

# PHASE I ENVIRONMENTAL SITE ASSESSMENT WITH PHASE II SAMPLING

Alpha Chi Omega Sorority House 1635 Mesa Vista Road NE Albuquerque, Bernalillo County, New Mexico

JULY 2015



NALE-15-023-15-287

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Prepared for:

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# **EXECUTIVE SUMMARY**

This Phase I Environmental Site Assessment (ESA) with limited Phase II Sampling was performed in accordance with our proposal (P-ALE-15-180 dated May 13, 2015) and in general accordance with the consensus documents known as American Society for Testing and Materials (ASTM) E 1527-13 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.* The original proposal was for a Phase I ESA with sampling for radon and mold spores. University of New Mexico (UNM) authorized additional limited asbestos and lead-paint sampling by email on May 18, 2015. Mr. Kenneth Hunter performed the site reconnaissance on May 22, 2015.

The Alpha Chi Omega Sorority House (subject property) is located at 1635 Mesa Vista Road NE in Albuquerque, Bernalillo County, New Mexico.

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

- The subject property consists of the Alpha Chi Omega sorority house, containing approximately 0.75 acres of land. The subject property is developed with a three-story building with a basement, containing approximately 18,600 square feet.
- Historical sources indicate that site was originally developed with the sorority house in 1964. The adjacent property to the north (currently a UNM parking lot) was developed by 1959. The adjoining property to the east (currently the UNM business center and other UNM buildings) was developed by 1951. The adjoining property to the south (currently a sorority house) was developed by 1967. The adjacent property to the west has historically been undeveloped.
- The regulatory review identified three (3) LUST, three (3) UST, four (4) RCRA generator, one (1) CERCLIS, and one (1) NPL regulated facilities within the specified search radii. Based on distance, gradient direction and/or current regulatory status, the sites listed above do not appear to pose a recognized environmental condition (REC) to the subject site at this time.

Based on the scope of services and limitations of this assessment, Zia did not identify RECs in connection with the site, which, in our opinion, require additional investigation at this time. However, Zia did identify the following REC in connection with the subject property.

 Zia performed a Limited Asbestos Survey at the site, consisting of 36 bulk samples. Several samples contained more than one building matrix, resulting in 56 laboratory analyses. Thirteen of the 56 analyses indicated more than one percent (1%) asbestos. ACMs were identified as roofing sealant tar, 9-inch by 9-inch vinyl floor tile, TSI hard joints, and wall and ceiling taping mud. Zia recommends that an Asbestos Operations & Maintenance (O&M) Program should be implemented at the site to manage the ACBMs in place. While not RECs, the following four items warrant additional discussion:

- Zia performed a Limited Lead-Based Paint (LBP) Survey at the subject property, consisting of 16 samples of paint. None of the paint samples analyzed at more than 0.5% lead. Therefore, LBP was not identified at the subject property and no further investigation for LBP appears warranted at this time.
- Zia performed a Limited Radon Survey at the subject property. Four radon measurements
  were collected in the basement and one radon measurement was collected on the first
  (ground) floor. None of the radon measurements exceeded 4.0 pCi/L. Therefore radon is
  not considered to present an environmental concern at the property and no further
  assessment of radon gas appears warranted at this time.
- Zia performed a Limited Mold Spore Survey at the subject property and the results indicate that the 2014 mitigation effort was adequate. However, if mold spores appear to present a concern at this location in the future, Zia recommends that thermal imaging (or similar methods) be employed to locate sources of moisture and that the third floor should be incorporated into the investigation and mitigation effort.
- A pad-mount transformer is located north of the building. Zia recommends that the property owner should coordinate with PNM to evaluate whether concrete-filled bollards should be placed around the transformer.

# PHASE I ENVIRONMENTAL SITE ASSESSMENT WITH LIMITED PHASE II SAMPLING

Alpha Chi Omega Sorority House 1635 Mesa Vista Road NE Albuquerque, Bernalillo County, New Mexico

# **1 INTRODUCTION**

The Alpha Chi Omega (AXO) Sorority House (subject property) consists of approximately 0.75 acres of land, located at 1635 Mesa Vista Road NE, Albuquerque, Bernalillo County, New Mexico. The subject property is developed with an approximately 18,600 square foot building that contains three floors and a basement. The University of New Mexico (UNM) currently owns the land and AXO National Housing Corporation owns the sorority house.

# **1.1 PURPOSE**

The purpose of a Phase I Environmental Site Assessment (ESA) is to accumulate data for use by parties who wish to evaluate the level of environmental risk associated with commercial real estate and takes into account commonly known and reasonably ascertainable information. While completion of an ESA is intended to constitute one of the requirements of all appropriate inquiry for purposes of Comprehensive Environmental Response Compensation and Liability Act (CERCLA) liability protections, it is not intended that its use be limited to that purpose. This ESA is intended primarily as an approach to conducting an inquiry designed to identify recognized environmental conditions<sup>1</sup> (REC), controlled recognized environmental conditions<sup>2</sup> (CREC), and historical recognized environmental conditions<sup>3</sup> (HREC) in connection with a property as reflected by the scope and represents a commercially prudent and reasonable inquiry.

<sup>&</sup>lt;sup>1</sup> Recognized Environmental Conditions (RECs), per ASTM E1527-13 are defined as "the presence or likely presence of any hazardous substance or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. *De minimus* conditions are not recognized environmental conditions."

<sup>&</sup>lt;sup>2</sup> Controlled Recognized Environmental Conditions (CRECs), per ASTM E1527-13 are defined as "a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls."

<sup>&</sup>lt;sup>3</sup> Historical Recognized Environmental Conditions (HRECs), per ASTM E1257-13 are defined as "a past release of any hazardous substance or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority, without subjecting the property to any required controls."

This Phase I ESA with limited Phase II sampling of the above-referenced site was performed in accordance with our proposal (P-ALE-15-180 dated May 13, 2015), and in general accordance with the consensus documents known as American Society for Testing and Materials (ASTM) E 1527-13 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.* This ESA consisted of the following components, which include:

- A thorough noninvasive on-site reconnaissance of the property, including a cursory review of adjacent properties;
- Interviews with current owners/operators/occupants, local government officials, and potentially neighboring property owners/occupants to obtain information indicating RECs in connection with the property;
- A review of various physical setting, historical, and regulatory records to help identify RECs in connection with the subject property and nearby properties;
- Limited Phase II Sampling; and
- Preparation of a final report, which details the assessment findings, conclusions, and opinion of the environmental professional, and includes supporting documentation.

A more detailed scope of services is included in the above referenced proposal. Limitations and ASTM deviations are evident from reviewing the applicable scope of services and the report text.

# **1.2 SIGNIFICANT ASSUMPTIONS**

This ESA was performed in accordance with generally accepted practices of this profession undertaken in similar studies at the same time and in the same geographical area. We have endeavored to meet this standard of care but may be limited by conditions encountered during performance, a client-driven scope of services, or the inability to review information not received by the report date. Phase I ESAs, such as the one performed at this site, are of limited scope, are noninvasive and cannot eliminate the potential that hazardous, toxic or petroleum substances are present or have been left at the site beyond what is identified by the limited scope of this ESA. In conducting the limited scope of services described herein, certain sources of information and public records were not reviewed.

It should be recognized that environmental concerns might be documented in public records that were not reviewed. No environmental site assessment can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs. No warranties, express or implied, are intended or made. The limitations herein must be considered when the user of this report formulates opinions as to risks associated with the site or otherwise uses the report for any other purpose. These risks may be further evaluated – but not eliminated – through additional research or assessment. We will, upon request, advise you of additional research or otherwise that may be available and associated costs.

# **1.3** LIMITATIONS AND EXCEPTIONS AND SPECIAL TERMS AND CONDITIONS

Based upon the agreed-on scope of services, this ESA did not include subsurface or other invasive assessments, business environmental risk evaluations, or other services unless identified and discussed herein. Reasonable attempts were made to obtain information within the scope and time constraints set forth by the client; however, in some instances, information requested is not or was not received by the issuance date of the report.

Consideration of such information is beyond the scope of this assessment. Information obtained for this ESA was received from several sources that we believe to be reliable; nonetheless, the authenticity or reliability of these sources cannot and is not warranted hereunder. Purchase price data, specialized knowledge or experience of the client, activities and land use limitations, and environmental lien information were not provided by the client for evaluation unless otherwise specified herein. This ESA was further limited by the following:

• Credentials of the company (Statement of Qualifications) have not been included in this report but are available upon request.

This report represents our service to you as of the report date and constitutes our final document; its text may not be altered after final issuance. Findings in this report are based upon the site's current utilization, information derived from the most recent reconnaissance and from other activities described herein; such information is subject to change. Certain indicators of the presence of hazardous substances or petroleum products may have been latent, inaccessible, unobservable or not present during the most recent site reconnaissance and may subsequently become observable (such as site renovation or development). Furthermore, these services are not to be construed as legal interpretation or advice.

## **1.4 USER RELIANCE**

This ESA report has been prepared for the exclusive use and reliance of The University of New Mexico (UNM). Use or reliance by any other party is prohibited without the written authorization of UNM and Zia Engineering & Environmental Consultants, LLC (Zia).

Reliance on the ESA by the client and all authorized parties will be subject to the terms, conditions and limitations stated in the proposal, ESA report, and Zia's Terms and Conditions. The limitation of liability defined in the Terms and Conditions is the aggregate limit of Zia's liability to the client and all relying parties.

# **2 SITE DESCRIPTION**

Site Name	Alpha Chi Omega Sorority House	
Site Location/Address	1635 Mesa Vista Road NE, Albuquerque, Bernalillo County, New Mexico; Southeast quarter of Section 16, Township 20 North, Range 3 East, New Mexico Principal Meridian	
Legal Description	Lot 2, Parcel D of the Mesa Vista Road Sorority Housing Area	
Site/Vicinity General Characteristics	UNM properties, sororities, fraternities, undeveloped lots, and residential properties	
Current Use of Site	Unoccupied sorority house	
Structures, Roads, Other Improvements	Three-story sorority house with dormitory style rooms, ground floor common rooms, and a basement. Sanitary sewer and other utilities, parking lot, commercial landscaping, and a small courtyard is located west of the building.	
General Current Use of Adjoining Properties	Sorority house, UNM office buildings, UNM parking lot, and undeveloped	

#### TABLE 1: SITE LOCATION AND LEGAL DESCRIPTION

The subject property consists of a 0.75-acre tract with a centrally-located sorority house. The subject site characteristics are addressed in greater detail in Section 5.0. The site location is depicted on Figure 1 of Appendix A, which was reproduced from a portion of the USGS 7.5-minute series 2013 Albuquerque West, New Mexico, topographic map. Both a Site Diagram and a Vicinity Map are included as Figure 2 of Appendix A, which was reproduced from a portion of an Albuquerque Geographic Information System (AGIS) 2014 aerial photograph of the property and surrounding areas. Acronyms and terms used in this report are described in Appendix G.

# **3 USER PROVIDED INFORMATION**

The user is defined as the party seeking to use ASTM Practice E 1527-13 to complete this ESA of the subject site. The user for this ESA is identified as UNM, the proposed purchaser of the subject property.

A User Questionnaire (Appendix E) was completed by Ms. Julie Brasil, Real Estate Associate III with the Real Estate Department at UNM, to assist in gathering information that may be material to identifying RECs in connection with the subject site. In order to qualify for one of the CERCLA liability protections offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001, the user is requested to provide to Zia the following information (if available).

## **3.1 TITLE RECORDS**

According to Ms. Brasil, UNM currently owns the land and the AXO National Housing Corporation owns the building. Additional title information is provided in Section 4.4.5.

# **3.2 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS**

Ms. Brasil indicated that she is unaware of any environmental clean-up liens and/or land activity and use restrictions (AUL[s]) on the subject site.

# 3.3 Specialized Knowledge, Commonly Known or Reasonably Ascertainable Information

Ms. Brasil indicated that she has no specialized knowledge or experience related to possible environmental concerns at the subject property.

### **3.4 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES**

According to Ms. Brasil, the fair market value of the property is not applicable. The potential acquisition of the building is being negotiated between UNM and the AXO national housing corporation.

### 3.5 REASON FOR PERFORMING ESA

According to Ms. Brasil, UNM is considering the potential acquisition of the sorority house building and is performing the ESA as part of their due diligence and planning process.

# **4 RECORDS REVIEW**

In some of the following subsections, the words up-gradient, cross-gradient and down-gradient refer to the topographic gradient in relation to the site. The groundwater flow direction and the depth to shallow groundwater, if present, would likely vary depending upon seasonal variations in rainfall and the depth to the soil/bedrock interface. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be accurately ascertained but only inferred, as has been done in this case.

## 4.1 STANDARD ENVIRONMENTAL RECORD SOURCES

The United States Environmental Protection Agency (EPA) and State of New Mexico regulatory database information was provided by Envirosite Corporation (Envirosite), a contract information services company, for indications of environmental concern on and in the vicinity of the site. Information in this section is subject to the accuracy of the data provided by the information service company and the date at which the information is updated, and the scope herein did not include identifying the location of facilities listed as "unmappable".

The types and number of facilities identified on the standard federal, state and tribal databases within the indicated search areas are listed in Table 2. Database definitions, descriptions, and the database search reports and any additional regulatory record information provided by Envirosite, and/or NMED are included in Appendix D.

DATABASE	DESCRIPTION	RADIUS (MILES)	FACILITIES
	FEDERAL	1	1
NPL	The National Priorities List (NPL) is the EPA's database of uncontrolled or abandoned hazardous waste facilities that have been listed for priority remedial actions under the Superfund Program.	1.0	1
CERCLIS/ NFRAP	The CERCLIS database is a compilation of facilities which the EPA has investigated or is currently investigating for a release or threatened release of hazardous substances pursuant to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980. NFRAP (No Further Remedial Action Planned) refers to facilities that have been removed and archived from its inventory of CERCLA sites.	0.5	1
RCRA CORRACTS/ TSD	The EPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous materials that are undergoing "corrective action". A "corrective action" order is issued when there has been a release of hazardous waste or constituents into the environment from a RCRA facility.	1.0	0
RCRA Non- CORRACTS/ TSD	The RCRA Non-CORRACTS/TSD Database is a compilation by the EPA of facilities that report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.	0.5	0
RCRA Generators	The Resource Conservation and Recovery Act (RCRA) Generators database maintained by the EPA, lists facilities that generate hazardous waste as part of their normal business practices. Generators are listed as large, small, or conditionally exempt. Large quantity generators (LQG) produce at least 1,000 kg/month of non-acutely hazardous waste or 1 kg/month of acutely hazardous waste. Small quantity generators (SQG) produce 100-1,000 kg/month of non-acutely hazardous waste. Conditionally exempt small quantity generators (CESQG) are those that generate less than 100 kg/month of non-acutely hazardous waste. This listing includes facilities that are no longer generating RCRA hazardous waste (NonGen).	0.1	4
US Eng Controls	The EPA maintains a listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.	Site	0
US Inst Controls	The EPA maintains a listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.	Site	0
ERNS	The Emergency Response Notification System (ERNS) is a listing compiled by the EPA on reported releases of petroleum and hazardous substances to the air, soil and/or water.	Site	0

#### **TABLE 2: FEDERAL AND STATE DATABASES**

DATABASE	DESCRIPTION	RADIUS (MILES)	FACILITIES
	STATE		
SPL	NMED maintains a database of state equivalent national priority list (SPL) facilities in the State of New Mexico.	1.0	0
SCS	NMED maintains a database of state equivalent CERCLIS State Cleanup Site (SCS) facilities in the State of New Mexico.	0.5	0
SWF	NMED maintains a database of Solid Waste Facilities located within the State of New Mexico. The database information may include the facility name, class, operation type, area, estimated operational life, and owner.	0.5	0
LUST	NMED provides a computer-generated database of the leaking petroleum storage tanks in the State of New Mexico. The EPA maintains a listing of leaking underground storage tank locations on Indian Land.	1.0	3
UST/AST	NMED has compiled a database of registered petroleum storage tanks in the State of New Mexico, which may include the owner and location of the USTs and includes registered Above-ground Storage Tanks (ASTs).	0.25	3
Inst. Control	NMED maintains a list of sites included in the Voluntary Cleanup listing that have Institutional Controls in place.	Site	0
VCP	NMED maintains a list of sites involved in the Voluntary Cleanup Program.	0.5	0

The regulatory review identified one NPL, one CERCLIS, four RCRA generators, three LUST, and three UST regulated facilities within the specified search radii.

#### 4.1.1 Listed Facilities

Table 3 summarizes the site-specific information provided by the database and/or gathered by Zia for facilities identified on federal, state and tribal databases within the indicated search areas. Additional discussion for selected facilities may follow the summary table.

FACILITY NAME AND LOCATION	ESTIMATED DISTANCE/ DIRECTION/ TOPOGRAPHIC POSITION	DATABASE LISTING
Turner Ford 1600 Lomas Boulevard	adjacent north / down gradient	RCRA Non-Gen
Lobo 66 1723 Lomas Boulevard	0.09 miles / northeast / down gradient	UST
Galles Chevrolet 1601 Lomas Boulevard	0.10 miles / north / down gradient	UST, LUST, RCRA
Quality Pontiac (aka Galles Used Vehicles) 1300 Lomas Boulevard	0.12 miles/ northwest / down gradient	UST, LUST, RCRA Non-Gen*

#### TABLE 3: LISTED FACILITIES

FACILITY NAME AND LOCATION	ESTIMATED DISTANCE/ DIRECTION/ TOPOGRAPHIC POSITION	DATABASE LISTING
Melloy Dodge Big I 1200 Lomas Boulevard	0.20 miles / northwest / down gradient	RCRA
Ford Utility Building 300 University Boulevard	0.39 miles / southeast / up gradient	LUST
Fruit Avenue Plume Fruit Avenue	0.4 miles / west / down gradient	NPL, CERCLS

\*Regulatory database listings are located outside of the specified search radii.

The regulated sites discussed below were found to be located within a distance of 0.12 mile (650) feet of the subject property and/ or were considered to pose a potential environmental risk to the subject site. Based on distance, gradient direction and/or current regulatory status, the other sites listed above do not appear to present a REC relative to the subject site at this time.

#### Turner Ford (RCRA Non-Gen)

The former Bob Turner Ford facility is located adjacent to the north side and topographically down-gradient relative to the subject property. This facility is listed as no longer generating RCRA hazardous wastes (ignitable, non-halogenated solvents). This facility is no longer in business and the building has been demolished. UNM has acquired the former Turner Ford property and it is currently utilized as a parking lot.

• Based on the current regulatory status, the former Turner Ford RCRA generator status is not considered to present a REC relative to the subject property at this time.

#### Lobo 66 (UST)

Lobo 66 is located approximately 0.09 miles northeast and topographically down-gradient relative to the subject property. According to the regulatory database, three USTs are in use at this facility. No releases have been reported. This facility was not observed during the area reconnaissance.

• Based on the current regulatory status, distance, and depth to groundwater, the USTs at Lobo 66 are not considered to present a REC relative to the subject property at this time.

#### Galles Chevrolet (RCRA Gen, UST, LUST)

Galles Chevrolet is located approximately 0.10 mile north and topographically down-gradient relative to the subject property. According to the regulatory database, Galles Chevrolet is listed as a RCRA SQG facility (ignitable). No RCRA permit violations are listed for Galles Chevrolet and a compliance inspection was performed in October 2004. The NMED Petroleum Storage Tank Bureau (PSTB) file indicates that 12 USTs have been removed from this facility and one 10,000-gallon gasoline UST remains in use. Three USTs were removed in July 1990 and soil contamination was indicated to approximately 8 ft. below grade at each of the USTs. Contaminated soils were removed and soil sampling to 12 ft. indicated only minor contamination remained. Five USTs were removed in December 1994 and soil contamination was indicated.

Twelve soil borings were drilled in January 1995 to a maximum depth of 92 ft. bgs. The maximum contamination indicated was 120 mg/kg at 20 ft. below grade in the vicinity of a waste oil UST that had been removed. Groundwater was not impacted and this case is listed as requiring no further action (NFA) at this time.

• Based on the current regulatory status and depth to groundwater, Galles Chevrolet facility does not appear to constitute a REC in connection with the site at this time.

#### Quality Pontiac (aka Galles Used Vehicles) (RCRA Non-Gen, UST, LUST)

The former Quality Pontiac is located approximately 0.12 mile northwest of the subject property and is currently owned by the Sandia Foundation. Both Quality Pontiac and Galles Used Vehicles have been located at this address. Both businesses are no longer at this location and the property is currently a large parking lot. Galles Used Vehicles was listed as a CESQG of RCRA hazardous wastes (ignitable, benzene, methyl ethyl ketone, and non-halogenated solvents). No RCRA permit violations are listed for Galles Used Vehicles.

As Quality Pontiac, a 1,000-gallon used oil UST and an 8,000-gallon unleaded gasoline UST were installed in September 1987. Both USTs were removed in January 1999 and contaminated soils were identified. Groundwater was impacted, 11 monitoring wells were installed, and long-term monitoring is being performed. The most recent round of sampling was performed in December 2003. The depth to a perched water table varies between 102 and 114 ft. bgs. A clay aquitard appears to have limited contaminant migration to the west. The maximum benzene, toluene, ethylbenzene, and xylene concentrations detected in December 2003 were 1,083 µg/l. Methyl tertiary butyl ether (MTBE) was also detected in groundwater samples. Naphthalene (a common diesel fuel constituent), dichloroethane (EDC), and ethylene dibromide (EDB) exceeded the New Mexico Water Quality Control Commission standards for groundwater. Groundwater appears to be flowing to the northeast, cross gradient relative to the subject site. According to the Envirosite database, this case remains in a long-term clean-up phase.

Galles Used Vehicles is listed as a conditionally exempt small quantity generator of RCRA hazardous wastes (ignitable, benzene, methyl ethyl ketone, trichloroethylene, and non-halogenated solvents). A compliance inspection was performed in October 2004 and no RCRA permit violations were reported.

• Based on the current regulatory status and depth to groundwater, Galles Used Vehicles and Quality Pontiac facilities do not appear to constitute a REC in connection with the site at this time.

#### 4.1.2 Unmapped Facilities

Unmapped facilities are those that do not contain sufficient address or location information to evaluate the facility listing locations relative to the site. The Envirosite database listed three facilities in the unmapped/orphan summary section. Zia reviewed the unmapped facilities section and did not locate the orphan sites within the specified search radii. These facilities are listed in the Envirosite report in Appendix D.

# 4.2 ADDITIONAL ENVIRONMENTAL RECORD SOURCES

Zia requested that local fire department and transformer records be reviewed (please reference sections 6.2 and 6.3). No other additional environmental record sources were reviewed.

