties during the site reconnaissance.

Landfills and/or Dumping

No landfills, dumping, or disturbed soil was found on the property. There is an empty dumpster onsite. This is accessible from the road and therefore could be a source of future dumping.

Impoundments

No impoundments were observed at the subject property. The property formally contained a swimming pool on the west side, which has been filled and vegetated.

Monitoring Wells

No monitoring wells are present on the property. According to the Oklahoma Water Resources Board well search, performed on February 14, 2011, there are twenty-three monitoring wells within the designated search radius of 1 mile. These wells were installed in 1998, 2001, 2002, 2005, and 2009 for groundwater monitoring. These three wells are located downgradient of the subject property. See Appendix C for a map of OWRB wells found within 1 mile of the subject property.

Disturbed and Stained Soils

No stained soils were observed at the subject property. Soil samples were taken by DEQ personnel outside of the IFR vent fan, below the sump pipe, and along the ditch leading from the sump pipe to the sidewalk. Soil samples taken from the ditch revealed lead concentrations of 55 mg/kg at the top of the ditch, 88 mg/kg in the middle of the ditch, and 82 mg/kg at the end of the ditch. All soil samples contain lead below site specific screening levels of 500 mg/kg. The sample point at the top of the ditch was located just below the outfall of the IFR sump pipe. The end of the ditch was deemed to be located where the ditch met the sidewalk. For a detailed sketch of the sample point locations see Appendix F.

Seeps

No seeps of any kind were observed at the subject property. However, a discharge pipe was observed leading from the IFR, along the west side of the building, and onto the grass. The pipe appeared to be attached to the sump pump in the basement. It was unknown when the pump was last operated. For pictures of the sump pipe see the site photographs in Appendix D and the Limited Environmental Baseline Assessment in Appendix C. See the Guernsey Report in Appendix F for photographs taken inside the indoor firing range in 2005.

Chemical Spills

No evidence of possible chemical spills were evident during the site visit to subject property.

Farm Waste

No farm waste was observed at the subject property.

Known Pesticide Misapplication

No known pesticide misapplications were detected during the site visit or during the supportive research.

Discharges and Runoff from Adjacent Property Affecting the Site

Runoff from adjacent properties does not appear to be an existing problem affecting the subject property. The property directly to the west and contiguous to the subject property is vegetated park-land. The alley way directly on the north side of the subject property was not reported by Mr. McAlexander, the Pawhuska City Manager, to be flood prone. The subject property is situated so that rainwater would run off site into roads to the south and east.

Petroleum Products and Oil and Natural Gas Exploration

No petroleum products or oil and natural gas exploration was observed during the site visit.

Asbestos

The building has limited asbestos containing materials. All asbestos containing floor tile and mastic have been removed from the building. No information was available on the removal of the floor tile. Marshall Environmental Management conducted an asbestos survey on July 19, 2008 and found asbestos only in the caulking around the windows of the building.

Lead

The building contains lead-based paint and lead dust. Marshall Environmental Management conducted lead-based paint and lead dust surveys on July 19, 2008 and found lead dust and lead-based paint throughout the building. Lead dust was found in every room except for the ammo section room. The indoor firing range was not sampled for lead dust and lead-based paint due to inaccessibility issues associated with flooding. Lead-based paint was found on doors, door frames, handrails, windows, window bars, wall trim, walls, overhead door frames, and downspouts in various places inside and outside of the building. DEQ sampled the water in the IFR and found no lead. DEQ also sampled soil outside of the firing range vent fan, below the sump pipe, and in the ditch below the sump pipe. Refer to "Disturbed and Stained Soils" section above for information about DEQ soil sampling. For more information on lead-based paint and DEQ sample results, see Appendix F.

Transformers/PCB Equipment

There was one transformer observed on the northwest corner of the subject property. The transformer appeared to be in good condition and had no damage. No Polychlorinated biphenyl (PCB) contamination or other PCB-containing equipment was found at the site.

Fluorescent lighting ballasts were found throughout the entire building. It is unknown if the ballasts contain PCBs. None of the ballasts appeared to have leaks.

5.3 External Observations

The external observations showed no recognized environmental conditions. The area is composed of a concrete driveway, and an alley with grass vegetation covering the rest of the site. North of the building there is an alleyway, directly behind the alley is a residential area. The east side of the building consists of a concrete driveway, and a vent pipe from the former UST. The south side of the building is vegetated with grass and has a concrete side walk. The west side of the building has a grass yard that formally contained a swimming pool. The IFR vent fan and drain pipe are located on the west side of the building. The drain pipe was observed by DEQ staff to run through the vent fan opening, along the west side of the building, and discharge approximately 25 feet to the north of the vent fan. Photographs of the external view of the site can be found in Appendix D.

5.4 Internal Observations

The building is currently vacant and was last used by the Oklahoma Army National Guard to support the military mission. The building was constructed from native rock in 1936 by the Works Progress Administration. Before construction of the armory building the land was owned by the City of Pawhuska and was undeveloped. During the site visit on March 5, 2010, there were no observed environmental concerns on the interior of the subject property. Black mastic was observed in rooms 15 and 16, however the mastic was found to not contain asbestos by Marshall Environmental Management. No recognized environmental concerns were found inside the building. Photographs of the internal view of the site can be found in Appendix D.

5.5 Interviews

John Gibson, an Environmental Programs Specialist with the Oklahoma Military Department, was interviewed to assist with providing historical knowledge of subject property. Gibson said that the Oklahoma Army National Guard (OKARNG) was placed on the National Register of Historic Places in 1994. Additionally, Gibson stated that the building housed construction equipment, tools, gas masks, chemical suits, communication equipment, firearms, and a limited amount of chemicals. The chemicals used in the armory consisted of household cleaning agents, paint, and military decontamination canisters. While touring the subject property with Pawhuska city manager, Paul McAlexander, he stated that the IFR periodically flooded due to seepage from the saturated soil. It was assumed that the Army National Guard had to turn on the sump pump to drain the IFR before each use. It was noted that a PVC pipe runs from the sump pump, along the ceiling, out the vent fan opening, along the west side of the building, and out onto the grass where it flows through a small ditch and out onto the street. The IFR was inaccessible during the site visit due to lack of electricity and scattered debris. For more information on the site visit, see the notes and numbered floor plan map and description of each room in Appendix E.

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.

- The former Pawhuska Armory was built in 1938 by the Works Progress Administration. The land for the building was deeded by the City of Pawhuska to the State of Oklahoma, on October 4, 1938, for benefit of the Oklahoma National Guard. The subject property is currently owned by the Department of Environmental Quality. After all remediation activities have taken place and a notice of remediation and easement has been filed in the Osage County, courthouse, the deed to the property will revert to the City of Pawhuska.
- Historically, the subject property was used to house equipment needed for training. Tools, furniture, and cleaning supplies were stored in the building upon inspection. An indoor firing range was also onsite for target practice. The firing range is occasionally flooded with water and likely to have lead dust contamination. The firing range does not contain a sand trap. The building is contaminated with lead dust, lead-based paint, and asbestos and a portion of the outdoor soil is contaminated with lead. The Oklahoma Department of Environmental Quality Site Cleanup Assistance Program will remediate the lead and asbestos contamination on the subject property and properly dispose of all associated waste. The lead and asbestos contamination in the building constitutes a recognized environmental condition (REC).
- The property formerly contained a 1,000 gallon underground storage tank (UST) that was removed July 25, 1995. The vent pipe was left in place. Low levels of gasoline range organics were detected during the UST removal (total xylenes 0.7) and diesel range organics were below detection limits. The former UST and associated contamination constitutes a historically recognized environmental condition (HREC).
- Adjoining properties consist of residences, and undeveloped property to the south. Historical aerial photographs show residences surrounding the subject property.
- Sanborn Fire Insurance maps showed that the subject property was vacant land before the armory was built. Adjacent properties consisted of residential structures and a city park.
- No National Priority List (NPL), delisted NPL sites, active or archived Comprehensive Environmental Response, Compensation, and Liability Information Search (CERCLIS) site listings, Resource Conservation and Recovery Act (RCRA) non-corrective action sites (CORRACTS) treatment, storage, and disposal (TSD) listings, Emergency Response Notification System (ERNS) list, Institutional Controls/Engineering Controls, or State landfills and/or solid waste disposal sites were found on the subject property or within the ASTM recommended search radii. No RCRA generators, Voluntary Cleanup (VCP) sites, or Brownfield sites were found on the subject property. The subject property is on the DEQ Site Cleanup Assistance Program (SCAP) list for cleanup of lead and asbestos contamination.
- Fifty-nine underground storage tank sites were found registered in the OCC database; none of the registered USTs are within a half mile of the subject property. The UST sites are located east, west, southwest, and northwest of the subject property. None of the adjoining properties contain USTs. Of the fifty-nine USTs, four sites have current and historic leaking underground storage tank cases. None of the LUST cases are up-gradient of the subject property. The subject property does not have any LUST cases on record. The UST at the subject property was removed on June

8, 1995 according to Oklahoma Corporation Commission (OCC) records. The tank did not appear to have any leaks upon removal. Soil samples showed gasoline range organics and diesel range organics below OCC action limits in the UST excavation.

- No oil and gas development was found in the OCC oil and gas records for the subject property and quarter, quarter, quarter sections directly above and upgradient of the site.
- One pole mounted transformer, in good condition without any leaks, is located on the northwest corner of the subject property. It is unknown if this transformers contains PCBs. Fluorescent lighting ballasts are located throughout the building. The lighting ballasts are all in good condition. It is unknown if the lighting ballasts contain PCBs or mercury.

7.0 OPINION AND RECOMMENDATIONS

Due to the past use of the property and contamination found on the subject property, the environmental professionals working on this site believe that cleanup of lead and asbestos is warranted. Several findings mentioned in Section 6.0 of this Phase I TBA report support this opinion.

DEQ feels there is a low potential of impact from the LUST cases due to the distance they are located from the site. None of these LUST cases were found on the adjoining properties either. There are no registered USTs within a half mile radius of the subject property. DEQ feels there is a low potential of impact to the site from the LUST and UST sites.

No archived CERCLIS site listings, RCRA generators, VCP sites, or Brownfield sites were found within the ASTM recommended search radii, indicating a low potential of impact to the subject property. There were no RCRA CORRACT sites found within one mile of the subject property. There are no air-permitted facilities found within the recommended search radii.

8.0 DATA GAPS

No tribal information was obtained for this assessment. No tax records, city directories, or zoning records were reviewed for this report. However, this did not affect the ability of the DEQ to make a recommendation on the subject property.

9.0 CONCLUSIONS

DEQ has performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E 1527-05 of the former Pawhuska armory located at 823 East 8th St., Pawhuska, 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 conditions* in connection with the *property* except for the following: former UST on the property, lead contaminated soil, and lead dust, lead-based paint, and asbestos contamination throughout the building.

The information provided in this assessment is to assist the City of Pawhuska 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 Brownfields Revitalization Act of 2002 (Public Law 107-118, Subtitle B – Ref. 3).

10.0 ADDITIONAL SERVICES

Additional services provided in this Phase I Targeted Brownfield Assessment include soil, surface water (in indoor firing range), asbestos, lead-based paint, and lead dust sampling by DEQ and its contractors.

11.0 DEVIATIONS

The following deviations from ASTM Practice E 1527-05 occur in this Phase I Targeted Brownfield Assessment. Asbestos, lead paint, lead dust and soil were sampled and the corresponding results were included in this report. Normally, sampling is not included in a Phase I Environmental Assessment, but it was in this case. No tax records, city directories, or zoning records were reviewed for this report.

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13.0 APENDICIES

Appendix A Site Map and Legal Documents

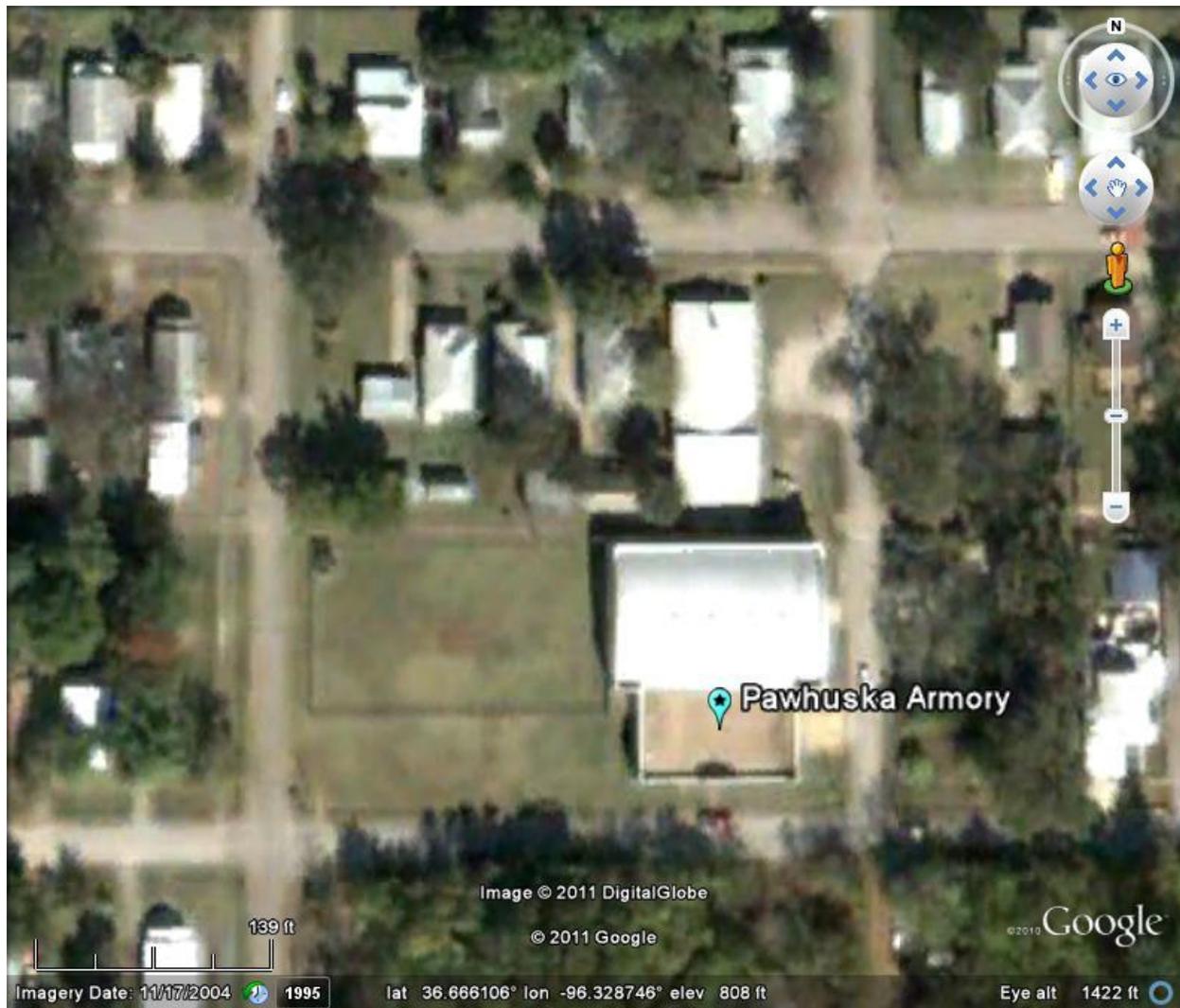


Figure 1 Pawhuska Armory - Google Earth

Appendix B Aerial Photographs and Topographic Maps



Figure 2 Pawhuska Armory 1937



Figure 2 Pawhuska Armory 1995

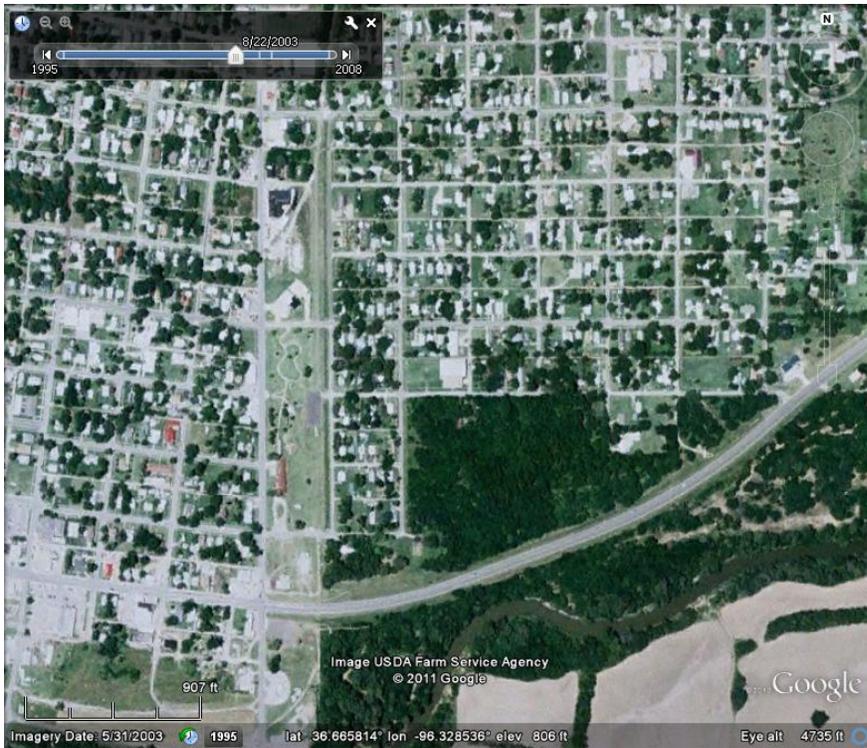


Figure 3 Pawhuska Armory 2003

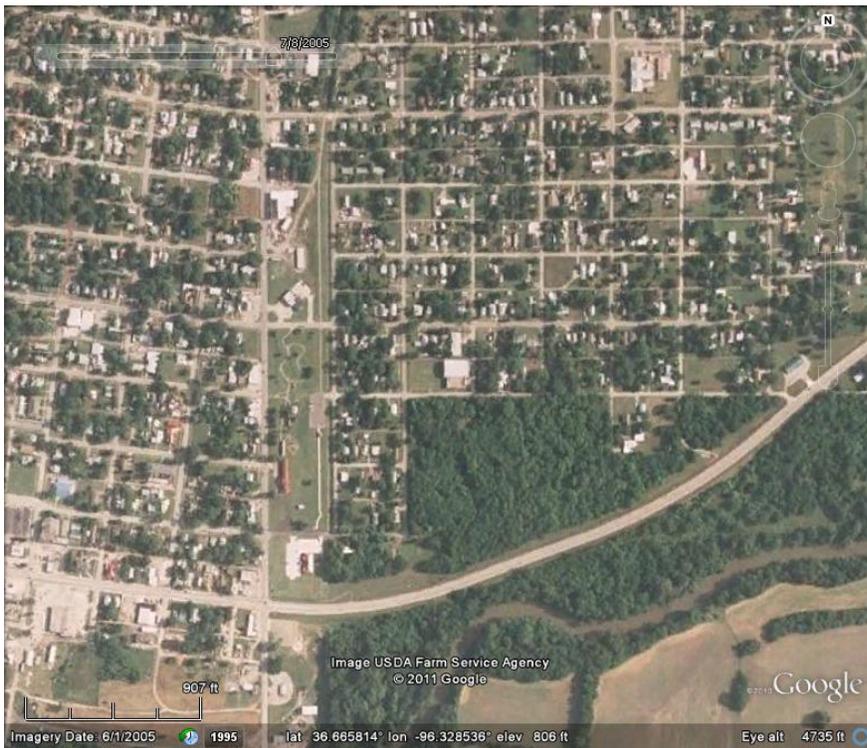


Figure 4 Pawhuska Armory 2005

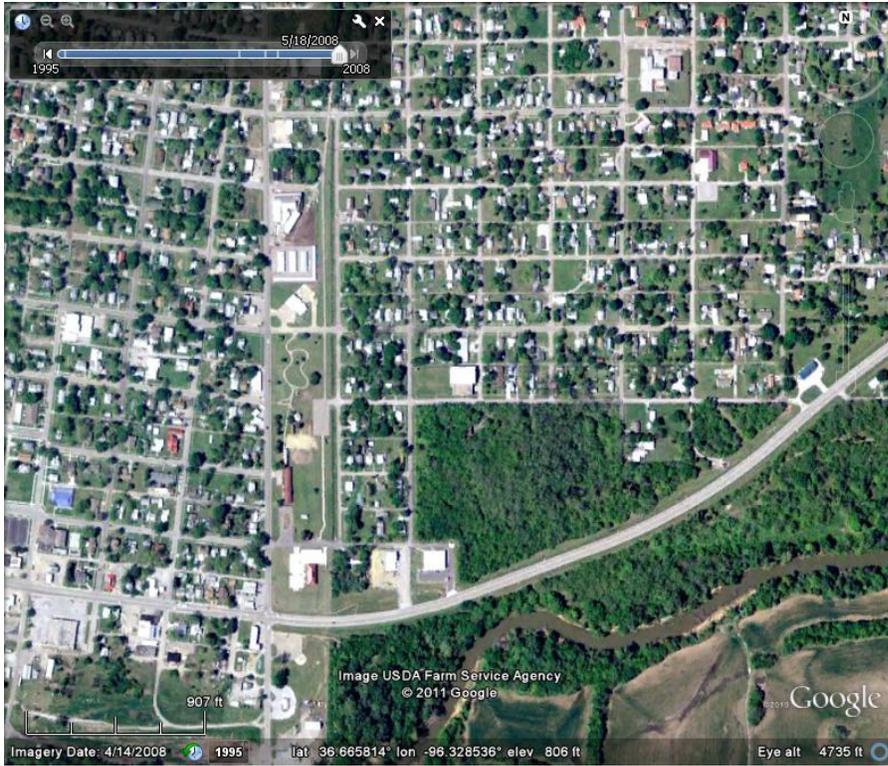
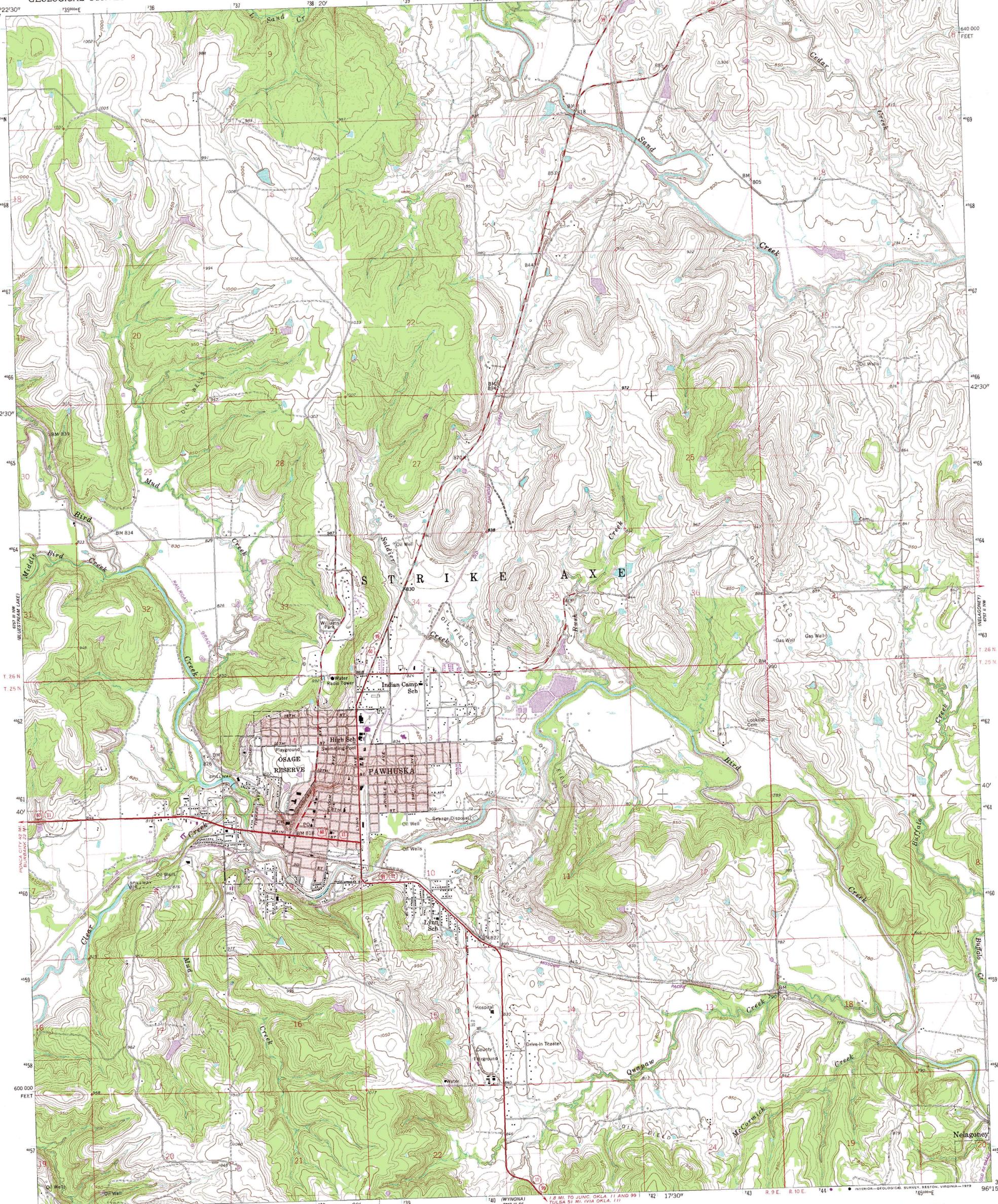
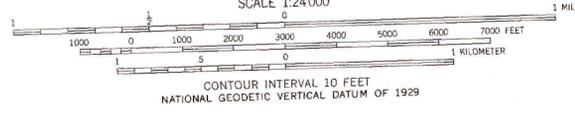
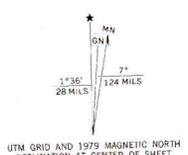


Figure 5 Pawhuska Armory 2008



Mapped, edited, and published by the Geological Survey
 Control by USGS and USC&GS
 Topography from aerial photographs by photogrammetric methods
 Aerial photographs taken 1959. Field check 1960
 Polyconic projection. 1927 North American datum
 10,000-foot grid based on Oklahoma coordinate system, north zone
 1000-meter Universal Transverse Mercator grid ticks,
 zone 14, shown in blue
 Red tint indicates area in which only
 landmark buildings are shown
 Fine red dashed lines indicate selected fence and field lines where
 generally visible on aerial photographs. This information is unchecked
 Revisions shown in purple and woodland compiled from
 aerial photographs taken 1976 and other source data
 This information not field checked. Map edited 1979



THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
 FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
 AND BY OKLAHOMA GEOLOGICAL SURVEY, NORMAN, OKLAHOMA 73069
 A FOLDER DESCRIBING TOPOGRAPHIC MAPS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION

Heavy-duty	Light-duty
Medium-duty	Unimproved dirt
U. S. Route	State Route

PAWHUSKA, OKLA.
 N 3637.5—W 9615.7.5
 1960
 PHOTOREVISED 1979
 AMS 6757 III NE—SERIES V883

STATE BUSINESS Recorded without fee
in compliance with Sec. 30, Sen. Bill 234,
1935 SESSION LAWS.

STATE of OKLAHOMA } ss.
OSAGE COUNTY }

COMPARED

This instrument was filed for record on
the 2 day of May A. D.
1936 at 8 o'clock A. M. and duly
Recorded in Book 4849 of Misc.
on Page 49

FRED NEWBERRY, County Clerk
By G. Johnson, seal Deputy

State of Oklahoma,
County of Osage,

I, H. H. Schroeder, being duly sworn, upon oath state that I am one of the grantors in warranty deed dated January 5, 1928, recorded in book 66 of W. D., page 271 County Clerk's office, Osage County, Oklahoma, conveying to T. E. Pearson and T. L. Pearson, as shown on page 3 - A 4203 of Abstract of Title by Pawhuska Abstract Title Company, Lots five (5), Six (6) and seven (7), in block twenty (20) original town of Hominy, and other lots.

That the grantee shown in said deed as T. L. Pearson is a typographical error. The correct grantee being F. L. Pearson, he being one and the same person as F. L. Pearson one of the grantees in warranty deed dated January 29, 1918, and recorded in book 61 of W. D., page 271 County Clerk's office, Osage County, Oklahoma, conveying said lots to H. H. Schroeder, T. E. Pearson and F. L. Pearson.

H. H. Schroeder

Sworn and subscribed before me the undersigned Notary Public, on this 24th day of October, 1937.

O. L. Barlow, Notary Public

My commission expires:
October 24, 1937

seal

139100

RESOLUTION

STATE of OKLAHOMA } ss.
OSAGE COUNTY }

COMPARED

This instrument was filed for record on
the 2 day of May A. D.
1936 at 11 o'clock A. M. and duly
Recorded in Book 49 of Misc.
on Page 49

FRED NEWBERRY, County Clerk
By G. Johnson Seal Deputy

BE IT RESOLVED BY THE COMMISSION OF THE CITY OF PAWHUSKA, OKLAHOMA:

That, whereas, the State of Oklahoma, is contemplating the construction of an armory in the City of PAWHUSKA, Oklahoma, in order to provide armory facilities to VETERINARY COMPANY No. 120 of Pawhuska, Oklahoma National Guard; and,

Whereas, in order that the matter further progress to the construction, it is necessary for the City of Pawhuska, Okla. to provide a site for the location of said armory, said site having heretofore been selected by the proper officers; and,

Whereas, the Commission of the City of Pawhuska, is desirous of granting said site, upon a due and proper conveyance, the form of which has heretofore been approved by the Attorney General of the State of Oklahoma, to be executed by the Mayor of the City of Pawhuska, Okla;

NOW, THEREFORE, It is Resolved by the Commission of the City of Pawhuska, Okla., that the City of Pawhuska, grant to the State of Oklahoma, acting as Trustee for the Oklahoma National Guard, pursuant to Chapter 25, House Bill No. 226, Session Laws of Oklahoma, 1931, a site for such armory, same being described in particular as follows:

Lots Twenty (20) to Twenty-four (24) inclusive, Block Forty-seven (47) Prudom Addition, to the City of Pawhuska, Oklahoma.

and the Mayor of the City of Pawhuska, is hereby authorized and directed to forthwith execute a good and proper conveyance of such site to the State of Oklahoma, acting as the trustee for the Oklahoma National Guard, upon form of conveyance heretofore approved by the Attorney General of the State of Oklahoma, and to deliver such conveyance to the Adjutant General of the State of Oklahoma, for approval as provided in Chapter 25, House Bill No. 226, of the Session Laws of the State of Oklahoma, for 1931.

Adopted in open and regular session this 9th day of September, 1935.

Chas. Bacon
Mayor

ATTEST:
CHAS. M. HIRT
City Clerk

(seal)

STATE BUSINESS
RECORDED WITHOUT FEE
IN COMPLIANCE WITH
SEC. 30 SEN. BILL 234
1935 SESSION LAWS

QUIT CLAIM DEED No. 19

FROM 228086.) STATE OF OKLAHOMA, OSAGE COUNTY, ss.
) This instrument was filed for record on the 23 day
 COMPARED) of April, A. D. 1958, at 9
) o'clock, A. M., and duly recorded in Book 19 on page 167
 TO) Fee, \$ no fee (Seal).
) W. H. LUNDAY, County Clerk.
) (SEAL) By L. Blackiston, Deputy.

THIS INDENTURE, Made this 21st day of April in the year A.D., 1958, between
 City of Pawhuska, Oklahoma
 of the first part, and
 State of Oklahoma
 of the second part.

WITNESSETH, That the said part V of the first part, in consideration of the sum of
 One dollar and other good and valuable considerations, DOLLARS
 to it duly paid, the receipt whereof is hereby acknowledged, do es hereby quit-claim, grant, bargain, sell and convey
 unto the said party ~~it~~ of the second part, and to its successors and assigns forever, all its right,
 title, interest and estate, both at law and in equity, of, in and to, the following described real estate, in the County of Osage and State
 of Oklahoma, to-wit:

Lots 13 to 19, inclusive, Block 47, Prudom Addition to Pawhuska, Oklahoma.
 So long as the above described premises are used by the State of Oklahoma
 or the United States of America for National Guard or other military
 purposes. If and when the said above described property is not used for
 these purposes then it is to revert back to the City of Pawhuska, Oklahoma.

Together with all and singular the hereditaments and appurtenances thereunto belonging. To have and to hold the above granted
 premises unto the said party of the second part, its successors and assigns forever.

IN WITNESS WHEREOF, The part of the first part has hereunto set hand, the day and
 year first above written.

Attest: (SEAL))
 C.K. Templeton, Jr.)
 (C.K. Templeton) City Clerk.)
 City of Pawhuska, Oklahoma, a)
 municipal corporation)
 By C H Carter)
 (C.H. Carter) Mayor)

STATE OF OKLAHOMA Osage County, ss.
 BEFORE ME, a notary public

in and for said County and State, on this 21st day of April, 1958, personally
 appeared C.H. Carter, to me known to be the identical person who subscribed the name of
 the maker thereof to the foregoing instrument as its mayor, and acknowledged to me that he
 executed the same as the free and voluntary act and deed of such municipal corporation
 to me known to be the identical person who executed the within and foregoing instrument, and acknowledged to me that
 executed the same as free and voluntary act and deed, for the uses and purposes therein set forth.
 as such notary public

WITNESS my hand and the Official seal the day and year above set forth.
 My commission expires Aug. 8, 1961. Velma Duncan,
 (SEAL) (Seal): Notary Public.

DEED RECORD NO. 78

COMPARED

135102

BY The City of Pawhuska, TO Charles F. Barrett, Trustee

STATE OF OKLAHOMA, OSAGE COUNTY, ss. This instrument was filed for record on the 2 day of May, A. D. 1936, at 11 o'clock A. M., and duly recorded in Book 78, on Page 78. Fred Hanberry, County Clerk. seal By G. Johnson, Deputy.

WARRANTY DEED

THIS INDENTURE, Made this 13th day of August, A. D. 1935, between The City of Pawhuska, Oklahoma, a municipal Corporation

of OSAGE County, in the State of Oklahoma, of the first part, and Charles F. Barrett, as Adjutant General of the State of Oklahoma, Trustee

WITNESSETH, That said party of the first part, in consideration of the sum of One Dollar and other valuable consideration

the receipt whereof is hereby acknowledged, does by these presents, grant, bargain, sell and convey unto the said party of the second part, his SUCCESSORS and assigns, all the following described real estate, situated in the County of Osage and State of Oklahoma, to-wit:

Lots Twenty (20) to Twenty four (24) Inclusive, Block Forty seven (47) Prudom Addition to the City of Pawhuska, Oklahoma.

State of Oklahoma,

Osage County.

Before me, a Notary Public in and for said County and state, on this day of August, 1935, personally appeared Chas. Bacon, Mayor of the City of Pawhuska, Oklahoma. and Chas. H. Hirt, City Clerk, to me known to be the identical persons who subscribed the name of the maker thereof to the foregoing instrument as its mayor and city clerk and acknowledged to me that they executed the same as the free and voluntary act and deed and as the free and voluntary act and deed of such municipal corporation for the uses and purposes therein set forth.

Witness my hand and seal as such Notary Public this 13 day of August, 1935.

My commission expires: June 20, 1937 seal Blanche H. Byler, Notary Public TO HAVE AND TO HOLD THE SAME, Together with all and singular the tenements, hereditaments and appurtenances thereunto belonging to or in anywise appertaining, forever, subject to reservation of oil, gas, coal, and other minerals to the Osage Tribe of Indians by the Act of Congress, June 30, 1906 (34 Stat. 4539), and any amendatory thereof and supplemental thereto.

And said party of the first part

its SUCCESSORS or assigns does hereby covenant, promise and agree to and with said party of the second part, that at the delivery of these presents it was lawfully seized in its own right of an absolute and indefeasible estate of inheritance in fee simple of, in and to all and singular the above granted and described premises, with the appurtenances, that the same are free, clear, discharged and unincumbered of and from all former grants, titles, charges, judgments, taxes, assessments and incumbrances of what nature and kind soever;

Provided that when said lots cease to be used for the purpose for which they are donated title shall revert to the grantor

and that it will warrant and forever defend the title to the same, unto said party of the second part, its SUCCESSORS and assigns, against said party of the first part, its SUCCESSORS and assigns, and all and every person whomsoever, lawfully claiming or to claim the same.

IN WITNESS WHEREOF, The said party of the first part hereunto set its hand, the day and year first above written.

State Business Recorded without fee in Compliance with Sec. 30, Sen. Bill 234 1935 Session Laws.

Chas. Bacon, Mayor

Attest: Chas. H. Hirt.

Blanche H. Byler

STATE OF OKLAHOMA, OSAGE COUNTY, ss.

BEFORE ME,

In and for said County and State, on this day of 1935, personally appeared

and to me known to be the identical person who executed the within and foregoing instrument, and acknowledged to me that executed the same as free and voluntary act and deed, for the uses and purposes therein set forth.

WITNESS my hand and seal the day and date above written.

My commission expires Notary Public.

11694

BY
Charles N. Prudom et al
 TO
H. A. Brenner
 Trustee

STATE OF OKLAHOMA, Osage County, ss.

This instrument was filed for record on the *9* day of *Feb* A. D. 19*13*, at *11* o'clock *A.M.*, and duly recorded in Book *4719* on page *476*.
 Fee, \$..... in advance.

Seal T. M. Broadbue
 Register of Deeds

This Indenture, Made this *4th* day of *February* A. D. 19*13*, between *Charles N. Prudom, H. A. Brenner, W. T. Leahy, A. N. Rable, Thomas P. Smith, J. T. M. Johnston, L. S. Parker & Arthur T. Woodward of Osage* County, in the State of Oklahoma, of the first part, and *H. A. Brenner, trustee for the above named grantors* of the second part,

WITNESSETH, The said parties of the first part, in consideration of the sum of *One dollar and other good considerations* and *100* DOLLARS, the receipt whereof is hereby acknowledged, do.....by these presents grant, bargain, sell and convey unto the said part..... of the second part, *his* heirs and assigns, all of the following described real estate, situated in the County of *Osage* and State of Oklahoma, to-wit:

All of the right, title and interest of the above named grantors of, in and to the Prudom Addition to Pawhuska Oklahoma according to the official plat and survey thereof on file in the office of the Register of Deeds for Osage County, Oklahoma. In trust, nevertheless, with full authority and power to grant, bargain and sell and execute deeds and other instruments as may be necessary in the selling of said Prudom Addition. All proceeds resulting from such selling to be held for the use and benefit of above named grantors. The above described property is not part of the homestead of any of the above named grantors.

TO HAVE AND TO HOLD THE SAME, Together with all and singular the tenements, hereditaments and appurtenances therunto belonging or in anywise appertaining, forever *except to usurpation of title of Congress June 25, 1906* And said *Charles N. Prudom et al* for *his* heirs, executors or administrators, do.....hereby covenant, promise and agree to and with said part..... of the second part, that at the delivery of these presents *they are* lawfully seized in *their* own right of an absolute and indefeasible estate of inheritance, in fee simple, of, in and to all and singular the above granted and described premises, with the appurtenances; that the same are free, clear, discharged and unincumbered of and from all former grants, titles, charges, judgments, taxes, assessments and incumbrances of what nature and kind soever *except as aforesaid* and that *they* will warrant and forever defend the title to the same unto said part..... of the second part, *his* heirs and assigns, against said part..... of the first part, *his* heirs, and all and every person whomsoever, lawfully claiming or to claim the same.

IN WITNESS WHEREOF, The said part..... of the first part have hereunto set *their* hand..... the day and year first above written.

Charles N. Prudom
H. A. Brenner
W. T. Leahy by his atty in fact W. Woodward
Thomas P. Smith by his atty in fact Arthur T. Woodward
A. N. Rable by his atty in fact J. T. M. Johnston
L. S. Parker by his atty in fact Arthur T. Woodward
Arthur T. Woodward

STATE OF OKLAHOMA, *Osage* County, ss.
 Before me, *V. G. Reynolds*, a Notary Public in and for said County

and State, on this *5th* day of *Feb*, 19*13*, personally appeared *Charles N. Prudom, H. A. Brenner, A. N. Rable, Arthur T. Woodward and W. T. Leahy by his atty in fact W. Woodward, Thomas P. Smith by his atty in fact Arthur T. Woodward* to me known to be the identical person..... who executed the within and foregoing instrument, and acknowledged to me that *they* executed the same as *their* free and voluntary act and deed for the uses and purposes therein set forth.

My commission expires *July 12, 1913.*

V. G. Reynolds
 Seal Notary Public

DEED RECORD

58252 BY STATE OF OKLAHOMA, OSAGE COUNTY, ss. This instrument was filed for record on the 14 day of Oct. A. D. 19. 19. at 4:30 o'clock P. M. and duly recorded in Book 32 on page 40. Fee, \$1.50. (SEAL) T. M. Broadus County Clerk. By A. B. Ludwig Deputy.

WARRANTY DEED

THIS INDENTURE, Made this 14 day of October A. D. 19 19, between H. H. Brenner and Mary L. Brenner, his wife of Osage County, in the State of Oklahoma, of the first part, and A. N. Ruble of the second part:

WITNESSETH, That said part 1st of the first part, in consideration of the sum of One dollar and other valuable considerations DOLLARS the receipt whereof is hereby acknowledged, do by these presents grant, bargain, sell and convey unto the said party of the second part, his heirs and assigns, all of the following described Real Estate, situate in the County of Osage and State of Oklahoma, to-wit:

Lots one (1), Two (2), Three (3), Four (4), Five (5), Six (6), Seven (7) Eight (8), Nine (9) Ten (10) Eleven (11), Twelve (12) Thirteen (13) Fourteen (14) Fifteen (15) Eighteen (18) Nineteen (19) Twenty (20) Twenty-one (21) Twenty-two (22) Twenty-three (23) Twenty-four (24) in Block Thirty-eight (38), Lots One (1) Two (2) Three (3) Four (4) Five (5) Six (6) seven (7), Eight (8) Thirteen (13) Fourteen (14) Fifteen (15) Sixteen (16) Seventeen (17) Eighteen (18) Nineteen (19) Twenty (20) Twenty-one (21) Twenty-two (22) Twenty-three (23) Twenty-four (24) Block Forty-seven (47) Lot Three (3) Four (4) Fifteen (15) Sixteen (16) Nineteen (19) Twenty (20) Twenty-One (21) Twenty-two (22) in Block forty-eight (48) in the Prudom Addition to Pawhuska, according to the official plat thereof on file in the office of the county clerk of Osage County, Oklahoma. \$3.00 revenue attached.

TO HAVE AND TO HOLD THE SAME, Together with all and singular the tenements, hereditaments and appurtenances thereto belonging to or in any wise appertaining, forever, subject to reservation of oil, gas, coal and other minerals to the Osage Tribe of Indians by the Act of Congress, June 28, 1906.

AND SAID H. H. Brenner and Mary L. Brenner his wife, for themselves and their heirs, executors or administrators, do hereby covenant, promise and agree to and with said party of the second part, that at the delivery of these presents they are lawfully seized in their own right of an absolute and indefeasible estate of inheritance, in fee simple, of in and to all and singular the above granted and described premises, with the appurtenances; that the same are free, clear, discharged and unincumbered of and from all former grants, titles, charges, judgments, taxes, assessments and encumbrances of what nature and kind soever.

and that they will warrant and forever defend the title to the same unto said party of the second part, his heirs and assigns, against said part 1st of the first part, their heirs, and all and every person whomsoever lawfully claiming or to claim the same.

IN WITNESS WHEREOF, The parties of the first part hereunto set their hands, the day and year first above written.

H. H. Brenner
Mary L. Brenner

STATE OF OKLAHOMA, Osage County, BEFORE ME, Horace J. Smith, Notary public in and for said County and State, on this 14th day of October, 19 19, personally appeared H. H. Brenner and Mary L. Brenner, his wife to me known to be the identical persons who executed the within and foregoing instrument, and acknowledged to me that they executed the same as their free and voluntary act and deed and for the uses and purposes therein set forth.

WITNESS my hand and seal this 14th day and date above written. (SEAL) Horace J. Smith Notary Public. My commission expires March 2nd, 1922.

040

State of Oklahoma }
Osage County. }

This instrument was filed for Record on the
30 day of July A. D.
1919 at 3 o'clock P. M. and duly
Recorded in Book 26 of Map
on Page 54
J. M. Broadus
County Clerk

By _____
Deputy.

J.M.
M.B.

9

Seal

D E E U.
GENERAL WARRANTY

THIS INDENTURE made this 30th day of January A. D., 1919 between H. H. Brenner, Trustee,
of Osage County, in the state of Oklahoma, of the first part, and H. H. Brenner of the second part;

WITNESSETH, that said party of the first part: in consideration of the sum of One Dollar
and other consideration Dollars the receipt whereof is hereby acknowledged, does by these presents
grant, bargain, sell and convey, unto the said party of the second part heirs and assigns, all the
following described real estate, situated in Osage County ~~in the State of Oklahoma~~ in Prudom Addition to the City of

Pawhuska, according to the official plat thereof and State of Oklahoma, to-wit:

- Lots 1, 2, 3 and 4, in Block 1, ^{90 9 to 14 and 17 to 20 & 23 to 24 in Block 1}
- Lots 1, 2, 3, 4, 5, 6, 14, 15 and 16, in Block 2,
- Lots 12, 13, 14, 15, 16, 17, 20, 21, 22, 23, 24, 25, 26, 27 and 28 in Block 3,
- Lots 10, 11, 12, 13, 14, 15, 22, 23, 24, 29, and 30 in Block 4,
- Lots 16, 17, 18, 22, 23, 24, 25, and 26, in Block 5,
- Lots 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, in Block 6,
- Lots 4, 5, 6, 7, 14, 15, 16, 20, 21, 25, 26, in Block 7,
- Lots 5, 6, 7, 8, 15, 16, 17, 18, 19, 20, 21, 22, in Block 9,
- Lots 11, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, in Block 10,
- Lots 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 23, and 24 in Block 11,
- Lots 1, 2, 3, 4, 5, 6, 7, 8, 13, 14, 15, 19, 20, 21, 22, 23, 24, in Block 12,
- Lots 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, in Block 13,
- Lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23,
24, 25, 26, 27, 28, in Block 14,
- Lots 4, 5, 8, 9, 10, 11, 12, in Block 15,
- Lots 4, 5, 6, 19, 20, 21, 22, 23, 24, in Block 16,
- Lots 9, 10, 11, 12, 13, 14, 15, 16, 17, in Block 17,
- Lots 1, 2, 3, 4, 5, 6, in Block 18,
- Lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, also 23 and 24, in Block 19,
- Lots 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 21, 22, 23, 24, in Block 20,
- Lots 3, 4, and 5, in Block 21,
- Lots 5, 6, 7, 13, 14, 15, 16, 17, 18, 19, 20, in Block 22,
- Lots 1, 2, 5, 6, 7, 8, 9, 10, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, in Block 23,
- Lots ~~2, 3~~, 13, 14, 15, 18, 19, 20, 23, 24, in Block 24,
- Lots 1, 2, 3, 4, 5, 6, 9, 10, 11, 12, 17, 18, in Block 25,
- Lots 5, 6, 7, 8, 9, 10, 17, 18, 19, 20, 21, 22, 23, 24, in Block 26,
- Lots 1, 2, 3, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, in Block 27,
- Lots 3, 4, 21, ²²23, 27, 28, in Block 28,
- Lots 1, 2, 3, in Block 29,
- Lots 1, 2, 3, 4, 5, 13, 14, 15, 16, 17, 18, 19, in Block 30,
- Lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 19, 20, 21, 22, 23, 24, in Block 31,
- Lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23,
24, in Block 32,

87
1819
7-16-21

DEED RECORD.

SAML DODSWORTH STATIONERY CO KANSAS CITY NO 47523

BY A. N. Ruble STATE OF OKLAHOMA, OSAGE COUNTY, as.
 of July This instrument was filed for record on the 8 day
 A. D. 1921, at 2:00 o'clock
 P. M., and duly recorded in Book 40 on page 66
 Fees, \$.....
City of Pawhuska, A. B. Juddwick County Clerk.
 (SEAL) By Mildred Whistler Deputy.

WARRANTY DEED

THIS INDENTURE, Made this 5th day of July A. D. 1921, between
A. N. Ruble and Lula E. Ruble, his wife
 of Osage County, in the State of Oklahoma, of the first part, and
City of Pawhuska, Oklahoma of the second part:

WITNESSETH, That said part ies of the first part, in consideration of the sum of
One dollar and other valuable considerations DOLLARS,
 the receipt whereof is hereby acknowledged, do X by these presents, grant, bargain, sell and convey unto the said part y of the second part its/successor
~~heir~~ and assigns, all of the following described Real Estate, situated in the County of Osage and State of Oklahoma, to-wit:

All of Lots 13-14-15-16-17-18-19-20-21-22-23 and 24 all in Block 47
 in Prudom Addition to City of Pawhuska, according to the plat now of
 record

\$3.00 Rev. attached

TO HAVE AND TO HOLD THE SAME, Together with all and singular the tenements, hereditaments and appurtenances thereunto belonging to or in any
 wise appertaining, forever, subject to reservation of oil, gas, coal and other minerals to the Osage Tribe of Indians by the Act of Congress, June 28, 1906.

And said A. N. Ruble and Lula E. Ruble, his wife, for themselves and their
heirs, executors or administrators, do hereby covenant, promise and agree to and with said part y of the second part, that at the delivery
 of these presents they are lawfully seized in their own right of an absolute and indefeasible estate of inheritance, in fee simple, of, in and to
 all and singular the above granted and described premises, with the appurtenances; that the same are free, clear, discharged and unincumbered of and from all former
 grants, titles, charges, judgments, taxes, assessments and incumbrances of what nature and kind soever:

and that they will warrant and forever defend the title to the same unto said part y of the second part, its/successors and
 said part ies of the first part and/their heirs, and all and every person whomsoever lawfully claiming or to claim the same.

IN WITNESS WHEREOF, The part ies of the first part ha ve hereunto set their hand s, the day and year first above written.

A. N. Ruble
Lula E. Ruble

STATE OF OKLAHOMA, } ss. BEFORE ME, R. E. Mason, a Notary Public
 Osage County.

in and for said County and State, on this 5 day of July 1921, personally appeared
A. N. Ruble

and Lula E. Ruble
 to me known to be the identical person who executed the within and foregoing instrument, and acknowledged to me that they executed the same as
their free and voluntary act and deed and for the uses and purposes therein set forth.

- Witness my hand and seal the day and date above written -

**MEMORANDUM OF AGREEMENT
BETWEEN
THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY AND
CITY OF PAWHUSKA**

1. PURPOSE: The purpose of this Memorandum of Agreement (MOA) is to establish a mutual framework governing the respective organizational relationships, responsibilities, and activities between the Oklahoma Department of Environmental Quality (DEQ) and the City of Pawhuska. This agreement is primarily for occupancy and access to the local armory building before and during limited remediation. The areas of responsibility and relationships presented herein provide the concept under which the program will be executed.

2. BACKGROUND: The Oklahoma Military Department (OMD) transferred title to its armory building at 836 East 8th Street to the City for public purpose use. There is a strong likelihood that the building contains asbestos and/or lead based paint. If an indoor firing range is located in the building, high concentrations of lead will be present. The DEQ plans to confirm the presence of hazards using sampling and analysis and to abate the asbestos, abate the lead based paint, and remediate the firing range.

3. RESPONSIBILITIES OF THE PARTIES: The following paragraphs identify responsibilities of the parties under this MOA:

The City's Responsibilities:

- Provide keys and access to DEQ and its contractors as needed to evaluate and remediate building;
- Restrict occupant's use/presence in the building before and during remediation, as requested. This could include removing equipment, vehicles and other items that may be in the way of cleanup activities; and
- Coordinate with DEQ during the remediation process.

OKLAHOMA
DEPT. OF ENVIRONMENTAL QUALITY

DEC - 2 2010

FILED BY: D. Ray
HEARING CLERK

The DEQ's Responsibilities:

- Provide regular progress reports to the City
- Mitigate hazards to remedial goals with minimal use restrictions;
- Supply the City with a final report of all DEQ activities;
- File mandatory Notice of Remediation, i.e. deed notice;
- Notify the City of ongoing operations and maintenance issues, if any; and
- Perform armory transfer ceremony, if appropriate

4. BUILDING USE RESTRICTIONS BEFORE CLEANUP

- No access to or use of the indoor firing range, if one is located there;
- No residential use;
- No use as a child occupied or elder care facility.
- No use of the property without DEQ approval.

5. RESPONSIBILITY FOR COSTS: The DEQ is responsible for costs associated with site characterization and remediation of the armory building. The DEQ is not responsible for costs associated with insuring, maintenance and mowing of the property. The DEQ is not responsible for structural issues, replacement of roofing systems, mold issues, or building security.

6. PUBLIC INFORMATION: The City is generally responsible for all public information. However, the DEQ may make public announcements and respond to all inquiries relating to the characterization and remediation of the building. The City and the DEQ shall make their best efforts to give the other party advance notice before making any public statement regarding work contemplated, undertaken, or completed pursuant to this MOA. DEQ will prepare a press release in advance of the armory ceremony, if one is held.

7. COMMUNICATIONS AND COORDINATION REPRESENTATIVES: To provide consistent and effective communication between the DEQ and the City, each party shall appoint a principal representative to serve as its central point of contact on matters relating to this MOA.

For the DEQ:

Dustin Davidson
Project Manager
Box 1677, OkC, OK 73101-1677
405-702-5100
dustin.davidson@deq.ok.gov

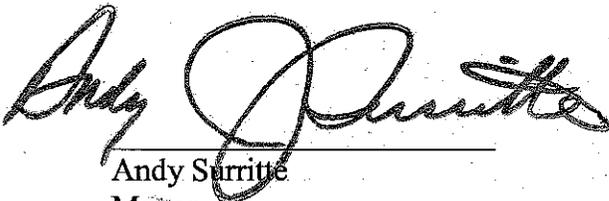
For the City:

Paul McAlexander
City Manager
P.O. Box 539, Pawhuska, OK 74056
918-287-3576
cityofpawhuska@sbcglobal.net

8. MISCELLANEOUS: This MOA shall not affect any pre-existing or independent relationships or obligations between the parties.

9. EFFECTIVE DATE: This Agreement becomes effective upon the date of the signature of the Executive Director of the DEQ and will remain in effect until the armory building has been remediated and released for occupancy by the DEQ.

10. ACCEPTANCE OF AGREEMENT: The parties acknowledge and agree that they have read the Agreement and that they accept the responsibilities with which they are charged. The City of Pawhuska agrees to comply with the building use restrictions before cleanup and understands that failure to comply with said restrictions or failure to adhere to the responsibilities enumerated in this Agreement may result in delayed remediation.



Andy Sarritte
Mayor
City of Pawhuska

11-30-10
DATE



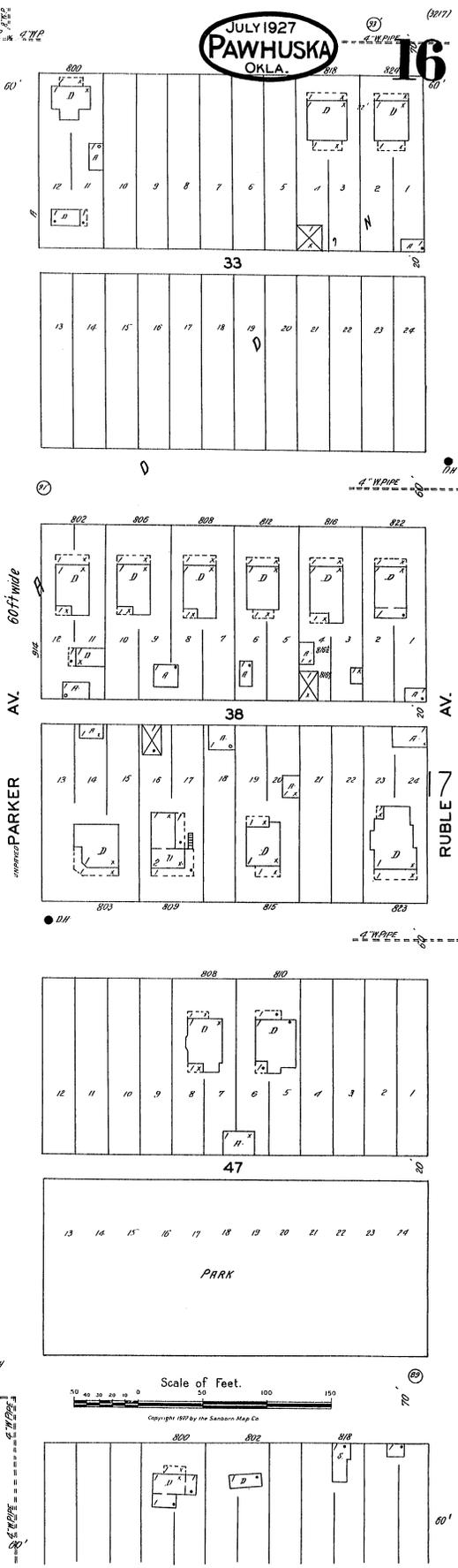
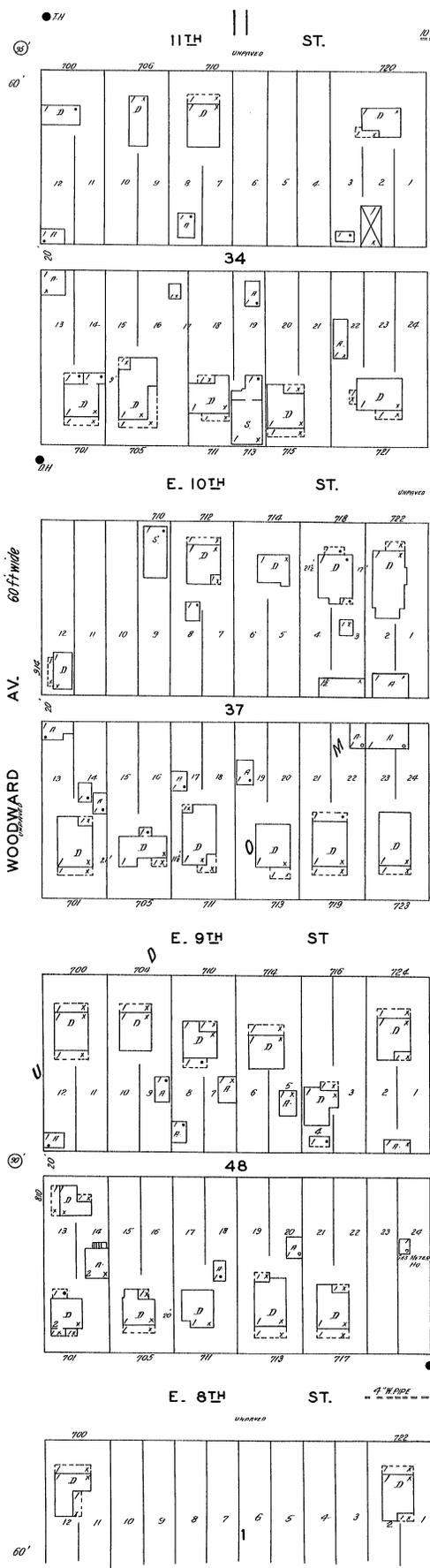
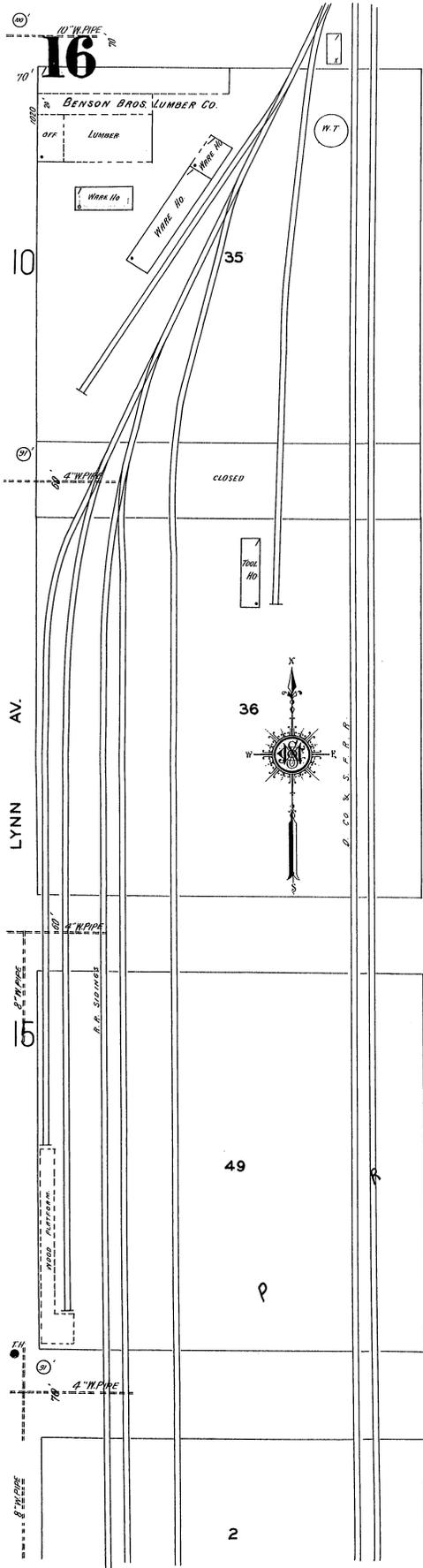
Steven A. Thompson
Executive Director
Department of Environmental Quality