# 4.3 PHYSICAL SETTING SOURCES

PHYSICAL SETTING IN	SOURCE		
	TOPOGRAPHY	1	
Site Elevation	Approximately 5,125 feet above mean sea level (amsl)	Albuquerque West, NM 7.5- minute USGS topographic map, dated 2013;	
Surface Runoff/ Topographic Gradient	Regional – northerly. The site is on a ridge that slopes to the north and east		
Closest Surface Water	AMAFCA North Diversion Channel (0.19 mile northeast)	Site visit May 22, 2015	
	FEMA MAP		
Zone/ Description:	Unshaded Zone X is defined as areas in which flood hazards are undetermined but possible.	FEMA Agency Flood Insurance Rate map, Community Panel Number FEMA Panel 35001C0334G, dated 09/26/2008	
	SOIL CHARACTERISTICS		
Soil Type/ Soil Description:	Cut and fill (Cu) with slopes between 1% and 25%. Cut and fill soil consists of sandy loam and very gravelly sand that has been mixed for filling in new developments. No estimates are made for permeability, pH, or corrosion for cut and fill areas because this soil is too variable.	Natural Resources Conservation Service (NRCS) Web Soil Survey accessed 06/11/2015	
	GEOLOGY/HYDROGEOLOGY		
Formation(s) / Description:	Quaternary alluvium (Qt): The subject property is located on the alluvial slope that extends westerly from the Sandia Mountains to the Rio Grande. The Rio Grande Valley formed as part of an interconnected series of north-south aligned grabens and structural basins that subsided between uplifts, comprising the Rio Grande Rift system. The piedmont surface consists of a series of coalescing alluvial fans deposited unconformably over the Santa Fe Group. The recent alluvium ranges in thickness from 0 to 200 ft. The Santa Fe Group consists of layers of unconsolidated to loosely-consolidated sediments locally interbedded with volcanic rocks.	Bjorklund and Maxwell, <u>Availability of Ground Water in</u> <u>the Albuquerque Area,</u> <u>Socorro and Sandoval</u> <u>Counties, New Mexico</u> ; 1961	

#### TABLE 4: PHYSICAL SETTINGS

PHYSICAL SETTING IN	SOURCE	
Estimated Depth to Ground water*:	Approximately 130 ft. bgs	New Mexico Office of the State Engineer Website ( <u>http://nmwrrs.ose.state.nm.us</u> / <u>nmwrrs/waterColumn.html</u> ), accessed 06/11/2015.
Primary Aquifer	Rio Grande Basin, upper facies of the Santa Fe Group	Bjorklund and Maxwell, <u>Availability of Ground Water in</u> <u>the Albuquerque Area,</u> <u>Socorro and Sandoval</u> <u>Counties, New Mexico</u> ; 1961
*Hydrogeologic Gradient:	Easterly toward municipal well fields	AGIS Map of Groundwater Contours; 2000
Site Water Source	City of Albuquerque	Site visit 05/22/2015
	RADON	
Zone/ Description	EPA Zone 1: predicted average indoor radon screening levels greater than 4.0 pCi/L. The NMED radon survey indicates that 20 radon measurements were collected within the 87106 zip code area. 95 radon measurements (95%) were below 4 pCi/L. One radon measurement was between 4 pCi/L and 10 pCi/L.	EPA Data information; accessed 06/11/2015 NMED <u>New Mexico Radon</u> <u>Survey 1987-1989</u> .

\*The ground water flow direction and the depth to shallow ground water, if present, would likely vary depending upon seasonal variations in rainfall and the depth to the soil/bedrock interface. Ground water flow direction is generally inferred to follow surface topography.

Radon levels appear to be low in the zip code area of the subject property. Radon data was collected for the subject property (Section 7.3).

## 4.4 HISTORICAL USE INFORMATION

Review of historical use information helps identify obvious uses of the site back to at least 1934 or prior to site development, whichever is earlier, by reviewing one or more "standard historical sources." Documentation of historical sources, as available, is included in Appendix C.

#### 4.4.1 Historical Topographic Maps

Zia reviewed readily available USGS historical topographic maps to identify RECs in connection with the site. Selected historical topographic maps are summarized in Table 5.

• USGS Topographic Map: Albuquerque West, New Mexico; 1934, 1954, 1960, 1967, 1972, 1990, 2010, and 2013.

DIRECTION	DESCRIPTION
	Undeveloped (1934, 1954, 1960);
Site	Depicted by shading as a well-developed urban area (1990);
	Developed with the existing building (1965, 1972, 2010, 2013).
	Undeveloped (1934 and 1954);
North	Developed with a large building (Turner Ford) (1960, 1967, 1972);
North	Depicted by shading as a well-developed urban area (1990);
	Developed as a large parking lot (2010, 2013).
West	Undeveloped (1934, 1954, 1960, 1967, 1972, 1990, 2010, and 2013).
	Undeveloped (1934, 1954, 1960);
South	Depicted by shading as a well-developed urban area (1990);
	Developed (1967, 1972, 2010, 2013).
	Undeveloped (1934);
East	Depicted by shading as a well-developed urban area (1990);
	Developed with multiple buildings (1954, 1960, 1967, 1972, 2010, 2013).

#### **TABLE 5: HISTORICAL TOPOGRAPHIC MAPS**

#### Turner Ford

The former Turner Ford facility is identified as a RCRA non-generator facility and was discussed previously in Section 4.1.1.

#### 4.4.2 Historical Aerial Photographs

Selected historical aerial photographs were reviewed at approximate 10 to 15 year intervals, if readily available, to identify RECs in connection with the site. A photo's quality and scale may limit evaluation of these aerials. Selected photographs are summarized in Table 6.

- UNM EDAC Aerial Photograph Collection: Albuquerque, NM: 1951, 1954, 1959, 1964, 1967, 1973, and 1982.
- Albuquerque Geographic Information System (AGIS): 1961, 1996, 1999, 2001, 2002, 2004, 2006, 2008, 2010, 2012, and 2014.
- Google Earth<sup>™</sup>: 1991.

DIRECTION	DESCRIPTION
Site	Undeveloped (1951, 1954, 1959, 1961, 1964); Developed with the sorority house (1967, 1973, 1982, 1996, 1999, 2001, 2002,
North	Undeveloped (1951, 1954); Developed with commercial building ( <b>Turner Ford</b> ) (1959, 1961, 1964, 1967, 1973, 1982, 1991, 1996, 1999, 2001, 2002, 2004, 2006); Developed with a parking lot (2008, 2010, 2012, 2014).
West	Undeveloped (1951, 1954, 1959, 1961, 1964, 1967, 1973, 1982, 1991, 1996, 1999, 2001, 2002, 2004, 2006, 2008, 2010, 2012, 2014).

#### **TABLE 6: HISTORICAL AERIAL PHOTOGRAPHS**

DIRECTION	DESCRIPTION
South	Undeveloped and residences farther south (1951, 1954, 1959, 1961, 1964); Developed with a sorority house (1967, 1973, 1982, 1991, 1996, 1999, 2001, 2002, 2004, 2006
East	Developed with UNM buildings (1951, 1954, 1959, 1961, 1964, 1967, 1973, 1982, 1991, 1996, 1999, 2001, 2002, 2004, 2006, 2008, 2010, 2012, 2014).

#### Turner Ford

The former Turner Ford facility is identified as a RCRA non-generator facility and was discussed previously in Section 4.1.1 and noted in Section 4.4.1.

#### 4.4.3 Historical City Directories

The Polk and Hudspeth city directories used in this study were made available through the Albuquerque Main Library and were reviewed at approximately 10 year intervals. Listings for the area of the subject site were not available prior to 1990. Since these references are copyright protected, reproductions are not provided in this report. Street listing for the site were not available. Selected city directories are summarized in Table 7.

- Albuquerque, New Mexico Hudspeth City Directories reviewed: 1950, 1960, 1970;
- Albuquerque, New Mexico Polk City Directories reviewed: 1980, 1990, 2000, 2010.

DIRECTION	DESCRIPTION
Site	<b>1635 Mesa Vista Road</b> : no listing (1950, 1960, 1970, 1980, 1990); Alpha Chi Omega (2000, 2010).
North	<b>1600 Lomas Boulevard</b> : no listing (1950, 2010); Frontier Ford (1960, 1970, 1980); <b>Bob Turner Ford</b> (1990, 2000).
West	<b>1611 Mesa Vista Road</b> : no listing (1950, 1960, 19790, 1980, 1990, 2000, 2010).
South	<b>1620 Mesa Vista Road</b> : no listing 1950, 1960, 19790, 1980, 1990); Kappa Kappa Gamma (2000, 2010).
East	<b>1701 Mesa Vista Road</b> : Pi Beta Phi (1950, 1960, 19790, 1980, 1990, 2000, 2010).

#### **TABLE 7: HISTORICAL CITY DIRECTORIES**

#### Bob Turner Ford

The former Turner Ford facility is identified as a RCRA non-generator facility and was discussed previously in Section 4.1.1 and noted in sections 4.4.1 and 4.4.2.

#### 4.4.4 Historical Fire Insurance Maps

In the late nineteenth century, the Sanborn Company began preparing maps of central business districts for use by fire insurance companies. These maps were updated and expanded geographically periodically through the twentieth century. The Sanborn maps often indicate construction materials of specific building structures and the location of storage tanks.

Historical fire insurance maps were reviewed at the UNM Map and Geographic Information Center (MAGIC). The Sanborn maps do not cover the subject property.

#### 4.4.5 Title and Other Property Records

Ms. Julie Brasil, UNM Real Estate, provided that UNM purchased the subject property from the Sandia Foundation on October 30, 1998. No additional title or property records were provided for review.

#### 4.4.6 Permit and Other Certificates

Zia did not locate any business permits for the subject property.

#### 4.4.7 Prior Report Review

Ms. Jennifer Vasquez, AXO National Housing Corporation field representative, stated that no previous environmental assessments have been performed; therefore no environmental reports were provided for review.

# **5** SITE RECONNAISSANCE

### 5.1 METHODOLOGY AND LIMITING CONDITIONS

Information contained in this section is based on a visual reconnaissance conducted while walking through the site and the accessible interior areas of structures, if any, located on the site. A summary of information obtained from interviews and other references presented in the following subsections are also provided.

### 5.2 GENERAL SITE SETTING

GENERAL SITE	DESCRIPTION				
	SITE RECONNAISSANCE				
Field Personnel	Kenneth Hunter				
Reconnaissance Date	May 22, 2015				
Weather         Cloudy, approximately 65 °F					
Site Contact/Title	Mr. Joseph Werntz, Esquire, Moses, Dunn, Farmer & Tuthill, P.C. Ms. Jennifer Vasquez, AXO National Housing Corporation field representative				
	SITE DESCRIPTION				
Site Name	Alpha Chi Omega sorority house				
Site Location/Address	1635 Mesa Vista Road NE, Albuquerque, Bernalillo County, New Mexico				
Adjoining Streets	Mesa Vista Road (south), University Boulevard (east)				

#### **TABLE 8: GENERAL SITE INFORMATION**

GENERAL SITE	DESCRIPTION					
	LAND AREA DESCRIPTION					
Land Area	Land Area Approximately 0.75 acres					
Other Site Improvements	Three-story sorority house with basement. Associated parking, utilities and commercial landscaping.					
Zoning	SU-1, a special use designation					
	IN-USE SITE UTILITIES					
Electricity	Public Service Company of New Mexico					
Drinking Water	City of Albuquerque					
Wastewater	City of Albuquerque					
Natural Gas	New Mexico Gas Company					
Solid Waste	City of Albuquerque (none at the time of the site visit)					

The Alpha Chi Omega Sorority House is an approximate 18,600 square foot building. The ground floor (approximately 6,800 square feet) contains a kitchen, common rooms, bedrooms, and a large entry and common area. The second and third floors (approximately 4,700 square feet each) each contain 14 bedrooms, an office, and a large common restroom with showers. The basement (approximately 2,400 square feet) contains storage areas, a laundry room, a restroom, a common room, and two mechanical/boiler rooms.

Exterior walls are covered with stucco. Interior walls are covered with wood and sheetrock. The floors are concrete covered with wood, carpet, and 9-inch by 9-inch vinyl tile. The ceilings are covered with textured sheetrock and with 1-foot by 1-foot glue-on ceiling panels. The flat roof is covered with a TPO membrane.

### **5.3 SUMMARY OF OBSERVATIONS**

Table 9 summarizes interior and exterior site observations and interviews. Affirmative responses (designated by an "X") are discussed in more detail in the subsections following the table.

CATEGORY	ITEM OR FEATURE	ITEM OR FEATURE OBSERVED
	Emergency generators	
Site Operations, Processes and	Elevators	
Equipment	Air compressors	
	Hydraulic lifts	
	Evidence of aboveground storage tanks	
Aboveground Chemical	Drums, barrels and/or containers > 5 gallons	
or Waste Storage	Chemicals $\leq$ 5 gallons, cleaning and or similar supplies	X
	SDS	

#### TABLE 9: SITE CHARACTERISTICS

CATEGORY	ITEM OR FEATURE	ITEM OR FEATURE OBSERVED
	Evidence of underground storage tanks or ancillary UST equipment	
	Sumps, cisterns, catch basins and/or dry wells	
Underground Chemical	Grease traps	X
or Waste Storage, Drainage or Collection	Septic tanks and/or leach fields	
Systems	Oil/water separators	
	Pipeline markers	
	Interior floor drains	X
Electrical Transformers/	Pad- or pole-mounted transformers	X
PCBs	Generators	
	Stressed vegetation	
	Stained soil	
	Stained pavement or similar surface	
	Trash, debris and/or other waste materials	
	Dumping or disposal areas	
Evidence of Releases	Construction/demolition debris and/or dumped fill dirt	
or Potential Releases	Surface water discoloration, odor, sheen, and/ or free floating product	
	Strong, pungent or noxious odors	
	Exterior pipe discharges and/or other effluent discharges	
	Laboratory hoods and/or incinerators	
	Waste treatment systems and/or water treatment systems	
	Compressor blowdown	
	Surface water bodies	
Other Notable Site Features	Quarries or pits	
1 04(4)00	Wells	

Those entries above in bold and designated by an "X" indicate that the Item or Feature was observed during the site visit. These are discussed in more detail below. If no "X" designation appears above, then the Item or Feature was not observed on the date of the site visit. No visual evidence of the historical UST at the subject property was observed during the site visit.

#### 5.3.1 Aboveground Chemical or Waste Storage

#### <u>Chemicals ≤ 5 gallons, cleaning and/ or similar supplies</u>

Approximately 100 gallons of paints, thinners, adhesives, and other maintenance compounds are stored in two wooden cabinets in the west boiler room in the basement. One 5-gallon plastic container of Sani-3000 automatic dishwashing liquid was observed outside on the north side of the building. An Ansul R102 fire suppression system was observed adjacent to the stove in the kitchen. The contents appeared to be in their originally containers and properly labeled. No spills were observed.

Mop floor sinks were observed in the two custodial closets. However, there were no cleaning compounds in the custodial closets since the building is unoccupied. Safety Data Sheets (SDS) were not found on-site for the maintenance compounds.

• Based on the above information, the maintenance compounds and/ or similar supplies observed do not appear to constitute a REC at this time.

#### 5.3.2 Underground Chemical or Waste Storage, Drainage or Collection Systems

#### Grease Trap

A possible grease trap is located in the parking lot on the north side of the building. Mr. Werntz was uncertain whether it was a grease trap or not. The grease trap would be connected to the kitchen drains, and no issues have been reported.

• Based on the above information, the possible grease trap does not appear to constitute a REC at this time.

#### Interior floor drains

Interior floor drains were observed in the kitchen, custodial closets, east boiler room in the basement, and in the restrooms. Evidence of staining or other releases to the floor drains were not observed during the site reconnaissance.

• Based on the above information, the interior floor drains do not appear to constitute a REC at this time.

#### 5.3.3 Electrical Transformers/PCBs

#### Pad-or pole-mounted transformers

One Public Service Company of New Mexico (PNM) pad-mount transformer (Station No. 11904) was observed on the north side of the building. The 75 KVA pad-mounted transformer does not have bollards to protect it from vehicular damage. No visual evidence of a release was observed around the transformer.

Mr. Scott Dickson at PNM Environmental Resources was contacted by email on June 9, 2015. Mr. Dickson stated that the transformer was manufactured by Westinghouse and was installed at the subject property in 2007. Mr. Dickson stated that the transformer is non-PCB.

- Based on the above information, the on-site electrical transformer does not appear to constitute a REC at this time.
- Zia recommends that the property owner should coordinate with PNM to evaluate whether concrete-filled bollards should be placed around the transformer.

### 5.4 ADJOINING/SURROUNDING PROPERTY RECONNAISSANCE

Visual observations of adjoining/surrounding properties (from site boundaries and readily accessible public areas) are summarized in Table 10.

DIRECTION	DESCRIPTION			
North	UNM parking lot, Lomas Boulevard, Galles Chevrolet			
East	University Boulevard, UNM Speech & Hearing, UNM Perovich Business Center, Pi Beta Phi, and other UNM buildings			
South	Mesa Vista Road, Kappa Kappa Gamma sorority house, and single-family residences			
West	Undeveloped parcels, UNM Outpatient Rehabilitation Services, Samaritan Counseling Center, UNM Heart & Vascular Center, and Medical Arts			

#### TABLE 10: ADJOINING/SURROUNDING PROPERTIES

#### Galles Chevrolet

Galles Chevrolet is a LUST/UST/RCRA Gen site that was discussed previously in Section 4.1.1.

# **6** INTERVIEWS

The following individuals were interviewed regarding the history, and/ or presence or absence of the items or features listed in Section 5.3. Unless otherwise noted herein, the interviewee was not aware of environmental concerns associated with the site or surrounding areas.

### 6.1 OWNER/SITE MANAGER/OCCUPANTS

#### Joseph Werntz, Moses, Dunn, Farmer & Tuthill, P.C.

Mr. Joseph Werntz arranged for access to the property and provided information regarding the history of the subject property. He stated that he was unaware of any previous asbestos, lead-based paint (LBP), or radon surveys at the subject property. He had no information regarding any potential concerns with the subject property. Mr. Werntz indicated that the subject property had been unoccupied for two years.

#### Jennifer Vasquez, AXO National Housing Corporation field representative

Ms. Jennifer Vasquez stated that the subject property has been unoccupied for approximately two years. She stated that she was aware of no environmental concerns. Ms. Vasquez indicated that the TPO membrane on the roof was relatively new and that the exterior stucco was only a few years old.

### 6.2 LOCAL GOVERNMENT OFFICIALS

#### Daniel French, City of Albuquerque Fire Department

Lt. Daniel French at the City of Albuquerque Fire Department was contacted via email on May 26, 2015. Lt. French stated that the Fire Department has no record of a HazMat response at the subject property.

# 6.3 OTHER

#### Julie Brasil, Real Estate Associate III, Dept. of Real Estate, UNM

Ms. Julie Brasil, Real Estate Associate III with the Department of Real Estate at UNM completed the User Questionnaire and her responses were previously discussed in Section 3.0. Ms. Brasil stated that UNM purchased the land from Sandia Foundation on October 30, 1998.

#### Scott Dickson, PNM Environmental Services

Zia contacted Mr. Dickson via email on June 9, 2015, for information regarding the pad-mount transformer located outside the north side of the building. Mr. Dickson stated that the transformer was manufactured by Westinghouse in 2007 and that the transformer is "Non-PCB".

# 7 ADDITIONAL SERVICES AND DEVIATIONS

Per the agreed-on scope of services specified in the proposal and via email, additional services consisted of limited surveys for asbestos, lead-based paint, mold spores, and radon. Other Phase II assessment (e.g., wetlands evaluation, lead in drinking water, etc.) were not conducted under this scope of work.

### 7.1 LIMITED ASBESTOS SURVEY

Zia was on-site May 22 and 26, 2015, to collect 36 representative samples of bulk building materials and have them analyzed for asbestos fibers. The limited asbestos sampling of readily accessible, interior and exterior areas of the subject property was conducted in general conformance with the protocols established by Environmental Protection Agency (EPA) regulation 40 CFR 763 (Asbestos Containing Materials [ACMs] in Schools, Subpart E) and the agreed-on scope of services specified in the proposal. Mr. Kenneth Hunter, an Asbestos Hazard Emergency Response Act (AHERA)-accredited Building Inspector conducted the survey

#### 7.1.1 Asbestos Background

U.S. EPA and Occupational Safety and Health Administration (OSHA) define "asbestos" as naturally occurring minerals that include chrysotile, amosite, crocidolite, tremolite, anthophyllite, actinolite, and any of those minerals that have been chemically treated and/or altered. These fibrous silicate minerals were added to building materials for their thermal insulation, chemical stability, and high tensile strength properties. Asbestos minerals were added to cement pipes, brake linings, duct insulation, flooring, mastic, gaskets, spray-applied textures, blown-in insulation, wiring insulation, taping compounds, packing materials, roofing shingles, roofing felt, ceiling panels and more than 3,000 other building products between 1877 and the 1980s. Chrysotile was the most commonly used asbestos mineral in the United States.

Exposure to asbestos fibers became associated with asbestosis, lung cancer, and mesothelioma. Subsequently, commercial manufacturers started phasing out the use of asbestos in the 1970s. Under the Clean Air Act, the National Emissions Standards for

Hazardous Air Pollutants (NESHAP) banned the use of spray-applied surfacing ACBMs in 1973 (fireproofing and insulation) and 1978 (decorative). NESHAP also banned the installation of wetapplied and pre-formed asbestos pipe thermal system insulation (TSI) in 1975.

EPA issued AHERA in March 1986 and the Asbestos Containing Materials (ACM) in School regulations in October 1987. AHERA requires local education agencies to identify ACM in school buildings and to take appropriate actions to control the potential release of asbestos fibers. AHERA emphasizes sampling interior and friable building materials.

EPA attempted to ban most uses of ACBMs in 1989; however, portions of the "Asbestos Ban and Phaseout" rule were vacated by a court ruling in 1991, leaving only six additional asbestoscontaining product categories (corrugated paper, rollboard, commercial paper, specialty paper, flooring felt and new uses of asbestos) banned from application in the United States. The Consumer Product Safety Commission (CPSC) banned the use of asbestos in textured paint and wall patching compounds. However, other asbestos-containing products (roofing tars, floor tiles, friction materials, pipe, gaskets, pipeline wrap, etc.) were not banned. Even though not all uses of asbestos were banned by the various regulations, most industrial manufacturers have voluntarily stopped using asbestos products because of potential liabilities. The EPA classifies asbestos-containing building materials (ACBMs) into the following categories:

- <u>Friable ACM</u>: any material containing more than one percent (1%) asbestos by weight that when dry can be crumbled, pulverized, or reduced to powder by hand pressure.
- <u>Category I non-friable ACM</u>: packings, gaskets, resilient floor covering, and asphalt roofing products containing more than 1% asbestos.
- <u>Category II non-friable ACM</u>: any material excluding Category I non-friable ACBM containing more than 1% asbestos that when dry cannot be crumbled, pulverized, or reduced to powder by hand pressure.
- <u>Regulated Asbestos Containing Material</u>: (RACM) means (a) Friable asbestos material;
   (b) Category I non-friable ACBM that has become friable; (c) Category I non-friable ACBM that will be or has been subjected to sanding, grinding, cutting, or abrading; or (d) Category II non-friable ACBM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

Generally, when asbestos fibers were mixed into a building material matrix prior to application, the fibers were not distributed homogeneously throughout the material. Therefore, one sample of the material may have a high asbestos content while asbestos may not be detected in a second sample of the same material. Subsequently, multiple samples of interior friable building materials are often collected and analyzed. AHERA regulations for schools recommend the number of samples that should be collected for interior friable building materials. The regulations do not specify the number of samples to collect at a non-school property, but the AHERA recommendations may be used as general sampling guidelines. The limited asbestos survey that was performed was not AHERA level, but was a preliminary survey to assess a general potential for ACBMs to be present.