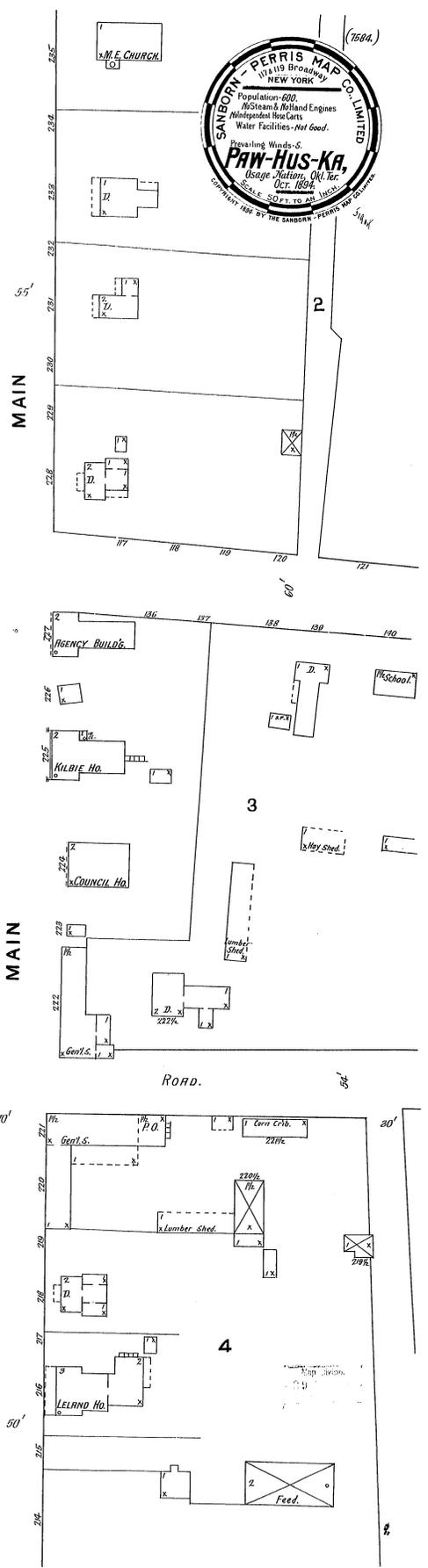
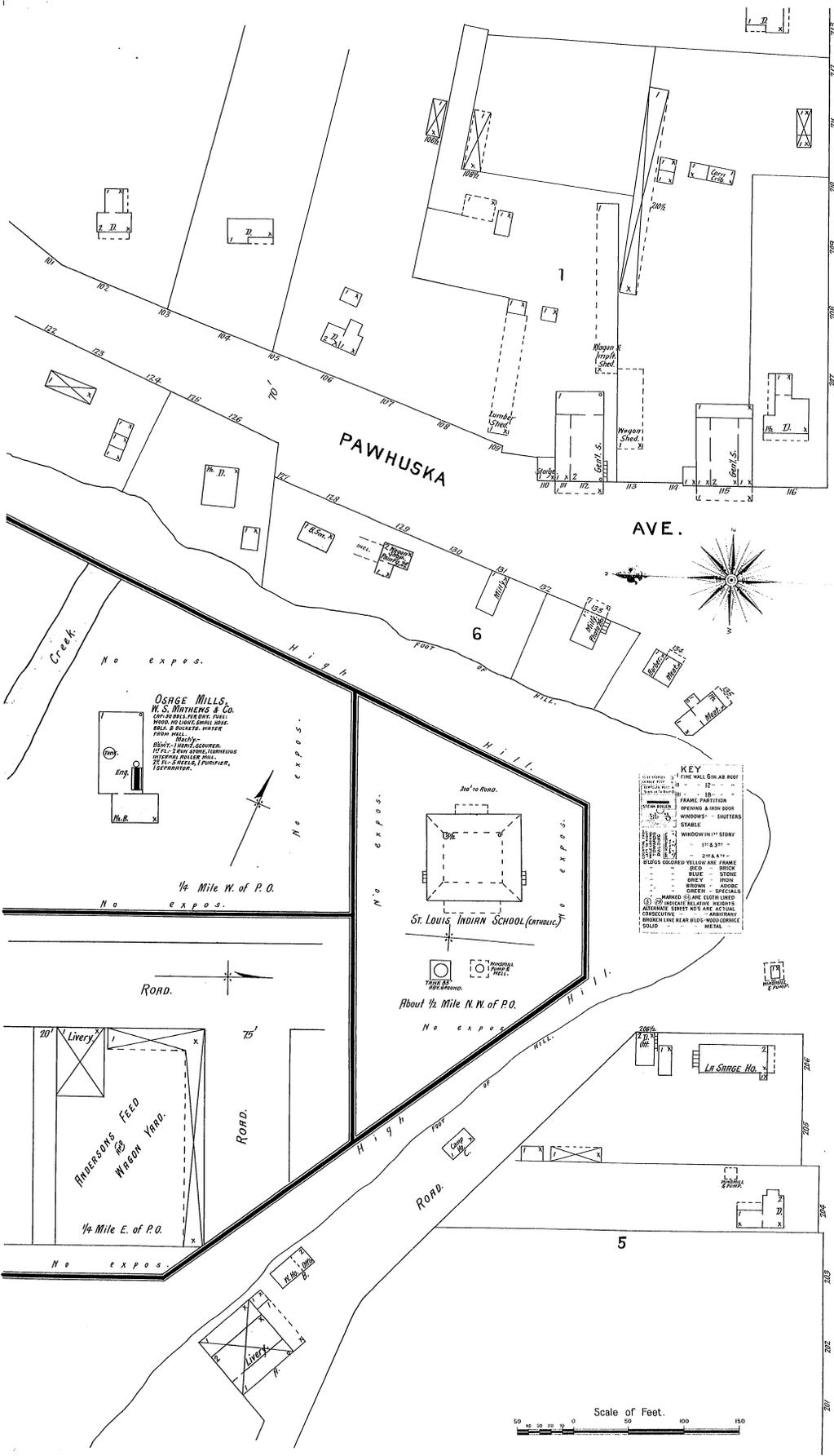
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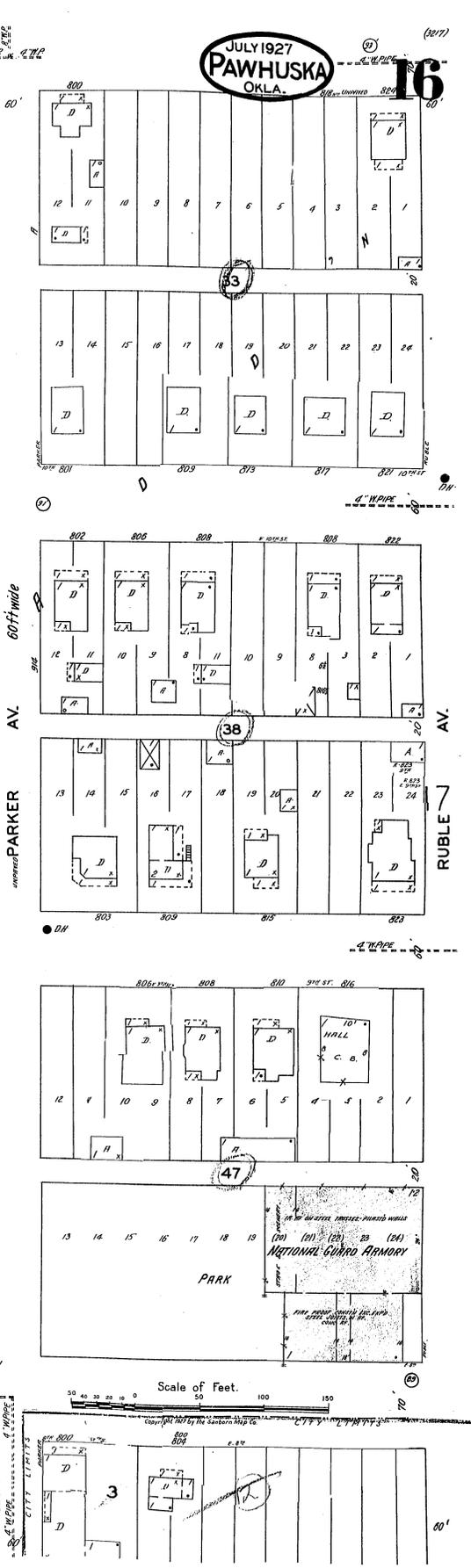
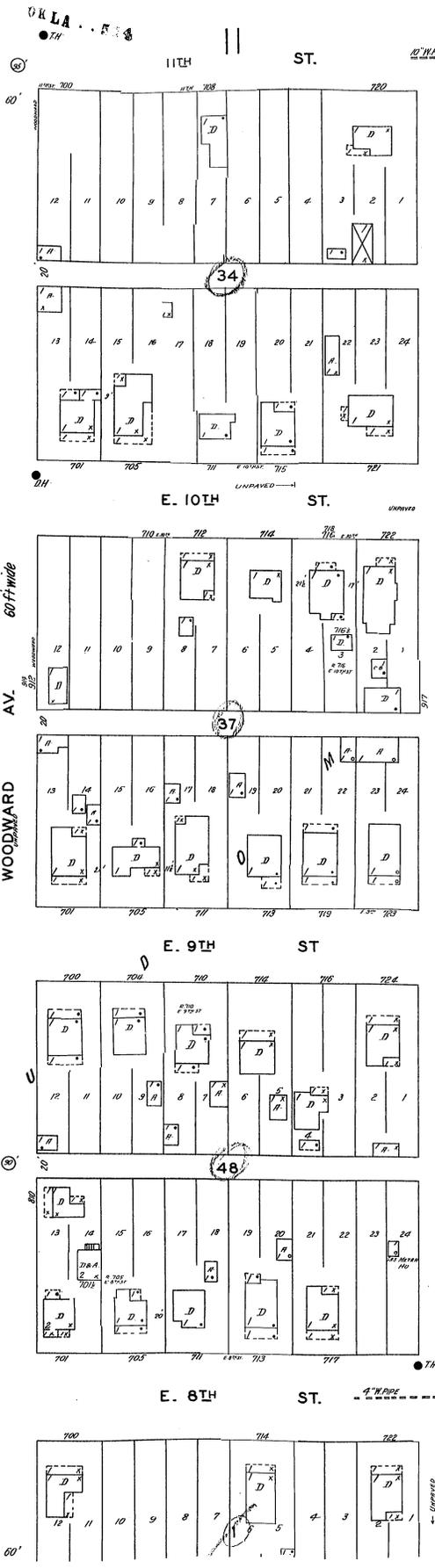
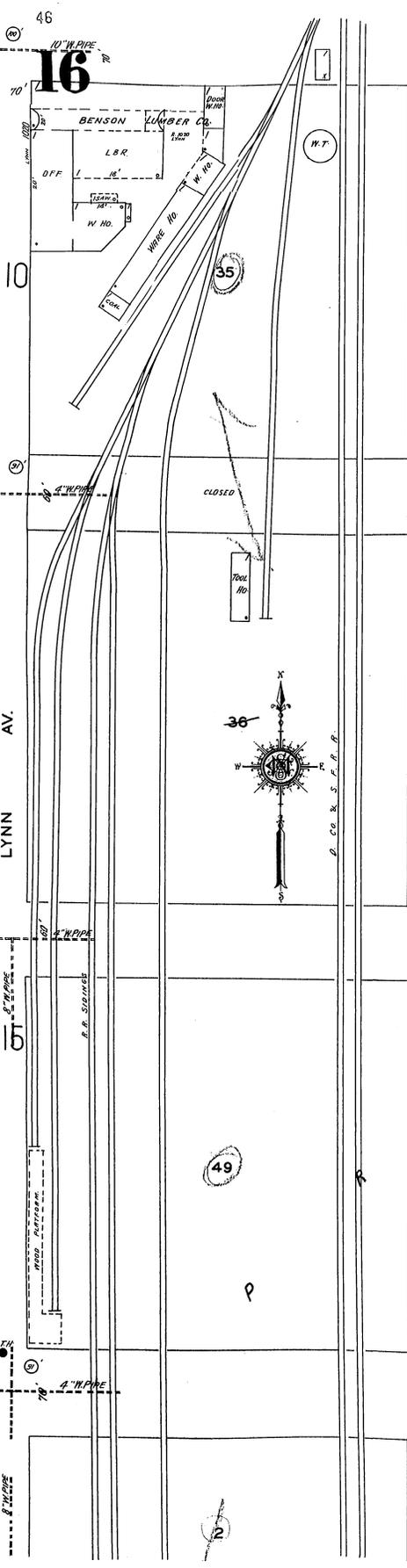
Appendix C Review of Regulatory Records



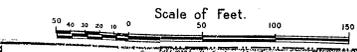
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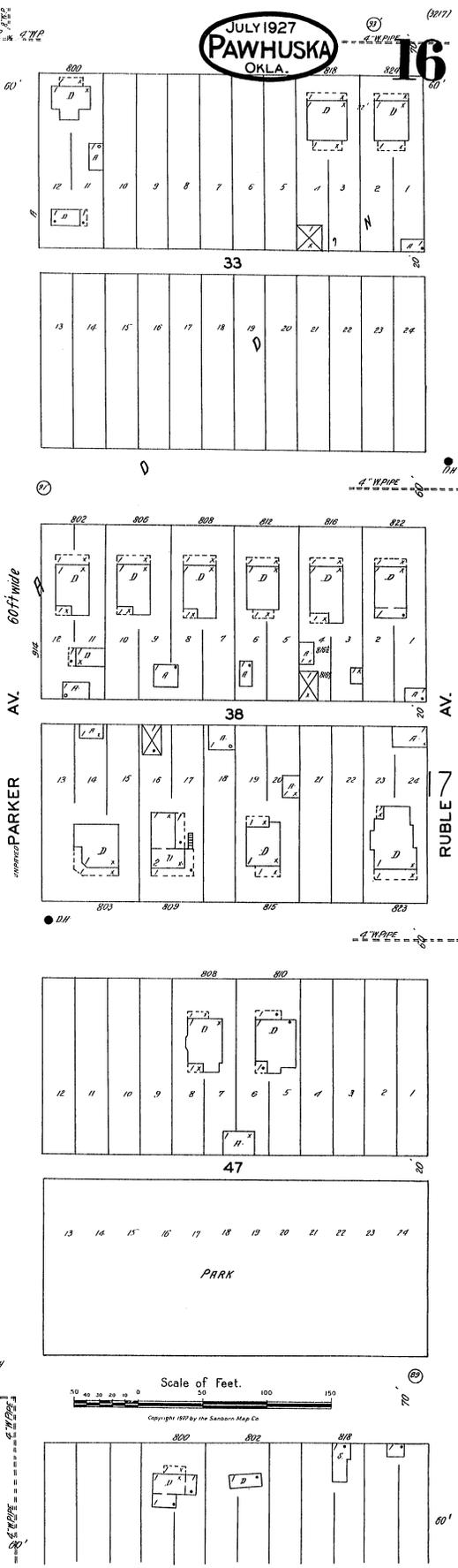
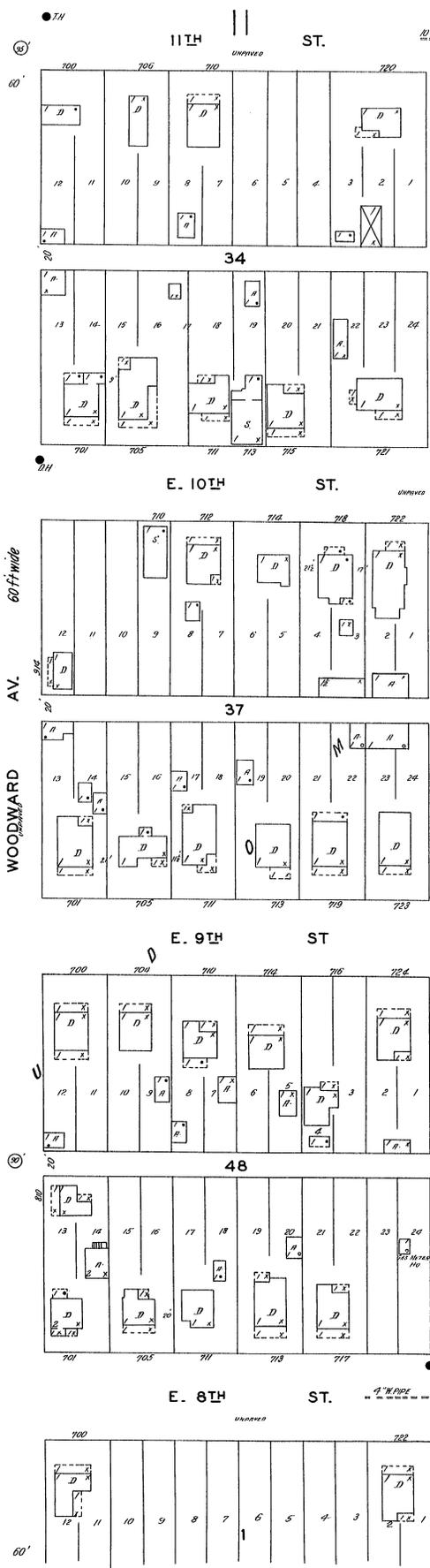
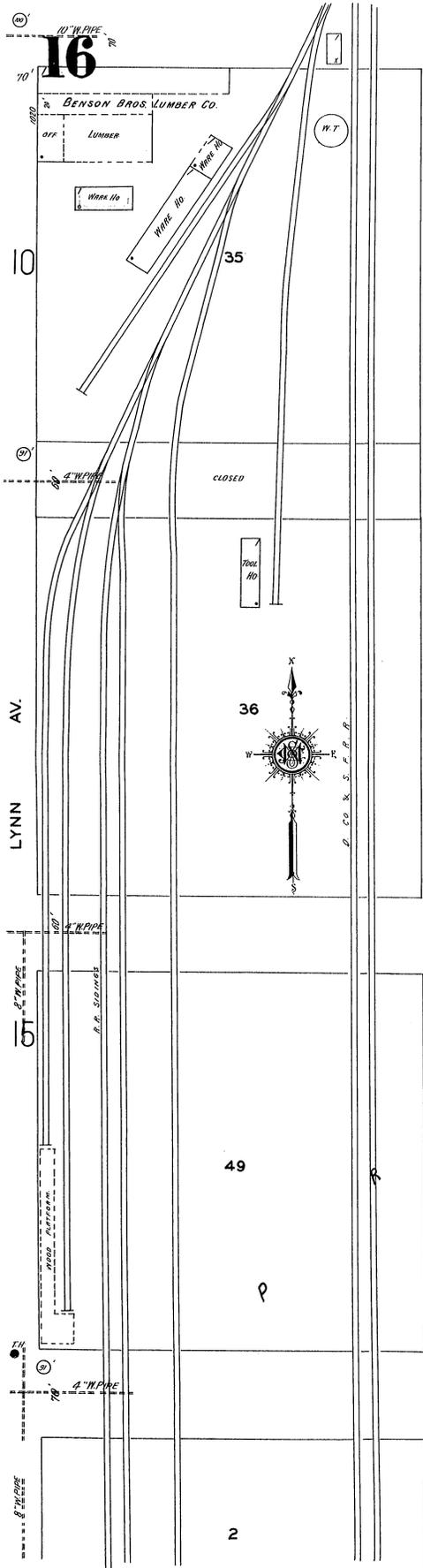




JULY 1927
PAWHUSKA
OKLA.



NATIONAL GUARD ARMORY



JULY 1927
PAWHUSKA
OKLA.

16

7

Scale of Feet.
0 20 40 60 80 100 120 140 150
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United States Department of the Interior
National Park Service

NATIONAL REGISTER OF HISTORIC PLACES
REGISTRATION FORM

=====

1. Name of Property

=====

historic name Pawhuska Armory

other names/site number Pawhuska National Guard Armory

=====

2. Location

=====

street & number 823 E. 8th Street not for publication N/A
city or town Pawhuska vicinity N/A
state Oklahoma code OK county Osage code 113
zip code 74056

=====

5. Classification

=====

Ownership of Property (Check as many boxes as apply)

- private
- public-local
- public-State
- public-Federal

Category of Property (Check only one box)

- building(s)
- district
- site
- structure
- object

Number of Resources within Property

Contributing	Noncontributing
<u> 1 </u>	<u> 0 </u> buildings
<u> 0 </u>	<u> 0 </u> sites
<u> 0 </u>	<u> 0 </u> structures
<u> 0 </u>	<u> 0 </u> objects
<u> 1 </u>	<u> 0 </u> Total

Number of contributing resources previously listed in the National Register 0

Name of related multiple property listing (Enter "N/A" if property is not part of a multiple property listing.) N/A

=====

6. Function or Use

=====

Historic Functions (Enter categories from instructions)

Cat: DEFENSE Sub: arms storage

Current Functions (Enter categories from instructions)

Cat: DEFENSE Sub: arms storage

=====

7. Description

=====

Architectural Classification (Enter categories from instructions)

OTHER: Works Progress Administration

Materials (Enter categories from instructions)

foundation CONCRETE

roof ASPHALT

walls STONE/sandstone

other _____

Narrative Description (Describe the historic and current condition of the property on one or more continuation sheets.)

=====
8. Statement of Significance
=====

Applicable National Register Criteria (Mark "x" in one or more boxes for the criteria qualifying the property for National Register listing)

- A Property is associated with events that have made a significant contribution to the broad patterns of our history.
- B Property is associated with the lives of persons significant in our past.
- C Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.
- D Property has yielded, or is likely to yield information important in prehistory or history.

Criteria Considerations (Mark "X" in all the boxes that apply.)

- A owned by a religious institution or used for religious purposes.
- B removed from its original location.
- C a birthplace or a grave.
- D a cemetery.
- E a reconstructed building, object, or structure.
- F a commemorative property.
- G less than 50 years of age or achieved significance within the past 50 years.

Areas of Significance (Enter categories from instructions)

- ECONOMICS
- MILITARY
- ARCHITECTURE
- _____
- _____
- _____
- _____

Period of Significance 1935-1937

Significant Dates 1937

=====
8. Statement of Significance (Continued)
=====

Significant Person (Complete if Criterion B is marked above)

N/A

Cultural Affiliation N/A

Architect/Builder Nolen, Bryan W., Supervising Architect,
Works Progress Administration

Narrative Statement of Significance (Explain the significance of the property on one or more continuation sheets.)

=====
9. Major Bibliographical References
=====

(Cite the books, articles, and other sources used in preparing this form on one or more continuation sheets.)

Previous documentation on file (NPS)

- preliminary determination of individual listing (36 CFR 67) has been requested.
- previously listed in the National Register
- previously determined eligible by the National Register
- designated a National Historic Landmark
- recorded by Historic American Buildings Survey # _____
- recorded by Historic American Engineering Record # _____

Primary Location of Additional Data

- State Historic Preservation Office
- Other State agency
- Federal agency
- Local government
- University
- Other

Name of repository: N/A

=====
10. Geographical Data
=====

Acreage of Property less than 2 acres

UTM References (Place additional UTM references on a continuation sheet)

	Zone	Easting	Northing	Zone	Easting	Northing
1	14	738820	4060910	3	_____	_____
2	_____	_____	_____	4	_____	_____

N/A See continuation sheet.

Verbal Boundary Description (Describe the boundaries of the property on a continuation sheet.)

Boundary Justification (Explain why the boundaries were selected on a continuation sheet.)

=====
11. Form Prepared By
=====

name/title Dr. Mary Jane Warde

organization Oklahoma SHPO date February 28, 1993

street & number 2806 W. 18th telephone (405) 377-0412

city or town Stillwater state OK zip code 74074

=====
Additional Documentation
=====

Submit the following items with the completed form:

Continuation Sheets

Maps
A USGS map (7.5 or 15 minute series) indicating the property's location.
A sketch map for historic districts and properties having large acreage or numerous resources.

Photographs
Representative black and white photographs of the property.

Additional items (Check with the SHPO or FPO for any additional items)

=====
Property Owner
=====

(Complete this item at the request of the SHPO or FPO.)

name State of Oklahoma/Oklahoma Military Department
street & number 3501 Military Circle, NE telephone (405) 425-8000
city or town Oklahoma City state OK zip code 73111
=====

United States Department of the Interior
National Park Service

NATIONAL REGISTER OF HISTORIC PLACES
CONTINUATION SHEET

Section 7 Page 9

Pawhuska Armory
name of property
Osage County, Oklahoma
county and State

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SUMMARY:

The Pawhuska Armory (Pawhuska National Guard Armory) is a single-story, rectangular sandstone building (125' x 140') built by the Works Progress Administration between 1935 and 1937. It stands on the northwest corner of East Eighth Street and Ruble Avenue. To the north and east are residential areas, to the south is uncultivated land surrounding a vacant business building, and to the west is a city park. The armory building consists of two main sections. To the north is a barrel-roofed drill hall paralleling East Eighth Street and opening on to Ruble Avenue. Centered on it is a smaller flat-roofed administrative section, facing East Eighth Street. The roofs are rolled asphalt. The walls are rusticated, generally coursed sandstone topped by a concrete coping. The use of native stone and the castellated facade mark it as an excellent example of WPA architecture in Oklahoma. The vertical lines and projecting features suggest an Art Deco influence.

EXTERIOR DESCRIPTION:

The Pawhuska Armory, consisting of two main sections, is shaped in a broad T. The axis of the drill hall, on the north, parallels East Eighth Street. The narrower administrative section, on the south, is centered on the drill hall and faces onto East Eighth Street. Both the barrel roof of the drill hall and the flat roof of the administrative section are rolled asphalt. Exterior walls of the building are rusticated, generally coursed buff sandstone with some larger stones randomly inserted. A simple concrete coping tops the wall. Heavy metal gutters provide drainage from the roof. Broad pediment-shaped pilasters extend above the roofline to define each corner of the building. Elongated steel-framed transoms and hopper windows with center pivot sections, set over stone sills, contribute to the vertical lines of the building. The vertical decorative features of the building demonstrates an Art Deco influence. The use of native stone and the castellated facade mark the Pawhuska Armory as a prime example of WPA architecture in Oklahoma.

The public entrance to the Pawhuska Armory is located on the south elevation of the administrative section and opens onto East Eighth Street. It is set in a complex portal that is centered on this elevation and extends above the flat roof. The portal has a pediment-shaped parapet between small square piers. Shorter pedimented pilasters flank the entrance. Near the top of each pilaster are three parallel vertical indentations, or embrasures, creating a triple-line motif repeated elsewhere on the building. Single vertical indentations are centered in each of these pilasters at the level of the entrance. On the right pilaster is mounted a diamond-shaped wooden plaque with the yellow-on-red "Thunderbird" emblem of the 45th Infantry Division. A single modern metal door is set beneath a segmented arch. Flanking the portal are groups of four windows. Each group includes paired three-over-five windows between single

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CONTINUATION SHEET

Section 7 Page 10

Pawhuska Armory
name of property
Osage County, Oklahoma
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EXTERIOR DESCRIPTION (continued)

two-over-five windows. At each end of the south elevation are slightly pedimented pilasters with the triple-line motif. Here the lines of the motif are lengthened to nearly half the height of the pilaster to give them greater importance. Along the roofline between the portal and pilasters on this elevation of the administrative section is a series of shorter decorative vertical indentations, or embrasures, that echo the triple-line motif. Inserted into the pilaster on the southwest corner is a dedication plaque contributed by the American Legion. It notes WPA Administrator General W. S. Key, Oklahoma National Guard Adjutant General Charles F. Barrett, Architect Major Bryan Nolen, Mayor Charles Bacon, and Superintendent Roy Beacroft. In the pilaster on the southeast corner is a WPA dedication plaque dated 1936. Set back from the primary facade of the administrative section on this elevation are the protruding ends of the longer drill hall. The width of these protrusions are covered by broad pedimented pilasters decorated with the triple line motif on their outer facades.