NESHAP regulations (Title 40 of the Code of Federal Regulations (CFR), Part 61) also provide air-quality guidelines during demolition and renovation projects at a commercial or government building. NESHAP specifies "thorough" sampling should be performed prior to a building renovation or demolition. Friable ACBMs must be abated prior to demolition or renovation activities that would potentially disturb ACBMs.

OSHA regulates removal practices and employee exposures to ACBMs pursuant to 29 CFR 1926.1101. The NMED Solid Waste Bureau (SWB) regulations specify that ACBM wastes generated as a function of building demolition or renovation must be disposed at a Special Wastes Landfill. The New Mexico disposal regulations do not differentiate between friable and non-friable ACBMs (more than 1% asbestos).

#### 7.1.2 Visual and Physical Assessment

Zia accessed and sampled the structure on May 22 and 26, 2015. Non-friable (sheetrock, adhesives, etc.) and friable (texture, taping mud, etc.) interior and exterior materials were sampled. Duplicate samples were collected for quality assurance/quality control (QA/QC) purposes. The building materials were categorized by homogeneous area and assessed for damage and a potential for exposure. Most materials were in good condition. The exterior stucco was damaged. The current potential for exposure is considered minor since the building is unoccupied.

#### 7.1.3 Sample Collection

Samples of suspect ACM were collected from accessible homogeneous areas at the subject property. Approximate interior and exterior sample locations are indicated on Figures A-3 through A-7.

Zia personnel collected bulk samples using wet methods, as applicable, to reduce the potential for fiber or dust release. Appropriate tools were used to minimize the potential destruction of building materials. Sampling tools were wet wiped prior to sample collection to reduce the potential for cross-contamination. The samples were placed in sealable plastic bags and labeled with a unique sample identification number (23A1 through 23A36) using an indelible marker.

Based on the results of the visual and physical assessments, 24 suspect materials (Table 11) were noted and 36 bulk samples were collected for laboratory analysis. Several samples contained more than one building material, resulting in 56 laboratory analyses.

Zia documented the location, condition, and quantity of identified suspect ACMs identified during the visual reconnaissance. Some roofing edge sealant tar was visible along the edges of the roof membrane (adjacent to a drain spout and around the roof access hatch) so the edge sealant tar was sampled. Per agreement with UNM, the roof membrane was not penetrated.

MATERIAL SAMPLED	Roof	BASEMENT	Exterior	ROOMS AND COMMON AREAS	TOTAL ANALYSES
Roofing edge sealant tar	2	0	0	0	2
Chimney brick	1	0	0	0	1
Chimney cement	1	0	0	0	1
Chimney caulk	1	0	0	0	1
Exterior stucco	0	0	1	0	1
Exterior stucco paint	0	0	1	0	1
9 in. x 9 in. vinyl tile	0	2	0	3	5
mastic		1		3	4
12 in. x 12 in. vinyl tile with mastic	0	1	0	0	1
Cove base adhesive	0	1	0	1	2
Wall sheetrock,	0	1	0	2	3
Texture,		1		2	3
Mud		3		3	6
TSI lagging	0	2	0	0	2
TSI hard joint	0	3	0	0	3
Duct canvas/insulation	0	3	0	0	3
Boiler insulation	0	1	0	0	1
Duct insulation	0	1	0	0	1
Ceiling sheetrock	0	1	0	3	4
Texture		1		2	3
Mud		1		2	3
Ceiling 1 ft. x 1 ft. glue-on panel	0	0	0	1	1
Ceiling panel mastic	0	0	0	2	2
Ceramic tile adhesive	0	0	0	1	1

#### TABLE 11: ANALYSIS OF SUSPECTED MATERIALS BY BUILDING AREA

Although reasonable effort was made to survey accessible suspect materials, additional suspect but unsampled materials could be located in gaskets and packings, within mechanical equipment, in walls, beneath surface layers, in crawlspaces and voids, or in other concealed or confined and inaccessible areas. If suspect materials, such as gasket material in the boilers, are encountered in the future they should be assumed to be asbestos-containing until appropriate sampling and analysis indicate otherwise.

#### 7.1.4 Sample Analyses

Bulk samples were submitted to Batta Laboratories, Inc. (Batta) in Newark, Delaware, with completed chain-of-custody forms for analysis by visual estimate using polarized light microscopy (PLM) with dispersion staining (EPA Test Method 600/R-93/116). Batta is a National Voluntary Laboratory Accreditation Program (NVLAP Lab Code: 101032) and an AIHA Laboratory Accreditation Programs (AIHA-LAP, LLC No. 100448) laboratory. Samples were analyzed using the interim polarized light microscopy (PLM) method with a 5-day turnaround time for sample analysis.

The EPA regulatory limit for a determination that a material is asbestos containing is greater than 1% by weight. Laboratory reports and chain-of-custody forms are included in Appendix F.

#### 7.1.5 Findings

Based on the results of the visual and physical assessments mentioned above, four functional spaces (basement, roof, exterior, and interior rooms and common areas) and 24 homogeneous building materials were noted during the site reconnaissance and 36 bulk samples were collected. Several samples contained more than one building matrix, resulting in 56 laboratory analyses. Sampling results are summarized in Table 12 (bolded text indicates that the sample is confirmed asbestos-containing).

Sample No.	MATERIAL SAMPLED SAMPLE LOCATION		FRIABLE (YES/ NO)	ASBESTOS Containing (YES/ No)
23A1	Roof sealant tar around a vent drain	Southwest corner	No	Yes
23A2	Roof sealant tar around access hatch	West side	No	Yes
23A3	Roof chimney brick	North-central	No	No
23A4	Roof chimney cement	North-central	No	No
23A5	Roof chimney grout	North-central	No	No
2346	Stucco	North wall west courtward	Yes	No
2340	Paint	North wall, west courtyard	Yes	No
23A7	Ceiling tile mastic	Ground floor common room	No	No
23A8	1 ft.x 1 ft. ceiling tile	Ground floor common room	Yes	No
23A9	Ceiling sheetrock	Ground floor common room	No	No
23A10	Ceiling tile mastic (duplicate of 23A7)	Ground floor common room	No	No
23A11	Cove base adhesive	Basement, northwest corner of hallway	No	No
	Wall sheetrock	Basement, northwest corner of hallway	No	No
23A12	Texture		Yes	No (<1%)
	Taping mud		Yes	No
23A13	9 in. x 9 in. floor tile	Basement, loose, on shelves	No	Yes
23A14	TSI pipe lagging	Basement, west boiler room	Yes	No
23A15	Boiler insulation	Basement, west boiler room	Yes	No
	Ceiling sheetrock	Basement north portion of west	No	No
23A16	Texture		Yes	No (<1%)
	Taping mud		Yes	No
23A17	TSI hard elbow	Basement, east boiler room	Yes	Yes
23A18	TSI pipe lagging	Basement, east boiler room	Yes	No
23A19	Duct canvas	Basement, east boiler room	No	No
	Insulation	Basement, east boiler room	Yes	No
23A20	Duct canvas	Basement, east boiler room	No	No
	Insulation		Yes	No
23A21	TSI hard elbow	Basement, east boiler room	Yes	Yes
23A22	TSI hard elbow (duplicate of 23A21)	Basement, east boiler room	Yes	Yes

#### TABLE 12: SUMMARY OF ASBESTOS SAMPLING RESULTS

Sample No.	MATERIAL SAMPLED	SAMPLE LOCATION	Friable (Yes/ No)	ASBESTOS Containing (YES/ NO)
23423	9 in. x 9 in. floor tile	Basement restroom	No	Yes
20/ (20	mastic		No	No
23A24	Wall taping mud	Basement, east boiler room	Yes	Yes
23A25	Wall taping mud (duplicate of 23A24)	Basement, east boiler room	Yes	Yes
23A26	9 in. x 9 in. floor tile	Second floor room 207	No	Yes
	mastic		No	No
23A27	Cove base adhesive	Second floor, room 207	No	No
	Wall sheetrock		No	No
23A28	Texture	Second floor, room 207	Yes	No (<1%)
	Taping mud		Yes	No
	Ceiling sheetrock	Second floor, room 207	No	No
23A29	Texture		Yes	No (<1%)
	Taping mud		Yes	No
23430	9 in. x 9 in. floor tile	First floor, northwest area of	No	Yes
20400	Mastic	kitchen	No	No
23431	12 in. x 12 in. floor tile	First floor, northwest area of	No	No
20401	Mastic	kitchen	No	No
23A32	Wall texture / taping mud	First floor, northwest area of kitchen	Yes	Yes
<b>J</b> 3V33	9 in. x 9 in. floor tile		No	Yes
20400	Mastic	Third floor, room 306	No	No
23A34	Wall sheetrock		No	No
	Texture	Third floor, room 306	Yes	No
	Taping mud		Yes	No
	Ceiling sheetrock		No	No
23A35	Texture	Third floor, room 306	Yes	No (<1%)
	Taping mud		Yes	No
23A36	Wall ceramic tile adhesive	Second floor, restroom	No	No

Laboratory results indicate that more than 1% asbestos was identified in 13 of the 56 analyses (23.2% of the analyses). Less than 1% asbestos was identified in five samples of wall and ceiling texture. The following materials are identified as ACBM:

- Vinyl floor tile (9 in. by 9 in.) in the basement and all three floors of the building (approximately 15,000 square feet). The floor tiles are in good condition. The samples of associated floor tile mastic were identified as non-asbestos.
- Hard TSI elbows, T's, and joints in the basement (approximately 40 hard TSI joints were observed in the basement; however, TSI hard joints may be present in pipe chases throughout the building). The TSI is significantly damaged.
- Roof sealant tars beneath the TPO membrane. This material is unquantified since it is covered with the TPO membrane. There are approximately 10 roof vent penetrations.

Six samples of texture were collected and five of those samples contained less than 1% chrysotile asbestos. No asbestos was detected in one sample of texture. The corner bead in the ground floor kitchen was sampled and the laboratory identified that material as texture and as asbestos containing (Sample No. 23A32). At this time, wall and ceiling texture is considered to contain less than 1% asbestos because the laboratory mis-identified one of the samples.

Taping mud analyses provided conflicting results. Nine samples of corner bead and taping mud were collected. Batta identified more than 1% asbestos in three of the samples (including the corner bead sample [23A32] collected in the kitchen) and no asbestos was detected in the other six mud samples. More than 1% asbestos was identified in the taping mud samples collected in the basement and kitchen. At this time, all taping mud in the building is considered asbestos-containing. Since the taping mud cannot be cost-effectively separated from the sheetrock and texture, all walls and ceilings are considered to be asbestos-containing (approximately 18,000 square feet of ceiling sheetrock and 150,000 square feet of wall sheetrock). The asbestos-containing taping mud is essentially encapsulated by texture and paint.

There is minor risk of exposure to asbestos fibers in the sorority house at this time since the building is unoccupied. The quantity estimates provided are coarse and more accurate quantity estimates should be obtained prior to obtaining bids for encapsulation, enclosure, or abatement.

#### 7.1.6 Limited Asbestos Survey Recommendations

It should be noted that although reasonable effort was made to survey accessible suspect materials, unsampled materials could be located in gaskets and packings, within mechanical equipment, in walls, under roofing, in crawlspaces and voids, or in other concealed or confined and inaccessible areas. If unsampled materials are encountered in the future, they may be assumed to be asbestos-containing until appropriate sampling and analysis indicate otherwise.

Currently, there are no EPA and/or OSHA regulations that require the removal of ACBMs from private property if they are in good condition and will not be disturbed. By Federal law, only licensed abatement firms may remove friable ACBMs. A General Contractor may remove non-friable ACBMs, but NESHAP regulations must be followed. Personnel involved in asbestos work must be trained per the OSHA 1926.1101 asbestos guidelines.

According to EPA regulations and general asbestos management practices, a property owner/manager has basic response actions for addressing ACBMs that include: the development of an Asbestos O&M Program, Repair, Enclose, Encapsulate, and Removal.

- Zia recommends that only qualified and licensed asbestos abatement contractors should remove, repair, enclose, or encapsulate any ACBM.
- If the building is not demolished and/or renovated in the future and ACBMs remain in place, then Zia recommends that an Asbestos Operations & Maintenance (O&M) Program should be implemented.

#### Asbestos O&M Program

An Asbestos O&M Program option consists of managing the ACBMs in place while reducing potential exposure to asbestos fibers for tenants, employees, maintenance staff, and outside contractors. An Asbestos O&M Program would include notification to employees and contractors regarding the presence of ACBMs. This is a viable management option for ACBMs if the ACBMs will not be disturbed. A qualified abatement firm should be contracted to respond to fiber release episodes at the subject site. Information obtained from this asbestos survey should be incorporated into the Asbestos O&M Program. Additional asbestos sampling may be performed. The elements of an Asbestos O&M Program include:

- Distribution,
- Revisions,
- Responsibilities,
- Notifications,
- Periodic surveillance

- Cleaning,
- Worker protection programs,
- Waste handling,
- Air monitoring, and
- Record keeping

#### <u>Repair</u>

The repair management option would be implemented as part of an Asbestos O&M Program in response to fiber release episodes or visual observation of damaged ACBMs.

#### **Encapsulation**

The encapsulation management option involves covering the ACBM with a sealant to prevent fiber releases. Encapsulation may be performed as a function of an Asbestos O&M Program.

#### <u>Enclosure</u>

The enclosure management option involves constructing an airtight barrier around the ACBM. Enclosure may be performed as a function of an Asbestos O&M Program.

#### <u>Removal</u>

The removal management option is the recommended option for ACBMs that will be disturbed during demolition or renovation of a structure. Removal is also the recommended option if ACBMs are damaged, friable (TSI, taping mud, etc.), or in small quantities. If the owner plans for demolition or renovation of the structure, then removal of ACBMs should be performed first.

New Mexico Environment Department (NMED) Solid Waste Bureau regulations require that all waste ACBMs (more than 1% asbestos) should be disposed at a special wastes landfill. NESHAP guidelines must also be followed during abatement. If ACBMs are to be removed, the property owner or its representative should:

- Comply with requirements for asbestos demolition/renovation projects, which are governed by NESHAP, OSHA, and the State of New Mexico regulations.
- Retain the services of an independent analytical testing laboratory or consulting firm to monitor the performance of the abatement contractor, the completeness of the removal work, and the quality of the air before, during, and after the removal work to ensure that the contractor meets project specifications; also, to document if the work was performed in

compliance with the respective EPA and OSHA standards. Portions of this recommendation may not apply to roofing ACBMs or demolition projects.

- Perform a final visual inspection and air clearance sampling prior to reoccupying the asbestos removal work area. This recommendation may not apply to exterior non-friable ACBMs or demolition projects.
- Document all correspondence from the abatement contractor and the testing laboratory and retain this information in a permanent record.
- Notify local, state, and federal air pollution officials by letter prior to ACBM removal. Notification is mandated by NESHAP.

Owners, maintenance workers, and contractors at the subject site should be notified of the presence of asbestos in building materials. Repair of damaged ACBMs should be performed as a function of an Asbestos O&M Program.

# 7.2 LIMITED LEAD-BASED PAINT SURVEY

Zia performed limited lead-based paint (LBP) sampling to identify the presence of lead-based paint in major paint finishes within the Alpha Chi Omega sorority house. The painting history at the subject property was not made available prior to conducting the LBP survey.

#### 7.2.1 Background

Lead was a major ingredient in several types of paint and stain in the United States through World War II. In the early 1950s, other pigment materials became more popular but lead compounds were still used in some pigments and as drying agents. In 1973, the CPSC established a maximum lead content in paint of 0.5% by weight in a dry film of newly applied paint. The CPSC lowered the allowable lead level in paint to 0.06% by weight in 1978. If LBP is present at a property, then it is possible that:

- Lead dust is being deposited in the soils and in buildings from gradual degradation of building materials, even without demolition or renovation activities; and
- Maintenance and custodial employees may be at additional risk of exposure as a result of daily work activities.

Lead dust, which is easily absorbed by the body, is a major cause of lead poisoning in children. Excessive blood-lead levels can damage a child's developing brain and central nervous system. Lead poisoning in children can result in attention span deficits, impaired hearing, reading and learning disabilities, delayed cognitive development, reduced IQ scores, mental retardation, seizures, convulsions, coma, and death. In adults, high blood-lead levels may increase blood pressure and cause other serious health effects.

Title X (Residential Lead-Based Paint Hazards Reduction Act) of the Federal Housing Reauthorization Act mandated that OSHA promulgate a standard for lead exposure during construction projects by April 26, 1993. OSHA subsequently established a permissible exposure level (PEL) of 50 micrograms of lead per cubic meter of air ( $\mu$ g/m<sup>3</sup>) for workers.

OSHA recommends medical surveillance and automatic reporting of excessive blood-lead levels for abatement workers or other persons who may be exposed to lead occupationally.

Title X, Subtitle C, Sections 1031 and 1032 (Worker Protection) of the Housing and Community Development Act of 1992 amended the OSHA standards for occupational health and environmental controls in Subpart D of 29 CFR Part 1926 by adding Section 62, which describes employee protection requirements for construction workers that may be exposed to lead. When painted surfaces are disturbed and LBP is suspected, workers should perform the work in such a way that lead dust is contained and controlled.

The OSHA Construction Standard (1926.62) requires that employers assure that good work practices are followed when worker exposure to lead exceeds the action level, which is an 8-hour Time Weighted Average (TWA) of 30  $\mu$ g/m<sup>3</sup>. Since the sorority house is not planned for demolition, OSHA worker exposure regulations may not apply to this project. If LBP is present at a building demolition or renovation site, then EPA also regulates the amount of lead that can be disposed at a landfill.

#### 7.2.2 Visual and Physical Assessment

Zia accessed and sampled the building for suspected LBP on May 22 and 26, 2015. Duplicate samples were collected for QA/QC purposes.

#### 7.2.3 Sample Collection

Sample locations were chosen based on access, paint color, and homogeneous area. Latex gloves were worn while collecting the samples. Structures sampled for LBP included:

- interior walls,
- exterior stucco,
- wrought iron over the windows, doors (wood and metal),
- door frames (metal),
- metal hand rails in the stairway,
- the metal roof access ladder,
- and the concrete curb located south of the building.

Approximate interior and exterior sample locations are indicated on Figures A-3 through A-7. Sample knives were wiped with wet paper towels between sampling events to reduce the potential for sample cross-contamination. Each paint sample was placed into a sealable plastic bag that was labeled with an indelible marker (23L1 through 23L16). Each paint sample was scraped to the substrate and the substrate materials were noted.

#### 7.2.4 Sample Analyses

Samples were submitted to Batta Laboratories in Newark, Delaware, with completed chain-ofcustody forms for analysis by ASTM D-3335-85A "Standard Method to Test for Low Concentrations of Lead in Paint by Atomic Absorption Spectrophotometry", EPA SW846-(3050B/420M). Batta is a National Lead Laboratory Accreditation Program and an AIHA
Laboratory Accreditation Programs (AIHA-LAP, LLC No. 100448) laboratory. Laboratory reports and chain-of-custody forms are included in Appendix F.

A positive finding of LBP is identified by the following:

- A reading of 1.0 mg/cm<sup>2</sup> by using a spectrum or direct reading x-ray fluorescence (XRF) analyzer or by using chemical testing; or
- A reading of 0.5% by weight as determined by using flame atomic absorption spectrophotometry (AAS) or by using inductively coupled plasma atomic emission spectrometry. Please note that 0.5% by weight is equivalent to 5,000 milligrams per kilogram (mg/Kg).

#### 7.2.5 Findings

Zia collected a total of 16 paint samples and submitted them to Batta where they were analyzed using Flame AAS. The total lead content of each sample was reported as a percentage of the total weight of the sample. A summary of Lead-Based Paint Sampling Results is provided in Table 13.

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE LOCATION	Percent (%) Total Lead
23L1	Brown on wood	Roof, chimney	<0.0063
23L2	Blue on metal	Third floor, access ladder to roof	0.067
23L3	Red on wood door	First floor, south side of building	0.034
23L4	Beige on wrought iron over windows	Exterior, south side of building	<0.0063
23L5	Brown on stucco	Exterior, north wall of west courtyard	<0.00063
23L6	White on wood gate	Exterior, south gate of west courtyard	0.33
23L7	White on metal door	Exterior, north side of building	0.060
23L8	White on metal handrail	Basement stairway	0.048
23L9	Blue on wood door to basement	First floor, stairway access	<0.0063
23L10	Dark brown on metal door jamb	First floor, stairway access	0.026
23L11	White on metal door jamb	First floor, stairway access	0.0076
23L12	Green on wall sheetrock	First floor, common room	0.016
23L13	Turquoise on concrete curb	South of the building	0.0096
23L14	Red on concrete curb	South of the building	<0.0063
23L15	White in sheetrock wall	Second floor, hallway	0.020
23L16	Salmon on sheetrock wall	Second floor, room 206	0.010

#### TABLE 13: SUMMARY OF LEAD-BASED PAINT SAMPLING RESULTS

### 7.2.6 Limited Lead-Based Paint Survey Recommendations

None of the 16 samples contained more than 0.5% lead. Therefore, LBP was not identified at the subject property.

• Based on the sampling results no further assessment for LBP is recommended at this time.

# 7.3 RADON SURVEY

Preliminary radon information for the 87106 zip code area was provided in Section 4.3. Radon gas is not regulated at either the federal or state level. However, exposure to an elevated radon level is associated with an increased risk of lung cancer. Radon is a naturally occurring radioactive gas that is chemically inert and soluble in water. It is an odorless, tasteless gas that is generated as an intermediate product during the degradation of two separate radioactive decay series – Uranium<sub>238</sub> (yielding Radon<sub>222</sub>) and Thorium<sub>232</sub> (yielding Radon<sub>220</sub>). Trace amounts of these source elements are present throughout the earth's crust; therefore, small amounts of radioactive radon gas are present in all buildings. From the U<sub>238</sub> decay series, Radium<sub>225</sub> (a solid) loses an alpha and a gamma particle through radioactive decay, generating radon gas. As a gas, radon is able to migrate through the soil. When radon undergoes the next radioactive decay step, it forms Polonium<sub>218</sub> (a solid).

The average indoor level of radon in the United States is 1.3 picocuries<sup>4</sup> of radiation per liter of air (pCi/l). The average ambient outdoor level of radon in the United States is 0.4 pCi/l. The EPA recommended action level is 4.0 pCi/l (a multiple of 10 times the ambient outdoor level). Zia placed five radon test kits at the subject property on May 22, 2015, and collected them on May 26, 2015. Four radon test kits were placed in the basement and one was placed on the first floor.