The west elevation of the Pawhuska Armory reveals the division of the building into two main sections. The right, or administrative section contains two three-over-five hopper windows. In the angle formed by this section and the protruding west end of the drill hall is a low, flat, concrete-topped extension. This is the roof of the basement rifle range located under the drill hall stage. On the west elevation of the drill hall, the concrete coping follows the curving line of the barrel roof. There is a single three-over-five window at the far right. At the right corner of the drill hall is a pedimented pilaster. The left corner has a mock pedimented pilaster. Each extends above the roofline.

The north elevation of the Pawhuska Armory is the length of the drill hall. At either end are the mock pedimented pilasters extending above the roofline. Centered on this elevation are paired single entrances. Each contains the original wooden door beneath vertical three-over-four transoms. To the right of the doors are two pairs of three-over-six windows. There is a single three-over-six window at the extreme right. To the left of the doors are two pairs of three-over-six windows. Windows and transoms on this elevation extend to the same height.

On the east elevation of the Pawhuska Armory the east end of the drill hall and the set-back east end of the administrative section provide access from Ruble Avenue. At either corner of the drill hall are pedimented pilasters decorated with the triple line motif. Between the pilasters the concrete coping follows the curving line of the barrel roof. Centered on this elevation of the drill hall is a metal overhead door. To the right are three three-over-six windows. To the left of the overhead door is a single door with a vertical three-over-

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Pawhuska Armory
name of property
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EXTERIOR DESCRIPTION (continued)

four transom. Two three-over-six windows are to the left of the single door. All windows and the transom extend to the same height. To the left of the drill hall in the set-back east elevation of the administrative section are two three-over-five windows. To the left of the windows are two wooden overhead doors. At the southeast corner of the administrative section is a wide, pedimented-shaped pilaster extending above the roofline.

INTERIOR DESCRIPTION:

The administrative section of the Pawhuska Armory is bisected by a north-south central corridor. Interior walls are stone and brick. The floor is concrete. The original ceilings are high. Original doors are wooden slats set diagonally in plank frames. On either side of the hallway are offices, classrooms, restrooms, storage rooms, and garages. The small arms vault is still in place. At the west end of the drill hall is a stage flanked by pilasters similar to those on the exterior of the building. Exposed concrete stairs lead down to the rifle range in the basement. The steel roof framing is exposed and walls are natural stone. The drill hall floor is new concrete over the original concrete bed. The rifle range has a concrete floor and extends well beyond the south wall of the drill hall. It has observers' boxes set into the east wall at the north end.

ALTERATIONS:

Most alterations to the Pawhuska Armory are interior. The main corridor of the administrative section has been paneled in particle board. A dropped acoustical ceiling and fluorescent light fixtures have been added in the corridor and in some rooms. Most interior walls in this section of the building have been painted to reduce dust and flaking from the stone. The wooden floor of the drill hall was removed and four inches of new concrete poured over the original bed. The northeast corner of the drill hall has been partitioned to create kitchen and dining space for Guard functions.

Exterior alterations are less obvious. The drill hall roof was repaired in 1976, and new tar was applied in 1983. The building was sandblasted in 1987, but the stone does not appear to have been affected adversely. A modern single metal door set between wooden panels has replaced the original double wooden door at the main entrance on East Eighth Street. The overhead door aperture to the drill hall on Ruble Avenue was enlarged to accommodate artillery pieces, but the enlargement is not obvious. A new metal door now fills that opening. Some window panes have been painted. None of the alterations to the Pawhuska Armory impeach its architectural or historic integrity.

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CONTINUATION SHEET

Section 8 Page 12

Pawhuska Armory
name of property
Osage County, Oklahoma
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SUMMARY:

The Pawhuska Armory (Pawhuska National Guard Armory) is eligible for the National Register of Historic Places under Criterion A because of its association with the Works Progress Administration and the Oklahoma National Guard. The aim of the WPA was to combat the effects of the Great Depression by employing jobless people on local relief rolls in public works projects. These projects stimulated the local economy by providing wages to previously destitute people. The use of native stone or other locally produced materials also increased local finances, as well as reduced project costs and created distinctive buildings. The Pawhuska Armory exemplified the program in Osage County. On completion it became the headquarters of the local National Guard unit, which has now occupied the building for more than fifty-five years. The Pawhuska Armory is also eligible for the National Register under Criterion C. The castellated style showing an Art Deco influence and use of native stone adapted for unskilled labor make it an excellent example of WPA architecture in Oklahoma.

HISTORICAL SIGNIFICANCE:

The Pawhuska Armory, constructed between 1935 and 1937, was a product of the Works Progress Administration, created under the New Deal programs of President Franklin D. Roosevelt. The goal of the WPA was to combat the effects of the Great Depression by subsidizing public works projects. These projects drew labor from the relief rolls to reduce record levels of unemployment. Materials produced locally were used in order to stimulate the economy and reduce costs. The WPA program, created in June 1935, ended in June 1943 with the return of full employment during World War II. The program spent a total of \$10.75 billion, with \$185 million allocated to Oklahoma projects. Typical WPA projects in Oklahoma at the county and town level included roadwork, bridges, dams, malaria control, sanitation and water system improvements, schools, post offices, and public buildings. The WPA stipulated that projects had to meet three basic criteria to qualify: the project had to have local sponsorship; draw labor from local relief rolls; and, the outcome had to be a permanent, useful addition to the community. The Pawhuska Armory fulfilled all these requirements.¹

Armory projects in Oklahoma easily met the requirement of usefulness and permanency. Oklahoma National Guard units never had permanent headquarters. Most rented make-shift facilities at a total cost to the state of about \$50,000 annually. Additionally, security at these facilities was often a problem, leaving arms and equipment liable to theft. Pawhuska's thirty-seven man unit, the 120th Veterinary Company, 120th Medical Regiment, was unusual in that it had an armory but the facility was inadequate for proper training.

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CONTINUATION SHEET

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Pawhuska Armory
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HISTORICAL SIGNIFICANCE (continued)

In 1935, Pawhuska needed a public works project such as an armory. Founded in 1872, the town was the site of the Osage Indian Agency and the seat of Osage County after statehood. The discovery of oil beneath prime grazing land at the turn-of-the-century made the Osage people the richest Native Americans in the world. Euro-Americans shared in the prosperity based on oil, natural gas, cattle, poultry, and small grain. Although the Osage area suffered less than the rest of Oklahoma in the 1930s, declines in oil and commodity prices combined with drought and a grasshopper infestation to produce hard times. In June 1935, when the WPA was created, 1,619 heads of families or single people were on relief rolls, a total of 14 percent of the county population.² Construction of an armory would ease their hardship. Mayor Charles Bacon and City Manager Lee Houston quickly applied for a WPA armory. By early September, the city of Pawhuska demonstrated its commitment to the project by deeding a parcel of the city park to the state for a building site and by leasing part of the Ed P. Souligny acreage north of town for a quarry, thus meeting the requirement of community sponsorship.³

Construction of the Pawhuska Armory began in early October 1935 with 43 men at work quarrying the stone to be used on the project. By early November, 10 more were clearing the site for actual construction. Work stopped briefly in late November while state and federal WPA officials haggled over allocation of funds, but protests by the governor, second Congressional district representative, and Mayor Bacon helped reinstate the Pawhuska project.⁴ Work continued under the supervision of foreman Roy Beacroft through 1936 in spite of extreme winter cold and excessive summer heat. On October 25 the Pawhuska American Legion Post sponsored the official laying of the cornerstone.⁵ While skilled masons did the stonework, unskilled laborers did the rest. This included laying 148,000 small pine blocks which were cut cross-grain, sanded, inlaid in tar, and varnished to form the drill hall floor. Such labor-intensive work, organized in two shifts and limited to four working days per week, 130 hours per month, per laborer, took the maximum number of men off the relief rolls, meeting a WPA objective. The guaranteed wage of \$23 per month gave the men back the ability to provide for themselves and their families. An estimated 90,000 man-hours was invested in the construction of the Pawhuska Armory by its completion in 1937. The dedication ceremony on May 24 was cause for an enthusiastic community celebration, attended by a number of state WPA dignitaries, including Oklahoma National Guard Major Bryan W. Nolen, the armory's architect.⁶

The Pawhuska Armory, built at a cost of \$60,000, provided excellent facilities for the local Guard unit. The entire structure measured 125' by 140'. The administrative section facing East Eighth Street contained offices, a classroom,

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HISTORICAL SIGNIFICANCE (continued)

25' by 30' locker room, showers, an arms vault, and a garage for six trucks. The drill hall, designed to double as a community center and public meeting hall, was 78' by 109'. At the west end was a 12' wide and 78' long stage. Footlights and floodlights illuminated stage and floor. Beneath the stage was a basement rifle range, 12' by 102', for indoor small arms practice. The size and style of the building made it a major addition to Pawhuska.

Even before the dedication the building had begun to serve the community as a site for dances and as a convention center for the American Legion. Shortly after the dedication, the drill hall also housed a tent factory.

The National Guard unit that received the Pawhuska Armory as its headquarters dated back to the reorganization of the Oklahoma National Guard into the 45th Infantry ("Thunderbird") Division in 1923. This was the second unit stationed in Pawhuska. The first, a company in the 160th Field Artillery, transferred to nearby Hominy, Oklahoma. The second unit, organized by Dr. Harold F. Ketchum who served as captain until 1938, was the 120th Veterinary Company, 120th Medical Regiment. Motorization of the Oklahoma National Guard in the 1930s ended the need for a veterinary unit. From 1935 to 1937 the Pawhuska company functioned as an ambulance unit. Then in June 1938, the unit was converted to Company B, 120th Medical Regiment, a collecting company with the responsibility of retrieving battlefield casualties from the front lines and evacuating them to field hospitals. Enlistment increased from thirty-seven to sixty men. The Oklahoma National Guard mobilized in 1940 as the United States prepared to enter World War II. The "Thunderbird" Division served with distinction in the European Theater from the invasion of Sicily and Italy through the surrender of Germany in 1945, a total of 511 actual combat days. The armory continues to serve as the headquarters of Detachment 2, Company C, 1st Battalion, 279th Infantry of the Oklahoma National Guard.⁸

ARCHITECTURAL SIGNIFICANCE:

The Pawhuska Armory is an excellent example of a WPA armory in Oklahoma. It is a one-unit armory, typical of those designed by WPA architect and Oklahoma Guardsman Major Bryan W. Nolen. Nolen's standardized designs for one-unit, two-unit, and four-unit armories were flexible enough for construction by unskilled labor and for variable local conditions. Use of native stone, as was the case for thirty-three of Oklahoma's fifty-one WPA armories constructed prior to mid-1937, kept construction costs down while labor-intensive quarrying, dressing, and laying of stone employed as many men from the relief rolls as possible. Thus, the construction of the Pawhuska Armory met the practical goals of the WPA. At the same time, the castellated features and Art Deco influence evident in the verticality of the piers, portal, and windows reflect

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NATIONAL REGISTER OF HISTORIC PLACES
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Pawhuska Armory
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ARCHITECTURAL SIGNIFICANCE (continued)

the WPA's emphasis on art and craftsmanship. Together these characteristics mark the Pawhuska Armory structurally and stylistically as a prime example of the WPA armory in Oklahoma.

The period of significance for the Pawhuska Armory is 1935 to 1937. Construction began in 1935 and ended with its dedication in 1937. The building immediately became an integral part of the Pawhuska community.

During fifty-five years of continuous occupation by the Oklahoma National Guard, the Pawhuska Armory has undergone relatively little exterior alteration. The building retains a high degree of its historic and architectural integrity.

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NATIONAL REGISTER OF HISTORIC PLACES
CONTINUATION SHEET

Section 8 Page 16

Pawhuska Armory
name of property
Osage County, Oklahoma
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NOTES

¹U. S. Works Progress Administration, Oklahoma, Final Report of Activities and Accomplishments, (n.p., 1943), 1-5; The Wagoner (Oklahoma) Tribune, 19 November 1935.

²Accomplishments: Works Progress Administration for Oklahoma, July 1, 1935-March 1, 1937 (Oklahoma City: Works Progress Administration, 1937), 38, 40 The Daily Journal-Capital, Pawhuska, Oklahoma, 6 October, 1935, 23 May 1937; Terry P. Wilson, The Underground Reservation: Osage Oil (Lincoln: University of Nebraska Press, 1985), 18, 34-35; The Indian Journal, Eufaula, Oklahoma, 20 June 1935.

³The Osage County News, Pawhuska, Oklahoma, 20 August 1935; The Daily Journal-Capital, Pawhuska, Oklahoma, 9 July, 29 August, 3 October 1935.

⁴The Daily Journal-Capital, Pawhuska, Oklahoma, 21 October, 8 November, 14 November, 15 November, 1935.

⁵The Osage County News, Pawhuska, Oklahoma, 22 November 1935, 21 February, 10 July, 16 October 1936.

⁶The Daily Journal-Capital, Pawhuska, Oklahoma, 23 May, 25 May 1937; The Konawa (Oklahoma) Leader, 27 February 1936; The Sulphur (Oklahoma) Times-Democrat, 11 July 1935.

⁷The Daily Journal-Capital, Pawhuska, Oklahoma, 16 May, 23 May 1937; interview with Sergeant First Class Earl Smith, Pawhuska, Oklahoma, January 28, 1993.

⁸The Daily Journal-Capital, Pawhuska, Oklahoma, 23 May 1937; National Guard of the United States, State of Oklahoma, Historical Annual, 1938 (Baton Rouge, Louisiana: Army & Navy Publishing Company, 1938), 282; Kenny A. Franks, Citizen Soldiers: Oklahoma's National Guard (Norman, Oklahoma: University of Oklahoma Press, 1984), 20, 23-37, 42, 48, 49, 51, 62-114; interview with Sergeant First Class Earl Smith, Pawhuska, Oklahoma, January 28, 1993.

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NATIONAL REGISTER OF HISTORIC PLACES
CONTINUATION SHEET

Section 9 Page 17

Pawhuska Armory
name of property
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MAJOR BIBLIOGRAPHICAL REFERENCES:

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NATIONAL REGISTER OF HISTORIC PLACES
CONTINUATION SHEET

Section 10 Page 18

Pawhuska Armory
name of property
Osage County, Oklahoma
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Verbal Boundary Description

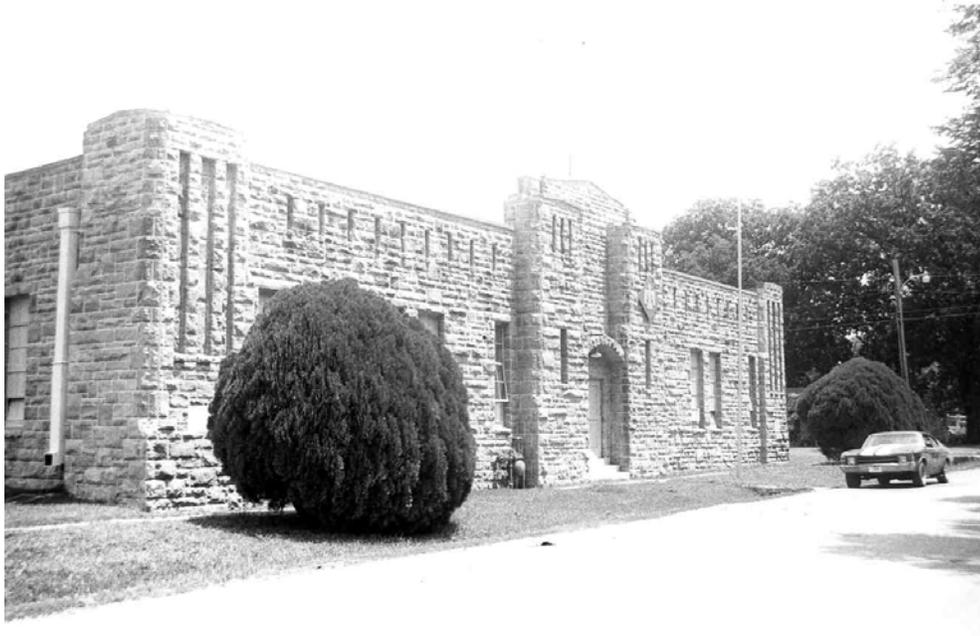
Lots 20-24, Block 47, Prudom Addition.

Boundary Justification

This is the property's boundary lines as legally recorded in the County Clerk's Office, Osage County Courthouse, Pawhuska, Oklahoma. The boundaries described above have been historically associated with the nominated property.



Pawhuska Armory

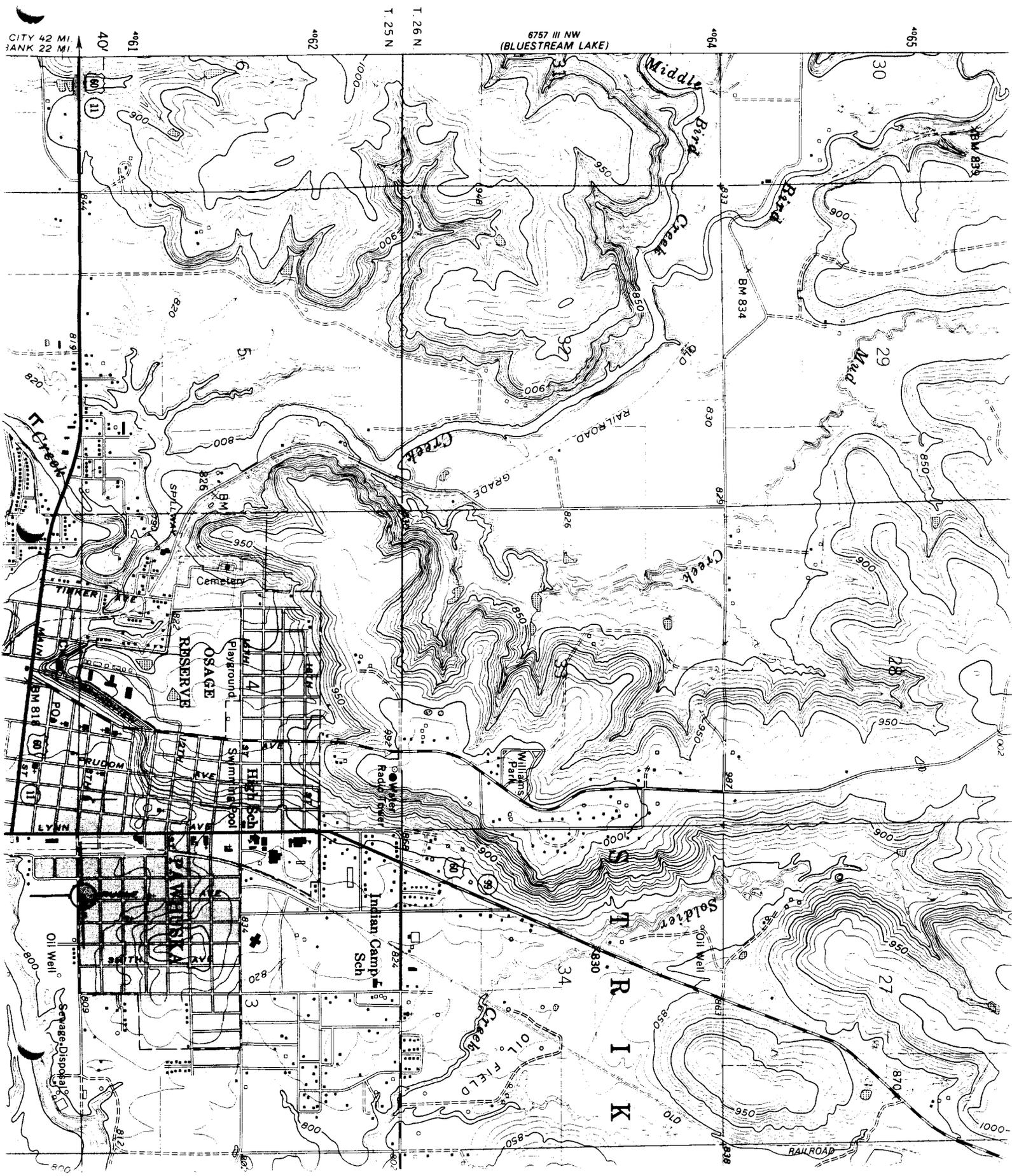




Pawhuska Armory



huska Armory
huska, OKla.
: 14 738820 4060910





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

REC. 8/5/93
Rf



August 3, 1993

Directorate of Engineering

SUBJECT: Underground Fuel Storage Tank at Pawhuska, 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 August 1984.

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
TAS
8/5/93

REC- 8/5/93
RF

DEPARTMENT OF THE ARMY
DETACHMENT 2 COMPANY C 1ST BATTALION 179TH INFANTRY
Oklahoma Army National Guard
823 East 8th Street, Pawhuska, Oklahoma 74056

WPTJC2

27 July 1993

MEMORANDUM FOR Oklahoma Military Department, ATTN: 1SG Doyle Balzer,
OKDE, 3501 Military Circle, Oklahoma City, OK 73111

SUBJECT: Underground Fuel Tanks

1. Reference: Telephone conversation between 1SG Balzer and SFC Smith on 27 Jul 93.
2. This unit presently has an underground fuel tank which has been out of service since about August 1984.
3. No fuel has been purchased or pumped since that date.

FOR THE COMMANDER:



EARL D. SMITH
SFC, OKARNG
NCOIC

JAS

RECEIVED
OKFAC
29 JUL 93 12 38

Pawhuska/ACRA
UST

HEADQUARTERS 1ST BATTALION 179TH INFANTRY
Oklahoma Army National Guard
1207 West Airport Road, Stillwater, OK 74075

S-3 (350)

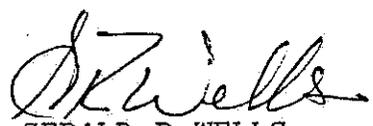
24 October 1990

MEMORANDUM FOR Enviromental Officer, Oklahoma Military Dept., ATTN:
MAJ Harwell, Oklahoma City, OK 73111-4398

SUBJECT: Underground Storage Fuel Tank

1. The underground fuel storage tank at the National Guard Armory, located at Pawhuska, Oklahoma has been out of service since July 1980.
2. No fuel has been purchased or pumped since the above date.

FOR THE COMMANDER:


GERALD R WELLS
CSM, OKARNG
OT&R Specialist

CF:
Cdr, Det 1 Co C
S-4, 1-179 IN

Sheet 1 of 1

Job No. Pawhuska

Date 6-14-95

Completed by Jammy Wheeler

CERTIFICATE OF DESTRUCTION

Scrapping/Disposal Company:

Wheeler Metals
5500 Border
Muskogee, Ok 74401

Site of Destruction:

Same

Tank Removal Contractor:

Okla. Military Dept.

Tank Identification:

Tank No.: _____

Size: 1000 gal

Location: Company Pawhuska

Address _____

City/State _____

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 Jammy Wheeler

Title Sec.

Subscribed & Sworn to before me this 14th day of June,
in the year 1995

Notary Public Pamela M. Cook My Commission Expires: 1-4-98



9th STREET

PARKER →

REMOVED
8 JUN 95

← MAIN STREET

8'

20'

8th STREET

1000 GAL

SOIL SAMPLES

U.S. 60

PAWTHUSKA

TO HWY 99 →

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

Tank Identification Number 5-705776 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>(Refer to Section 2.1)</small>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Permanently Out of Use <small>(Refer to Section 2.1)</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) 1958

3. Estimated Total Capacity (gallons) 1,000

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"/>

Notification for Underground Storage Tanks	STATE USE ONLY
State Agency Name and Address: <i>Oklahoma Military Department 3501 Military Circle, Okc, Ok 73111</i>	ID NUMBER <i>5-705776</i>
TYPE OF NOTIFICATION	DATE RECEIVED
<input type="checkbox"/> A. NEW FACILITY <input type="checkbox"/> B. AMENDED <input checked="" 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, 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 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 is 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 amendable 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 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 1979, or which is an interstate 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 basements, cellars, mine workings, 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. The inorganic 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 Subsection 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 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, 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 amendments to facility send information to State agency immediately.

Penalties: Any owner who knowingly fails to notify or submit 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

Street / address:
3501 MILITARY CIRCLE

OKLAHOMA CITY, OK 73111-4398
City State ZIP Code

OKLAHOMA
County

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

II. LOCATION OF TANK(S)

If required by State, give the geographic location of tanks by departmental coordinates. Examples Lat. 42, 34, 12 N Long. 66, 34, 17W

Latitude _____ Longitude _____

(If same as Section I, check box)

Facility Name or Company Site Location, as applicable:
Pawhuska National Guard Armory

Street Address, P.O. Box, or intersection:
835 E 9th ST

Pawhuska Ok 74056
City State ZIP Code

OSAGE
County Municipality

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

Tank Identification Number 5-705776 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>(Refer to Section X.)</small>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Permanently Out of Use <small>(Refer to Section X.)</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>1958</u>				
------------------------------------	-------------	--	--	--	--

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					
	Has tank been repaired?	<u>NO</u>				

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						

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>				

5705776 4

Notification for Underground Storage Tanks		STATE USE ONLY	
State Agency Name and Address:		ID NUMBER	5705776
TYPE OF NOTIFICATION:		DATE RECEIVED	8/5/93 Rj
<input type="checkbox"/> A. NEW FACILITY	<input type="checkbox"/> B. AMENDED	<input checked="" type="checkbox"/> C. CLOSURE	
____ No. of tanks at facility	____ No. of continuation sheets attached	A. Date Entered into Computer: _____	
INSTRUCTIONS		B. Data Entry Clerk Initials: _____	
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.		C. Owner Was Contacted to Clarify Responses. Comments: _____	

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.

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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 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, cellar, mineworking, 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 (OKDM) Latitude _____ Longitude _____

Street Address
3501 Military Circle

City State ZIP Code
Okla City OK 73111

County
OKlg

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. Examples Lat. 42, 36, 12 N Long. 85, 24, 17 W

(if same as Section I, mark box here)

Facility Name or Company See Identifier, as applicable
Okla. National Guard Armory

Street Address (P.O. Box not acceptable)
823 E. 8TH ST.

City State ZIP Code
Lawhuska Ok, 74056

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"/>	<input type="checkbox"/>
Temporarily Out of Use <small>(Remember to fill out section X)</small>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Permanently Out of Use <small>(Remember to fill out section X)</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)					
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"/>	<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					
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"/>	<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					
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 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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

XI. CERTIFICATION OF COMPLIANCE (COMPLETE FOR ALL NEW AND UPGRADED TANKS AT THIS LOCATION)

Tank Identification Number	Tank No. _____				
----------------------------	----------------	----------------	----------------	----------------	----------------

1. Installation					
A. Installer certified by tank and piping manufacturers	<input type="checkbox"/>				
B. Installer certified or licensed by the implementing agency	<input type="checkbox"/>				
C. Installation inspected by a registered engineer	<input type="checkbox"/>				
D. Installation inspected and approved by implementing agency	<input type="checkbox"/>				
E. Manufacturer's installation checklists have been completed	<input type="checkbox"/>				
F. Another method allowed by State agency. Please specify.	<input type="checkbox"/>				

2. Release Detection (Mark all that apply)	TANK	PIPING								
A. Manual tank gauging	<input type="checkbox"/>									
B. Tank tightness testing	<input type="checkbox"/>									
C. Inventory controls	<input type="checkbox"/>									
D. Automatic tank gauging	<input type="checkbox"/>									
E. Vapor monitoring	<input type="checkbox"/>									
F. Groundwater monitoring	<input type="checkbox"/>									
G. Interstitial monitoring double walled tank/piping	<input type="checkbox"/>									
H. Interstitial monitoring/secondary containment	<input type="checkbox"/>									
I. Automatic line leak detectors	<input type="checkbox"/>									
J. Line tightness testing	<input type="checkbox"/>									
K. Other method allowed by Implementing Agency. Please specify.	<input type="checkbox"/>									

3. Spill and Overfill Protection				
A. Overfill device installed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. Spill device installed	<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: _____
 Name _____ Signature _____ Date _____
 Position _____ Company _____

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>5-705776</u>
TYPE OF NOTIFICATION	DATE RECEIVED
<input type="checkbox"/> A. NEW FACILITY <input type="checkbox"/> B. AMENDED <input checked="" type="checkbox"/> C. CLOSURE	A. Date Entered into Computer _____ B. Data Entry Clerk Initials _____ C. Owner Was Contacted to Clarify Responses, Comments. _____
_____ No. of tanks at facility _____ No. of continuation sheets attached	_____ _____ _____
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 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 amendable 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. Gases, 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. farms 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. 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 1979, or which is an interstate 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 placed in an underground area (such as basements, cellars, mine workings, 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 (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 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, 1984. 2. Owners who bring underground storage tanks into use after May 8, 1984, 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 submit false information shall be subject to a civil penalty not to exceed \$30,000 per occurrence for which notification is not given or for which false information is submitted.