The radon kits were placed at the following locations and the kits were overnight-delivered to Alpha Energy Laboratories in Carrollton, Texas. Table 14 summarizes the sampling results.

SAMPLE NO.	TIME OPENED 05/22	TIME COLLECTED 05/26	SAMPLE LOCATION	RADON (PCI/L)
FA20600	10:51	09:22	Basement, west end hallway	2.0
FA20646	10:44	09:24	Basement, central portion hallway	1.2
R16158	10:23	09:26	Basement, east laundry	1.9
R16180	10:27	09:27	Basement, east laundry (duplicate)	1.8
FA20680	11:06	09:20	First floor, women's restroom	0.6

TABLE 14: SUMMARY OF RADON TEST KIT RESULTS

<sup>&</sup>lt;sup>4</sup> 1 curie equals 37 billion disintegrations per second. A picocurie is equal to one-trillionth of a curie.

All radon test results were below the recommended action limit of 4.0 pCi/L. The four basement measurements were relatively close to each other. The two duplicate samples were within 0.1 pCi/L of each other. The first floor measurement was the lowest radon measurement, which was to be expected.

• Based on the radon measurements obtained, radon does not appear to present a significant environmental concern at the subject property and radon mitigation does not appear to be warranted. No further assessment for radon is recommended at this time.

# 7.4 MOLD SPORE SURVEY

Ms. Jennifer Vasquez indicated that a water pipe broke in the restroom on the second floor in 2014 when the building was unoccupied, resulting in water damage to the first and second floors of the building. There was enough moisture that visible mold growth was evident. Ms. Vasquez stated that the leak was repaired and that the building materials with visible mold spores were replaced. UNM requested that a limited survey be performed for mold spores.

## 7.4.1 General Fungal Spore Discussion

Microfungi are ubiquitous in the environment and do not belong to the animal kingdom (no mouths or stomachs) or to the plant kingdom (no chlorophyll or the ability to perform photosynthesis). Fungi are divided into three major groups: yeasts, mushrooms, and filamentous microfungi spores (molds). Yeasts are single-cellular and divide to form clusters. They have the ability to ferment carbohydrates in various substances. Mushrooms are fleshy or woody fungi. *Ascospores* and *Basidiospores* are mushroom spores and generally contribute to wood decay. Yeasts and mushrooms are normally not considered to contribute significantly to indoor air quality concerns.

Filamentous microfungi are termed molds. Molds are multi-cellular and germinate to produce tubular branching filaments called hyphae (singular "hypha"). Masses of hyphae are termed mycelium. A hypha is the actively growing filament assimilative phase of fungi. Hyphae are often divided into "cells" called septa. Microfungal reproductive seeds are called spores and the colonies will, in general, germinate and grow under conditions of adequate moisture and in the presence of an appropriate substrate. Most fungal spores are saprophytic, using organic material as a substrate. Most fungal spores measure between 2 micrometers ( $\mu$ m) and 20  $\mu$ m in diameter.

In a normal environment, microfungi spores inside a building are representative of microfungi spores that are present outside the building (similar concentrations and species). Indoor concentrations of spores in a healthy indoor environment may be lower (one-third to one-half) than ambient outdoor concentrations. Elevated fungal spore concentrations in indoor air samples often indicate an indoor air quality problem such as moisture intrusion, inadequate filtration, or poor ventilation. Poor ventilation in a building may also contribute to elevated humidity conditions. Some fungi will not easily grow inside buildings; however, some fungi will utilize cellulose and other building materials as a substrate. Approximately 40 genera of fungi are commonly reported in contaminated indoor environments. Variability in mold spore concentrations will be present depending on the geographic location, seasons, local weather patterns, and on a diurnal basis.

To perform an assessment of mold spores inside a building, indoor and outdoor (I/O) air samples are typically collected so that I/O mold spore concentrations and species can be compared to evaluate whether indoor amplification is occurring. This numerical interpretation is termed I/O Pattern Recognition. Basically, if indoor air originated outdoors, then the most common spore types outdoors should also be identified in indoor air samples, in roughly similar rank order and relative magnitudes. Indoor sources of mold growth are indicated when indoor spore types do not correlate with outdoor species and total spore counts. If no amplification is indicated, then whatever spores captured indoors may be assumed to have likely originated outdoors.

Generally, when moisture presents an indoor air quality problem, elevated mold spores are a potential consequence and a symptom indicating the moisture problem. General conditions under which indoor mold growth can occur include:

- Historical flooding without proper cleanup;
- Moisture intrusion occurring through sub-flooring or walls;
- Rainfall entering through leaky roofs;
- Plumbing or water line leaks;
- Toilet overflow or sewer backups;
- Excessive moisture condensation within HVAC systems;
- Persistent elevated relative humidity above 70%; and
- Poor housekeeping.

#### Outdoor Fungi

More than 90% of outdoor fungal spores include the following genera (listed in order of descending abundance):

- Cladosporium
- Mushroom (Ascospores and Basidiospores)
- Alternaria
- Rusts, Smuts, *Periconia*, and Myxomycetes (colonizing primarily flower and leaf parts)
- Aspergillus and Penicillium (soil and most surfaces)
- Botrytis
- Epicoccum
- Oidium
- Nigrospora
- Bipolaris/Drechslera

#### Indoor Fungi

The most common molds susceptible to indoor amplification include (listed in order of descending abundance):

- Penicillium
- Aspergillus (flavus, fumigatus, niger, terrus, versicolor)
- Cladosporium
- Stachybotrys

- Alternaria, Ulocladium, Chaetomium
- Zygomycetes (Mucor and Rhizopus)

Aspergillus and Penicillium spores are difficult to differentiate and are often reported as a total count. Rusts and smuts are obligate plant pathogens.

#### 7.4.2 Health Effects

Most of the incidental mold spore investigations that are performed are general environmental assessments and the data cannot be interpreted with respect to human exposure. Evaluating human exposure for these studies would require information such as the time each person spends in the environment, what activities they perform, individual sensitivities, and other factors. Epidemiological studies appear to link mold exposure with human illnesses; however, the relationships are not well understood. In general, elevated fungal spore concentrations in an indoor environment may be associated with allergic reactions and some respiratory illnesses in children, the elderly and immuno-compromised individuals. Health effects commonly associated with exposure to elevated levels of fungi are divided into four general categories: infection, toxicosis, allergy, and irritation. Health problems commonly associated with mold exposure include rashes, fatigue, memory loss, breathing difficulties, and pulmonary hemorrhaging.

#### 7.4.2.1 Infection

There are approximately 100 fungal species that may contribute to infections in humans. Classifications of infection associated with fungi include:

**Systemic Infection**: The systemic fungal infections include Histoplasmosis, Coccidioidomycosis, Blastomycosis, and Paracocidioidomycosis. Infection is normally initiated when fungal spores are inhaled. Systemic infections are normally self-limiting and produce minimal or no symptoms. Immune-suppressed individuals may develop a chronic localized infection and in rare cases the disease may disseminate throughout the body. Systemic fungal infections are often associated with *Candida, Aspergillus,* and *Cryptococcus* exposure.

**Opportunistic Infection**: Opportunistic infections are generally limited to individuals with impaired immunological defenses, where fungal infection is a secondary condition that is subsequent to a primary disease or health condition. Opportunistic fungi are facultative parasites, using both living and dead substrates for nutrients. Common opportunistic fungi include species of *Aspergillus, Cladosporium, Mucor, Rhizopus*, and *Cryptotoccus*.

**Dermatophytes**: Dermatophytes are a group of fungi that infect the hair, skin, and nails. Infection usually occurs through direct contact with an infected individual or indirectly by sharing clothes, grooming utensils, towels, and other personal items. Transmission to humans from an environmental source is extremely rare, although infections from contaminated soil have been reported. Common dermatophytes include *Trichophyton mentagrophytes*, *Trichophyton rubrum*, *Trichophyton verrucosum*, *Microsporum canis* (ringworm), and *Candida albicans*.

#### 7.4.2.2 Toxicosis

Health effects associated with mycotoxins have not been thoroughly studied. However, several fungal spores, which need not be viable, produce toxic metabolites (mycotoxins) during digestion. Recognized mycotoxins include aflatoxin, sterigmatocystin, and ochratoxin produced predominantly by *Aspergillus* and *Penicillium* species; and T-2 toxin, vomitoxin, fumonisin, zearalenone, and other tricothecene mycotoxins produced by *Fusarium* and *Stachybotrys* species. Other mycotoxins are produced by a variety of other fungi; approximately 3,000 metabolites are produced by approximately 600 mold species. Generally, mycotoxins are nonvolatile and inhalation exposure usually occurs only after disturbance of a contaminated source. Symptoms of mycotoxin exposure include cold and flu-like symptoms, headache, nose bleeds, dermatitis, and immune system suppression. Some mycotoxins are carcinogenic.

#### 7.4.2.3 Allergy

Allergy(ies) is(are) the most common symptom(s) associated with fungal exposure. Most fungal spores produce antigenic proteins that cause allergic reactions (conjunctivitis, rhinitis, bronchitis, asthma, and hypersensitivity pneumonitis) in allergy-sensitive individuals. The most common allergenic molds include *Alternaria alternata*, *Aspergillus fumigatus* and *Cladosporium herbarum*.

Sensitization develops from an initial exposure to an antigen and the body's immune system producing antibodies. Additional exposure to the antigen produces an increased antibody reaction, resulting in the release of histamine and other inflammatory responses (Type 3 Allergy).

### 7.4.3 Limited Fungal Spore Survey

There are no Federal or New Mexico regulations that pertain to mold surveys or mitigation. Industry standards for mold surveys are published and normally consist of collecting air samples (outside, indoor, attic, crawl space, and interstitial wall spaces, etc.), surface wipe samples from hard surfaces, and carpet vacuuming samples. This assessment consisted of collecting selective air quality and swab samples and making comparisons between the results: indoor concentrations and species were compared to outdoor concentrations and species and air-sampling results were compared to swab sample results, although surface sampling results often indicate higher concentrations than air monitoring. Outside air quality information is used to establish background species and concentrations. The comparisons are useful in identifying whether amplification or unusual species are present at specific locations within a building. Since inhalation presents the most common exposure pathway for allergy, toxicosis, irritation, and some infection responses, then air monitoring provides the most information relative to potential health concerns and was the primary method selected for this assessment.

Five air samples and four swab samples were collected on June 2, 2015 (Table 15). The mold spore samples were collected after a relatively wet May. Windows, corners, and inside cabinets were checked in each room where samples were collected. No areas of condensation were noted during the visual survey. No musty or moldy odors were noted inside the building. No areas of visible mold growth were noted. Relative humidity (RH) and temperature measurements were obtained while collecting the air samples. That data is presented in the following table.

Location	Time	Temperature	RH
023M1 – First Floor	11:37	72°F	40%
023M2 – Second Floor Restroom	11:11	75°F	35%
023M3 – Second Floor Restroom (Duplicate)	11:22	73°F	35%
023M4 – Third Floor Restroom	10:55	75°F	35%
023M5 – Exterior South	11:51	79°F	22%

#### TABLE 15: MOLD SPORE SURVEY ENVIRONMENT – JUNE 2015

The air conditioning system was working in the building at the time of sampling. Exterior relative humidity was low and the RH measurements inside the building provided reasonable consistency. The RH measurements inside the building do no indicate a current event of moisture intrusion. The exterior temperature was the highest temperature recorded during the assessment and the temperature measurements inside the building provided reasonable consistency.

#### 7.4.4 Sample Collection and Analysis

Sample locations were selected from the exterior (south side, background information for comparison), the living room (expected to be low spore counts) and from the east portion of the house (expected to be elevated spore counts). General sample locations are indicated on Figures 3-7, Appendix A. A new pair of latex gloves was worn while collecting each sample. The PEEL laboratory analytical report is provided as Appendix B.

#### 7.4.4.1 Air Monitoring

Air samples were collected using Zefon Air-O-Cell slit impaction cassettes. Air-O-Cell cassettes consist of a plastic coverslip coated with a sticky transparent substrate. The Air-O-Cell cassettes were provided by the analyzing laboratory. The vacuum pump was fitted with a Zefon rotameter (secondary standard). The rotameter was set at 15 liters per minute in the field, an industry standard flow rate for pulling in and capturing mold spores. Each air sample was collected for 10 minutes so that 150 liters of air were sampled at each location. The air samples were uniquely labeled (023M1 through 023M5).

#### 7.4.4.2 Swab Sampling

Swab samples were collecting using sterile swabs with a phosphate buffer solution prepared by Copan Diagnostics. The expiration date on the swabs was January 2016. One swab sample (023M1B) was collected from the surface of the cement block wall in the pipe chase in the restroom on the second floor. Another swab sample (023M2B) was collected on the surface of the wall ceramic tile outside the pipe chase. A third swab sample (023M4B) was collected from a sheetrock surface in the south pipe chase in the restroom on the third floor. Therefore, three swab samples were collected on the second floor, where the source of the moisture intrusion was reported. A fourth swab sample (023M3B) was collected from inside the pipe chase on the third floor. The swab samples were collected by wiping the swab across an area measuring approximately 4 in. square and then placing the swab back in the container. Samples were overnight delivered to EMLab P&K in Phoenix, Arizona, for microscopic analysis.

#### 7.4.5 Mold Spore Findings and Recommendations

A copy of the EMLab P&K laboratory analytical report and chain of custody are provided in Appendix F. Five air samples were collected during the June 2015 sample event and the results are summarized in Table 16.

Location	Species type	Results (count / M <sup>3</sup> )	Total Count			
	Basidiospores	7				
023M1 – First Floor Restroom	Cladosporium	7	20			
	Other	7				
	Cladosporium	7				
023M2 – Second Floor Restroom	Other	7	20			
	Smuts, Periconia, Myxomycetes	7				
023M3 – Second Floor Restroom (Duplicate)	Other	7	7			
	Alternaria	33				
	Ascospores	7				
	Aspergillus/Penicillium	20				
023M4 Third Floor Postroom	Basidiospores	7	160			
02304 - 11110 Floor Restroom	Bipolaris/Dreschlera	7	100			
	Cladosporium	53				
	Other	27				
	Stachybotrys	7				
	Torula	7				
023M5 – Exterior South (Ambient)	Ascospores	7	20			
	Basidiospores	7				

#### TABLE 16: SUMMARY OF AIR MOLD SPORE SURVEY RESULTS

The four swab sample analytical results indicated that none to very few spores were detected. These results were reasonably consistent.

In comparing the data, the following observations are made:

- Eight general species (*Alternaria, Cladosporium, Aspergillus/Penicillium, Bipolaris/Dreschlera, Torula, Stachybotrys,* and *Periconia*) plus mushroom spores were identified in indoor air samples. Only one mold spore species (*Torula*) was identified in the outdoor air sample. This indicates that mold spore amplification may be occurring indoors.
- The highest total spore count detected during the June 2015 sampling event was detected in the third floor bathroom air sample (160 spores/M<sup>3</sup>), which was not anticipated because the leaking water reportedly impacted the first and second floors. The spore counts are not considered elevated for this region. In general, a typical spore count in a mold-contaminated area would be >1,000 spores/M<sup>3</sup>.
- The maximum indoor spore count in Zia's June 2015 sampling event (160 spores/M<sup>3</sup>) is a factor of eight times the outdoor spore count (20 spores/M<sup>3</sup>), which does not exceed the industry standard threshold of 10 times which is used for identifying a condition of indoor amplification for mold spores. Based on this result, indoor amplification, if any, appears to be minimal.

- *Stachybotrys* may be considered the most likely of the mold spores identified at the subject property to potentially present health concerns. *Stachybotrys* was identified only in the third floor air quality sample.
- Ascospores and Basidiospores (mushrooms) were identified in three air samples, including the exterior air sample. Although their spores may be present, mushrooms do not typically grow in a normal clean and dry environment.

Zia concludes that the mitigation that was performed in 2014 was adequate.

• If mold spores appear to present a concern in the future at this location. Zia recommends that thermal imaging (or similar methods) be employed to detect leak sites and that the third floor should be incorporated into the investigation and mitigation.

# 8 FINDINGS, OPINIONS AND CONCLUSIONS

## **8.1** FINDINGS AND OPINIONS

This Phase I Environmental Site Assessment (ESA) with limited Phase II Sampling was performed in accordance with our proposal (P-ALE-15-180 dated May 13, 2015) and in general accordance with the consensus documents known as American Society for Testing and Materials (ASTM) E 1527-13 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.* University of New Mexico (UNM) authorized additional limited asbestos and lead-paint sampling by email on May 18, 2015. Mr. Kenneth Hunter performed the site reconnaissance on May 22, 2015.

The Alpha Chi Omega Sorority House (subject property) is located at 1635 Mesa Vista Road NE in Albuquerque, Bernalillo County, New Mexico.

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

- The subject property consists of the Alpha Chi Omega sorority house, containing approximately 0.75 acres of land. The subject property is developed with a three-story building with a basement, containing approximately 18,600 square feet.
- Historical sources indicate that site was originally developed with the sorority house in 1964. The adjacent property to the north (currently a UNM parking lot) was developed by 1959. The adjoining property to the east (currently the UNM business center and other UNM buildings) was developed by 1951. The adjoining property to the south (currently a sorority house) was developed by 1967. The adjacent property to the west has historically been undeveloped.
- The regulatory review identified three (3) LUST, three (3) UST, four (4) RCRA generator, one (1) CERCLIS, and one (1) NPL regulated facilities within the specified search radii.

Based on distance, gradient direction and/or current regulatory status, the remaining sites listed above do not appear to pose a recognized environmental condition (REC) to the subject site at this time.

## 8.2 DATA GAPS

No significant data gaps were identified in the information obtained and reviewed during the inquiry activities for this Phase I ESA that we believe may affect Zia's ability to identify RECs other than the following:

## **8.3** Additional Investigation

Based on the scope of services and limitations of this assessment, Zia did not identify RECs in connection with the site, which, in our opinion, require additional investigation at this time.

## **8.4 CONCLUSIONS**

We have performed an ESA in conformance with the scope and limitations of ASTM E 1527-13 of the Alpha Chi Omega Sorority House located at 1635 Mesa Vista Road NE, Albuquerque, Bernalillo County, New Mexico. Any exceptions to, or deletions from, this practice are described in Sections 1.4 and 7.2 of this report. Based on the scope of services and limitations of this assessment, Zia did not identify RECs in connection with the site, which, in our opinion, require additional investigation at this time. However, did identify the following REC in connection with the subject property.

 Zia performed a Limited Asbestos Survey at the site, consisting of 36 bulk samples. Several samples contained more than one building matrix, resulting in 56 laboratory analyses. Thirteen of the 56 analyses indicated more than 1% asbestos. ACMs were identified as roofing sealant tar, 9-inch by 9-inch vinyl floor tile, TSI hard joints, and wall and ceiling taping mud. Zia recommends that an Asbestos Operations & Maintenance (O&M) Program should be implemented at the site to manage the ACBMs in place.

While not RECs, the following four items warrant additional discussion:

- Zia performed a Limited Lead-Based Paint (LBP) Survey at the subject property, consisting of 16 samples of paint. None of the paint samples analyzed at more than 0.5% lead. Therefore, LBP was not identified at the subject property and no further investigation for LBP appears warranted at this time.
- Zia performed a Limited Radon Survey at the subject property. Four radon measurements were collected in the basement and one radon measurement was collected on the first (ground) floor. None of the radon measurements exceeded 4.0 pCi/L. Therefore radon is not considered to present an environmental concern at the property and no further assessment of radon gas appears warranted at this time.

- Zia performed a Limited Mold Spore Survey at the subject property and the results indicate that the 2014 mitigation effort was adequate. However, if mold spores appear to present a concern at this location in the future, Zia recommends that thermal imaging (or similar methods) be employed to locate sources of moisture and that the third floor should be incorporated into the investigation and mitigation effort.
- A pad-mount transformer is located north of the building. Zia recommends that the property owner should coordinate with PNM to evaluate whether concrete-filled bollards should be placed around the transformer.

# 9 SIGNATURE(S) OF ENVIRONMENTAL PROFESSIONAL(S)

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40CFR312. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject site. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

expeth Hunter

Kenneth E. Hunter Associate Scientist

i J. Broom

Victória T. Brown Project Scientist

# **10 REFERENCES**

- Albuquerque Geographic Information System, Aerial Photographs of Albuquerque, New Mexico, dated 1961, 1996, 1999, 2001, 2002, 2004, 2006, 2008, 2010, 2012, and 2014.
- Bjorklund and Maxwell, <u>Availability of Ground Water in the Albuquerque Area, Socorro and</u> <u>Sandoval Counties, New Mexico</u>; 1961.
- Envirosite Government Records Report "Alpha Chi Omega Sorority House, 1635 Mesa Vista Road NE, Albuquerque, New Mexico 87106"; Order Number 1534, dated June 4, 2015.
- Federal Emergency Management Agency Flood Insurance Rate map, FEMA Panel Number 35001C0334G, dated September 26, 2008.
- Google Earth<sup>™</sup>, Aerial Photographs of Albuquerque, New Mexico, dated 1991.
- Hudspeth City Directories reviewed: 1950, 1960, 1970.
- Ralph Manchego, Virginia McLemore, and John Hawley; New Mexico Environment Department; <u>New Mexico Radon Survey 1987 – 1989;</u>
- New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System website, T10N R3E Section 16, accessed June 11, 2015.
- Polk City Directories reviewed: 1980, 1990, 2000, 2010.
- United States Department of Agriculture Natural Resource Conservation Service, Web Soil Survey, accessed June 11, 2015.
- United States Geologic Services 7.5 Series Topographic Maps "Albuquerque West, New Mexico" dated 1934, 1954, 1960, 1967, 1972, 1990, 2010, and 2013.
- UNM Earth Data Analysis Center, Aerial Photographs of Albuquerque, New Mexico, dated 1951, 1954, 1959, 1964, 1967, 1973, and 1982.

# **APPENDIX** A

Figure 1: Topographic Map Figure 2: Site Vicinity Map Figure 3: Exterior and Roof Sampling Locations Figure 4: Basement Sampling Locations Figure 5: First Floor Sampling Locations Figure 6: Second Floor Sampling Locations Figure 7: Third Floor Sampling Locations









Source: AGIS Aerial Photograph 2014, not to scale



**Asbestos Samples** 

- Lead-Based Paint
- Samples
- **Radon Samples**

Zia Engineering & Environmental Consultants, LLC.

1720 Louisiana Blvd., NE, Suite 308 Albuquerque, New Mexico 87110 phone: (505) 266 - 2488 fax: (505) 266 - 2803

Figure Name: Project Name: **Basement Sampling Locations** 

Phase I and II ESA Alpha Chi Omega Sorority House 1635 Mesa Vista Road NE Albuquerque, Bernalillo County, NM Project No.: NALE-15-023

Date: June 15, 2015







# **APPENDIX B**

Site Photographic Log



Photo 1: View northeast across the site from the southwest corner.



Photo 2: View south along the east side of the site from the northeast corner.



Photo 4: View northwest toward the sorority house from the southeast corner.



Photo 5: View southeast toward the sorority house from the northwest corner.



Photo 3: View north along the west side of the site from the southeast corner.



Photo 6: View east along the north side of the site from the northwest corner.

Zia Engineering & Environmental Consultants, LLC.	Figure Name: Project Name:	Photographic Log	Project No.: NALE-15-021
1720 Louisiana Blvd., NE, Suite 308 Albuquerque, New Mexico 87110		Alpha Chi Omega Sorority House	Date: April 6, 2015
phone: (505) 266 - 2488 fax: (505) 266 - 2803		1635 Mesa Vista Road NE Albuquerque, Bernalillo County, NM	Appendix B-1



Photo 7: PNM pad-mount transformer located north of the building.



Photo 8: Possible grease trap located north of the kitchen portion of the building.



Photo 10: General view of the basement west boiler room.



Photo 11: Floor drain in the basement east boiler room.



Photo 9: 5-gallon container of Sani-3000 automatic dishwashing liquid located north of the building.



Photo 12: Wood cabinet of paints in the basement west boiler room.

Zia Engineering & Environmental Consultants, LLC.	Figure Name:	Photographic Log	Project No.: NALE-15-021
1720 Louisiana Blvd., NE, Suite 308 Albuquerque, New Mexico 87110	Project Name:	Alpha Chi Omega Sorority House	Date: April 6, 2015
pnone: (505) 266 - 2488 fax: (505) 266 - 2803		1635 Mesa Vista Road NE Albuquerque, Bernalillo County, NM	Appendix B-2



Photo 13: Wood cabinet of paints and adhesives in the basement west boiler room.



Photo 14: View north off-site toward a UNM parking lot.



Photo 16: View south off-site, across Mesa Vista Road and toward the Kappa Kappa Gamma sorority house.



Photo 17: View off-site to the west.



Photo 15: view east off-site, across University Boulevard and toward UNM buildings.



Photo 18: View to the east of the roof membrane

	Zia Engineering & Environmental Consultants, LLC.	Figure Name:	Photographic Log	Project No.: NALE-15-021
Ĩ	/ 1720 Louisiana Blvd., NE, Suite 308 Albuquerque, New Mexico 87110	Project Name:	Alpha Chi Omega Sorority House	Date: April 6, 2015
	phone: (505) 266 - 2488 fax: (505) 266 - 2803		1635 Mesa Vista Road NE Albuquerque, Bernalillo County, NM	Appendix B-3



Photo 19: Drain vent in the roof, asphaltic tar sample location no. 23A1 (10% chrysotile).



Photo 20: Roof access hatch roofing tar sample location 23A2 (5% chrysotile).



Photo 22: Asbestos sample location 23A13 (loose 9"x9" vinyl floor tile)(2% chrysotile) in the west boiler basement.



Photo 23: Asbestos sample locations 23A17 (hard TSI elbow) (5% chrysotile) and 23A19 (duct insulation) in the east basement boiler room.



Photo 21: Asbestos sample locations 23A11 (cove base adhesive) and 23A12 (wall sheetrock, texture, and corner bead) in basement hallway (<1% chrysotile texture).



Photo 24: Asbestos sample locations 23A21 and A22 (duplicate)(hard TSI elbow)(3% chrysotile) in the east basement boiler room.

<i>Lia Engineering &amp; Environmental</i> Consultants, LLC.	Figure Name:	Figure Name: Photographic Log	Project No.: NALE-15-021
720 Louisiana Blvd., NE, Suite 308 Ibuquerque, New Mexico 87110	Project Name:	Alpha Chi Omega Sorority House	Date: April 6, 2015
hone: (505) 266 - 2488 ax: (505) 266 - 2803		1635 Mesa Vista Road NE Albuquerque, Bernalillo County, NM	Appendix B-4



Photo 25: Asbestos sample location 23A23 (9x9 vinyl floor tile) (2% chrysotile) in the basement restroom.



Photo 26: Asbestos sample locations 23A24 (wall taping mud) and 23A25 (duplicate)(2% chrysotile) in the southwest corner of the east basement boiler room.



Photo 27: Asbestos sample location 23A26 (9x9 vinyl tile and mastic) (2% chrysotile) in room 207 on the second floor.



Photo 28: Floor drains and asbestos sample locations 23A30 (9x9) (2% chrysotile), 23A31 (12x12), and 23A32 (wall corner bead and sheetrock)(2% chrysotile).



Photo 29: Asbestos sample location 023A33 (9"x9" floor tile) (2% chrysotile) in Room 306 on the third floor.



Photo 30: Highest lead paint sample location 23L6 (0.33% lead) white on wood gate.

Zia Engineering & Environmental Consultants, LLC.	Figure Name:	Photographic Log	Project No.: NALE-15-021
1720 Louisiana Blvd., NE, Suite 308 Albuquerque, New Mexico 87110	Project Name:	Alpha Chi Omega Sorority House	Date: April 6, 2015
pnone: (505) 266 - 2488 fax: (505) 266 - 2803		1635 Mesa Vista Road NE Albuquerque, Bernalillo County, NM	Appendix B-5



Photo 31: Radon test kit sample locations in the basement laundry room.



Photo 20: Mold spore sample location on the ground floor.

	Zia Engineering & Environmental	Figu
6	Consultants, LLC.	Ducia
0	🗸 1720 Louisiana Blvd., NE, Suite 308	Proje
	Albuquerque, New Mexico 87110	
	phone: (505) 266 - 2488	
	fax: (505) 266 - 2803	

gure Name: Photographic Log

ect Name: Phase I Environmental Site Assessment Alpha Chi Omega Sorority House

1635 Mesa Vista Road NE

Albuquerque, Bernalillo County, NM

Project No.: NALE-15-021

Date: April 6, 2015



Historic Aerial Photographs



Site Location (approximate)

Zia Engineering & Environmental Consultants, LLC. -1720 Louisiana Blvd., Suite 308 Albuquerque, New Mexico 87110 phone: (505) 266 - 2488 fax: (505) 266 - 2803 Figure Name: Historical Aerial Photograph 09/30/1951

Project Name: Phase I and II Environmental Site Assessment Alpha Chi Omega Sorority House 1635 Mesa Vista Road NE Albuquerque, Bernalillo County, New Mexico Project No.: NALE-15-023

Date: June 7, 2015







1720 Louisiana Blvd., Suite 308 Albuquerque, New Mexico 87110 phone: (505) 266 - 2488 fax: (505) 266 - 2803

Alpha Chi Omega Sorority House 1635 Mesa Vista Road NE Albuquerque, Bernalillo County, New Mexico



Site Location

Zia Engineering & Environmental Consultants, LLC. 1720 Louisiana Blvd., Suite 308 Albuquerque, New Mexico 87110 phone: (505) 266 - 2488 fax: (505) 266 - 2803 Figure Name: Historical Aerial Photograph 05/29/1973

Project Name: Phase I and II Environmental Site Assessment Alpha Chi Omega Sorority House 1635 Mesa Vista Road NE Albuquerque, Bernalillo County, New Mexico

Project No.: NALE-15-023 Date: June 7, 2015



Site Location

Zia Engineering & Environmental Consultants, LLC. 1720 Louisiana Blvd., Suite 308 Albuquerque, New Mexico 87110 phone: (505) 266 - 2488 fax: (505) 266 - 2803

Figure Name: Historical Aerial Photograph 12/03/1982

Project Name: Phase I and II Environmental Site Assessment Alpha Chi Omega Sorority House 1635 Mesa Vista Road NE Albuquerque, Bernalillo County, New Mexico

Project No.: NALE-15-023

Date: June 7, 2015





Site Location

Zia Engineering & Environmental Consultants, LLC. 1720 Louisiana Blvd., Suite 308 Albuquerque, New Mexico 87110 phone: (505) 266 - 2488 fax: (505) 266 - 2803 Figure Name: Historical Aerial Photograph 2004

Project Name: Phase I and II Environmental Site Assessment Alpha Chi Omega Sorority House 1635 Mesa Vista Road NE Albuquerque, Bernalillo County, New Mexico Project No.: NALE-15-023

Date: June 7, 2015


Zia Engineering & Environmental Consultants, LLC. 1720 Louisiana Blvd., Suite 308 Albuquerque, New Mexico 87110 phone: (505) 266 - 2488 fax: (505) 266 - 2803 Figure Name: Historical Aerial Photograph 2014

Project Name: Phase I and II Environmental Site Assessment Alpha Chi Omega Sorority House 1635 Mesa Vista Road NE Albuquerque, Bernalillo County, New Mexico Project No.: NALE-15-023

Date: June 7, 2015

Appendix C-9

# **APPENDIX D**

Envirosite Government Records Report



# Government Records Report | 2015

# Order Number: 1534 Report Generated: 06/04/2015

Project Name: UNM / ESA / Mesa Vista Project Number: NALE-15-023

Alpha Chi Omega Sorority House 1635 Mesa Vista Road NE Albuquerque, New Mexico 87106

> 1175 Post Road East Westport, CT 06880 Toll Free: 866-211-2028 www.envirositecorp.com

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### Page

A search of available environmental records was conducted by Envirosite Corporation. The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for all Appropriate inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed from the evaluation of environmental risks associated with a parcel of real estate. Executive Summary does not include a summary of report findings related to the selected Map Layers, this information is contained in the Map Findings section as well as being displayed on appropriate maps.

### **SUBJECT PROPERTY INFORMATION:**

#### ADDRESS:

Alpha Chi Omega Sorority House 1635 Mesa Vista Road NE Albuquerque, New Mexico 87106

#### **COORDINATES:**

Latitude (North):	35.089046 - 35° 5' 20.6"
Longitude (West):	-106.625959106° 37' 33.5"
Universal Transverse Mercator:	Zone 13N
UTM X (Meters):	351782.63
UTM Y (Meters):	3884127.12
Elevation:	5132.001 ft. above sea level

#### **USGS TOPOGRAPHIC MAP ASSOCIATED WITH SUBJECT PROPERTY:**

Subject Property Map: 35106a6 ALBUQUERQUE WEST, NM Most Recent Revision: 2013

### **SUBJECT PROPERTY SEARCH RESULTS:**

The subject property was not listed in any of the databases searched by Envirosite Corporation.

#### DATABASE(S) WITH NO MAPPED SITES:

No mapped sites were found in Envirosite Corporation's Search of available ("Reasonable ascertainable") government records either on the subject property or within the search radius around the subject property for the following databases:

### STANDARD ENVIRONMENTAL RECORDS

FEDERAL CERCLIS LIST	
CERCLIS	Comprehensive Environmental Response Compensation and Liability Act
CERCLIS NFRAP	Comprehensive Environmental Response Compensation and Liability Act
	No Further Remedial Action Planned
FEDERAL FACILITY	Federal Facility sites
FEDERAL RCRA CORRACTS FACILITIES LIS	57
CORRACTS	Hazardous Waste Corrective Action
FEDERAL DELISTED NPL SITE LIST	
DELISTED NPL	Delisted National Priority List
DELISTED PROPOSED NPL	Delisted proposed National Priority List

### STANDARD ENVIRONMENTAL RECORDS (cont.)

FEDERAL ERNS LIST ERNS	Emergency Response Notification System
FEDERAL INSTITUTIONAL CONTROLS / EN	IGINEERING CONTROLS REGISTRIES
FED E C	Engineering Controls
	Institutional Controls
CONTROLS	Published Institutional Controls
RCRA IC_EC	RCRA sites with Institutional and Engineering Controls
I C - NM	Institutional Controls
FEDERAL NPL SITE LIST	
NPL LIENS	National Priority List Liens
PART NPL	Part National Priority List
PROPOSED NPL	Proposed National Priority List
FEDERAL RCRA GENERATORS LIST	
RCRA_LQG	Resource Conservation and Recovery Act_ Large Quantity Generators
FEDERAL RCRA NON-CORRACTS TSD FAC	ILITIES LIST
RCRA_TSDF	Resource Conservation and Recovery Act: Treatment Storage and Disposal
	Facilities
STATE AND TRIBAL REGISTERED STORAG	E TANK LISTS
FEMA UST	FEMA Underground Storage Tanks
INDIAN UST R1	Underground Storage Tanks on Indian Land in EPA Region 1
INDIAN UST R10	Underground Storage Tanks on Indian Land in EPA Region 10
INDIAN UST R2	Underground Storage Tanks on Indian Land in EPA Region 2
INDIAN UST R4	Underground Storage Tanks on Indian Land in EPA Region 4
INDIAN UST R5	Underground Storage Tanks on Indian Land in EPA Region 5
INDIAN UST R6	Underground Storage Tanks on Indian Land in EPA Region 6
INDIAN UST R7	Underground Storage Tanks on Indian Land in EPA Region 7
INDIAN UST R8	Underground Storage Tanks on Indian Land in EPA Region 8
INDIAN UST R9	Underground Storage Tanks on Indian Land in EPA Region 9
AST - NM	Aboveground Storage Tanks

#### **RECORDS OF EMERGENCY RELEASE REPORTS** Hazardous Materials Information Reporting Systems

HMIRS (DOT)

### STATE AND TRIBAL LEAKING STORAGE TANK LISTS

INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land in EPA Region 1
INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land in EPA Region 10 $$
INDIAN LUST R2	Leaking Underground Storage Tanks on Indian Land in EPA Region 2
INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land in EPA Region 4
INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land in EPA Region 5
INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land in EPA Region 6
INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land in EPA Region 7
INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land in EPA Region 8
INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land in EPA Region 9

#### STANDARD ENVIRONMENTAL RECORDS (cont.) STATE- AND TRIBAL - EQUIVALENT CERCLIS SCS - NM State Cleanup Sites STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS SWF/LF - NM Solid Waste Facilities and Landfills STATE AND TRIBAL VOLUNTARY CLEANUP SITES VCP - NM Voluntary Cleanup Program OTHER ASCERTAINABLE RECORDS RCRA\_FULL\_DETAIL Resource Conservation and Recovery Act\_Full detail ADDITIONAL ENVIRONMENTAL RECORDS LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES **DEBRIS REGION 9** Torres Martinez Reservation Illegal Dump Sites INDIAN ODI R8 **Open Dump Inventory** ODI Open Dump Inventory TRIBAL ODI Indian Open Dump Inventory Sites SWRCY - NM Solid Waste Recycling LOCAL BROWNFIELD LISTS FED BROWNFIELDS Federal Brownfields TRIBAL BROWNFIELDS Tribal Brownfields LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES FED CDI DOJ Clandestine Drug Labs US HIST CDL Historical Clandestine Drug Labs CDL - NM Clandestine Drug Labs LOCAL LAND RECORDS LIENS 2 **CERCLA** Lien Information **RECORDS OF EMERGENCY RELEASE REPORTS** SPILLS - NM Spills OTHER ASCERTAINABLE RECORDS Air Facility Systems AFS BRS **Biennial Reporting Systems** CDC HAZDAT Hazardous Substance Release and Health Effects Information CDC HAZDAT GIS Hazardous Substance Release/Health Effects Database GIS Information COAL ASH DOE Coal Ash: Department of Electricity COAL ASH EPA Coal Ash: Environmental Protection Agency COAL GAS Coal Gas Plants CONSENT (DECREES) Superfund Consent Decree DIGITAL OBSTACLE Obstacles of interest to aviation users DOD Department of Defense DOT OPS Department of Transportation Office of Pipeline Safety ENOI Electronic Notice of Intent FA HWF Financial Assurance for Hazardous Waste Facilities FEDLAND Federal Lands

### ADDITIONAL ENVIRONMENTAL RECORDS (cont.)

## OTHER ASCERTAINABLE RECORDS (cont.)

FRS	Facility Index Systems
FTTS	FIFRA/TSCA Tracking System
FTTS INSP	FIFRA/TSCA Tracking System: Inspections
FUDS	Formerly Used Defense Sites
ICIS	Integrated Compliance Information System
INDIAN RESERVATION	Indian Reservations
LEAD_SMELTER	Lead Smelter Sites
LUCIS	Land Use Control Information Systems
MINES	Mines
MLTS	Material Licensing Tracking Systems
OSHA	Occupational Safety & Health Administration
PADS	PCB Activity Database Systems
PCB TRANSFORMER	Polychlorinated Biphenyls Transformers
POST	Postal Codes
RAATS	RCRA Administrative Action Tracking Systems
RADINFO	Radiation Information Systems
RMP	Risk Management Plans
SCRD DRYCLEANERS	SCRD Drycleaners
SSTS	Section 7 Tracking Systems
TOSCA-CHEMICAL	Toxic Substance Control Act: Chemicals
TOSCA-PLANT	Toxic Substance Control Act: Plants
TRANSMISSIONS	Electrical Transmissions
TRIS	Toxic Release Inventory Systems
UMTRA	Uranium Mill Tailing Sites
AIRS - NM	Air Permits
ASBESTOS - NM	Asbestos sites
DRYCLEANERS - NM	Drycleaners

### **SURROUNDING SITES: SEARCH RESULTS:**

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative equal to or higher than the subject property have been differentiated below from sites with an elevation lower than the subject property.

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

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

### STANDARD ENVIRONMENTAL RECORDS

### FEDERAL NPL SITE LIST

NPL: List of priority contaminated sites among identified releases or threatened releases of hazardous substances pollutants or contaminants nationally

#### STANDARD ENVIRONMENTAL RECORDS (cont.)

#### FEDERAL NPL SITE LIST (cont.)

NPL: List of priority contaminated sites among identified releases or threatened releases of hazardous substances pollutants or contaminants nationally

LOWER ELEVATION FRUIT AVENUE PLUME	SITE ADDRESS NEAR INTERSECTION OF EDITH AND GRAND AVE	DIRECTION/DISTANCE W / 0.823 mi.	<u>MAP ID</u> 8	<u>PAGE</u> 28
FEDERAL RCRA GENERATORS LIST				

RCRA\_CESQG: Resource Conservation and Recovery Act listing of licensed conditionally exempt small quantity generators

LOWER ELEVATION	SITE ADDRESS	DIRECTION/DISTANCE	MAP ID	PAGE
GALLES CHEVROLET USED VEHICLES	1300 LOMAS NE	NW / 0.186 mi.	4	19

RCRA\_SQG: Resource Conservation and Recovery Act listing of licensed small quantity generators

LOWER ELEVATION	SITE ADDRESS	DIRECTION/DISTANCE	MAP ID	PAGE
GALLES CHEVROLET CO	1601 LOMAS BLVD NE	NNE / 0.090 mi.	3	16
MELLOY BIG I	1200 LOMAS BLVD NE	NW / 0.247 mi.	6	23

### STATE AND TRIBAL REGISTERED STORAGE TANK LISTS

UST - NM: Registered Underground Storage Tanks

LOWER ELEVATION	SITE ADDRESS	<b>DIRECTION/DISTANCE</b>	MAP ID	PAGE
LOBO 66	1723 LOMAS NE	NE / 0.082 mi.	2	15

### STATE AND TRIBAL LEAKING STORAGE TANK LISTS

LTANKS - NM: Leaking Storage Tank Incident Reports

EQUAL/HIGHER ELEVATION	<u>SITE ADDRESS</u>	DIRECTION/DISTANCE	<u>MAP ID</u>	<u>PAGE</u>
FORD UTILITIES BUILDING	300 UNIVERSITY BLVD NE	S / 0.386 mi.	7	28
LOWER ELEVATION	<b>SITE ADDRESS</b>	DIRECTION/DISTANCE	<u>MAP ID</u>	<u>PAGE</u>
QUALITY PONTIAC	1300 LOMAS BLVD NE	NW / 0.189 mi.	5	22

#### **OTHER ASCERTAINABLE RECORDS**

RCRA\_NONGEN: Resource Conservation and Recovery Act listing of licensed non-generators

LOWER ELEVATION	SITE ADDRESS	DIRECTION/DISTANCE	MAP ID	PAGE
BOB TURNER FORD	1600 LOMAS BLVD NE	NNE / 0.076 mi.	1	14

### ADDITIONAL ENVIRONMENTAL RECORDS

### OTHER ASCERTAINABLE RECORDS

ROD: Permanent remedy at an NPL site

LOWER ELEVATION	SITE ADDRESS	DIRECTION/DISTANCE	MAP ID	PAGE
FRUIT AVENUE PLUME	NEAR INTERSECTION OF	W / 0.823 mi.	8	28
	EDITH AND GRAND AVE			

### Following sites were unable to be mapped.

### SITE NAME:

A S HORNER MAIN YARD CHEVRON PIPELINE ALBUQ TERM CHEVRON STATION #75916

### DATABASE(S):

AST - NM, FRS RCRA\_NONGEN RCRA\_NONGEN

# **PROPERTY PROXIMITY MAP**

SUBJECT NAME: Alpha Chi Omega Sorority House

ADDRESS: 1635 Mesa Vista Road NE, Albuquerque, New Mexico 87106 LAT/LONG: 35.089046 / -106.625959 PREPARED FOR: Zia Engineering and Environmental Consultants LLC ORDER #: 1534 REPORT DATE: June 04, 2015



# **AREA MAP**



SUBJECT NAME: Alpha Chi Omega Sorority House

Map Findings Summary does not include summary of Map Layers Data.