I. OWNERSHIP OF TANK(S)

II. LOCATION OF TANK(S)

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

Street or Address:
3501 MILITARY CIRCLE

OKLAHOMA CITY, OK 73111-4398
City State ZIP Code

OKLAHOMA
County

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

If located by State, give the geographic location used by departmental personnel.
 Examples Lat. 42, 34, 12 N Long. 94, 94, 17W

Latitude _____ Longitude _____

(If tank on bottom, check box)

Facility Name or Company Name (include, as applicable)
Pawhuska National Guard Armory

Street Address, P.O. Box, and other addresses:
833 E 8th ST

Pawhuska Ok 74056
City State ZIP Code

OSAGE
County Municipality

AMERICAN ANALYTICAL & TECHNICAL SERVICES

10926 E. 55th PLACE TULSA, OK 74146 918 664-0387

Client Name: OKLAHOMA MILITARY DEPARTMENT, ATTN:OKSA
3501 MILITARY CIRCLE
OKLAHOMA CITY , OK 73111-4398

Client ID: PAWHUSKA CENTER

Project ID:

AATS ID: 11027.01

Report: 11027.01

Received: 06/14/95

Analyzed: 06/15/95

Report Date: 06/16/95

Matrix: Soil

Sample Amount: 5.0 RESULTS REPORTED IN ug/Kg

COMPOUND	REPORTING		COMPOUND	REPORTING	
	RESULTS	LIMIT		RESULTS	LIMIT
BENZENE	ND	1.0	TOLUENE	ND	1.0
ETHYLBENZENE	ND	1.0	TOTAL XYLENES	ND	1.0

QA Sequence No: 2B061595
QUALITY ASSURANCE/QUALITY CONTROL
Surrogate Recoveries

BFB (65-135%)

74 %

- ** - Outside of QC Limits on both Original and Rerun
- B - Compound Also Found in Blank
- J - Estimated Value Below Reporting Limit
- ND - Not Determined

Approved by:



Method: SW 8020

270

AMERICAN ANALYTICAL & TECHNICAL SERVICES

10926 E. 55th PLACE TULSA, OK 74146 918 664-0387

Client Name: OKLAHOMA MILITARY DEPARTMENT, ATTN:OKSA
3501 MILITARY CIRCLE
OKLAHOMA CITY , OK 73111-4398

Client ID: PAWHUSKA SIDE

Project ID:

AATS ID: 11027.02

Report: 11027.02

Received: 06/14/95

Analyzed: 06/16/95

Report Date: 06/19/95

Matrix: Soil

Sample Amount: 5.0 RESULTS REPORTED IN ug/Kg

COMPOUND	REPORTING		COMPOUND	REPORTING	
	RESULTS	LIMIT		RESULTS	LIMIT
BENZENE	ND	1.0	TOLUENE	ND	1.0
ETHYLBENZENE	ND	1.0	TOTAL XYLENES	0.7 J	1.0

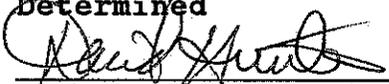
QA Sequence No: 3B061695
QUALITY ASSURANCE/QUALITY CONTROL

Surrogate Recoveries

BFB (65-135%)

85 %

- ** - Outside of QC Limits on both Original and Rerun
- B - Compound Also Found in Blank
- J - Estimated Value Below Reporting Limit
- ND - Not Determined

Approved by: 

Method: SW 8020

AMERICAN ANALYTICAL AND TECHNICAL SERVICES
GAS CHROMATOGRAPHY LABORATORY

METHOD : MODIFIED 8015
 CLIENT : OKMILDPT
 CLIENT SAMPLE ID: PAWHUSKA CENTER
 AATS SAMPLE ID : 11027.01
 FILENAME : 5062095\016F1101
 SAMPLE MATRIX : SOIL
 AMT. EXTRACTED : 20.0 g
 EXTRACTION SOL. : METHYLENE CHLORIDE
 SOLVENT AMT : 5.0 ml
 DILUTION FACTOR : 1
 DATE SAMP. REC. : 06/14/95
 DATE EXTRACTED : 06/20/95
 DATE ANALYZED : 06/20/95
 REPORT DATE : 06/21/95

QUANTITATION REPORT

TOTAL EXTRACTABLE HYDROCARBONS	QUANTITATION LIMIT (mg/Kg)	AMOUNT FOUND (mg/Kg)	FLAG
GASOLINE C6-C10	2.0	2.0	ND
DIESEL C10-C22	2.0	2.0	ND
KEROSENE C9-C18	2.0	2.0	ND
JP-4 C6-C14	2.0	2.0	ND
NAPHTHA C6-C12	2.0	2.0	ND
#6 FUEL OIL C12-C24	2.0	2.0	ND
MISCELLANEOUS C12-C16 (1)	2.0	2.0	ND

SURROGATE RECOVERY: (NAPHTHALENE 48-164%) * 67.9 %

* SURROGATE LEVEL 50.0 mg/L

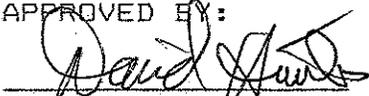
** Outside of QC limits on both original and rerun.

(1) Analysis shows miscellaneous peaks which cannot be identified as any specific hydrocarbon pattern. The response factor for the nearest eluting hydrocarbon standard was used to calculate the concentration of the miscellaneous peaks. Numbers indicate the approximate carbon chain length.

(2) Pattern is similar to, but not identical to standard.

FLAG DEFINITIONS: ND -- NOT DETECTED ABOVE QUANTITATION LIMIT
 J -- ESTIMATED VALUE (BELOW QUANTITATION LIMIT)
 B -- COMPOUND FOUND IN BLANK
 D -- SURROGATE OR MATRIX SPIKE DILUTED OUT-
 SAMPLE RUN AT SECONDARY DILUTION
 E -- ESTIMATED VALUE (ABOVE LINEAR RANGE)
 I -- NOT QUANTIFIABLE DUE TO MATRIX INTERFERENCE

APPROVED BY:



AMERICAN ANALYTICAL AND TECHNICAL SERVICES
GAS CHROMATOGRAPHY LABORATORY

METHOD : MODIFIED 8015
 CLIENT : OKMILDPT
 CLIENT SAMPLE ID: PAWHUSKA SIDE
 AATS SAMPLE ID : 11027.02
 FILENAME : 5062095\017F1101
 SAMPLE MATRIX : SOIL
 AMT. EXTRACTED : 20.0 g
 EXTRACTION SOL. : METHYLENE CHLORIDE
 SOLVENT AMT : 5.0 ml
 DILUTION FACTOR : 1
 DATE SAMP. REC. : 06/14/95
 DATE EXTRACTED : 06/20/95
 DATE ANALYZED : 06/20/95
 REPORT DATE : 06/21/95

QUANTITATION REPORT

TOTAL EXTRACTABLE HYDROCARBONS	QUANTITATION LIMIT (mg/Kg)	AMOUNT FOUND (mg/Kg)	FLAG
GASOLINE C6-C10	2.0	2.0	ND
DIESEL C10-C22	2.0	2.0	ND
KEROSENE C9-C18	2.0	2.0	ND
JP-4 C6-C14	2.0	2.0	ND
NAPHTHA C6-C12	2.0	2.0	ND
#6 FUEL OIL C12-C24	2.0	2.0	ND
MISCELLANEOUS C12-C16 (1)	2.0	2.0	ND

SURROGATE RECOVERY: (NAPHTHALENE 48-164%) * 70.7 %

* SURROGATE LEVEL 50.0 mg/L

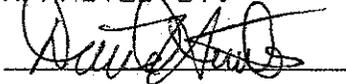
** Outside of QC limits on both original and rerun.

(1) Analysis shows miscellaneous peaks which cannot be identified as any specific hydrocarbon pattern. The response factor for the nearest eluting hydrocarbon standard was used to calculate the concentration of the miscellaneous peaks. Numbers indicate the approximate carbon chain length.

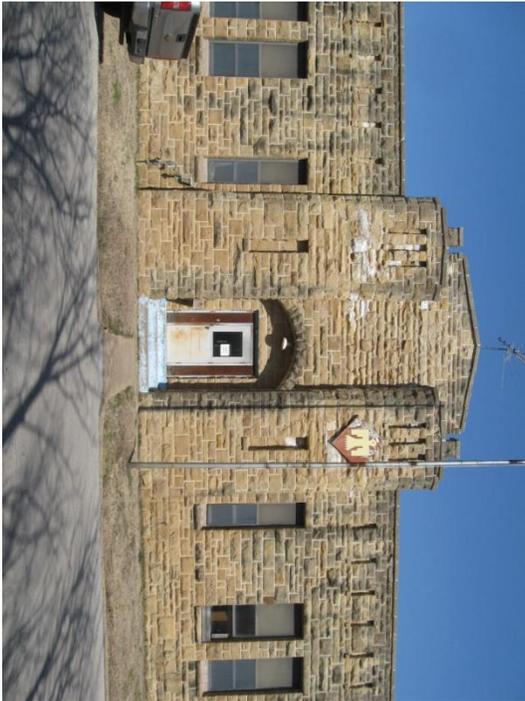
(2) Pattern is similar to, but not identical to standard.

FLAG DEFINITIONS: ND -- NOT DETECTED ABOVE QUANTITATION LIMIT
 J -- ESTIMATED VALUE (BELOW QUANTITATION LIMIT)
 B -- COMPOUND FOUND IN BLANK
 D -- SURROGATE OR MATRIX SPIKE DILUTED OUT-
 SAMPLE RUN AT SECONDARY DILUTION
 E -- ESTIMATED VALUE (ABOVE LINEAR RANGE)
 I -- NOT QUANTIFIABLE DUE TO MATRIX INTERFERENCE

APPROVED BY:



Appendix D Site Photographs

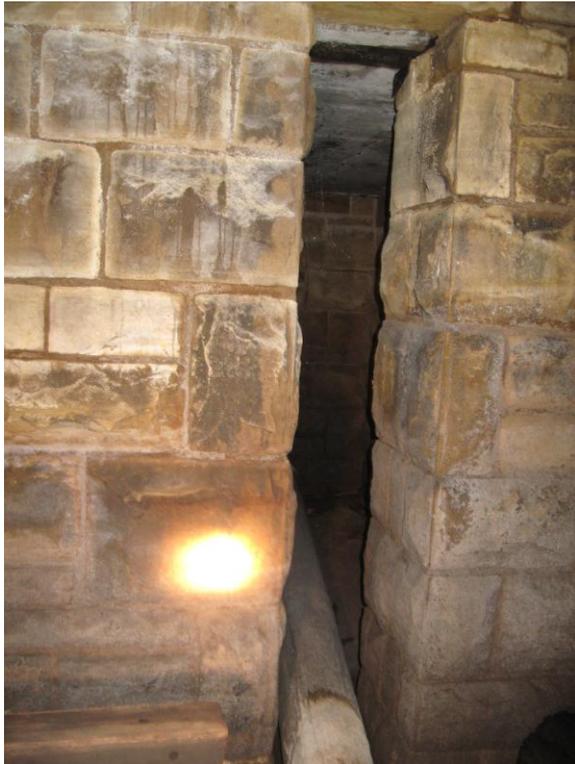


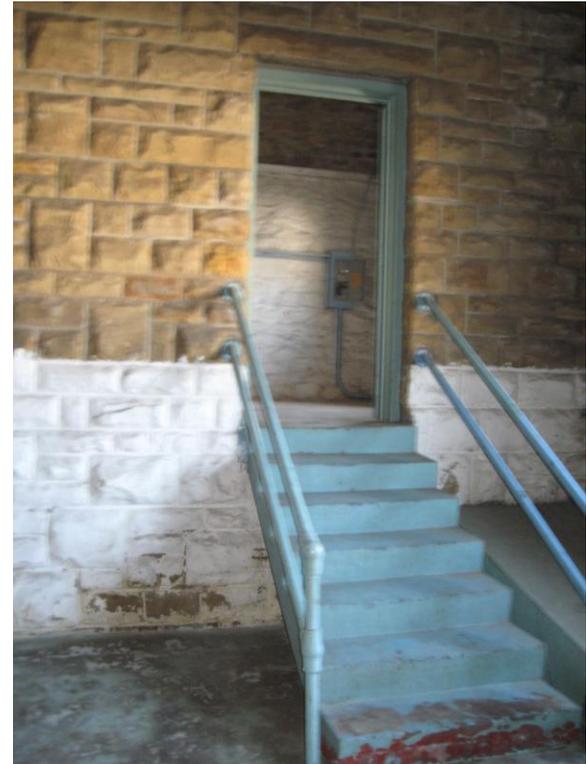






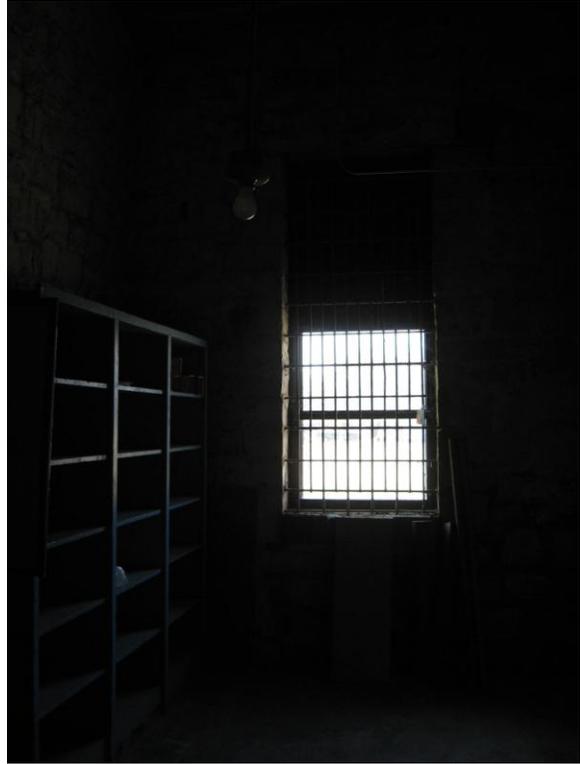






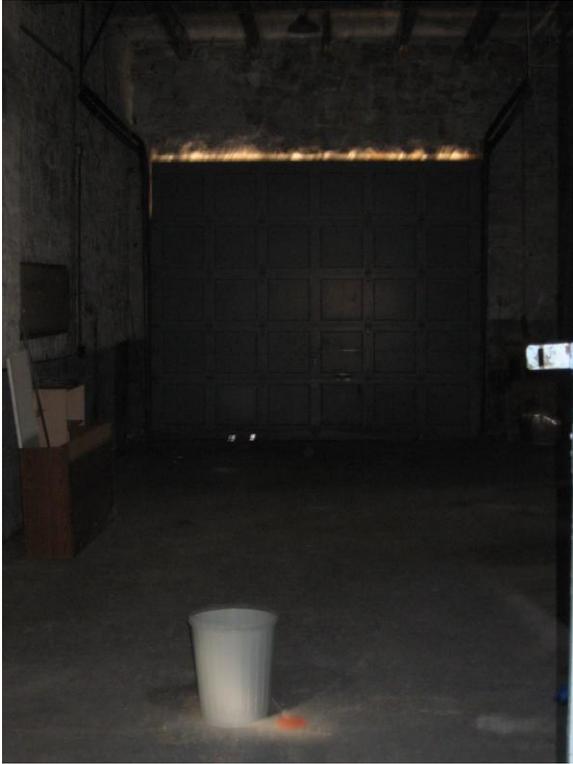












Phase I TBA

Pawhuska Armory
Pawhuska, Oklahoma

Appendix E – Sample Results

RECEIVED
MAR 10 2010
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

Lead-Based Paint Inspection And Settled Dust Sampling

Pawhuska Armory
823 East 8th Street
Pawhuska, Oklahoma 74056

January 25, 2010

DCS Contract NO.: ID009139-4

PROVIDED FOR

Oklahoma Department of Environmental Quality
Land Protection Division
707 North Robinson
Oklahoma City, OK 73102

PROVIDED BY

Marshall Environmental Management, Inc.
1601 Southwest 89th Street, Suite A-100
Oklahoma City, OK 73159

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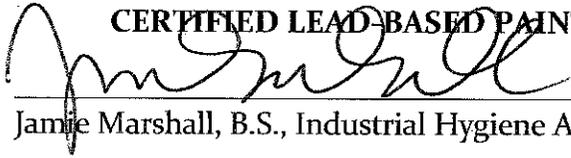
CERTIFICATION

This is to certify, that Marshall Environmental Management, Inc. was contracted by the State of Oklahoma, Department of Central Services to conduct a Lead-Based Paint Inspection and Settled Dust Sampling within the Pawhuska Armory, for the State of Oklahoma Department of Environmental Quality, Land Protection Division. The Pawhuska Armory Lead-Based Paint Inspection and Settled Dust Sampling was performed by an Oklahoma Department of Environmental Quality Certified, Lead-Based Paint Inspector/Risk Assessor, Jamie Marshall of Marshall Environmental Management, Inc., under the direction of Dr. Charles L. Marshall, Certified Industrial Hygienist and President of Marshall Environmental Management, Inc. The analytical results associated with this Lead-Based Paint Inspection and Settled Dust Sampling Event are believed to accurately reflect the locations and concentrations of paint and dust containing lead.

CURRENT OWNER INFORMATION

State of Oklahoma

CERTIFIED LEAD-BASED PAINT INSPECTOR/RISK ASSESSOR



Jamie Marshall, B.S., Industrial Hygiene Associate

Date

Oklahoma Department of Environmental Quality Certification Number: OKRASR13418

CERTIFIED LEAD-BASED PAINT FIRM

Marshall Environmental Management, Inc.

1601 SW 89th Street, Suite A-100

Oklahoma City, OK 73159

(405) 616-0401

Oklahoma Department of Environmental Quality Certification Number: OKFIRM11160

XRF INFORMATION

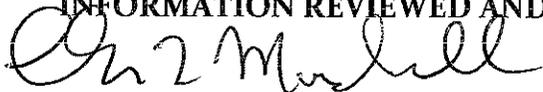
Niton XLp Spectrum Analyzer

Model #XLp 300A

Serial #12585

Source: 40 mCi

INFORMATION REVIEWED AND APPROVED BY



Dr. Charles L. Marshall, C.I.H., C.S.P.

Date

EXECUTIVE SUMMARY

Marshall Environmental Management, Inc. performed a Lead-Based Paint Inspection (LBP), in addition to collecting samples of settled dust on January 25, 2010 within the Pawhuska Armory, located at the intersection of East 8th Street and Ruble Avenue in Pawhuska, Oklahoma. This sampling event was accomplished in order to evaluate the locations and condition of lead-based paint, in addition to identifying the concentrations of lead in lead-laden dust, which may be present, so that a strategy may be prepared for remediation and/or abatement purposes.

The analytical results associated with the samples that were collected as part of this Lead-Based Paint Inspection did identify lead-based paint on various doors, doorjambs, door-guards, stair rails, floor and wall surfaces, and roof drains throughout the Armory. Additionally, the concentrations of lead detected in the majority of the dust wipe samples that were collected from the common areas, areas outside of the Indoor Firing Range (IFR), exceeded the United States Department of Housing and Urban Development (HUD) guidelines and the Environmental Protection Agency (EPA) proposed regulations, of 40-micrograms per square foot ($\mu\text{g}/\text{ft}^2$).

Specific sampling locations and the analytical data related to this Inspection and Surface-Dust Sampling Event are listed in the Findings portion of this Report. The remainder of this Report includes the Sampling Methodology, the Findings, the Disclosure Statement and Owners Legal Obligation as well as information regarding lead-based paint.

SAMPLING METHODOLOGY

All painted surfaces within the Armory are representatively sampled and analyzed for lead content, excluding non-fixed and factory painted items. Various floor surfaces throughout the Armory are also sampled and analyzed for lead-laden dust. The sample collection and analysis are performed in accordance with HUD guidelines, "*HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*"; and EPA proposed regulations, 40 Code of Federal Regulations (CFR) part 745.

LEAD-BASED PAINT

Painted surfaces within the Armory are sampled and analyzed for lead content by utilizing an X-Ray Fluorescence (XRF), direct reading, data logging instrument. Lead concentrations identified as greater than or equal to 1-milligram per square centimeter (mg/cm^2) are characterized as "Lead-Based Paint." per HUD guidelines and EPA proposed regulations. The street facing side of the Armory is identified as Side A and going in a clockwise direction, the remaining sides are categorized as Side B, Side C and Side D respectively. Each door and window within the Armory is given a sequential number that corresponds with a floor plan included in the Appendix of this Report.

LEAD-LADEN DUST

Floor surfaces throughout the Armory are sampled and analyzed for lead-laden dust. According to HUD guidelines and EPA proposed regulations, analytical results with lead concentrations equal to or greater than $40\text{-}\mu\text{g}/\text{ft.}^2$ represent lead contamination; this action level applies to all surfaces within the Armory excluding the IFR. In accordance with the Departments of the Army National Guard (ARNG) and the Air Force National Guard (ANG) Bureau guidelines, "Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges", lead concentrations equal to or greater than $200\text{-}\mu\text{g}/\text{ft.}^2$ represent lead contamination within an IFR. Samples of settled dust are collected by placing a template of a known dimension firmly against a selected surface; next, the area within the template is wiped in a particular pattern utilizing a specified wipe; each sample is then given an identification number; lastly, the wipe is placed in an approved container for transportation purposes.

FINDINGS

The analytical results associated with this Lead-Based Paint Inspection and Settled Dust Sampling did discover lead-based paint and lead-laden dust on various surfaces throughout the Pawhuska Armory. The following tables list and categorize the sampling locations and corresponding analytical results.

TABLE 1: PAINTED DOORS AND DOORJAMBS

DOOR NUMBER	DOOR RESULT	DOORJAMB RESULT	DIMENSIONS
1	NEGATIVE	NEGATIVE (inner) POSITIVE (outer)	N/A
2	NO PAINT	NO PAINT	N/A
3	NO PAINT	NO PAINT	N/A
4	POSITIVE	POSITIVE	3' x 7'
5	NO PAINT	NO PAINT	N/A
6	POSITIVE	POSITIVE	3' x 7'
7	POSITIVE	POSITIVE	3' x 7'
8	POSITIVE	POSITIVE	48' x 84'
9	POSITIVE	POSITIVE	3' x 7'
10	POSITIVE	POSITIVE	3' x 7'
11	POSITIVE	POSITIVE	3' x 7'
12	POSITIVE	POSITIVE	48' x 84'
13	NO DOOR	POSITIVE	3' x 7'
14	POSITIVE	POSITIVE	3' x 7'
15	POSITIVE	POSITIVE	3' x 7'
16	NO DOOR	POSITIVE	3' x 7'
17	POSITIVE	POSITIVE	3' x 7'
18	POSITIVE	POSITIVE	3' x 7'
19	POSITIVE	POSITIVE	3' x 7'
20	NEGATIVE	POSITIVE	3' x 7'
21	NEGATIVE	POSITIVE	3' x 7'
22	NO PAINT	NO PAINT	N/A

DOOR NUMBER	DOOR RESULT	DOORJAMB RESULT	DIMENSIONS
23	NO PAINT	NO PAINT	N/A
24	NO PAINT	NO PAINT	N/A
25	NEGATIVE	POSITIVE	3' x 7'

TABLE 2: PAINTED MISCELLANEOUS SURFACES

LOCATION	SIDE	COMPONENT	SUBSTRATE	COLOR
EXTERIOR	D ₁	DOOR GUARD	METAL	BLUE
EXTERIOR	D ₁	DOOR GUARD 2	METAL	BLUE
EXTERIOR	D ₁	UPPER DOOR GUARD 2	METAL	BLUE
EXTERIOR	D ₂	OVERHEAD DOOR 1	WOOD	WHITE
EXTERIOR	D ₂	OVERHEAD DOOR FRAME 1	METAL	WHITE
EXTERIOR	D ₂	OVERHEAD DOOR FRAME 2	METAL	WHITE
EXTERIOR	B	ROOF DRAIN 1	METAL	WHITE
EXTERIOR	C	ROOF DRAIN 1	METAL	WHITE
EXTERIOR	D ₂	ROOF DRAIN 1	METAL	WHITE
EXTERIOR	B	ROOF DRAIN 2	METAL	WHITE
EXTERIOR	C	ROOF DRAIN 2	METAL	WHITE
EXTERIOR	D ₂	ROOF DRAIN 2	METAL	WHITE
ROOM 10	N/A	FLOOR	CONCRETE	YELLOW
ROOM 10	A	STAIR RAIL	METAL	BLUE
ROOM 10	C	STAIR RAIL	METAL	BLUE
ROOM 15	N/A	FLOOR	CONCRETE	GRAY
ROOM 15	D	OVERHEAD DOOR	WOOD	GRAY
ROOM 17	C	WALL	CONCRETE	WHITE
ROOM 17	D	WALL	CONCRETE	WHITE

TABLE 3: SURFACE WIPES

LAB ID	SAMPLE ID	LOCATION	CONCENTRATION	CLEARANCE LEVEL
1	0005-1	ROOM 1	38.89-µg/ft ²	40-µg/ft ²
2	0005-2	ROOM 2	34.87-µg/ft ²	40-µg/ft ²
3	0005-3	ROOM 3	386.56-µg/ft ²	40-µg/ft ²
4	0005-4	ROOM 4	25.86-µg/ft ²	40-µg/ft ²
5	0005-5	ROOM 5	165.09-µg/ft ²	40-µg/ft ²
6	0005-6	ROOM 6	407.19-µg/ft ²	40-µg/ft ²
7	0005-7	ROOM 7	603.69-µg/ft ²	40-µg/ft ²
8	0005-8	ROOM 8	136.39-µg/ft ²	40-µg/ft ²
9	0005-9	ROOM 9	382.38-µg/ft ²	40-µg/ft ²
10	0005-10	ROOM 10	338.86-µg/ft ²	40-µg/ft ²
11	0005-10 center	DRILL FLOOR CENTER	82.90-µg/ft ²	40-µg/ft ²
12	0005-10 east	DRILL FLOOR EAST	135.67-µg/ft ²	40-µg/ft ²
13	0005-10 west	DRILL FLOOR WEST	196.01-µg/ft ²	40-µg/ft ²
14	0005-11	ROOM 11	32.39-µg/ft ²	40-µg/ft ²
15	0005-12	ROOM 12	26.56-µg/ft ²	40-µg/ft ²
16	0005-13	ROOM 13	2448.83-µg/ft ²	40-µg/ft ²

LAB ID	SAMPLE ID	LOCATION	CONCENTRATION	CLEARANCE LEVEL
17	0005-14	ROOM 14	535.90 µg/ft ²	40 µg/ft ²
18	0005-15	ROOM 15	8206.07 µg/ft ²	40 µg/ft ²
19	0005-16	ROOM 16	910.99 µg/ft ²	40 µg/ft ²
20	0005-17	ROOM 17	417.57 µg/ft ²	40 µg/ft ²
21	0005-18	ROOM 18	82.00 µg/ft ²	40 µg/ft ²
22	0005-19	ROOM 19	179.64 µg/ft ²	40 µg/ft ²
23	0005-20	ROOM 20	<12.33 µg/ft ²	40 µg/ft ²

Specific sampling locations, chain of custody forms, the analytical data and labeled floor plans related to this Lead-Based Paint Inspection and Surface-Dust Sampling Event are included in the Appendix of this Report.

DISCLOSURE STATEMENT AND OWNERS LEGAL OBLIGATION

Federal law requires, to the extent this facility would be covered by HUD guidelines and EPA proposed regulations, that analytical results associated with Lead-Based Paint Inspections/Risk Assessments be disclosed to prospective renters, lessees or tenants entering into or renewing a lease, or to prospective purchasers prior to obligation under a sales contract if lead-based paint is found. If the inspection finds that lead-based paint is not present in certain multifamily dwelling units, which are to be leased, the dwelling unit(s) is exempt from disclosure requirements. However, for dwelling units, which are being sold, not leased the owner still has certain legal responsibilities to fulfill under Federal law **even if no lead-based paint is identified**. Property owners and sellers are also required to distribute an educational pamphlet and include standard warning language in their leases or sales contracts to ensure that information is provided in order to protect children from lead-based paint hazards.

Information regarding the legal obligation to disclose results associated with lead-based paint inspections and/or risk assessments to tenants and/or purchasers can be obtained from the National Lead Information Center Clearinghouse (1-800-424-LEAD). This information is specified in 24 CFR, part 35 and 40 CFR, part 745 (published in the *Federal Register*, Volume 61, Number 45, April 6, 1996, beginning on p. 9064).

LEAD-BASED PAINT INFORMATION

You may contact the National Lead Information Center Clearinghouse (1-800-424-LEAD) to obtain HUD and EPA brochures, question and answer booklets, the regulations mentioned in this report and other information regarding lead-based paint disclosure.

APPENDIX
CHAIN OF CUSTODY FORMS
&
ANALYTICAL DATA

XRF DATA

CERTIFICATES

DIGITAL PHOTOGRAPHS

LABELED FLOOR PLANS

Doors and Doorjamb

Miscellaneous Surfaces

Surface Wipes

Phone: (405) 616-0401
 Fax: (405) 681-6753
 marshenv@swbell.net

Chain of Custody
Marshall Environmental Management, Inc.

179398

1601 SW 89th St, Ste. A-100
 Oklahoma City, OK 73159

PROJECT				INVOICE TO				REPORT TO			
Project Number	Client/Company	Project Name	Client/Company	Project Name	Client/Company	Project Name	Client/Company				
0005-LBP-012510-JJ		Pawhuska Armory									
Project Address	Client/Company Address	Project Address	Client/Company Address	Project Address	Client/Company Address	Project Address	Client/Company Address				
Site Contact	Phone Number	Sample Area	Location of Sample (w/in area)	Sample Matrix	Sample Media	Sample Type	Calibrated Flow Rate				
			(north wall, ceiling, under carpet, etc.)	(Air, Aerosols, etc.)	(see legend)	(Air, Aerosols, etc.)					
			(room 1, se bedroom, lobby 1st fl, etc.)	(sheetrock, caulk, floor tile, etc.)							
1	1-25-2010	0005-1 Rm1		Dust	Wipe		NA				
2		0005-2 Rm2									
3		0005-3 Rm3									
4		0005-4 Rm4									
5		0005-5 Rm5									
6		0005-6 Rm6									
7		0005-7 Rm7									
8		0005-8 Rm8									
9		0005-9 Rm9									
10		0005-10 Rm10									
Samples Collected By		Date		Samples Relinquished By		Date		Method of Shipment			
Jacob Jones		1-25-2010		Jacob Jones		2/28/2010		12:00			
S. P. H. B. I. C. E.		17:30		Jacob Jones		12:00					
Samples Received By		Date		Samples Relinquished By		Date		Sample Notes			
S. P. H. B. I. C. E.		2/2/10		S. P. H. B. I. C. E.		1:05					
Samples Received By		Date		Samples Relinquished By		Date		Turn-Around Time			
S. P. H. B. I. C. E.				S. P. H. B. I. C. E.				5-7 Business Days			

Turn-Around-Time	Standard	5-7 Business Days
	Next Day	
	Immediate	Same Day

Phase Contrast Microscopy	PCM
Polarized Light Microscopy	PLM

Sample Media	MV
Micro-Vacuum	MP
Mold Plate	ST
Spore Trap	SW
Swab	TL

5 days TAT per Jacob. 2/28/2010

Chain of Custody
Marshall Environmental Management, Inc.