# STANDARD ENVIRONMENTAL RECORDS

DATABASE	<u>SUBJECT</u> PROPERTY	<u>SEARCH</u> DISTANCE <u>(MILES)</u>	<u>&lt;1/8</u>	<u> 1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2- 1</u>	<u>&gt;1</u>	<u>TOTAL</u> PLOTTED
FEDERAL CERCLIS	LIST							
CERCLIS		0.500	0	0	0	NR	NR	0
CERCLIS NFRAP		0.500	0	0	0	NR	NR	0
FEDERAL FACILITY		1.000	0	0	0	0	NR	0
FEDERAL RCRA CO	ORRACTS FACILIT	IES LIST						
CORRACTS		1.000	0	0	0	0	NR	0
FEDERAL DELISTE	D NPL SITE LIST							
DELISTED NPL		1.000	0	0	0	0	NR	0
DELISTED PROPOSED NPL		1.000	0	0	0	0	NR	0
FEDERAL ERNS LIS	ST							
ERNS		SP	NR	NR	NR	NR	NR	0
FEDERAL INSTITU ENGINEERING CON	TIONAL CONTROL NTROLS REGISTRI	.S / IES						
FED E C		0.500	0	0	0	NR	NR	0
FED I C		0.500	0	0	0	NR	NR	0
FED-PUBLISHED INSTITUTIONAL CONTROLS		0.500	0	0	0	NR	NR	0
RCRA IC_EC		0.250	0	0	NR	NR	NR	0
I C - NM		0.500	0	0	0	NR	NR	0
FEDERAL NPL SITE	E LIST							
NPL		1.000	0	0	0	1	NR	1
NPL LIENS		SP	NR	NR	NR	NR	NR	0
PART NPL		1.000	0	0	0	0	NR	0
PROPOSED NPL		1.000	0	0	0	0	NR	0
FEDERAL RCRA GE	ENERATORS LIST							
RCRA_CESQG		0.250	0	1	NR	NR	NR	1
RCRA_LQG		0.250	0	0	NR	NR	NR	0
RCRA_SQG		0.250	1	1	NR	NR	NR	2

# STANDARD ENVIRONMENTAL RECORDS (cont.)

DATABASE	SUBJECT PROPERTY	<u>SEARCH</u> DISTANCE <u>(MILES)</u>	<u>&lt;1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2- 1</u>	<u>&gt;1</u>	TOTAL PLOTTED
FEDERAL RCRA N LIST	ION-CORRACTS TSI	D FACILITIES						
RCRA_TSDF		0.500	0	0	0	NR	NR	0
STATE AND TRIB	AL REGISTERED ST	ORAGE TANK						
FEMA UST		0.250	0	0	NR	NR	NR	0
INDIAN UST R1		0.250	0	0	NR	NR	NR	0
INDIAN UST R10		0.250	0	0	NR	NR	NR	0
INDIAN UST R2		0.250	0	0	NR	NR	NR	0
INDIAN UST R4		0.250	0	0	NR	NR	NR	0
INDIAN UST R5		0.250	0	0	NR	NR	NR	0
INDIAN UST R6		0.250	0	0	NR	NR	NR	0
INDIAN UST R7		0.250	0	0	NR	NR	NR	0
INDIAN UST R8		0.250	0	0	NR	NR	NR	0
INDIAN UST R9		0.250	0	0	NR	NR	NR	0
AST - NM		0.250	0	0	NR	NR	NR	0
UST - NM		0.250	1	0	NR	NR	NR	1
RECORDS OF EM	ERGENCY RELEASE	REPORTS						
HMIRS (DOT)		SP	NR	NR	NR	NR	NR	0
STATE AND TRIB	AL LEAKING STORA	GE TANK						
INDIAN LUST R1		0.500	0	0	0	NR	NR	0
INDIAN LUST R10		0.500	0	0	0	NR	NR	0
INDIAN LUST R2		0.500	0	0	0	NR	NR	0
INDIAN LUST R4		0.500	0	0	0	NR	NR	0
INDIAN LUST R5		0.500	0	0	0	NR	NR	0
INDIAN LUST R6		0.500	0	0	0	NR	NR	0
INDIAN LUST R7		0.500	0	0	0	NR	NR	0
INDIAN LUST R8		0.500	0	0	0	NR	NR	0
INDIAN LUST R9		0.500	0	0	0	NR	NR	0
LTANKS - NM		0.500	0	1	1	NR	NR	2

# STANDARD ENVIRONMENTAL RECORDS (cont.)

	DATABASE	SUBJECT PROPERTY	<u>SEARCH</u> DISTANCE <u>(MILES)</u>	<u>&lt;1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2- 1</u>	<u>&gt;1</u>	TOTAL PLOTTED
	STATE- AND TRIBAL	- EQUIVALENT	CERCLIS						
	SCS - NM		0.500	0	0	0	NR	NR	0
	STATE AND TRIBAL WASTE DISPOSAL S	LANDFILL AND ITE LISTS	/OR SOLID						
	SWF/LF - NM		0.500	0	0	0	NR	NR	0
	STATE AND TRIBAL	VOLUNTARY CI	LEANUP SITES						
	VCP - NM		0.500	0	0	0	NR	NR	0
	OTHER ASCERTAINA	BLE RECORDS							
	RCRA_FULL_DETAIL		0.250	0	0	NR	NR	NR	0
	RCRA_NONGEN		0.250	1	0	NR	NR	NR	1
A	DDITIONAL ENVIRON	IMENTAL RECO	ORDS						
	LOCAL LISTS OF LAI DISPOSAL SITES	NDFILL / SOLID	WASTE						
	DEBRIS REGION 9		0.500	0	0	0	NR	NR	0
	INDIAN ODI R8		0.500	0	0	0	NR	NR	0
	ODI		0.500	0	0	0	NR	NR	0
	TRIBAL ODI		0.500	0	0	0	NR	NR	0
	SWRCY - NM		0.500	0	0	0	NR	NR	0
	LOCAL BROWNFIELD	D LISTS							
	FED BROWNFIELDS		0.500	0	0	0	NR	NR	0
	TRIBAL BROWNFIELDS		0.500	0	0	0	NR	NR	0
	LOCAL LISTS OF HA CONTAMINATED SIT	ZARDOUS WAS 'ES	STE /						
	FED CDL		SP	NR	NR	NR	NR	NR	0
	US HIST CDL		SP	NR	NR	NR	NR	NR	0
	CDL - NM		SP	NR	NR	NR	NR	NR	0
	LOCAL LAND RECOR	DS							
	LIENS 2		SP	NR	NR	NR	NR	NR	0
	RECORDS OF EMER	GENCY RELEAS	E REPORTS						
	SPILLS - NM		0.125	0	NR	NR	NR	NR	0

# ADDITIONAL ENVIRONMENTAL RECORDS (cont.)

DATABASE	SUBJECT PROPERTY	<u>SEARCH</u> DISTANCE <u>(MILES)</u>	<u>&lt;1/8</u>	<u> 1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2- 1</u>	>1	<u>TOTAL</u> <u>PLOTTED</u>
OTHER ASCERTAINA	BLE RECORDS							
AFS		SP	NR	NR	NR	NR	NR	0
BRS		SP	NR	NR	NR	NR	NR	0
CDC HAZDAT		SP	NR	NR	NR	NR	NR	0
CDC HAZDAT GIS		SP	NR	NR	NR	NR	NR	0
COAL ASH DOE		0.500	0	0	0	NR	NR	0
COAL ASH EPA		0.500	0	0	0	NR	NR	0
COAL GAS		1.000	0	0	0	0	NR	0
CONSENT (DECREES)		1.000	0	0	0	0	NR	0
DIGITAL OBSTACLE		1.000	0	0	0	0	NR	0
DOD		1.000	0	0	0	0	NR	0
DOT OPS		SP	NR	NR	NR	NR	NR	0
ENOI		SP	NR	NR	NR	NR	NR	0
FA HWF		SP	NR	NR	NR	NR	NR	0
FEDLAND		1.000	0	0	0	0	NR	0
FRS		SP	NR	NR	NR	NR	NR	0
FTTS		SP	NR	NR	NR	NR	NR	0
FTTS INSP		SP	NR	NR	NR	NR	NR	0
FUDS		1.000	0	0	0	0	NR	0
ICIS		SP	NR	NR	NR	NR	NR	0
INDIAN RESERVATION		1.000	0	0	0	0	NR	0
LEAD_SMELTER		SP	NR	NR	NR	NR	NR	0
LUCIS		0.500	0	0	0	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
MLTS		SP	NR	NR	NR	NR	NR	0
OSHA		SP	NR	NR	NR	NR	NR	0
PADS		SP	NR	NR	NR	NR	NR	0
PCB TRANSFORMER		SP	NR	NR	NR	NR	NR	0
POST		SP	NR	NR	NR	NR	NR	0

# ADDITIONAL ENVIRONMENTAL RECORDS (cont.)

DATABASE	SUBJECT PROPERTY	<u>SEARCH</u> DISTANCE <u>(MILES)</u>	<u>&lt;1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2- 1</u>	<u>&gt;1</u>	<u>TOTAL</u> PLOTTED
RAATS		SP	NR	NR	NR	NR	NR	0
RADINFO		SP	NR	NR	NR	NR	NR	0
RMP		0.500	0	0	0	NR	NR	0
ROD		1.000	0	0	0	1	NR	1
SCRD DRYCLEANERS		0.250	0	0	NR	NR	NR	0
SSTS		SP	NR	NR	NR	NR	NR	0
TOSCA-CHEMICAL		SP	NR	NR	NR	NR	NR	0
TOSCA-PLANT		SP	NR	NR	NR	NR	NR	0
TRANSMISSIONS		1.000	0	0	0	0	NR	0
TRIS		SP	NR	NR	NR	NR	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
AIRS - NM		SP	NR	NR	NR	NR	NR	0
ASBESTOS - NM		SP	NR	NR	NR	NR	NR	0
DRYCLEANERS - NM		0.250	0	0	NR	NR	NR	0

### NOTES:

SP - Subject Property

NR - Not Requested at this search distance

Sites may be listed in more than one database

Map Id: 1 Direction: NNE Distance: 0.076 mi. Actual: 398.789 ft. Elevation: 0.967 mi. / 5104 ft. Relative: Lower

Site Name: **BOB TURNER FORD** 1600 LOMAS BLVD NE

Database(s): [RCRA\_NONGEN]

### RCRA\_NONGEN

Date form received by agency : Facility name : Facility address : EPA ID : Mailing address : Contact : Contact address : Contact country : Contact telephone : Contact email : EPA Region : Land type : Source type : Classification : Description : Owner/Operator Summary : Owner Operator name : Owner Operator address : **Owner Operator country :** Owner Operator telephone : Legal status : Owner Operator Type : Owner/Op start date : Owner/Op end date : Owner Operator name : Owner Operator address : **Owner Operator country :** Owner Operator telephone : Legal status : Owner Operator Type : Owner/Op start date : Owner/Op end date : Handler Activities Summary : U.S. importer of hazardous waste :

Mixed waste (haz. and radioactive) : Recycler of hazardous waste : Transporter of hazardous waste : Treater storer or disposer of HW :

10/06/1986 **BOB TURNER FORD** 1600 LOMAS BLVD NE ALBUQUERQUE, NM 87106 NMD042993303 BOX 8446 ALBUQUERQUE, NM 87106 JEFF PERNELL BOX 8446 ALBUQUERQUE, NM 87106 US (505) 766-6600 N/R 06 Other land type Notification Not a generator, verified Not a generator, verified

**BOB TURNER** 1600 LOMAS NE ALBUQUERQUE, NM 87198 N/R (505) 766-6000 Private Owner N/R N/R

DINGES ALAN J UNKNOWN UNKNOWN, NM 00000-0000 N/R (000) 000-0000 Private Operator N/R N/R

No

No

No

No

No



Envirosite ID: 14881047

EPA ID: NMD042993303

ALBUQUERQUE, NM 87106

Map Id: 1 Direction: NNE Distance: 0.076 mi.	Site Name:	BOB TURNER FORD 1600 LOMAS BLVD NE ALBUQUERQUE, NM 87106	Envirosite ID: 14881047
Elevation: 0.967 mi. / 5104 ft.		ALDOQUERQUE, NH 07100	EPA ID: NMD042993303
Relative: Lower	Database(s):	[RCRA_NONGEN] (Cont.)	
RCRA_NONGEN (Cont.)			
Underground inject	ion activity :	No	
On-site burner exer	mption :	No	
Furnace exemption	:	No	
Used oil fuel burner	r:	No	
Used oil processor	:	No	
Used oil refiner :		No	
Used oil fuel marke	ter to burner :	No	
Used oil Specification	on marketer :	No	
Used oil transfer fa	cility :	No	
Used oil transporte	r:	No	
Hazardous Waste Summary :			
Waste code :		D000	
Waste name :		Not Defined	
Waste code ·		D001	
Waste name :		IGNITABLE WASTE	
Wasta coda :		E005	
Waste coue : Waste name :			
waste name .		SOLVENTS' TOLUENE METHYL E	THYL KETONE
		CARBON DISULFIDE, ISOBUTAN	DI. PYRIDINE.
		BENZENE. 2-ETHOXYETHANOL.	AND
		2-NITROPROPANE; ALL SPENT SO	OLVENT
		MIXTURES/BLENDS CONTAINING	, BEFORE USE,
		A TOTAL OF TEN PERCENT OR M	ORE (BY
		VOLUME) OF ONE OR MORE OF	THE ABOVE
		NONHALOGENATED SOLVENTS (	OR THOSE
		SOLVENTS LISTED IN F001, F002	2, OR F004;
		AND STILL BOTTOMS FROM THE	RECOVERY OF
		THESE SPENT SOLVENTS AND SI	PENT SOLVENT
		MIXTURES.	

Map Id: 2 Direction: NE Distance: 0.082 mi. Actual: 435.440 ft. Elevation: 0.966 mi. / 5102.999 ft. Relative: Lower	Site Name: Database(s):	LOBO 66 1723 LOMAS NE ALBUQUERQUE, NM 87106 [FRS, UST - NM]	Envirosite ID: 11126405 EPA ID: N/R
FRS			
Registry ID :	110022675041		
	NM-TEMPO is Ne	w Mexico's environmental manageme	ent system.
UST - NM			
EPA ID	Attribute	D Envirosite ID	Address1
N/R	2669917	4 11126405	1723 LOMAS NE
Address2	<u>City</u>	Country	County
N/R	ALBUQUERO	QUE USA	BERNALILLO
Name	<u>State</u>	Zip	Zip4
LOBO 66	NEW MEXIC	87106	N/R
State code	FID	<u>Facility</u>	Street
NM	31289	LOBO 66	1723 LOMAS NE

Street 2 N/R <u>AST</u> 0

31788 <u>City</u> ALBUQUERQUE <u>UST</u> 3

<u>County</u> BERNALILLO

Owner ID 76236

2015

<u>Zip</u> 87106

Owner Name R & Z LLC

Map Id: 3 Direction: NNE Distance: 0.090 mi. Actual: 475.293 ft.	Site Name:	GALLES CHEVROLET CO 1601 LOMAS BLVD NE ALBUQUERQUE, NM 87103	Envirosite ID: 15174106 EPA ID: NMD005870928
Elevation: 0.966 mi. / 5102.001 ft. Relative: Lower	Database(s):	[RCRA_SQG]	

# RCRA\_SQG

Date form received by agency : Facility name : Facility address : EPA ID : Mailing address : Contact : Contact address :

11/25/1985 GALLES CHEVROLET CO 1601 LOMAS BLVD NE ALBUQUERQUE, NM 87103 NMD005870928 P O BOX 25928 ALBUQUERQUE, NM 87125 **BLAINE BJORKMAN** P O BOX 25928 ALBUQUERQUE, NM 87125

Map Id: 3 Direction: NNE Distance: 0.090 mi. Actual: 475.293 ft. Elevation: 0.966 mi. / 5102.001 ft. Relative: Lower	Site Name: Database(s):	GALLES CHEVROLET CO 1601 LOMAS BLVD NE ALBUQUERQUE, NM 87103 [RCRA_SQG] <b>(Cont.)</b>	Envirosite ID: 15174106 EPA ID: NMD005870928
RCRA_SQG <b>(Cont.)</b>			
Contact country : Contact telephone : Contact email : EPA Region : Land type : Source type : Classification : Description :		US (505) 766-6800 N/R 06 Other land type Notification Small Quantity Generator Handlers that generate more tha less than 1000 kilograms of haza waste during any calendar mont accumulate less than 6000 kg of hazardous waste at any time; or generate 100 kg or less of hazar waste during any calendar mont accumulate more than 1000 kg of hazardous waste at any time.	an 100 and ardous h and : dous h, and of
Owner/Operator Summary : Owner Operator nam Owner Operator add Owner Operator cou Owner Operator tele Legal status : Owner Operator Tyl Owner/Op start date Owner/Op end date	me : dress : untry : ephone : be : e : : me :	H L GALLES P O BOX 25928 ALBUQUERQUE, N/R (505) 766-6800 Private Owner N/R N/R HL GALLES	NM 87125
Owner Operator add Owner Operator cod Owner Operator teld Legal status : Owner Operator Typ Owner/Op start date Owner/Op end date	dress : untry : ephone : pe : e : :	UNKNOWN UNKNOWN, NM 0000 N/R (000) 000-0000 Private Operator N/R N/R	0-0000
Handler Activities Summary : U.S. importer of haz Mixed waste (haz. a Recycler of hazardo Transporter of haza	ardous waste : ind radioactive) : ius waste : rdous waste :	No No No	

Map Id: 3 Direction: NNE Distance: 0.090 mi. Actual: 475.293 ft. Elevation: 0.966 mi. / 5102.001 ft. Relative: Lower	Site Name: Database(s):	GALLES CHEVROLET CO 1601 LOMAS BLVD NE ALBUQUERQUE, NM 87103 [RCRA_SQG] <b>(Cont.)</b>	Envirosite ID: 15174106 EPA ID: NMD005870928
RCRA_SQG (Cont.)			
Treater storer or dis Underground inject On-site burner exer Furnace exemption Used oil fuel burner Used oil processor : Used oil refiner : Used oil fuel marke Used oil Specificatio Used oil transfer fac	sposer of HW : ion activity : nption : : : : ter to burner : on marketer : cility :	No No No No No No No No	
Used oil transporter Hazardous Waste Summary : Waste code : Waste name :	· :	No D001 IGNITABLE WASTE	
Facility Has Received Notices Regulation violated Area of violation : Date violation : Date achieved com Violation lead agen Enforcement action Enf. disposition stat Enf. disp. status dai Enforcement lead a Proposed penalty a Final penalty amour	of Violations : : pliance : cy : : date : cus : te : gency : mount : nt :	No N/R 10/20/2004 N/R N/R N/R N/R N/R N/R N/R N/R N/R N/R	
Evaluation Action Summary : Evaluation date : Evaluation : Area of violation : Date achieved com Evaluation lead age	pliance : ency :	10/20/2004 COMPLIANCE EVALUATION INSI N/R N/R State	PECTION ON-SITE

Map Id: 4 Direction: NW Distance: 0.186 mi. Actual: 980.920 ft. Elevation: 0.963 mi. / 5086.001 ft. Relative: Lower

# Site Name: GALLES CHEVROLET USED VEHICLES 1300 LOMAS NE ALBUQUERQUE, NM 87102 Database(s): [RCRA\_CESQG]

Envirosite ID: 13501753 EPA ID: NMD035699594

2015

#### RCRA\_CESQG

Date form received by agency : Facility name : Facility address : EPA ID : Mailing address : Contact : Contact address : Contact country : Contact country : Contact telephone : Contact telephone : Contact email : EPA Region : Land type : Source type : Classification : Description :

Owner/Operator Summary : Owner Operator name :

08/24/2005 GALLES CHEVROLET USED VEHICLES 1300 LOMAS NE ALBUQUERQUE, NM 87102 NMD035699594 1300 LOMAS NE ALBUQUERQUE, NM 87102 **BLAINE BJORKAMAN** 1601 LOMAS NE ALBUQUERQUE, NM 87102 US (505) 766-6800 N/R 06 Private Notification Conditionally Exempt Small Quantity Generator Handlers that generate 100 kilograms or less of hazardous waste per calendar month, and accumulate 1000 kg or less of hazardous waste at any time; or generate one kilogram or less of acutely hazardous waste per calendar month, and accumulate at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generate 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulate at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste.

**PILORENZO JAMES** 

Map ld: 4 Direction: NW Distance: 0.186 mi. Actual: 980.920 ft. Elevation: 0.963 mi. / 5086.001 ft.	Site Name:	GALLES CHEVROLET USED VEHICLES 1300 LOMAS NE ALBUQUERQUE, NM 87102	Envirosite ID: 13501753 EPA ID: NMD035699594
Relative: Lower	Database(s):	[RCRA_CESQG] (Cont.)	
RCRA_CESQG (Cont.)			
Owner Operator ad	dress :	UNKNOWN UNKNOWN, NM 0000	0-0000
Owner Operator co	untry :	N/R	
Owner Operator tel	ephone :	(000) 000-0000	
Legal status :		Private	
Owner Operator Ty	pe:	Operator	
Owner/Op start dat	e :	N/R	
Owner/Op end date	:	N/R	
Owner Operator na	me :	SANDIA FOUNDATION	
Owner Operator ad	dress :	TWO WOODWARD CNTR ALBUQU	JERQUE, NM 87102
Owner Operator co	untry :	N/R	
Owner Operator tel	ephone :	(505) 242-2684	
Legal status :		Private	
Owner Operator Ty	pe:	Owner	
Owner/Op start dat	e :	N/R	
Owner/Op end date	:	N/R	
Handler Activities Summary :			
U.S. importer of haz	zardous waste :	No	
Mixed waste (haz. a	and radioactive) :	No	
Recycler of hazardo	ous waste :	No	
Transporter of haza	rdous waste :	No	
Treater storer or dis	sposer of HW :	No	
Underground inject	ion activity :	No	
On-site burner exer	nption :	No	
Furnace exemption	:	No	
Used oil fuel burner	•	No	
Used oil processor :		No	
Used oil refiner :		No	
Used oil fuel marke	ter to burner :	No	
Used oil Specificatio	on marketer :	No	
Used oil transfer fac Used oil transporter	cility : r :	NO NO	
·			
Historical Generators :			
Date form received	by agency :	07/18/2001	
Facility name :		GALLES CHEVROLET USED VEHIC	CLES
Classification :		Small Quantity Generator	
Date form received	by agency :	06/30/1999	
Facility name :		GALLES CHEVROLET USED VEHIC	CLES

2015

Map ld: 4 Direction: NW Distance: 0.186 mi. Actual: 980.920 ft. Elevation: 0.963 mi. / 5086.001 ft. Relative: Lower	Site Name: Database(s):	GALLES CHEVROLET USED VEHICLES 1300 LOMAS NE ALBUQUERQUE, NM 87102 [RCRA_CESQG] <b>(Cont.)</b>	Envirosite ID: 13501753 EPA ID: NMD035699594	
RCRA CESOG (Cont.)			1	
Classification :		Small Quantity Generator		
Hazardous Waste Summary :		D001		
Waste code :				
waste name :		IGNITABLE WASTE		
Waste code :		D018		
Waste name :		BENZENE		
Waste code :		D035		
Waste name :		METHYL ETHYL KETONE		
Waste code :		D040		
Waste name :		TRICHLORETHYLENE		
Waste code :		F003		
Waste name :		THE FOLLOWING SPENT NONHAL SOLVENTS: XYLENE, ACETONE, E ACETATE, ETHYL BENZENE, ETHY METHYL ISOBUTYL KETONE, N-BU CYCLOHEXANONE, AND METHAN SOLVENT MIXTURES/BLENDS CON BEFORE USE, ONLY THE ABOVE S NONHALOGENATED SOLVENTS; A SOLVENT MIXTURES/BLENDS CON BEFORE USE, ONE OR MORE OF T NONHALOGENATED SOLVENTS, A TEN PERCENT OR MORE (BY VOLU OR MORE OF THOSE SOLVENTS L F001, F002, F004, AND F005; ANI BOTTOMS FROM THE RECOVERY SOLVENTS AND SPENT SOLVENT	OGENATED THYL 'L ETHER, JTYL ALCOHOL, OL; ALL SPENT NTAINING, SPENT AND ALL SPENT NTAINING, THE ABOVE AND A TOTAL OF JME) OF ONE JSTED IN D STILL OF THESE SPENT MIXTURES.	
Waste code : Waste name :		F005 THE FOLLOWING SPENT NONHAL SOLVENTS: TOLUENE, METHYL ET CARBON DISULFIDE, ISOBUTANO BENZENE, 2-ETHOXYETHANOL, A 2-NITROPROPANE; ALL SPENT SO MIXTURES/BLENDS CONTAINING, A TOTAL OF TEN PERCENT OR MO VOLUME) OF ONE OR MORE OF T	OGENATED THYL KETONE, L, PYRIDINE, ND LVENT BEFORE USE, DRE (BY HE ABOVE	

Page 21 of Page 76

Map Id: 4
Direction: NW
Distance: 0.186 mi.
Actual: 980.920 ft.
Elevation: 0.963 mi. / 5086.001 ft.
Relative: Lower

# Site Name: GALLES CHEVROLET USED VEHICLES 1300 LOMAS NE ALBUQUERQUE, NM 87102 Database(s): [RCRA\_CESQG] (Cont.)

No

N/R

N/R

N/R

N/R

N/R

N/R

N/R

N/R

N/R

10/20/2004

Envirosite ID: 13501753 EPA ID: NMD035699594

#### RCRA\_CESQG (Cont.)

NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations :

Regulation violated : Area of violation : Date violation : Date achieved compliance : Violation lead agency : Enforcement action date : Enf. disposition status : Enf. disposition status : Enf. disp. status date : Enforcement lead agency : Proposed penalty amount : Final penalty amount : Paid penalty amount : Evaluation Action Summary : Evaluation date :

Evaluation :

Area of violation :

Date achieved compliance :

Evaluation lead agency :

N/R N/R 10/20/2004 COMPLIANCE EVALUATION INSPECTION ON-SITE N/R N/R State

Map Id: 5 Direction: NW Distance: 0.189 mi. Actual: 1000.340 ft.	Site Name:	QUALITY PONTIAC 1300 LOMAS BLVD NE ALBUQUERQUE, NM	Envirosite ID: 11357529 EPA ID: N/R
Elevation: 0.963 mi. / 5086.001 ft. Relative: Lower	Database(s):	[LTANKS - NM]	

LTANKS - NM

<u>epa id</u> N/R Attribute ID 27273019 Envirosite ID 11357529 Address1 1300 LOMAS BLVD NE

Map Id: 5 Direction: NW Distance: 0.189 mi. Actual: 1000.340 ft. Elevation: 0.963 mi. / 5086.001 ft. Relative: Lower	Site Name: Database(s):	QUALITY PONTIAC 1300 LOMAS BLVD NE ALBUQUERQUE, NM [LTANKS - NM] <b>(Cont.)</b>		Envirosite ID: 11357529 EPA ID: N/R
LTANKS - NM <b>(Cont.)</b>				
Address2 N/R	<b>City</b> ALBUQUER(	QUE	<u>Country</u> USA	<u>County</u> BERNALILLO
<u>Name</u> QUALITY PONTIAC	<u>State</u> NEW MEXI	со	<b>Zip</b> N/R	<b>Zip4</b> N/R
<u>State code</u> NM	<u>RID</u> 3534		<u>FID</u> 1696	<u>Status</u> Cleanup, Responsible Party
Project Manager TERRY HERTEL	<b>City</b> ALBUQUER(	QUE 1300	Address LOMAS BLVD NE	

Map Id: 6	
Direction: NW	
Distance: 0.247 mi.	
Actual: 1306.298 ft.	
Elevation: 0.964 mi. / 5089 ft.	
Relative: Lower	

Site Name: MELLOY BIG I 1200 LOMAS BLVD NE ALBUQUERQUE, NM 87102 Database(s): [RCRA\_SQG]

Envirosite ID: 15174302 EPA ID: NMD981512346

RCRA\_SQG

Date form received by agency : Facility name : Facility address : EPA ID : Mailing address : Contact : Contact address : Contact country : Contact country : Contact telephone : Contact telephone : Contact email : EPA Region : Land type : Source type : Classification : Description : 03/07/2008 MELLOY BIG I 1200 LOMAS BLVD NE ALBUQUERQUE, NM 87102 NMD981512346 1200 LOMAS BLVD NE ALBUQUERQUE, NM 87102 JAMES CASSELL 1200 LOMAS BLVD NE ALBUQUERQUE, NM 87102 US 505-843-9600 SERVICE@MELLOYDODGE.COM 06 Private Notification Small Quantity Generator Handlers that generate more than 100 and less than 1000 kilograms of hazardous waste during any calendar month and accumulate less than 6000 kg of hazardous waste at any time; or generate 100 kg or less of hazardous

Map Id: 6 Direction: NW Distance: 0.247 mi. Actual: 1306.298 ft.	Site Name:	MELLOY BIG I 1200 LOMAS BLVD NE ALBUQUERQUE, NM 87102	Envirosite ID: 15174302 EPA ID: NMD981512346
Elevation: 0.964 mi. / 5089 ft. Relative: Lower	Database(s):	[RCRA_SQG] <b>(Cont.)</b>	
RCRA_SQG (Cont.)			
		waste during any calendar mont	h, and
		accumulate more than 1000 kg o	of
		hazardous waste at any time.	
Owner/Operator Summary :			
Owner Operator na	me :	MELLOYS BIG I	
Owner Operator ad	dress :	1200 LOMAS BLVD NE ALBUQUE	RQUE, NM 87102
Owner Operator co	untry :	US	
Owner Operator tel	ephone :	N/R	
Legal status :		Private	
Owner Operator Ty	pe :	Operator	
Owner/Op start dat	e :	01/01/1981	
Owner/Op end date		N/R	
Owner Operator na	me :	CHRYSLER REALITY	
Owner Operator ad	dress :	9336 LOVEWELL CT ELK GROVE,	CA 95758
Owner Operator co	untry :	US	
Owner Operator tel	ephone :	N/R	
Legal status :		Private	
Owner Operator Ty	pe :	Owner	
Owner/Op start dat	e :	N/R	
Owner/Op end date	2:	N/R	
Handler Activities Summary :			
U.S. importer of haz	zardous waste :	No	
Mixed waste (haz. a	and radioactive) :	No	
Recycler of hazardo	ous waste :	No	
I ransporter of haza	irdous waste :	NO	
l reater storer or di	sposer of HW :	NO	
On cite hurper ever	ion activity :	NO	
Europeo exemption		No	
	•	No	
		No	
Used oil refiner :	•	No	
Used oil fuel marke	ter to burner :	No	
Used oil Specificatio	on marketer :	No	
Used oil transfer fa	cility :	No	
Used oil transporter	r:	No	
Historical Generators :			
Date form received	by agency :	05/27/1986	

Map Id: 6	Site Name:	MELLOY BIG I	
Distance: 0.247 mi. Actual: 1306.298 ft.		1200 LOMAS BLVD NE ALBUQUERQUE, NM 87102	Envirosite ID: 15174302
Elevation: 0.964 mi. / 5089 ft. Relative: Lower	Database(s):	[RCRA_SQG] (Cont.)	EPA ID. NMD901312340
RCRA_SQG (Cont.)			
Facility name ·			
Classification :		Small Quantity Generator	
Hazardous Waste Summary :			
Waste code :		D001	
Waste name :		IGNITABLE WASTE	
Waste code :		D039	
Waste name :		TETRACHLOROETHYLENE	
Facility Has Received Notices	of Violations :		
Regulation violated	:	Yes	
Area of violation :		Generators - General	
Date violation :		04/25/2005	
Date achieved com	pliance :	07/20/2005	
Violation lead agen	cy :	State	
Enforcement action	1:	WRITTEN INFORMAL	
Enforcement action	date :	07/20/2005	
Ent. disposition stat	LUS :	N/R	
Enf. disp. status dai	te :	N/K State	
Branasad papalty a	igency :	State	
Final populty amount	nt :	N/R	
Paid penalty amour	nt :	N/R	
Pegulation violated		Vac	
	•	Generators - Pre-transport	
Date violation :		04/21/2009	
Date achieved com	pliance ·	04/21/2009	
Violation lead agen	CV :	State	
Enforcement action		WRITTEN INFORMAL	
Enforcement action	date :	05/20/2009	
Enf. disposition stat	us :	N/R	
Enf. disp. status dat	te :	N/R	
Enforcement lead a	gency :	State	
Proposed penalty a	mount :	N/R	
Final penalty amou	nt :	N/R	
Paid penalty amour	nt :	N/R	
Regulation violated	:	Yes	

Map Id: 6 Direction: NW Distance: 0.247 mi. Actual: 1306.298 ft. Elevation: 0.964 mi. / 5089 ft. Relative: Lower

# Site Name: MELLOY BIG I 1200 LOMAS BLVD NE ALBUQUERQUE, NM 87102 Database(s): [RCRA\_SQG] (Cont.)

Envirosite ID: 15174302 EPA ID: NMD981512346

#### RCRA\_SQG (Cont.)

Area of violation : State Statute or Regulation Date violation : 04/25/2005 Date achieved compliance : 07/20/2005 Violation lead agency : State WRITTEN INFORMAL Enforcement action : Enforcement action date : 07/20/2005 Enf. disposition status : N/R Enf. disp. status date : N/R Enforcement lead agency : State N/R Proposed penalty amount : Final penalty amount : N/R Paid penalty amount : N/R Regulation violated : Yes Area of violation : Used Oil - Generators Date violation : 04/21/2009 Date achieved compliance : 04/22/2009 Violation lead agency : State Enforcement action : WRITTEN INFORMAL Enforcement action date : 05/20/2009 Enf. disposition status : N/R N/R Enf. disp. status date : Enforcement lead agency : State Proposed penalty amount : N/R N/R Final penalty amount : Paid penalty amount : N/R Regulation violated : Yes Area of violation : Universal Waste - Small Quantity Handlers Date violation : 04/21/2009 Date achieved compliance : 04/21/2009 Violation lead agency : State Enforcement action : WRITTEN INFORMAL 05/20/2009 Enforcement action date : Enf. disposition status : N/R Enf. disp. status date : N/R Enforcement lead agency : State Proposed penalty amount : N/R Final penalty amount : N/R

N/R

Paid penalty amount :

Map Id: 6 Direction: NW Distance: 0.247 mi. Actual: 1306.298 ft. Elevation: 0.964 mi. / 5089 ft. Relative: Lower

#### RCRA\_SQG (Cont.)

Evaluation Action Summary : Evaluation date : Evaluation : Area of violation : Date achieved compliance : Evaluation lead agency :

> Evaluation date : Evaluation : Area of violation : Date achieved compliance : Evaluation lead agency :

> Evaluation date : Evaluation : Area of violation : Date achieved compliance : Evaluation lead agency :

> Evaluation date : Evaluation : Area of violation : Date achieved compliance : Evaluation lead agency :

> Evaluation date : Evaluation : Area of violation : Date achieved compliance : Evaluation lead agency :

Site Name: MELLOY BIG I 1200 LOMAS BLVD NE ALBUQUERQUE, NM 87102

Database(s): [RCRA\_SQG] (Cont.)

Envirosite ID: 15174302 EPA ID: NMD981512346

2015

04/25/2005 COMPLIANCE EVALUATION INSPECTION ON-SITE Generators - General 07/20/2005 State

04/21/2009 COMPLIANCE EVALUATION INSPECTION ON-SITE Generators - Pre-transport 04/21/2009 State

04/25/2005 COMPLIANCE EVALUATION INSPECTION ON-SITE State Statute or Regulation 07/20/2005 State

04/21/2009 COMPLIANCE EVALUATION INSPECTION ON-SITE Used Oil - Generators 04/22/2009 State

04/21/2009 COMPLIANCE EVALUATION INSPECTION ON-SITE Universal Waste - Small Quantity Handlers 04/21/2009 State

Map ld: 7 Direction: S Distance: 0.386 mi. Actual: 2039.467 ft. Elevation: 0.973 mi. / 5140 ft. Relative: Higher	Site Name: Database(s):	FORD UTILITII 300 UNIVERS ALBUQUERQU [LTANKS - NM	ES BUILDING TY BLVD NE IE, NM ]	Envirosite ID: 11357500 EPA ID: N/R
LTANKS - NM				
<b>EPA ID</b>	<b>Attribute</b> 2727299	<b>ID</b>	<b>Envirosite ID</b>	Address1
N/R		0	11357500	300 UNIVERSITY BLVD NE
Address2	<u>City</u>	QUE	<u>Country</u>	<u>County</u>
N/R	ALBUQUERO		USA	BERNALILLO
<u>Name</u>	<u>State</u>	CO	<b>Zip</b>	<u>Zip4</u>
FORD UTILITIES BUILDING	NEW MEXIO		N/R	N/R
<u>State code</u>	<b>RID</b>		<b>FID</b>	<b>Status</b>
NM	3207		28077	Cleanup, Responsible Party
Project Manager DAWN BASCOMB	<u>City</u> ALBUQUERO	QUE	<u>Address</u> 300 UNIVERSITY BLVD NE	

Map Id: 8	
Direction: W	
Distance: 0.823 mi.	
Actual: 4348.013 ft.	
Elevation: 0.945 mi. / 4991.001 ft.	
Relative: Lower	
Elevation: 0.945 mi. / 4991.001 ft.	
Relative: Lower	

Site Name:	FRUIT AVENUE PLUME NEAR INTERSECTION OF EDITH AND GRAND AVE ALBUQUERQUE, NM 87102
Database(s):	[CERCLIS, FED E C, FED I C, FED-Published Institutional Controls, NPL, ROD]

Envirosite ID: 460558 EPA ID: NMD986668911

**2015** 

# CERCLIS

Envirosite ID :	460558
EPA ID :	NMD986668911
Facility County :	BERNALILLO
Short Name :	FRUIT AVENUE PLUME
Congressional District :	1
IFMS ID :	06DD
SMSA Number :	200
USGC Hydro Unit :	13020203
Federal Facility :	No
DMNSN Number :	N/R
Site Orphan Flag :	Ν
RCRA ID :	Y
USGS Quadrangle :	N/R
Site Init by Prog :	N/R

Map Id: 8 Direction: W Distance: 0.823 mi. Actual: 4348.013 ft. Elevation: 0.945 mi. / 4991.001 ft. Relative: Lower

Site Name:	FRUIT AVENUE PLUME NEAR INTERSECTION OF EDITH AND GRAND AVE ALBUQUERQUE, NM 87102
Database(s):	[CERCLIS, FED E C, FED I C, FED-Published Institutional Controls, NPL, ROD] (Cont.)

Envirosite ID: 460558 EPA ID: NMD986668911

NFRAP Flag :	N/R
Parent ID :	N/R
RST Code :	N/R
EPA Region :	6
Classification :	G
Site Settings Code :	CL
NPL Status :	F - Currently on the Final NPL
DMNSN Unit Code :	N/R
RBRAC Code :	N/R
RResp Fed Agency Code :	N/R
Non NPL Status :	N/R
Non NPL Status Date :	N/R
Site Fips Code :	35001
CC Concurrence Date :	12/5/2006 12:00:00 AM
CC Concurrence FY :	2007
Alias EPA ID :	N/R
Site FUDS Flag :	N/R
CERCLIS Site Contact Name(s) :	
Contact ID :	13003780
Contact Name :	Ladonna Turner
Contact Tel. :	(214) 665-6666
Contact Title :	Site Assessment Manager (SAM)
Contact Email :	N/R
Contact ID :	12004216
Contact ID :	Stove Harper
	(214) 665-2727
Contact Tel. :	(214) 005-2727
Contact Finail :	
Contact ID :	6270019
Contact Name :	Ladonna Walker
Contact Tel. :	(214) 665-6666
Contact Title :	Site Assessment Manager (SAM)
Contact Email :	N/R

Map Id: 8 Direction: W Distance: 0.823 mi. Actual: 4348.013 ft. Elevation: 0.945 mi. / 4991.001 ft. Relative: Lower

ft.	Site Name:	FRUIT AVENUE PLUME NEAR INTERSECTION OF EDITH AND GRAND AVE AI BUOUFROUE, NM 87102
	Database(s):	[CERCLIS, FED E C, FED I C, FED-Published Institutional Controls, NPL, ROD] (Cont.)

Envirosite ID: 460558 EPA ID: NMD986668911

Contact ID :	6270181
Contact Name :	Bart Canellas
Contact Tel. :	(214) 665-6662
Contact Title :	Remedial Project Manager (RPM)
Contact Email :	N/R
Alias Comments :	ALBUQUERQUE INDUSTRIAL CENTER
Site Description :	N/R
Alias Comments :	ELITE CLEANERS
Site Description :	N/R
Alias Comments :	FRUIT STREET PLUME
Site Description :	N/R
Alias Comments :	FRUIT AVENUE PLUME
Site Description :	N/R
Alias Comments :	FRUIT AVENUE PLUME
Site Description :	N/R
CERCLIS Assessment History : Action Code : Action : Date Started : Date Completed : Priority Level : Operational Unit : Primary Responsibility : Planning Status : Urgency Indicator : Action Anomaly :	1 ADMINISTRATIVE RECORDS N/R 09/27/2001 1 0 F - EPA Fund-Financed N/R N/R N/R
Action Code :	1
Action :	PRELIMINARY CLOSE-OUT REPORT PREPARED
Date Started :	N/R
Date Completed :	12/05/2006

Map Id: 8 Direction: W Distance: 0.823 mi. Actual: 4348.013 ft. Elevation: 0.945 mi. / 4991.001 ft. Relative: Lower

Site Name:	FRUIT AVENUE PLUME NEAR INTERSECTION OF EDITH AND GRAND AVE ALBUQUERQUE, NM 87102
Database(s):	[CERCLIS, FED E C, FED I C, FED-Published Institutional Controls, NPL, ROD] ( <i>Cont.)</i>

Envirosite ID: 460558 EPA ID: NMD986668911

Priority Level :	1
Operational Unit :	I
Primary Responsibility :	F - EPA Fund-Financed
Planning Status :	N/R
Urgency Indicator :	N/R
Action Anomaly :	N/R
Action Code :	1
Action :	COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started :	09/09/1996
Date Completed :	09/27/2001
Priority Level :	1
Operational Unit :	1
Primary Responsibility :	S - State, Fund Financed
Planning Status :	N/R
Urgency Indicator :	N/R
Action Anomaly :	N/R
Action Code :	1
Action :	COMMUNITY INVOLVEMENT
Date Started :	12/01/1997
Date Completed :	02/04/2005
Priority Level :	1
Operational Unit :	1
Primary Responsibility :	F - EPA Fund-Financed
Planning Status :	N/R
Urgency Indicator :	N/R
Action Anomaly :	N/R
Action Code :	1
Action :	DISCOVERY
Date Started :	N/R
Date Completed :	01/01/1990
Priority Level :	1
Operational Unit :	0
Primary Responsibility :	F - EPA Fund-Financed
Planning Status :	N/R
Urgency Indicator :	N/R
Action Anomaly :	N/R

Map Id: 8 Direction: W Distance: 0.823 mi. Actual: 4348.013 ft. Elevation: 0.945 mi. / 4991.001 ft. Relative: Lower

Site Name:	FRUIT AVENUE PLUME NEAR INTERSECTION OF EDITH AND GRAND AVE ALBUQUERQUE, NM 87102
Database(s):	[CERCLIS, FED E C, FED I C, FED-Published Institutional Controls, NPL, ROD] ( <i>Cont.)</i>

Envirosite ID: 460558 EPA ID: NMD986668911

Action Code :	1
Action :	Explanation Of Significant Differences
Date Started :	N/R
Date Completed :	09/18/2006
Priority Level :	2
Operational Unit :	1
Primary Responsibility :	F - EPA Fund-Financed
Planning Status :	N/R
Urgency Indicator :	N/R
Action Anomaly :	N/R
Action Code :	1
Action :	EXPANDED SITE INSPECTION
Date Started :	10/01/1996
Date Completed :	10/01/1998
Priority Level :	1
Operational Unit :	0
Primary Responsibility :	F - EPA Fund-Financed
Planning Status :	N/R
Urgency Indicator :	N/R
Action Anomaly :	N/R
Action Code :	1
Action :	FIVE-YEAR REVIEW
Date Started :	03/09/2011
Date Completed :	12/23/2011
Priority Level :	1
Operational Unit :	1
Primary Responsibility :	F - EPA Fund-Financed
Planning Status :	N/R
Urgency Indicator :	N/R
Action Anomaly :	N/R
Action Code :	1
Action :	HAZARD RANKING SYSTEM PACKAGE
Date Started :	N/R
Date Completed :	07/22/1999
Priority Level :	1
Operational Unit :	0
Site Name:	FRUIT AVENUE PLUME NEAR INTERSECTION OF EDITH AND GRAND AVE ALBUQUERQUE, NM 87102
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Database(s):	[CERCLIS, FED E C, FED I C, FED-Published Institutional Controls, NPL, ROD] <b>(Cont.)</b>

Envirosite ID: 460558 EPA ID: NMD986668911

#### CERCLIS (Cont.)

Primary Responsibility :	F - EPA Fund-Financed
	N/R
ACTION ANOMALY .	N/R
Action Code :	1
Action :	LONG TERM RESPONSE ACTION
Date Started :	08/26/2007
Date Completed :	N/R
Priority Level :	1
Operational Unit :	1
Primary Responsibility :	F - EPA Fund-Financed
Planning Status :	N/R
Urgency Indicator :	N/R
Action Anomaly :	N/R
Action Code :	1
Action :	FINAL LISTING ON NATIONAL PRIORITIES LIST
Date Started :	N/R
Date Completed :	10/22/1999
Priority Level :	1
Operational Unit :	1
Primary Responsibility :	F - EPA Fund-Financed
Planning Status :	N/R
Urgency Indicator :	N/R
Action Anomaly :	N/R
Action Code :	1
Action :	PROPOSAL TO NATIONAL PRIORITIES LIST
Date Started :	N/R
Date Completed :	07/22/1999
Priority Level :	1
Operational Unit :	0
Primary Responsibility :	F - EPA Fund-Financed
Planning Status :	N/R
Urgency Indicator :	N/R
Action Anomaly :	N/R
Action Code :	1

Site Name:	FRUIT AVENUE PLUME NEAR INTERSECTION OF EDITH AND GRAND AVE ALBUQUERQUE, NM 87102
Database(s):	[CERCLIS, FED E C, FED I C, FED-Published Institutional Controls, NPL, ROD] ( <i>Cont.)</i>

Envirosite ID: 460558 EPA ID: NMD986668911

#### CERCLIS (Cont.)

Action :	NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH
Date Started :	11/18/2003
Date Completed :	03/22/2004
Priority Level :	1
Operational Unit :	0
Primary Responsibility :	FE - Federal Enforcement
Planning Status :	N/R
Urgency Indicator :	N/R
Action Anomaly :	N/R
Action Code : Action : Date Started : Date Completed : Priority Level : Operational Unit : Primary Responsibility : Planning Status : Urgency Indicator : Action Anomaly :	1 PRELIMINARY ASSESSMENT N/R 0 S - State, Fund Financed N/R N/R N/R
Action Code :	1
Action :	REMEDIAL ACTION
Date Started :	08/29/2003
Date Completed :	05/03/2006
Priority Level :	1
Operational Unit :	1
Primary Responsibility :	F - EPA Fund-Financed
Planning Status :	N/R
Urgency Indicator :	5 - Long Term Action
Action Anomaly :	N/R
Action Code :	1
Action :	REMEDIAL DESIGN
Date Started :	09/15/1999
Date Completed :	06/30/2003
Priority Level :	1
Operational Unit :	1
Primary Responsibility :	F - EPA Fund-Financed

Site Name:	FRUIT AVENUE PLUME NEAR INTERSECTION OF EDITH AND GRAND AVE ALBUQUERQUE, NM 87102
Database(s):	[CERCLIS, FED E C, FED I C, FED-Published Institutional Controls, NPL, ROD] ( <i>Cont.</i> )

Envirosite ID: 460558 EPA ID: NMD986668911

#### CERCLIS (Cont.)

Planning Status :	P - Primary
Urgency Indicator :	N/R
Action Anomaly :	N/R
Action Code :	2
Action :	REMEDIAL DESIGN
Date Started :	01/30/2004
Date Completed :	05/03/2006
Priority Level :	1
Operational Unit :	1
Primary Responsibility :	F - EPA Fund-Financed
Planning Status :	N/R
Urgency Indicator :	N/R
Action Anomaly :	N/R
Action Code :	1
Action :	RECORD OF DECISION
Date Started :	N/R
Date Completed :	09/27/2001
Priority Level :	1
Operational Unit :	1
Primary Responsibility :	F - EPA Fund-Financed
Planning Status :	P - Primary
Urgency Indicator :	N/R
Action Anomaly :	N/R
Action Code :	1
Action :	NON-NATIONAL PRIORITIES LIST POTENTIALLY RESPONSIBLE PARTY SEARCH
Date Started :	09/01/1997
Date Completed :	11/18/2003
Priority Level :	1
Operational Unit :	0
Primary Responsibility :	FE - Federal Enforcement
Planning Status :	N/R
Urgency Indicator :	N/R
Action Anomaly :	N/R
Action Code :	1
Action :	SITE INSPECTION

Site Name:	FRUIT AVENUE PLUME NEAR INTERSECTION OF EDITH AND GRAND AVE ALBUQUERQUE, NM 87102
Database(s):	[CERCLIS, FED E C, FED I C, FED-Published Institutional Controls, NPL, ROD] ( <i>Cont.)</i>

Envirosite ID: 460558 EPA ID: NMD986668911

#### CERCLIS (Cont.)

Date Started :	02/10/1993
Date Completed :	10/01/1996
Priority Level :	1
Operational Unit :	0
Primary Responsibility :	S - State, Fund Financed
Planning Status :	N/R
Urgency Indicator :	N/R
Action Anomaly :	N/R
Action Code :	1
Action :	TECHNICAL ASSISTANCE GRANT
Date Started :	05/15/2002
Date Completed :	02/04/2005
Priority Level :	1
Operational Unit :	0
Primary Responsibility :	F - EPA Fund-Financed
Planning Status :	N/R
Urgency Indicator :	N/R
Action Anomaly :	N/R

#### FED E C

US ENG CONTROLS : EPA ID : Site ID : Name : Address : EPA Region : County : Action ID :

Action Name : Action Completion Date : Planned Completion Date : Operable Unit : Contaminated Media : NMD986668911 0604068 FRUIT AVENUE PLUME NEAR INTERSECTION OF EDITH AND GRAND AVE ALBUQUERQUE, 87102 06 BERNALILLO

001 Explanation Of Significant Differences 09/18/2006 09/30/2006 01 Groundwater

# Site Name:FRUIT AVENUE PLUME<br/>NEAR INTERSECTION OF EDITH AND GRAND<br/>AVE<br/>ALBUQUERQUE, NM 87102Database(s):[CERCLIS, FED E C, FED I C, FED-Published<br/>Institutional Controls, NPL, ROD] (Cont.)