179 398

PROJECT				INVOICE TO				REPORT TO			
Project Number	Client/Company	Project Name	Client/Company	Project Address	Client/Company	Project Address	Client/Company	Project Address	Client/Company	Project Address	Client/Company
0005-2010	LBP-012510-JJ	Pawhuska Armory									
Sample Collection Date	Sample Id (field id)	Sample Area (room #, see bedroom, lobby, 1st fl., etc.)	Location of Sample (w/in area) (north wall, ceiling, under carpet, etc.)	Sample Composition/Material (sheetrock, caulk, floor tile, etc.)	Sample Matrix (Air, debris, etc.)	Sample Volume (see label)	Sample Time (collecting or shipping)	Calibrated Flow Rate	Total Volume/Area	Analyst/Parameters	
1-25-2010	0005-10 center	IFR Drill Floor	IFR	Floor - SFS	Dust	Wipe	NA	NA	144 in ²	Total Pb	
	0005-10 East										
	0005-10 West										
	0005-11 - Rm 11										
	0005-12 - Rm 12										
	0005-13 - Rm 13										
	0005-14 - Rm 14										
	0005-15 - Rm 15										
	0005-16 - Rm 16										
	0005-17 - Rm 17										
Sample Collected By	(print)	Date	1-25-2010	Requisitioned By	Jacob Jones	Date	2/2/2010	Method of Shipment			
Sample Received By	(signature)	Time	17:30	Sample Requisitioned By	Jacob Jones	Date	17:00	Sample Notes			
Sample Received By	(signature)	Date	2/2/10	Sample Requisitioned By	Jacob Jones	Date		Condition Upon Receipt			
	(signature)	Time	1:05	Sample Requisitioned By		Date		Temp-Around			
	(print)	Date				Date					
	(signature)	Time				Time					

Turn-Around-Time	Standard	5-7 Business Days
	Rush	Next Day
	Immediate	Same Day

Phase Contrast Microscopy	PCM
Polarized Light Microscopy	PLM

Sample Media	MV
Micro-Vacuum	MP
Mold Plate	ST
Sore Trap	SW
Tape-Lift	TL



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuantEM Set ID: 179398
Date Received: 02/02/10
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: EC
Date of Report: 2/5/2010

Client: Marshall Environmental Management, Inc.
 1601 SW 89th Street, Ste. A-100
 Oklahoma City, OK 73159
Acct. No.: A331
Project: Pawhuska Armory
Location: N/A
Project No.: 0005-LBP-012510-JJ

AIHA ID: 101352

QuantEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	0005-1	Wipe	Lead	38.89	21.33	ug/sq. Ft.	02/03/10 10:45	EPA 3051 / NIOSH 9100
002	0005-2	Wipe	Lead	34.87	21.33	ug/sq. Ft.	02/03/10 10:45	EPA 3051 / NIOSH 9100
003	0005-3	Wipe	Lead	386.56	21.33	ug/sq. Ft.	02/03/10 10:45	EPA 3051 / NIOSH 9100
004	0005-4	Wipe	Lead	25.86	21.33	ug/sq. Ft.	02/03/10 10:45	EPA 3051 / NIOSH 9100
005	0005-5	Wipe	Lead	165.09	21.33	ug/sq. Ft.	02/03/10 10:45	EPA 3051 / NIOSH 9100
006	0005-6	Wipe	Lead	407.19	21.33	ug/sq. Ft.	02/03/10 10:45	EPA 3051 / NIOSH 9100
007	0005-7	Wipe	Lead	603.69	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
008	0005-8	Wipe	Lead	136.39	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
009	0005-9	Wipe	Lead	382.38	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
010	0005-10	Wipe	Lead	338.86	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
011	0005-10 Center	Wipe	Lead	82.90	16.00	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of client and are not to be reproduced without specific written permission.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuantEM Set ID: 179398
Date Received: 02/02/10
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: EC
Date of Report: 2/5/2010

Client: Marshall Environmental Management, Inc.
1601 SW 89th Street, Ste. A-100
Oklahoma City, OK 73159
Acct. No.: A331
Project: Pawhuska Armory
Location: N/A
Project No.: 0005-LBP-012510-JJ

AIHA ID: 101352

QuantEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
012	0005-10 East	Wipe	Lead	135.67	16.00	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
013	0005-10 West	Wipe	Lead	196.01	16.00	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
014	0005-11	Wipe	Lead	32.39	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
015	0005-12	Wipe	Lead	26.56	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
016	0005-13	Wipe	Lead	2448.83	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
017	0005-14	Wipe	Lead	535.90	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
018	0005-15	Wipe	Lead	8206.07	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
019	0005-16	Wipe	Lead	910.99	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
020	0005-17	Wipe	Lead	417.57	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
021	0005-18	Wipe	Lead	82.00	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
022	0005-19	Wipe	Lead	179.64	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100

Note: Sample results have not been corrected for blank values.

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QuantEM Set ID: 179398
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Time Sampled:
Analyst: EC
Date of Report: 2/5/2010

Client: Marshall Environmental Management, Inc.
1601 SW 89th Street, Ste. A-100
Oklahoma City, OK 73159
Acct. No.: A331
Project: Pawhuska Armory
Location: N/A
Project No.: 0005-LBP-012510-JJ

AIHA ID: 101352

QuantEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
023	0005-20	Wipe	Lead	<21.33	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100

Authorized Signature: _____

Eric Caves, Analyst

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of client and are not to be reproduced without specific written permission.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

Supplemental Report QAQC Results

QA ID: 7315
Test: Lead

Date: 2/3/2010
Matrix: Wipe

Lab Number: 179398
Approved By: Eric Caves
Date Approved: 2/3/2010

Notes:

Blank Data:

Type of Blank	Blank Value
Initial	0
Continuing	0
Final	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	225	264	275
FCV	225	258	275
ICV	22.5	23.6	27.5
RLVS	12.8	15	19.2

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MSW 1	0.000	5369.000	5596.000	104.2	5844.000	108.8	4.3

Supplemental Report QAQC Results

QA ID: 7321
Test: Lead

Date: 2/5/2010
Matrix: Wipe

Lab Number: 179398
Approved By: Eric Caves
Date Approved: 2/5/2010

Notes:

Blank Data:

Type of Blank	Blank Value
Initial	0
Continuing	0
Final	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	225	255	275
FCV	225	253	275
ICV	22.5	24.8	27.5
RLVS	12.8	16	19.2

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MSW 3	0.000	5369.000	5604.000	104.4	5839.000	108.8	4.1
MSW 2	0.000	5369.000	5860.000	109.1	5890.000	109.7	0.5
MSW 1	0.000	5369.000	5695.000	106.1	5570.000	103.7	2.2

Authorized Signature: _____



Eric Caves, Analyst

Index	Reading No	Time	Units	Component	Substrate	Site	Color	Results	PbC	PbI	PbK
2	344	2010-01-25 12:09	mg / cm ^2			CALIBRATE		Positive	1.10 ± 0.10	1.10 ± 0.10	1.10 ± 0.60
4	346	2010-01-25 12:10	mg / cm ^2			CALIBRATE		Positive	1.10 ± 0.10	1.30 ± 0.10	1.30 ± 0.60
5	347	2010-01-25 12:11	mg / cm ^2			CALIBRATE		Positive	1.10 ± 0.10	1.10 ± 0.10	1.50 ± 0.60
10	352	2010-01-25 12:20	mg / cm ^2	window ledges 1	CONCRETE	A 1	BROWN	Negative	< LOD: 0.12	< LOD: 0.12	< LOD: 1.95
11	353	2010-01-25 12:22	mg / cm ^2	stair	CONCRETE	A 1	BLUE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.05
14	356	2010-01-25 12:24	mg / cm ^2	gas pipe	CONCRETE	A 1	grey	Negative	< LOD: 0.13	< LOD: 0.13	< LOD: 3.67
15	357	2010-01-25 12:26	mg / cm ^2	flag pole	METAL	A 1	SILVER	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 3.87
16	358	2010-01-25 12:27	mg / cm ^2	DOOR JAMB (outer)	METAL	1	BLUE	Positive	6.00 ± 3.70	< LOD: 1.20	6.00 ± 3.70
17	359	2010-01-25 12:28	mg / cm ^2	DOOR	METAL	A	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 3.10
18	360	2010-01-25 12:30	mg / cm ^2	ROOF DRAIN 1	METAL	B	WHITE	Positive	< LOD: 12.90	< LOD: 5.85	< LOD: 12.90
19	361	2010-01-25 12:31	mg / cm ^2	ROOF DRAIN 2	METAL	B	WHITE	Positive	< LOD: 11.10	< LOD: 2.55	< LOD: 11.10
20	362	2010-01-25 12:35	mg / cm ^2	ROOF DRAIN 1	METAL	c	WHITE	Positive	< LOD: 10.35	< LOD: 11.55	< LOD: 10.35
21	363	2010-01-25 12:35	mg / cm ^2	ROOF DRAIN 2	METAL	c	WHITE	Positive	< LOD: 13.35	< LOD: 13.50	< LOD: 13.35
22	364	2010-01-25 12:37	mg / cm ^2	DOOR	METAL	e	grey	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 3.20
24	366	2010-01-25 12:39	mg / cm ^2	DOOR guard	METAL	d 1	BLUE	Negative	0.70 ± 0.20	0.70 ± 0.20	1.70 ± 1.00
25	367	2010-01-25 12:39	mg / cm ^2	DOOR guard	METAL	d 1	BLUE	Positive	< LOD: 4.65	1.00 ± 0.60	< LOD: 4.65
26	368	2010-01-25 12:41	mg / cm ^2	upper door guard	METAL	d 1	BLUE	Negative	< LOD: 0.45	< LOD: 0.45	< LOD: 3.90
27	369	2010-01-25 12:41	mg / cm ^2	upper door guard	METAL	d 1	BLUE	Negative	< LOD: 0.73	< LOD: 0.73	< LOD: 3.60
28	370	2010-01-25 12:42	mg / cm ^2	upper door guard 2	METAL	d 1	BLUE	Positive	5.80 ± 3.80	< LOD: 2.40	5.80 ± 3.80
29	371	2010-01-25 12:44	mg / cm ^2	door guard 2	METAL	d 1	BLUE	Positive	< LOD: 8.70	< LOD: 4.05	< LOD: 8.70
30	372	2010-01-25 12:45	mg / cm ^2	overhead door jamb	METAL	d 1	WHITE	Negative	0.70 ± 0.30	0.70 ± 0.30	< LOD: 1.35
31	373	2010-01-25 12:45	mg / cm ^2	overhead door	METAL	d 1	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 2.46
32	374	2010-01-25 12:46	mg / cm ^2	overhead door 1	WOOD	d 2	WHITE	Positive	< LOD: 6.75	< LOD: 3.60	< LOD: 6.75
33	375	2010-01-25 12:48	mg / cm ^2	overhead door 2	WOOD	d 2	WHITE	Negative	0.30 ± 0.20	0.30 ± 0.20	< LOD: 1.20
34	376	2010-01-25 12:48	mg / cm ^2	overhead door 2	WOOD	d 2	WHITE	Negative	< LOD: 0.80	< LOD: 0.90	< LOD: 0.80
35	377	2010-01-25 12:49	mg / cm ^2	overhead door 2	WOOD	d 2	WHITE	Negative	< LOD: 0.58	< LOD: 0.58	< LOD: 1.96
36	378	2010-01-25 12:52	mg / cm ^2	overhead door frame 1	METAL	d 2	WHITE	Positive	< LOD: 5.40	< LOD: 2.85	< LOD: 5.40
38	380	2010-01-25 12:53	mg / cm ^2	overhead door frame 2	METAL	d 2	WHITE	Positive	< LOD: 3.90	< LOD: 1.65	< LOD: 3.90
39	381	2010-01-25 12:54	mg / cm ^2	roof drain 1	METAL	d 2	WHITE	Positive	< LOD: 11.85	< LOD: 1.80	< LOD: 11.85
40	382	2010-01-25 12:55	mg / cm ^2	roof drain 2	METAL	d 2	WHITE	Positive	< LOD: 9.30	< LOD: 4.05	< LOD: 9.30
41	383	2010-01-25 13:02	mg / cm ^2	WALL	CONCRETE	mm 5 a	WHITE	Negative	< LOD: 0.21	< LOD: 0.21	< LOD: 1.95
44	386	2010-01-25 13:06	mg / cm ^2	WALL	CONCRETE	mm 5 a	silver	Negative	< LOD: 0.05	< LOD: 0.05	< LOD: 2.42
45	387	2010-01-25 13:08	mg / cm ^2	WALL	CONCRETE	mm 5 b	WHITE	Negative	< LOD: 1.03	< LOD: 0.06	< LOD: 1.03
46	388	2010-01-25 13:09	mg / cm ^2	WALL	CONCRETE	mm 5 c 1	WHITE	Negative	< LOD: 0.08	< LOD: 0.08	< LOD: 1.92
47	389	2010-01-25 13:10	mg / cm ^2	WALL	CONCRETE	mm 5 c 2	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 2.01
48	390	2010-01-25 13:11	mg / cm ^2	FLOOR	CONCRETE	mm 5 c 2	grey	Negative	0.30 ± 0.14	0.30 ± 0.14	< LOD: 1.35
49	391	2010-01-25 13:13	mg / cm ^2	WALL	CONCRETE	mm 5 c 2	grey	Negative	< LOD: 0.09	< LOD: 0.09	< LOD: 0.90
50	392	2010-01-25 13:15	mg / cm ^2	WALL	CONCRETE	mm 5 d	WHITE	Negative	< LOD: 0.05	< LOD: 0.05	< LOD: 0.90
51	393	2010-01-25 13:16	mg / cm ^2	WALL	CONCRETE	mm 6 a	WHITE	Negative	< LOD: 0.05	< LOD: 0.05	< LOD: 2.12
52	394	2010-01-25 13:16	mg / cm ^2	WALL	CONCRETE	mm 6 b	WHITE	Negative	< LOD: 0.10	< LOD: 0.10	< LOD: 2.04

Index	Reading No	Time	Units	Component	Substrate	Side	Color	Results	PbC	PbI	PbB
56	398	2010-01-25 13:18	mg / cm ^2	WALL	CONCRETE	mm 6 b	black	Negative	< LOD : 0.12	< LOD : 0.12	< LOD : 1.20
57	399	2010-01-25 13:19	mg / cm ^2	WALL	CONCRETE	mm 6 b	GREY	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 2.51
58	400	2010-01-25 13:20	mg / cm ^2	WALL	CONCRETE	mm 6 C	WHITE	Negative	< LOD : 0.06	< LOD : 0.06	< LOD : 2.34
59	401	2010-01-25 13:21	mg / cm ^2	FLOOR	CONCRETE	mm 6	GREY	Negative	0.29 ± 0.10	0.29 ± 0.10	< LOD : 1.20
61	403	2010-01-25 13:24	mg / cm ^2	WALL	CONCRETE	mm 7 a	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	1.00 ± 0.30
64	406	2010-01-25 13:25	mg / cm ^2	WALL	CONCRETE	mm 7 b	WHITE	Negative	< LOD : 0.09	< LOD : 0.09	< LOD : 2.29
65	407	2010-01-25 13:26	mg / cm ^2	WALL	CONCRETE	mm 7 c	WHITE	Negative	< LOD : 0.08	< LOD : 0.08	< LOD : 1.80
66	408	2010-01-25 13:27	mg / cm ^2	WALL	CONCRETE	mm 7 d	WHITE	Negative	< LOD : 0.11	< LOD : 0.11	< LOD : 2.05
67	409	2010-01-25 13:28	mg / cm ^2	FLOOR	CONCRETE	mm 7	grey	Negative	0.80 ± 0.20	0.80 ± 0.20	< LOD : 1.05
68	410	2010-01-25 13:30	mg / cm ^2	WALL	CONCRETE	mm 8 b	WHITE	Negative	< LOD : 0.39	< LOD : 0.39	< LOD : 2.39
69	411	2010-01-25 13:31	mg / cm ^2	WALL	CONCRETE	mm 8 A	WHITE	Negative	< LOD : 0.12	< LOD : 0.12	< LOD : 2.10
70	412	2010-01-25 13:32	mg / cm ^2	WALL	CONCRETE	mm 8 C	WHITE	Negative	< LOD : 0.13	< LOD : 0.13	< LOD : 2.05
71	413	2010-01-25 13:33	mg / cm ^2	FLOOR	CONCRETE	mm 8	GREY	Negative	< LOD : 0.04	< LOD : 0.04	< LOD : 2.06
72	414	2010-01-25 13:36	mg / cm ^2	WALL	CONCRETE	mm 9 a	WHITE	Negative	< LOD : 0.09	< LOD : 0.09	< LOD : 2.85
73	415	2010-01-25 13:37	mg / cm ^2	WALL	CONCRETE	mm 9 b	WHITE	Negative	< LOD : 0.06	< LOD : 0.06	< LOD : 1.50
74	416	2010-01-25 13:38	mg / cm ^2	WALL	CONCRETE	mm 9 c	WHITE	Negative	< LOD : 1.16	< LOD : 0.24	< LOD : 1.16
76	418	2010-01-25 13:38	mg / cm ^2	WALL	CONCRETE	mm 9 d	WHITE	Negative	< LOD : 0.07	< LOD : 0.07	< LOD : 2.13
77	419	2010-01-25 13:39	mg / cm ^2	FLOOR	CONCRETE	mm 9	BLUE	Negative	< LOD : 0.32	< LOD : 0.32	< LOD : 3.13
78	420	2010-01-25 13:41	mg / cm ^2	stair rail	METAL	mm 10 c	BLUE	Positive	< LOD : 3.60	< LOD : 3.60	< LOD : 10.80
80	422	2010-01-25 13:42	mg / cm ^2	stair	CONCRETE	mm 10 c	RED	Negative	< LOD : 0.07	< LOD : 0.07	< LOD : 3.19
82	424	2010-01-25 13:43	mg / cm ^2	stair dup	CONCRETE	mm 10 c	BLUE	Negative	0.25 ± 0.17	0.25 ± 0.17	< LOD : 2.24
83	425	2010-01-25 13:44	mg / cm ^2	stair RAIL	METAL	mm 10 A	BLUE	Positive	< LOD : 3.75	< LOD : 3.75	< LOD : 9.00
84	426	2010-01-25 13:46	mg / cm ^2	stair	CONCRETE	mm 10 A	BLUE	Negative	< LOD : 0.20	< LOD : 0.20	< LOD : 2.40
86	428	2010-01-25 13:47	mg / cm ^2	stair	CONCRETE	mm 10 A	RED	Negative	< LOD : 0.08	< LOD : 0.08	< LOD : 1.98
87	429	2010-01-25 13:50	mg / cm ^2	WALL	CONCRETE	mm 10 A	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	0.90 ± 0.20
88	430	2010-01-25 13:51	mg / cm ^2	WALL	CONCRETE	mm 10 B	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.05
89	431	2010-01-25 13:51	mg / cm ^2	LEDGE	METAL	mm 10 B	BLUE	Negative	< LOD : 0.23	< LOD : 0.23	< LOD : 2.64
90	432	2010-01-25 13:53	mg / cm ^2	WALL	CONCRETE	mm 10 C	WHITE	Negative	< LOD : 0.11	< LOD : 0.11	< LOD : 1.80
91	433	2010-01-25 13:55	mg / cm ^2	WALL	CONCRETE	mm 10 D	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	0.90 ± 0.40
93	435	2010-01-25 13:58	mg / cm ^2	BASKET BALL GOAL	WOOD	mm 10	WHITE	Negative	< LOD : 0.08	< LOD : 0.08	< LOD : 1.75
94	436	2010-01-25 14:01	mg / cm ^2	BASKET BALL GOAL	WOOD	mm 13 a	grey	Negative	< LOD : 0.47	< LOD : 0.47	< LOD : 1.65
95	437	2010-01-25 14:01	mg / cm ^2	BASKET BALL GOAL	WOOD	mm 13 a	BLUE	Negative	< LOD : 0.05	< LOD : 0.05	< LOD : 1.65
104	446	2010-01-25 14:14	mg / cm ^2	WALL	CONCRETE	mm 13 b	BLUE	Negative	< LOD : 0.07	< LOD : 0.07	< LOD : 1.95
106	448	2010-01-25 14:16	mg / cm ^2	WALL	CONCRETE	mm 13 c	WHITE	Negative	< LOD : 0.04	< LOD : 0.04	< LOD : 1.20
107	449	2010-01-25 14:20	mg / cm ^2	WALL	CONCRETE	mm 13 d	WHITE	Negative	0.03 ± 0.02	0.03 ± 0.02	1.60 ± 0.20
108	450	2010-01-25 14:21	mg / cm ^2	FLOOR	CONCRETE	mm 13	grey	Negative	< LOD : 0.14	< LOD : 0.14	< LOD : 2.70
109	451	2010-01-25 15:00	mg / cm ^2	FLOOR	CONCRETE	mm 14 a	WHITE	Negative	0.14 ± 0.09	0.14 ± 0.09	< LOD : 1.20
110	452	2010-01-25 15:01	mg / cm ^2	FLOOR	CONCRETE	mm 14 a	WHITE	Negative	< LOD : 0.17	< LOD : 0.17	< LOD : 1.95
111	453	2010-01-25 15:03	mg / cm ^2	WALL	CONCRETE	mm 14 B	WHITE	Negative	< LOD : 0.09	< LOD : 0.09	< LOD : 0.90
113	455	2010-01-25 15:04	mg / cm ^2	WALL	CONCRETE	mm 14 c	WHITE	Negative	< LOD : 0.07	< LOD : 0.07	< LOD : 1.80

Index	Reading No	Time	Units	Component	Substrate	Side	Color	Results	PbC	PbL	PbK
114	456	2010-01-25 15:05	mg/cm ²	WALL	CONCRETE	rm 14 d	WHITE	Negative	< LOD: 0.14	< LOD: 0.14	< LOD: 1.80
115	457	2010-01-25 15:06	mg/cm ²	Window ledge	CONCRETE	rm 14 d	BLUE	Negative	< LOD: 0.15	< LOD: 0.15	< LOD: 1.95
116	458	2010-01-25 15:08	mg/cm ²	FLOOR	CONCRETE	rm 14	grey	Negative	0.22 ± 0.13	0.22 ± 0.13	< LOD: 2.04
117	459	2010-01-25 15:11	mg/cm ²	WALL	CONCRETE	rm 15 a	WHITE	Negative	< LOD: 0.07	< LOD: 0.07	< LOD: 1.65
118	460	2010-01-25 15:12	mg/cm ²	WALL	CONCRETE	rm 15 b	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	1.00 ± 0.50
119	461	2010-01-25 15:13	mg/cm ²	WALL	CONCRETE	rm 15 C	WHITE	Negative	< LOD: 0.13	< LOD: 0.13	< LOD: 1.35
120	462	2010-01-25 15:14	mg/cm ²	OVERHEAD DOOR	WOOD	rm 15 D	GREY	Positive	< LOD: 7.20	< LOD: 7.20	< LOD: 11.25
121	463	2010-01-25 15:15	mg/cm ²	OVERHEAD DOOR ROLL TRACK	METAL	rm 15 D	GREY	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 3.90
122	464	2010-01-25 15:16	mg/cm ²	FLOOR	CONCRETE	rm 15	GREY	Positive	< LOD: 3.90	< LOD: 3.90	< LOD: 1.80
123	465	2010-01-25 15:25	mg/cm ²	WALL	CONCRETE	rm 16a	GREY	Negative	< LOD: 0.20	< LOD: 0.20	1.00 ± 0.50
124	466	2010-01-25 15:26	mg/cm ²	WALL	CONCRETE	rm 16 b	GREY	Negative	0.08 ± 0.04	0.08 ± 0.04	< LOD: 3.62
125	467	2010-01-25 15:27	mg/cm ²	pipe	METAL	rm 16 b	GREY	Negative	< LOD: 0.19	< LOD: 0.19	< LOD: 1.65
127	469	2010-01-25 15:28	mg/cm ²	pipe	METAL	rm 16 c	GREY	Negative	< LOD: 0.11	< LOD: 0.11	< LOD: 1.35
128	470	2010-01-25 15:32	mg/cm ²	window ledge	CONCRETE	rm 16 a	black	Negative	0.40 ± 0.10	0.40 ± 0.10	< LOD: 2.09
129	471	2010-01-25 15:33	mg/cm ²	window ledge	CONCRETE	rm 17 a	BLUE	Negative	< LOD: 0.16	< LOD: 0.16	< LOD: 1.11
133	475	2010-01-25 15:37	mg/cm ²	wall	CONCRETE	rm 17 a	WHITE	Negative	< LOD: 1.11	< LOD: 1.11	< LOD: 2.30
134	476	2010-01-25 15:40	mg/cm ²	wall	CONCRETE	rm 17 b	WHITE	Negative	< LOD: 0.21	< LOD: 0.21	< LOD: 21.45
135	477	2010-01-25 15:40	mg/cm ²	wall	CONCRETE	rm 17 c	WHITE	Positive	< LOD: 7.35	< LOD: 7.35	< LOD: 12.00
136	478	2010-01-25 15:41	mg/cm ²	wall	CONCRETE	rm 17 d	WHITE	Positive	3.70 ± 2.40	3.70 ± 2.40	< LOD: 1.86
137	479	2010-01-25 15:45	mg/cm ²	window frame	CONCRETE	rm 18 a	BLUE	Negative	< LOD: 0.14	< LOD: 0.14	< LOD: 2.45
138	480	2010-01-25 15:46	mg/cm ²	window frame	CONCRETE	rm 18 a	BLUE	Negative	< LOD: 0.18	< LOD: 0.18	< LOD: 2.04
139	481	2010-01-25 15:48	mg/cm ²	stair	WOOD	rm 10 b	BLUE	Negative	< LOD: 0.42	< LOD: 0.42	< LOD: 2.18
140	482	2010-01-25 15:49	mg/cm ²	FLOOR	CONCRETE	rm 10 b	BLUE	Negative	< LOD: 0.17	< LOD: 0.17	< LOD: 4.65
141	483	2010-01-25 15:50	mg/cm ²	FLOOR	CONCRETE	rm 10 b	YELLOW	Positive	1.60 ± 0.50	1.60 ± 0.50	< LOD: 3.32
142	484	2010-01-25 15:57	mg/cm ²	DOOR	METAL	1	grey	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 3.30
143	485	2010-01-25 15:57	mg/cm ²	DOOR jamb	METAL	1	grey	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 9.90
144	486	2010-01-25 16:00	mg/cm ²	DOOR jamb	METAL	4	BLUE	Positive	< LOD: 7.65	< LOD: 7.65	< LOD: 3.60
145	487	2010-01-25 16:01	mg/cm ²	DOOR	WOOD	4	BLUE	Positive	2.70 ± 1.30	2.70 ± 1.30	< LOD: 9.60
146	488	2010-01-25 16:03	mg/cm ²	DOOR	METAL	6	BLUE	Positive	< LOD: 5.70	< LOD: 5.70	< LOD: 9.90
147	489	2010-01-25 16:04	mg/cm ²	DOOR jamb	METAL	6	BLUE	Positive	< LOD: 4.50	< LOD: 4.50	< LOD: 15.15
148	490	2010-01-25 16:06	mg/cm ²	DOOR jamb	METAL	7	BLUE	Positive	< LOD: 9.15	< LOD: 9.15	< LOD: 19.50
149	491	2010-01-25 16:06	mg/cm ²	DOOR	METAL	7	BLUE	Positive	< LOD: 7.20	< LOD: 7.20	< LOD: 7.80
150	492	2010-01-25 16:08	mg/cm ²	DOOR	METAL	8	BLUE	Positive	< LOD: 3.60	< LOD: 3.60	< LOD: 10.35
151	493	2010-01-25 16:09	mg/cm ²	door jamb	METAL	8	BLUE	Positive	< LOD: 6.15	< LOD: 6.15	< LOD: 16.20
152	494	2010-01-25 16:11	mg/cm ²	door jamb	WOOD	9	BLUE	Positive	< LOD: 6.00	< LOD: 6.00	< LOD: 1.65
153	495	2010-01-25 16:13	mg/cm ²	door	WOOD	9	BLUE	Negative	0.70 ± 0.30	0.70 ± 0.30	< LOD: 8.70
154	496	2010-01-25 16:13	mg/cm ²	door	WOOD	9	BLUE	Positive	< LOD: 5.85	< LOD: 5.85	< LOD: 12.00
155	497	2010-01-25 16:17	mg/cm ²	door	WOOD	10	grey	Positive	< LOD: 6.75	< LOD: 6.75	< LOD: 14.85
156	498	2010-01-25 16:18	mg/cm ²	door jamb	WOOD	10	grey	Positive	< LOD: 5.25	< LOD: 5.25	< LOD: 9.60
157	499	2010-01-25 16:21	mg/cm ²	door jamb	METAL	11	grey	Positive	2.70 ± 1.60	2.70 ± 1.60	

Index	Reading No	Time	Units	Component	Substrate	Side	Color	Results	PbC	PbI	PbK
158	500	2010-01-25 16:22	mg / cm ^2	door	WOOD	11	grey	Positive	< LOD : 5.70	< LOD : 5.70	< LOD : 13.80
159	501	2010-01-25 16:23	mg / cm ^2	door	WOOD	12	BLUE	Positive	2.90 ± 1.90	2.90 ± 1.90	< LOD : 5.55
160	502	2010-01-25 16:24	mg / cm ^2	door JAMB	METAL	12	BLUE	Positive	< LOD : 4.80	< LOD : 4.80	< LOD : 9.45
161	503	2010-01-25 16:28	mg / cm ^2	door JAMB	METAL	13	grey	Positive	< LOD : 4.50	< LOD : 4.50	< LOD : 12.75
162	504	2010-01-25 16:29	mg / cm ^2	door	WOOD	14	BLUE	Positive	3.10 ± 2.00	3.10 ± 2.00	< LOD : 7.35
163	505	2010-01-25 16:30	mg / cm ^2	door jamb	METAL	14	BLUE	Positive	3.50 ± 2.30	3.50 ± 2.30	< LOD : 12.00
164	506	2010-01-25 16:30	mg / cm ^2	door jamb	METAL	15	BLUE	Positive	< LOD : 5.25	< LOD : 5.25	< LOD : 9.15
165	507	2010-01-25 16:31	mg / cm ^2	door	WOOD	15	BLUE	Positive	2.80 ± 1.70	2.80 ± 1.70	< LOD : 6.30
166	508	2010-01-25 16:33	mg / cm ^2	door jamb	METAL	16	BLUE	Positive	3.00 ± 1.90	3.00 ± 1.90	< LOD : 10.05
167	509	2010-01-25 16:33	mg / cm ^2	door jamb	METAL	17	BLUE	Positive	2.50 ± 1.40	2.50 ± 1.40	< LOD : 6.00
168	510	2010-01-25 16:34	mg / cm ^2	door	WOOD	17	BLUE	Positive	< LOD : 6.60	< LOD : 6.60	< LOD : 6.99
169	511	2010-01-25 16:34	mg / cm ^2	door	WOOD	18	BLUE	Positive	3.10 ± 2.00	3.10 ± 2.00	< LOD : 8.25
170	512	2010-01-25 16:35	mg / cm ^2	door jamb	METAL	18	BLUE	Positive	< LOD : 3.45	< LOD : 3.45	< LOD : 11.55
171	513	2010-01-25 16:36	mg / cm ^2	door jamb	METAL	19	BLUE	Positive	< LOD : 5.85	< LOD : 5.85	< LOD : 16.65
172	514	2010-01-25 16:36	mg / cm ^2	door	WOOD	19	BLUE	Positive	2.90 ± 1.90	2.90 ± 1.90	< LOD : 8.70
173	515	2010-01-25 16:37	mg / cm ^2	door	METAL	20	grey	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 3.19
174	516	2010-01-25 16:38	mg / cm ^2	door jamb	METAL	20	grey	Positive	< LOD : 5.70	< LOD : 5.70	< LOD : 8.40
175	517	2010-01-25 16:39	mg / cm ^2	door jamb	METAL	21	grey	Positive	< LOD : 4.95	< LOD : 4.95	< LOD : 11.25
176	518	2010-01-25 16:39	mg / cm ^2	door	METAL	21	grey	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 3.70
177	519	2010-01-25 16:42	mg / cm ^2	door	METAL	25	grey	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 2.87
178	520	2010-01-25 16:42	mg / cm ^2	door jamb	METAL	25	BLUE	Positive	4.80 ± 3.00	4.80 ± 3.00	< LOD : 5.10
179	521	2010-01-25 16:44	mg / cm ^2	door jamb dup	METAL	25	BLUE	Positive	1.20 ± 0.10	1.20 ± 0.10	1.10 ± 0.70
180	522	2010-01-25 16:45	mg / cm ^2	door jamb dup	METAL	25	BLUE	Positive	1.10 ± 0.10	1.10 ± 0.10	1.20 ± 0.60
181	523	2010-01-25 16:45	mg / cm ^2	door jamb dup	METAL	25	BLUE	Positive	1.20 ± 0.20	1.20 ± 0.20	< LOD : 1.35

Department of Environmental Quality

CHARLES MARSHALL

INSPECTOR/RISK ASSESSOR

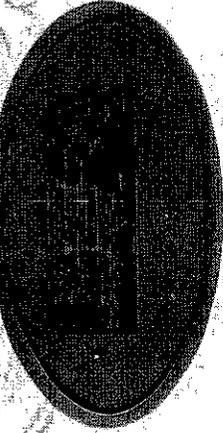
Certification # OKRASR13418

Issued on: 4/1/2009

Expires on: 3/31/2010

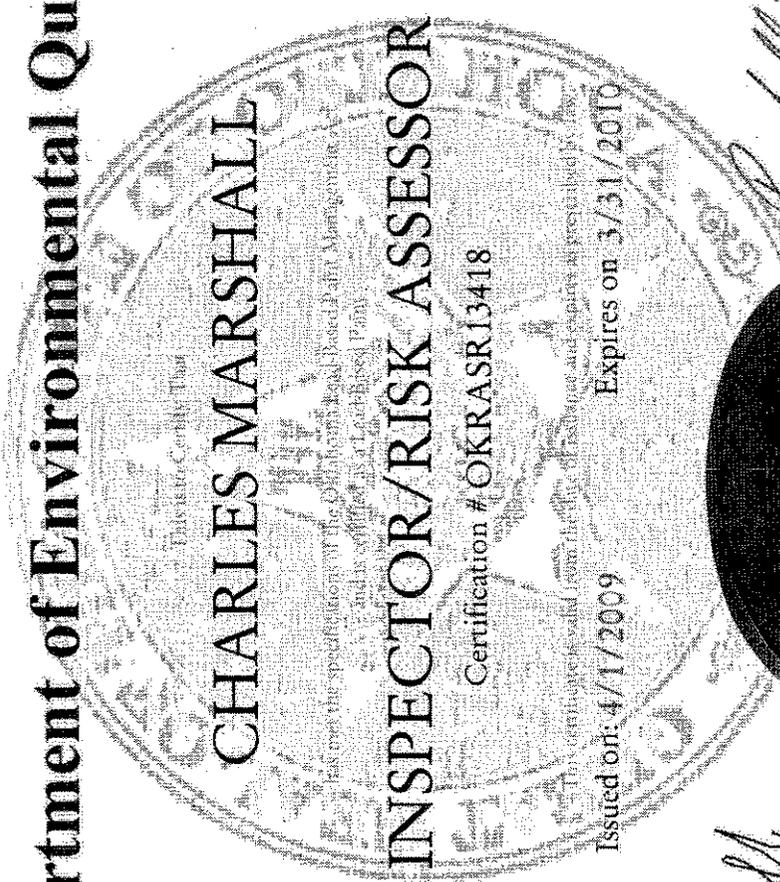


Division Director
Air Quality Division





Environmental Programs Manager
Air Quality Division



Department of Environmental Quality

MARSHALL ENVIRONMENTAL MANAGEMENT FIRM

Certification # OKFIRM11160

Issued on: 4/1/2009

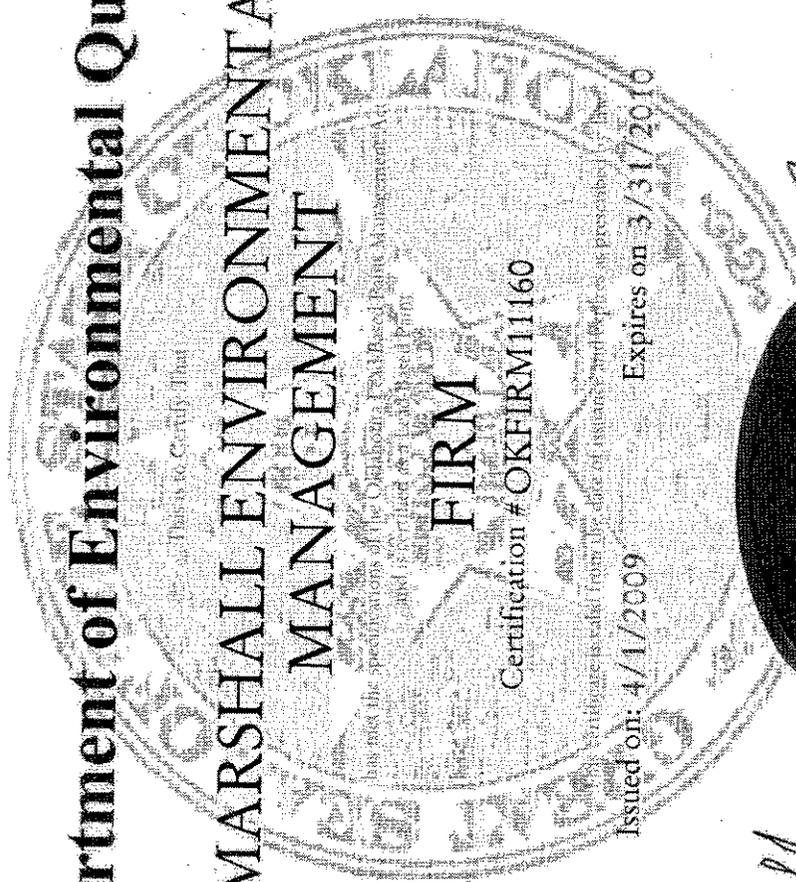
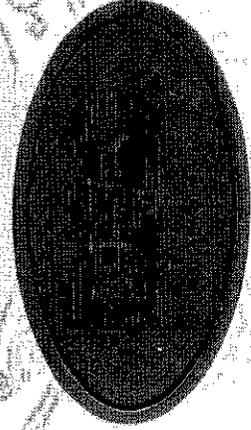
Expires on 3/31/2010

A. Todd

Division Director
Air Quality Division

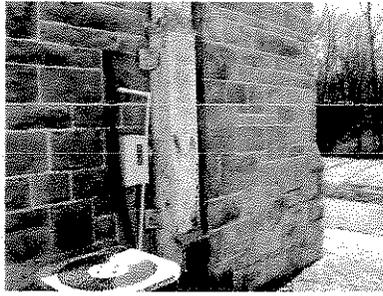
Randall F. Wood

Environmental Programs Manager
Air Quality Division

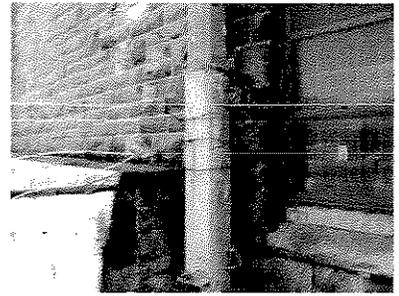




Blue Metal Door Jamb - Side A



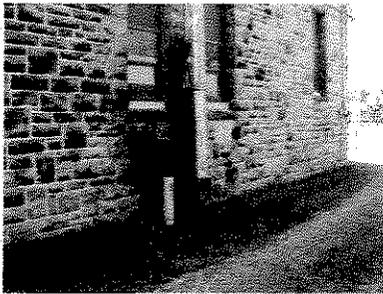
White Metal Roof Drain - Side B #1



White Metal Roof Drain - Side B #2



White Metal Roof Drain - Side C #2



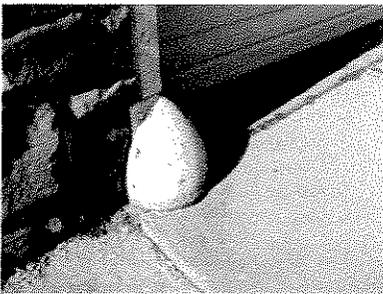
White Metal Roof Drain - Side C #1



Blue Metal Door Guard - Side D-1



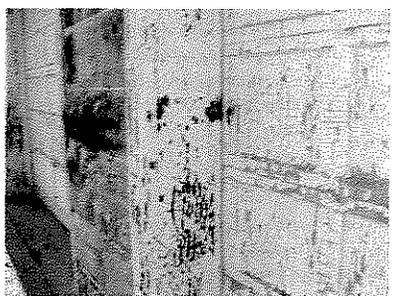
Upper Blue Metal Door Guard #2 - Side D-1



Blue Metal Door Guard #2 - Side D-1

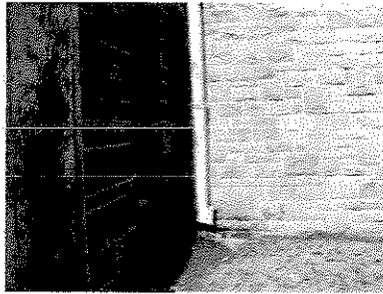


Wood Overhead Door #1 - Side D2

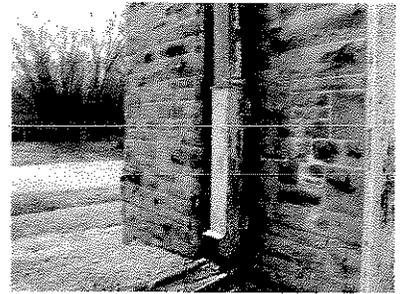




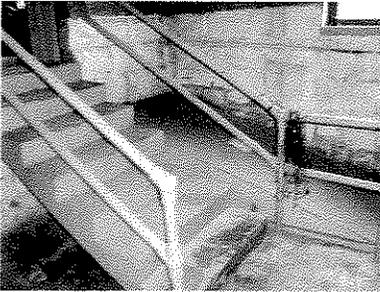
White Metal Overhead Door Frame #2- Side D-2



White Metal Roof Drain #1 Side D-2



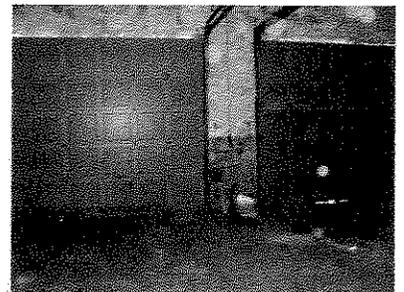
White Metal Roof Drain #2 Side D-2



Blue Metal Stair Rail Rm. 10 - Side C



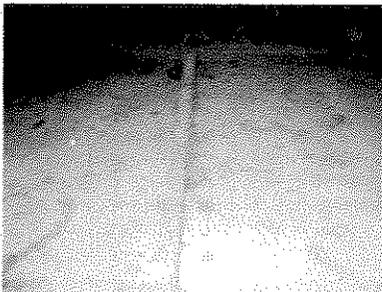
Blue Metal Stair Rail Rm. 10 - Side A



Interior Wood Overhead Doors - Rm. 15 - Side D

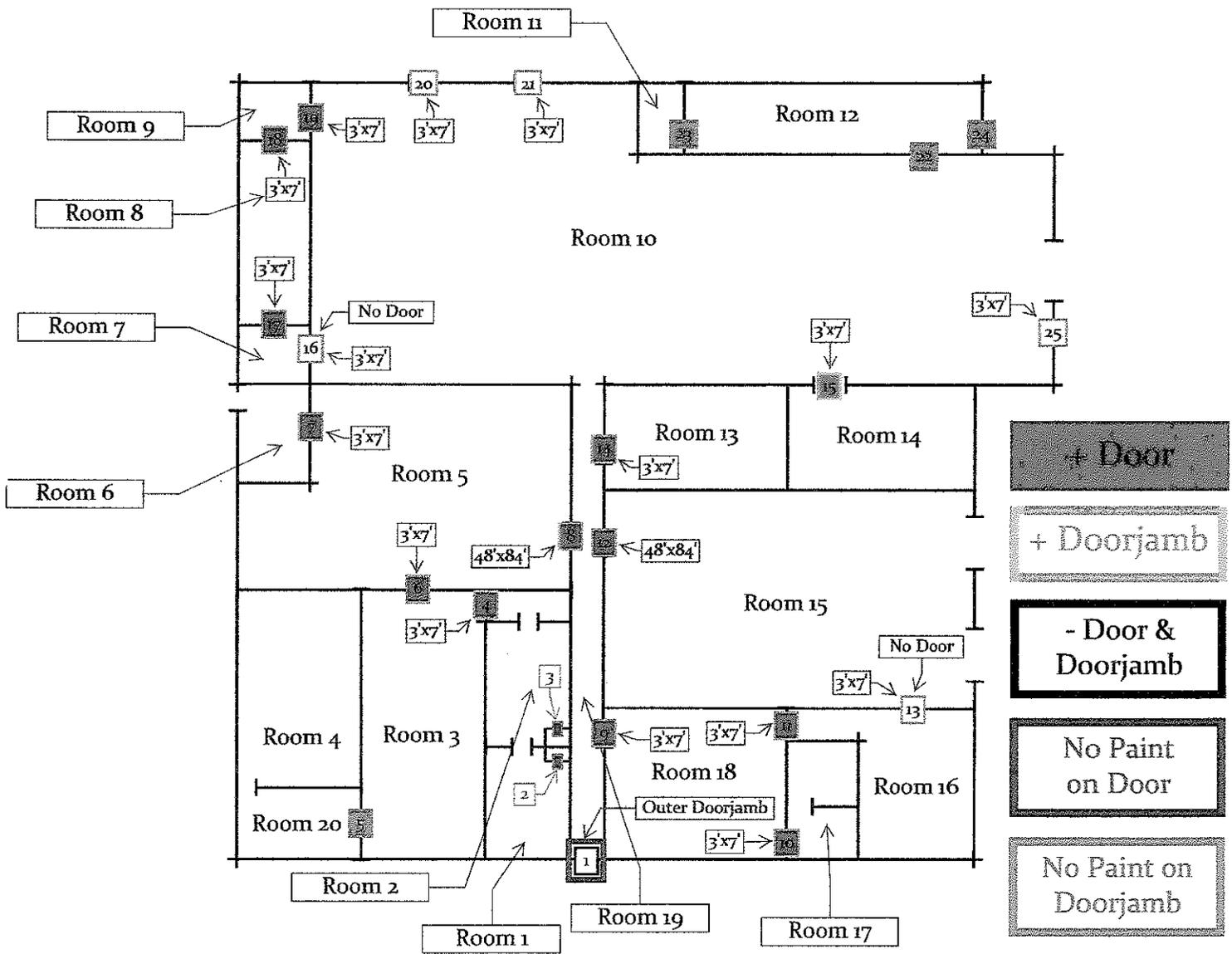


White/Grey Shower Walls - Rm. 17

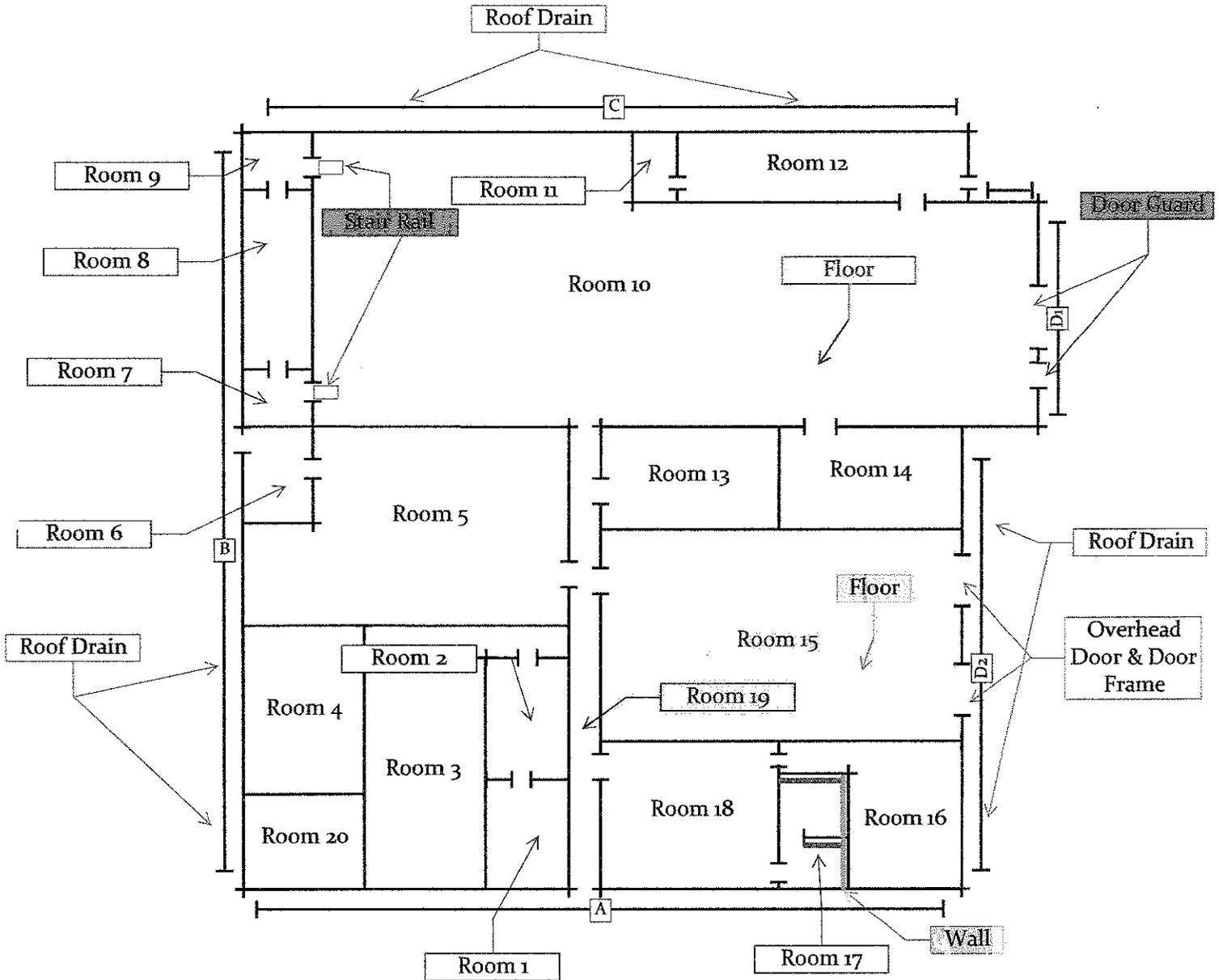


Yellow Floor Paint - Rm. 10 - Side B

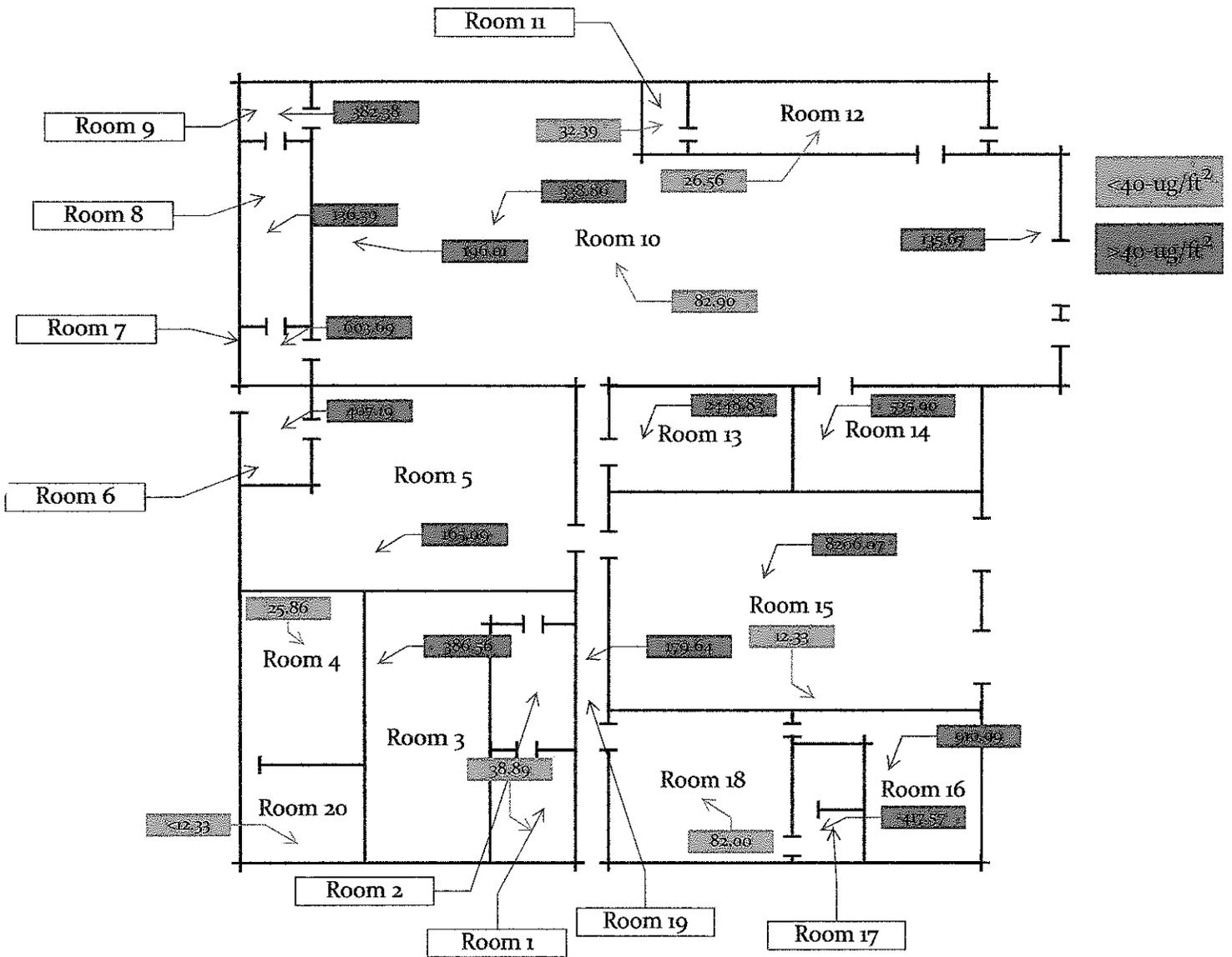
Pawhuska Armory Lead-Based Paint Doors & Doorjamb



Pawhuska Armory Lead-Based Paint Miscellaneous Surfaces



Pawhuska Armory Lead-Based Paint Surface Wipes



Sample Number: 480893
Project Code: LP-ARM
Agency Number:
Date Collected: 3/5/2010
Time Collected: 1220
Date Received: 3/15/2010
Date Completed: 03/24/2010
Collected By: CW
PWS Id:
Location Code:
Station:
Facility:
Report Date: 3/24/2010

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
General Inquiries: 1-800-869-1400
Sample Receiving: (405) 702-1113
Report of Analysis by Metals
EPA Drinking Water Certification #OK00013

To: LAND PROTECTION DIVISION
LEATHER MALLORY

CC: FILE COPY

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Lead, Sediment		55.6	MG/KG	03/23/10	6020	3050
% Solids		74.9	%	03/18/10	CLP 05.3	3050

Summary

Labs performing analysis on this Sample:

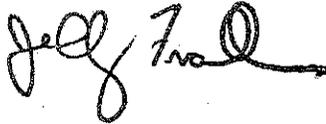
Metals

SOURCE: PAWHUSKA ARMORY

SAMPLERS COMMENTS:

SS-1

ANALYST'S COMMENTS:



* ANALYST _____

Sample Number: 480894
Project Code: LP-ARM
Agency Number:
Date Collected: 3/5/2010
Time Collected: 1221
Date Received: 3/15/2010
Date Completed: 03/24/2010
Collected By: CW
PWS Id:
Location Code:
Station:
Facility:
Report Date: 3/24/2010

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
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OKLAHOMA, 73102-6010
General Inquiries: 1-800-869-1400
Sample Receiving: (405) 702-1113
Report of Analysis by Metals
EPA Drinking Water Certification #OK00013

To: LAND PROTECTION DIVISION
HEATHER MALLORY

CC: FILE COPY

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Lead, Sediment		88.8	MG/KG	03/23/10	6020	3050
% Solids		68.7	%	03/18/10	CLP 05.3	3050

Summary

Labs performing analysis on this Sample:

Metals

SOURCE: PAWHUSKA ARMORY

SAMPLERS COMMENTS:

SS-2

ANALYST'S COMMENTS:



*

* ANALYST _____

Sample Number: 480895
Project Code: LP-ARM
Agency Number:
Date Collected: 3/5/2010
Time Collected: 1230
Date Received: 3/15/2010
Date Completed: 03/24/2010
Collected By: CW
PWS Id:
Location Code:
Station:
Facility:
Report Date: 3/24/2010

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
General Inquiries: 1-800-869-1400
Sample Receiving: (405) 702-1113
Report of Analysis by Metals
EPA Drinking Water Certification #OK00013

To: LAND PROTECTION DIVISION
HEATHER MALLORY

CC: FILE COPY

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Lead, Sediment		82.1	MG/KG	03/23/10	6020	3050
% Solids		77.8	%	03/18/10	CLP 05.3	3050

Summary

Labs performing analysis on this Sample:

Metals

SOURCE: PAWHUSKA ARMORY

SAMPLERS COMMENTS:

SS-3

ANALYST'S COMMENTS:



*

* ANALYST _____

40.0 PAWHUSKA ARMORY

C.H. Guernsey & Company (GUERNSEY) surveyed the indoor firing range (IFR) at the Pawhuska Armory on February 25, 2005 (Photographs 40-1 through 40-22). The IFR is approximately 110 feet long, approximately 20 feet wide, and the ceiling is approximately 15 feet high. There is a bullet trap and backstop at the far end of the IFR. The ventilation in the IFR consists of a fan vent in the exterior wall that discharges directly outside. The IFR is situated subgrade. The IFR was flooded whenever GUERNSEY performed the site visit.

Based upon information supplied to GUERNSEY, Oklahoma Military Department (OMD) personnel collected wipe samples from the IFR on April 28, 2004. Lead concentrations within the IFR ranged from 1,247 $\mu\text{g}/\text{ft}^2$ at the bullet trap to less than 16 $\mu\text{g}/\text{ft}^2$ at the entry to the IFR were determined. The drill floor sample indicated a lead concentration of 87 $\mu\text{g}/\text{ft}^2$. Because of the low levels of lead on the drill floor, remedial activities outside the IFR are not necessary. Table 40-1 summarizes the laboratory results for the wipe samples.

Table 40-1
Laboratory Analysis

Sample ID #	Sample Date	Result ($\mu\text{g}/\text{sq. ft.}$)	Lab Report ID #
310	4/28/2004	1,247.50	Quantem 111990
311	4/28/2004	<16.00	Quantem 111990
312	4/28/2004	87.05	Quantem 111990
314	4/28/2004	31.45	Quantem 111990

No equipment was identified for cleaning by OMD and armory personnel:

Table 40-2 provides a preliminary cost estimate to clean the equipment and/or remediate the lead contamination in the IFR. Figure 40-1 shows the approximate locations of the OMD samples.

40.1 OTHER ENVIRONMENTAL CONSIDERATIONS

Beyond the issues related to the IFR, the following environmental related issues potentially exist at the Armory:

- Asbestos containing material (ACM) is material that contains 1% or more asbestos fibers. Because of the Armory's age, there is a potential for ACM in building materials (roofing materials, floor tiles, mastic, ceiling tiles, window putty, natural gas-fired heating systems, etc);
- Lead has been used as a color carrier in paints for hundreds of years. In 1978, its use in residential paints was restricted in the United States. Because of its age, there is a potential for lead containing paints at the Armory;
- Polychlorinated biphenyls (PCB) are oils that were used in electrical equipment until their regulation in 1977. There is a potential for PCB in fluorescent lighting ballasts, capacitors, transformers and other dielectric fluid filled electrical equipment at the Armory;

- The potential for mold exists within the Armory due to a compromise of the building envelope and the presence of standing water and visible water damage;
- Chlorofluorocarbons (CFCs) are compounds used in heating, ventilation, and cooling (HVAC) systems and in fire suppression (i.e., halon) systems. The use, release and recycling of these compounds are regulated by EPA. There is a potential for CFCs to be present in the HVAC equipment and fire suppression system of the Armory;
- Mercury is a heavy metal used in thermostats, pressure gauges, and other building and process related equipment. There is a potential for mercury containing thermostats at the Armory;
- Lead, nickel, and cadmium are heavy metals used in batteries. There is a potential for heavy metal containing batteries in the emergency lighting and exit signage at the Armory; and
- Other issues may be present that were not visually evident to GUERNSEY.

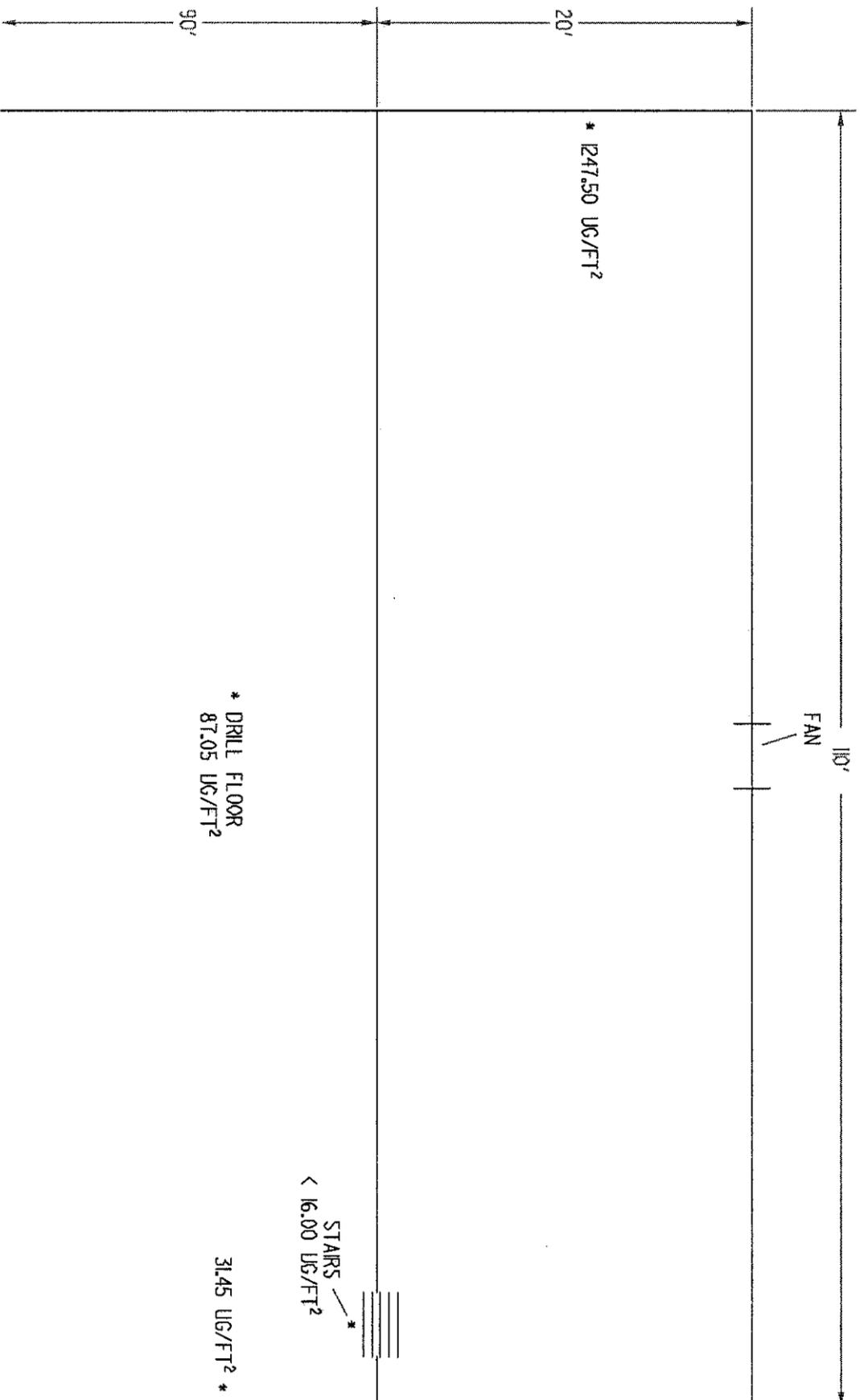
**Table 40-2
Preliminary Cost Estimate**

Equipment Cleaning Costs (a)				
Item Description	Number	Unit	Cost Per Unit	Total Cost
Total				\$0

Remediation Costs (b)				
Item Description	Number	Unit	Cost Per Unit	Total Cost
Mob/DeMob	1	Each	\$1,500	\$1,500
Stage/Clean Equipment/Components for Disposal	1	Each	\$2,500	\$2,500
Cleaning of Army Equipment (a)	N/A	N/A	N/A	\$0
Clean/Seal Firing Range surfaces	8300	ft ²	\$5	\$37,350
Clean Drill Floor	0	ft ²	\$0.10	\$0
Solidify/Stabilize Material in Bullet Trap	0	ft ³	\$15	\$0
Waste Disposal (non-hazardous)	2	Ton	\$1,000	\$2,000
Total (+/- 25%)				\$43,350

Notes:

- (a) Includes the cleaning of equipment identified by OMD personnel during site visit. Please reference photographs for each item.
- (b) Includes cleaning of firing range space, drill floor, and other surfaces to <40 ug/ft².



- PANHUSKA FIRING RANGE NOTES:**
1. ALL MEASUREMENTS ARE APPROX.
 2. SAMPLE LOCATIONS ARE APPROX. & IDENTIFIED BY **
 3. SAMPLE CONCENTRATIONS ARE IN MICROGRAMS PER SQUARE FOOT (UG/FT²)
 4. SAMPLES COLLECTED BY OMD PERSONNEL 28-APRIL-04
 5. SEE PHOTOGRAPHS FOR REFERENCE
 6. SEE INVENTORY LIST FOR DESCRIPTION OF EQUIPMENT TO BE CLEANED



STATE OF OKLAHOMA
 Department of Central
 Services
**Construction and
 Properties Division**

Approvals:

- State Professional
- Department of Environmental Quality
- Water Resources Board
-
-

This document has been prepared in accordance with the provisions of the Oklahoma State Statutes, Title 101, Section 10-101, and the Oklahoma Administrative Code, Title 101, Chapter 10-1-1. It is the responsibility of the user to verify the accuracy of the information contained herein. The Oklahoma Department of Central Services and Properties Division is not responsible for any errors or omissions in this document.

David L. Brown, AIA
 Dean
 State Construction, Architecture

Consultant:



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 Oklahoma City, Oklahoma 73112
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Project: Panhuska Firing Range
Project Number: 08-001
Project Location: Panhuska Firing Range
Project Date: 06/21/08
Project Status: 08/21/08



PAWHUSKA ARMORY - PHOTOGRAPH LOG



Photograph #40-1



Photograph #40-2



Photograph #40-3



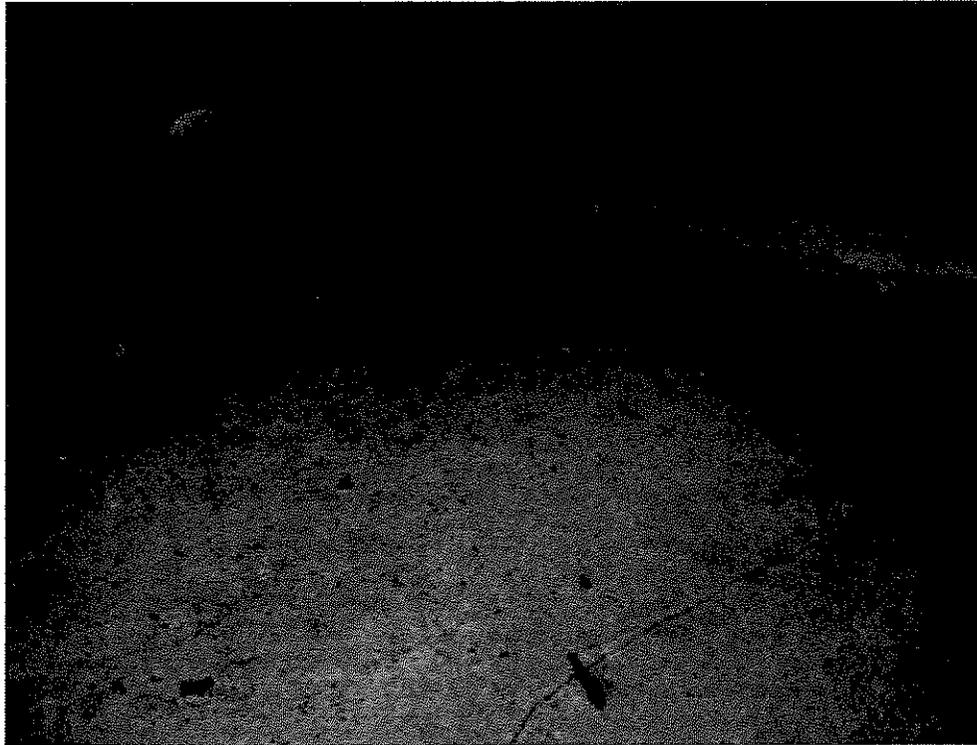
Photograph #40-4



Photograph #40-5



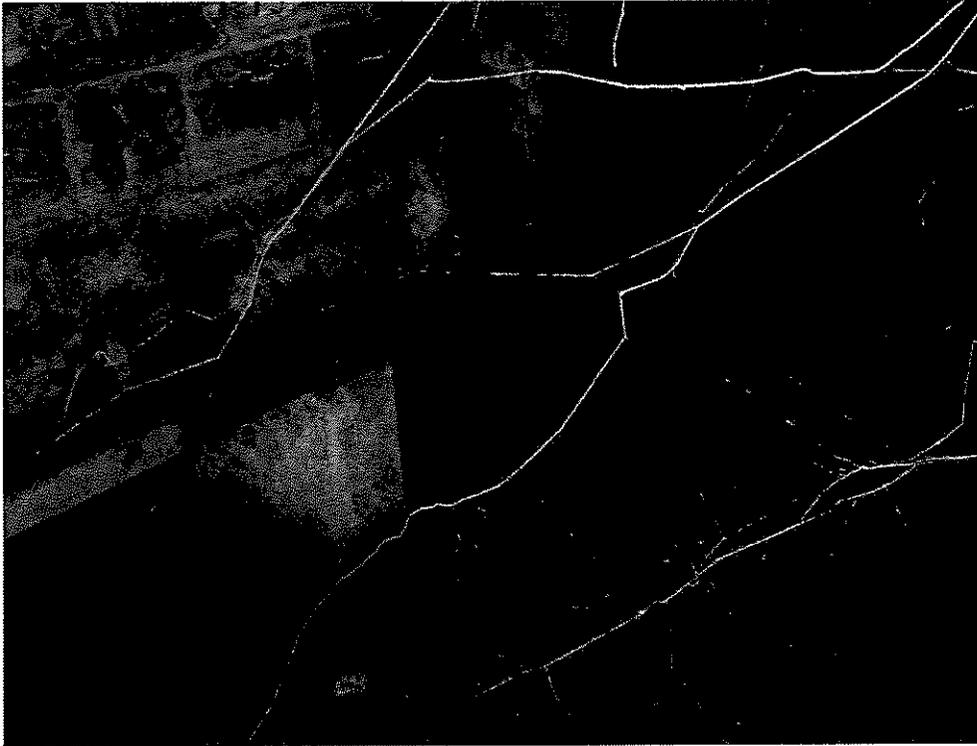
Photograph #40-6



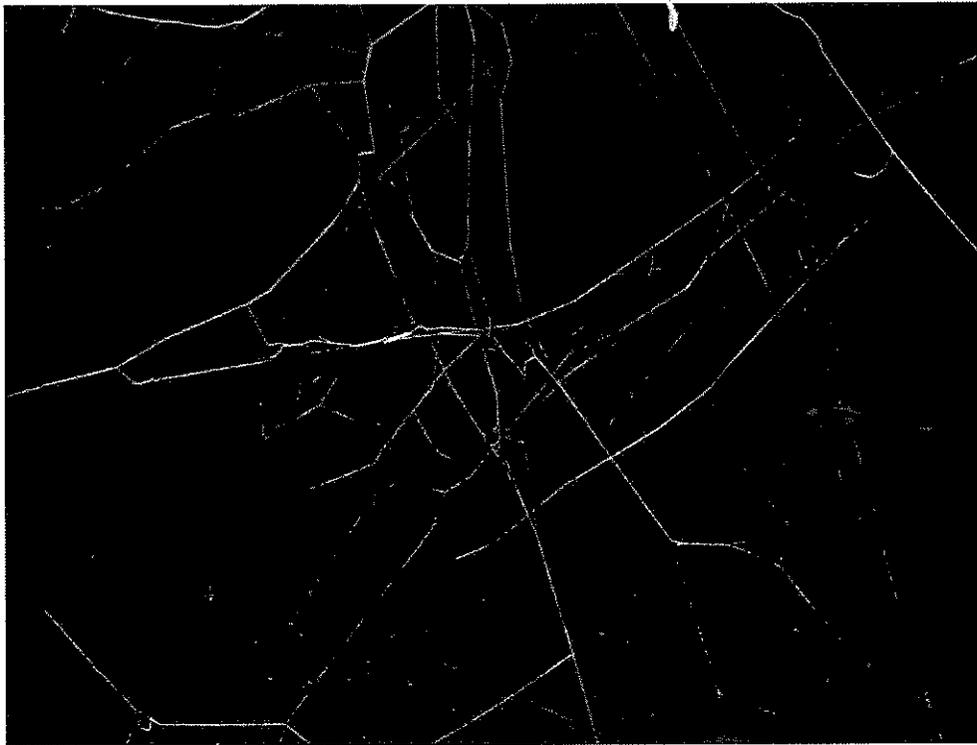
Photograph #40-7



Photograph #40-8



Photograph #40-9



Photograph #40-10



Photograph #40-11



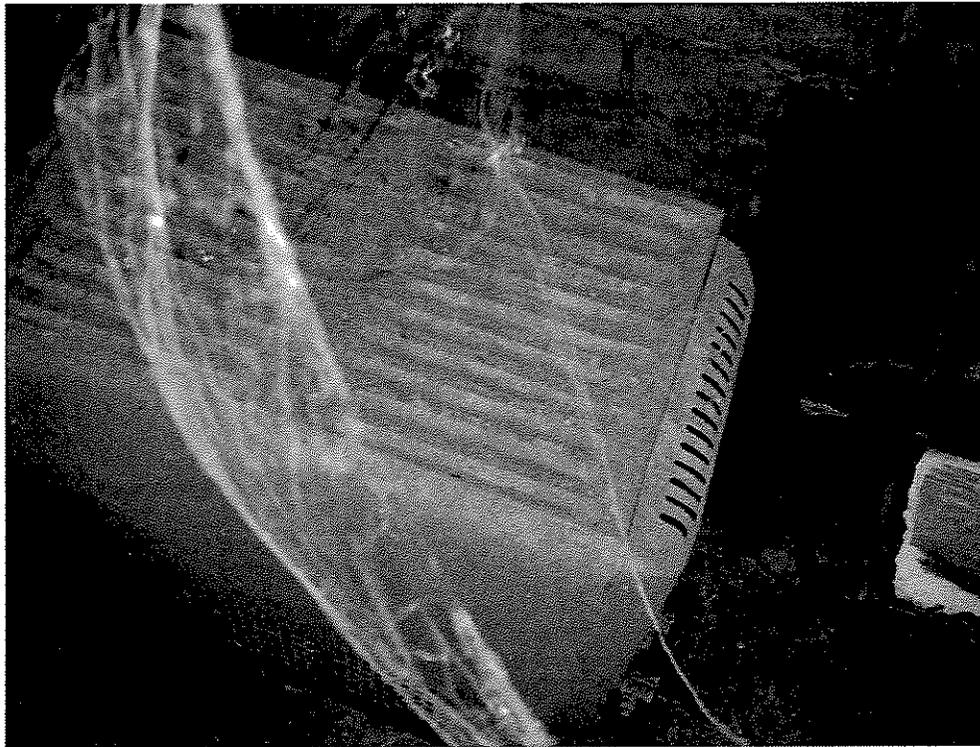
Photograph #40-12



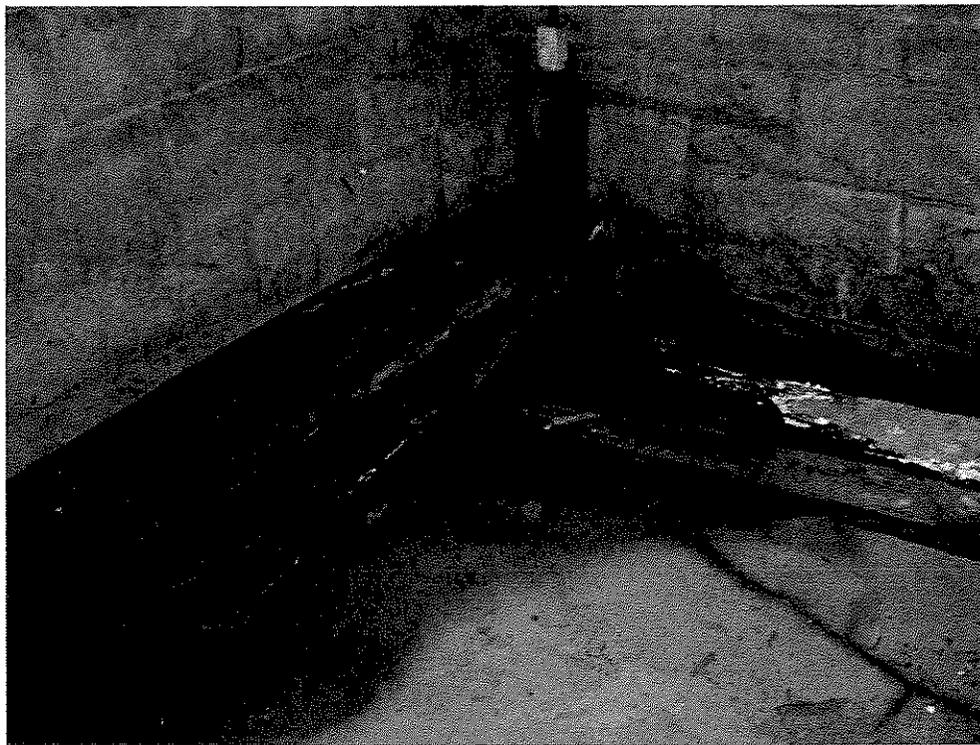
Photograph #40-13



Photograph #40-14



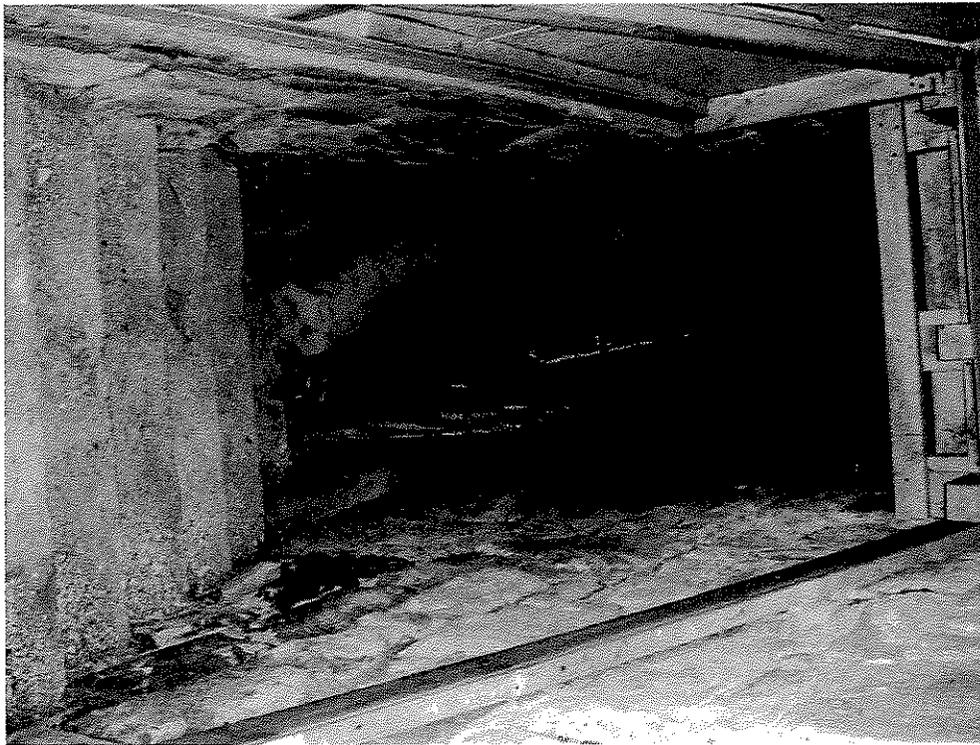
Photograph #40-15



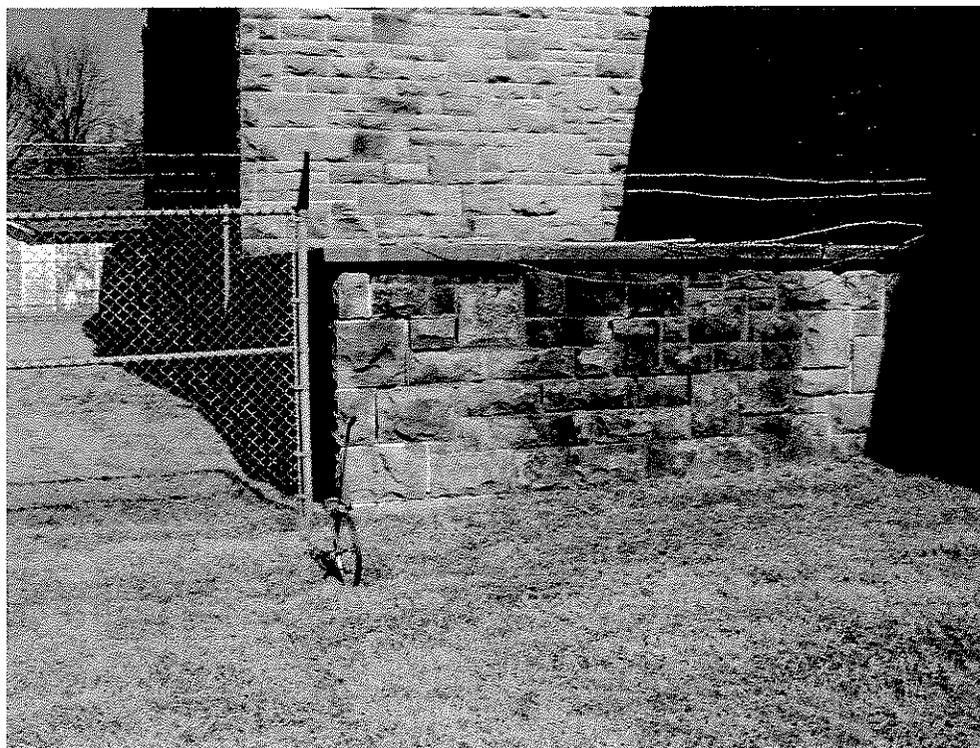
Photograph #40-16



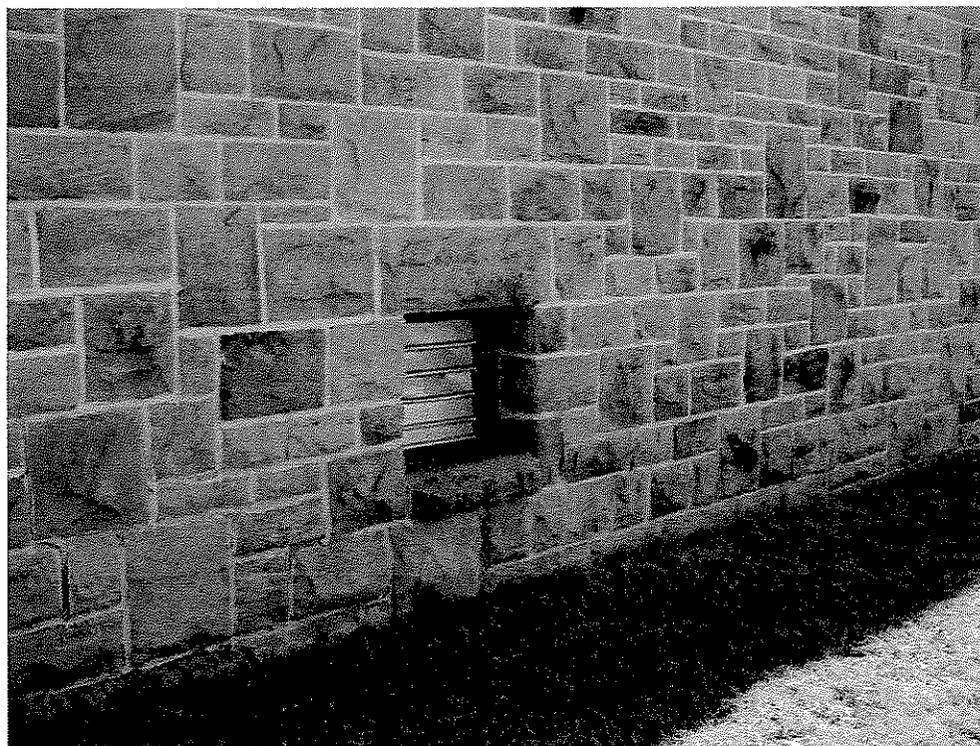
Photograph #40-17



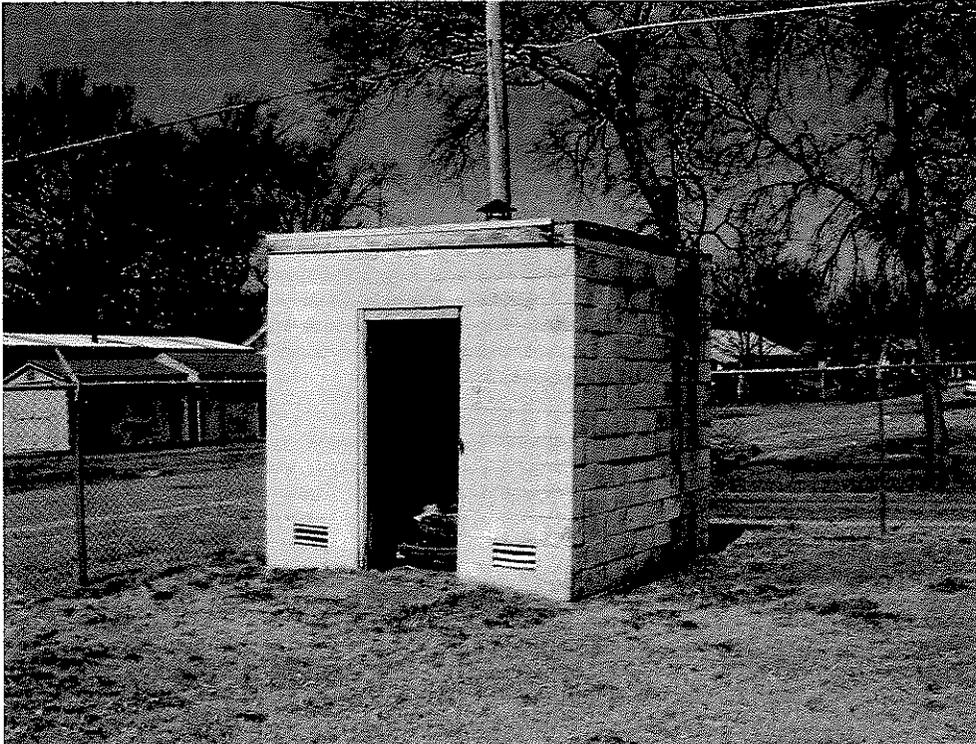
Photograph #40-18



Photograph #40-19



Photograph #40-20



Photograph #40-21



Photograph #40-22

Appendix F - Qualifications of Environmental Professionals

1. Heather Mallory - Heather Mallory holds a Bachelors and Masters Degree in Environmental Science from the University of Oklahoma. Mrs. Mallory has nine 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 various Voluntary Cleanup sites across the state, NEPA coordinator for the Tar Creek voluntary buyout of residents, conducting and reviewing Targeted Brownfield Assessments, serving on agency-wide GIS policy making committee, and training DEQ Land Protection Division staff on GPS receivers.
2. Rachel Francks – Rachel Francks holds a Bachelors Degree in Geography from the University of Oklahoma. Ms. Francks has 6 months of 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 various Brownfields and Voluntary Cleanup site across the state, QAPP reviewer, and conducting and reviewing Targeted Brownfield Assessments.