Envirosite ID: 460558 EPA ID: NMD986668911

2015

#### FED E C (Cont.)

Engineering Control :

Air Stripping

Action ID : Action Name : Action Completion Date : Planned Completion Date : Operable Unit : Contaminated Media : Engineering Control :

Action ID : Action Name : Action Completion Date : Planned Completion Date : Operable Unit : Contaminated Media : Engineering Control :

Action ID : Action Name : Action Completion Date : Planned Completion Date : Operable Unit : Contaminated Media : Engineering Control :

Action ID : Action Name : Action Completion Date : Planned Completion Date : Operable Unit : Contaminated Media : Engineering Control :

Action ID : Action Name : Action Completion Date : Planned Completion Date : 001 Explanation Of Significant Differences 09/18/2006 09/30/2006 01 Groundwater Monitoring

001

Explanation Of Significant Differences 09/18/2006 09/30/2006 01 Groundwater Natural Attenuation

001 RECORD OF DECISION 09/27/2001 09/30/2001 01 Groundwater Air Stripping

001 RECORD OF DECISION 09/27/2001 09/30/2001 01 Groundwater Bioremediation (In-Situ)

001 RECORD OF DECISION 09/27/2001 09/30/2001

## Map Findings

Map Id: 8 Direction: W Distance: 0.823 mi. Actual: 4348.013 ft. Elevation: 0.945 mi. / 4991.001 ft. Relative: Lower

Site Name:	FRUIT AVENUE PLUME NEAR INTERSECTION OF EDITH AND GRAND AVE ALBUQUERQUE, NM 87102
Database(s):	[CERCLIS, FED E C, FED I C, FED-Published Institutional Controls, NPL, ROD] ( <i>Cont.</i> )

Envirosite ID: 460558 EPA ID: NMD986668911

2015

#### FED E C (Cont.)

Operable Unit : Contaminated Media : Engineering Control :

Action ID : Action Name : Action Completion Date : Planned Completion Date : Operable Unit : Contaminated Media : Engineering Control :

Action ID : Action Name : Action Completion Date : Planned Completion Date : Operable Unit : Contaminated Media : Engineering Control :

Action ID : Action Name : Action Completion Date : Planned Completion Date : Operable Unit : Contaminated Media : Engineering Control :

Action ID : Action Name : Action Completion Date : Planned Completion Date : Operable Unit : Contaminated Media : Engineering Control :

Action ID : Action Name : 01 Groundwater Carbon Adsorption

001 RECORD OF DECISION 09/27/2001 09/30/2001 01 Groundwater Extraction

001 RECORD OF DECISION 09/27/2001 09/30/2001 01 Groundwater Liquid Phase Carbon Adsorption

001 RECORD OF DECISION 09/27/2001 09/30/2001 01 Groundwater Operations & Maintenance (O&M)

001 RECORD OF DECISION 09/27/2001 09/30/2001 01 Groundwater Physical/Chemical Treatment, (In-Situ.)

001 RECORD OF DECISION

Site Name:	FRUIT AVENUE PLUME NEAR INTERSECTION OF EDITH AND GRAND AVE ALBUQUERQUE, NM 87102
Database(s):	[CERCLIS, FED E C, FED I C, FED-Published Institutional Controls, NPL, ROD] ( <i>Cont.</i> )

09/27/2001

09/30/2001

01

Envirosite ID: 460558 EPA ID: NMD986668911

#### FED E C (Cont.)

Action Completion Date : Planned Completion Date : Operable Unit : Contaminated Media : Engineering Control :

Action ID : Action Name : Action Completion Date : Planned Completion Date : Operable Unit : Contaminated Media : Engineering Control :

Action ID : Action Name : Action Completion Date : Planned Completion Date : Operable Unit : Contaminated Media : Engineering Control :

Action ID : Action Name : Action Completion Date : Planned Completion Date : Operable Unit : Contaminated Media : Engineering Control :

Action ID : Action Name : Action Completion Date : Planned Completion Date : Operable Unit : Contaminated Media : Engineering Control : Groundwater Publicly Owned Treatment Works (POTW) 001 RECORD OF DECISION 09/27/2001 09/30/2001 01 Groundwater Reinjection

001 RECORD OF DECISION 09/27/2001 09/30/2001 01 Soil Carbon Adsorption

001 RECORD OF DECISION 09/27/2001 09/30/2001 01 Soil Discharge

001 RECORD OF DECISION 09/27/2001 09/30/2001 01 Soil Soil Vapor Extraction (in-situ)

FED I C

2015

Site Name:	FRUIT AVENUE PLUME NEAR INTERSECTION OF EDITH AND GRAND AVE ALBUQUERQUE, NM 87102
Database(s):	[CERCLIS, FED E C, FED I C, FED-Published Institutional Controls, NPL, ROD] (Cont.)

Envirosite ID: 460558 EPA ID: NMD9866668911

#### FED I C (Cont.)

US INST CONTROL : EPA ID : Site ID : Name : Action Name : Address : EPA Region : County : Institutional Control : Completion Date : Operable Unit : Contaminated Media :

> EPA ID : Site ID : Name : Action Name : Address :

EPA Region : County : Institutional Control : Completion Date : Operable Unit : Contaminated Media :

EPA ID : Site ID : Name : Action Name : Address :

EPA Region : County : Institutional Control : Completion Date : Operable Unit : NMD986668911 0604068 FRUIT AVENUE PLUME **RECORD OF DECISION** NEAR INTERSECTION OF EDITH AND GRAND AVE ALBUQUERQUE, 87102 06 BERNALILLO Groundwater use/well drilling regulation 09/27/2001 01 Groundwater NMD986668911 0604068 FRUIT AVENUE PLUME **RECORD OF DECISION** NEAR INTERSECTION OF EDITH AND GRAND AVE ALBUQUERQUE, 87102 06 BERNALILLO Covenant 09/27/2001 01 Soil NMD986668911 0604068 FRUIT AVENUE PLUME **RECORD OF DECISION** NEAR INTERSECTION OF EDITH AND GRAND AVE ALBUQUERQUE, 87102 06 BERNALILLO Unilateral Administrative Order 09/27/2001 01

Site Name:	FRUIT AVENUE PLUME NEAR INTERSECTION OF EDITH AND GRAND AVE ALBUQUERQUE, NM 87102	
Database(s):	[CERCLIS, FED E C, FED I C, FED-Published Institutional Controls, NPL, ROD] (Cont.)	

Envirosite ID: 460558 EPA ID: NMD986668911

2015

#### FED I C (Cont.)

Contaminated Media :

Soil

#### FED-Published Institutional Controls

CERCLIS ID :	NMD986668911
Region :	6
Report Type :	3

#### NPL

EPA ID :	NMD986668911
EPA Region :	6
Federal :	Ν
Final Date :	12/23/2011

#### Site Details :

Site Name : Site Status : Site Zip : Site City : Site State : Federal Site : Site County : EPA Region : Date Proposed : Date Finalized : FRUIT AVENUE PLUME F - Currently on the Final NPL 87102 ALBUQUERQUE NM N BERNALILLO 6 03/09/2011 12/23/2011

Substance Detail : NPL Status : Substance : CAS # : Pathway : Scoring :

> NPL Status : Substance : CAS # :

F - Currently on the Final NPL cis-1,2-DCE 156-59-2 Groundwater N/R

F - Currently on the Final NPL cis-1,2-DCE 156-59-2

Site Name:	FRUIT AVENUE PLUME NEAR INTERSECTION OF EDITH AND GRAND AVE ALBUQUERQUE, NM 87102
Database(s):	[CERCLIS, FED E C, FED I C, FED-Published Institutional Controls, NPL, ROD] ( <i>Cont.</i> )

Envirosite ID: 460558 EPA ID: NMD986668911

2015

#### NPL (Cont.)

Pathway :	Groundwater
Scoring :	1 - ug/l
NPL Status :	F - Currently on the Final NPL
Substance :	PCE
CAS # :	127-18-4
Pathway :	Groundwater
Scoring :	3 - ug/kg
NPL Status :	F - Currently on the Final NPL
Substance :	PCE
CAS # :	127-18-4
Pathway :	Groundwater
Scoring :	1 - ug/l
NPL Status :	F - Currently on the Final NPL
Substance :	TCE
CAS # :	79-01-6
Pathway :	Groundwater
Scoring :	N/R
NPL Status :	F - Currently on the Final NPL
Substance :	TCE
CAS # :	79-01-6
Pathway :	Groundwater
Scoring :	3 - ug/kg
NPL Status :	F - Currently on the Final NPL
Substance :	TCE
CAS # :	79-01-6
Pathway :	Groundwater
Scoring :	1 - ug/l
NPL Status :	F - Currently on the Final NPL
Substance :	TRANS-1,2-DCE
CAS # :	156-60-5
Pathway :	Groundwater
Scoring :	N/R

/ 4991.001 ft.	Site Name:	FRUIT AVENUE PLUME NEAR INTERSECTION OF EDITH AND GRAND AVE ALBUQUERQUE, NM 87102	
	Database(s):	[CERCLIS, FED E C, FED I C, FED-Published Institutional Controls, NPL, ROD] (Cont.)	

Envirosite ID: 460558 EPA ID: NMD986668911

#### NPL (Cont.)

NPL Status : Substance : CAS # : Pathway : Scoring :

NPL Status :

Final Date :

NPL Name :

ROD Date :

ROD Type :

ROD Fiscal Year :

Operable Unit(s) :

City :

State :

Proposed Date :

Site Status Details :

Narratives Details :

ROD

F - Currently on the Final NPL TRANS-1,2-DCE 156-60-5 Groundwater 1 - ug/l

F - Currently on the Final NPL 03/09/2011 12/23/2011

FRUIT AVENUE PLUME ALBUQUERQUE NM

09/27/2001 2001 ROD 01

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CITY:	ENVIROSITE ID:	SITE NAME:	SITE ADDRESS:	ZIP:	<u>DATABASE(S):</u>
ALBUQUERQUE	<u>11199690</u>	A S HORNER MAIN YARD	5801 BOBBY FOSTER RD SE	87106	AST - NM, FRS
ALBUQUERQUE	<u>14881271</u>	CHEVRON PIPELINE ALBUQ TERM	3200 S BROADWAY SAMPLE HOUSE	87106	RCRA_NONGEN
ALBUQUERQUE	<u>14881663</u>	CHEVRON STATION #75916	1003 GRAND AVE NE	87106	RCRA_NONGEN

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

#### **STANDARD ENVIRONMENTAL RECORDS:**

#### FEDERAL CERCLIS LIST

CERCLIS: Comprehensive Environmental Response Compensation and Liability Act program sites reported to the Environmental Protection Agency and can be proposed for the NPL List

Date of Government Version: 01/31/2014	Source: U.S. Environmental Protection Agency
Date Release Frequency: Quarterly	Telephone: 800-424-9346
Next Scheduled Contact: 07/26/2015	Last Contact: 04/27/2015

CERCLIS NFRAP: Comprehensive Environmental Response Compensation and Liability Act No Further Remedial Action Planned sites that have been removed and archived

Date of Government Version: 01/31/2014 Date Release Frequency: Quarterly Next Scheduled Contact: 07/26/2015

Source: U.S. Environmental Protection Agency Telephone: 800-424-9346 Last Contact: 04/27/2015

Source: U.S. Environmental Protection Agency

Source: U.S. Environmental Protection Agency

FEDERAL FACILITY: Sites where Federal Facilities Restoration and Reuse Office (FFRRO) arranged cleanup for Base Closure and Property Transfer at Federal Facilities

Date of Government Version: 09/18/2014 Date Release Frequency: Varies Next Scheduled Contact: 06/15/2015

#### Federal RCRA CORRACTS facilities list

Telephone: 703-603-8712

Last Contact: 03/17/2015

Telephone: 202-566-1667

Last Contact: 02/18/2015

CORRACTS: List of facilities where Resource Conservation and Recovery Act Corrective Action Program used to investigate and remediate hazardous releases

Date of Government Version: 07/31/2014 Date Release Frequency: Quarterly Next Scheduled Contact: 05/19/2015

#### FEDERAL DELISTED NPL SITE LIST

DELISTED NPL: National Priority List of sites that were delisted and no longer require action

Date of Government Version: 02/12/2014	Source: U.S. Environmental Protection Agency
Date Release Frequency: Quarterly	Telephone: 703-603-8867
Next Scheduled Contact: 05/14/2014	Last Contact: 02/13/2015

DELISTED PROPOSED NPL: Sites that have been delisted from the proposed National Priority List

Date of Government Version: 02/11/2014 Date Release Frequency: Quarterly Next Scheduled Contact: 05/14/2015

Source: U.S. Environmental Protection Agency Telephone: 703-603-8867 Last Contact: 02/13/2015

2015

#### FEDERAL ERNS LIST

ERNS: Emergency Response Notification System records of reported spills

Date of Government Version: 07/30/2014	
Date Release Frequency: Annually	
Next Scheduled Contact: 07/26/2015	

Source: National Response Center United States Coast Guard Telephone: NULL Last Contact: 04/27/2015

#### FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

Fed E C: Federal listing of remediation sites with engineering controls

Date of Government Version: 05/01/2014	Source: U.S. Environmental Protection Agency
Date Release Frequency: Varies	Telephone: 800-424-9346
Next Scheduled Contact: 08/06/2015	Last Contact: 05/08/2015

Fed I C: Federal listing of remediation sites with institutional controls

Date of Government Version: 05/01/2014	Source: U.S. Environmental Protection Agency
Date Release Frequency: Varies	Telephone: 800-424-9346
Next Scheduled Contact: 08/06/2015	Last Contact: 05/08/2015

Fed-Published Institutional Controls: A land use restricted site is a property where there are limits or requirements on future use of the property due to varying levels of cleanup possible practical or necessary at the site.

Date of Government Version: 07/24/2014 Date Release Frequency: Varies Next Scheduled Contact: 07/19/2015 Source: U.S. Environmental Protection Agency Telephone: 855-246-3642 Last Contact: 04/20/2015

RCRA IC\_EC: Sites with institutional or engineering controls related to Resource Conservation and Recovery Act

Date of Government Version: 08/19/2014 Date Release Frequency: Varies Next Scheduled Contact: 06/15/2015 Source: U.S. Environmental Protection Agency Telephone: 215-814-2469 Last Contact: 03/17/2015

I C - NM: Sites with Institutional Controls

Date of Government Version: 10/25/2013 Date Release Frequency: Unknown Next Scheduled Contact: 08/11/2015

Next Scheduled Contact: 05/14/2015

Source: Department of Environment Telephone: (505) 827-2900 Last Contact: 05/13/2015

#### FEDERAL NPL SITE LIST

NPL: List of priority contaminated sites among identified releases or threatened releases of hazardous substances pollutants or contaminants nationally

Last Contact: 02/13/2015

Date of Government Version: 02/05/2014	Source: U.S. Environmental Protection Agency
Date Release Frequency: Quarterly	Telephone: 703-603-8867
Next Scheduled Contact: 08/03/2015	Last Contact: 05/05/2015
NPL LIENS: National Priority List of sites with Liens	
Date of Government Version: 02/12/2014	Source: U.S. Environmental Protection Agency
Date Release Frequency: Varies	Telephone: 703-603-8867

PART NPL: Sites that are a part of an National Priority List site referred to as the parent site

Date of Government Version: 02/10/2014 Date Release Frequency: Quarterly Next Scheduled Contact: 05/14/2015 Source: U.S. Environmental Protection Agency Telephone: 703-603-8867 Last Contact: 02/13/2015

PROPOSED NPL: Sites that have been proposed for the National Priority List

Date of Government Version: 02/12/2014	Source: U.S. Environmental Protection Agency
Date Release Frequency: Quarterly	Telephone: 703-603-8867
Next Scheduled Contact: 05/14/2015	Last Contact: 02/13/2015

#### FEDERAL RCRA GENERATORS LIST

RCRA\_CESQG: Resource Conservation and Recovery Act listing of licensed conditionally exempt small quantity generators

Date of Government Version: 11/12/2014	Source: U.S. Environmental Protection Agency
Date Release Frequency: Varies	Telephone: 215-814-2469
Next Scheduled Contact: 05/14/2015	Last Contact: 02/13/2015

RCRA\_LQG: Resource Conservation and Recovery Act listing of licensed large quantity generators

Date of Government Version: 11/12/2014	Source: U.S. Environmental Protection Agency
Date Release Frequency: Quarterly	Telephone: 215-814-2469
Next Scheduled Contact: 05/14/2015	Last Contact: 02/13/2015

RCRA\_SQG: Resource Conservation and Recovery Act listing of licensed small quantity generators

Date of Government Version: 11/12/2014	Source: U.S. Environmental Protection Agency
Date Release Frequency: Quarterly	Telephone: 215-814-2469
Next Scheduled Contact: 05/14/2015	Last Contact: 02/13/2015

#### FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST

RCRA\_TSDF: Resource Conservation and Recovery Act hazardous waste transportation storage disposal and treatment facilities

Date of Government Version: 11/12/2014	Source: U.S. Environmental Protection Agency
Date Release Frequency: Quarterly	Telephone: 215-814-2469
Next Scheduled Contact: 05/14/2015	Last Contact: 02/13/2015

#### STATE AND TRIBAL REGISTERED STORAGE TANK LISTS

FEMA UST: FEMA underground storage tank listing

Date of Government Version: 12/17/2012	Source: FEMA
Date Release Frequency: Varies	Telephone: 202-212-5283
Next Scheduled Contact: 07/26/2015	Last Contact: 04/27/2015

INDIAN UST R1: Underground Storage Tanks on Indian Land in EPA Region 1

Date	of Government Version: 05/03/2013
Date	Release Frequency: Varies
Next	Scheduled Contact: 07/22/2015

Source: U.S. Environmental Protection Agency Region 1 Telephone: 855-246-3642 Last Contact: 04/23/2015

INDIAN UST R10: Underground Storage Tanks on Indian Land in EPA Region 10
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Date of Government Version: 10/15/2014	Source: U.S. Environmental Protection Agency Region 10
Date Release Frequency: Quarterly	Telephone: 855-246-3642
Next Scheduled Contact: 08/31/2015	Last Contact: 06/02/2015

INDIAN UST R2: Underground Storage Tanks on Indian Land in EPA Region 2

Date of Government Version: 02/25/2014	Source: U.S. Environmental Protection Agency Region 2
Date Release Frequency: Varies	Telephone: 855-246-3642
Next Scheduled Contact: 07/01/2015	Last Contact: 04/02/2015

INDIAN UST R4: Underground Storage Tanks on Indian Land in EPA Region 4

Date of Government Version: 11/22/2013	Source: U.S. Environmental Protection Agency Region 4
Date Release Frequency: Semi-Annually	Telephone: 855-246-3642
Next Scheduled Contact: 08/16/2015	Last Contact: 05/18/2015

INDIAN UST R5: Underground Storage Tanks on Indian Land in EPA Region 5

Date of Government Version: 05/12/2014 Date Release Frequency: Varies Next Scheduled Contact: 06/29/2015 Source: U.S. Environmental Protection Agency Region 5 Telephone: 855-246-3642 Last Contact: 03/31/2015

INDIAN UST R6: Underground Storage Tanks on Indian Land in EPA Region 6

Date of Government Version: 08/13/2014 Date Release Frequency: Semi-Annually Next Scheduled Contact: 08/25/2015 Source: U.S. Environmental Protection Agency Region 6 Telephone: 855-246-3642 Last Contact: 05/27/2015

INDIAN UST R7: Underground Storage Tanks on Indian Land in EPA Region 7

Date of Government Version: 05/07/2014 Date Release Frequency: Varies Next Scheduled Contact: 08/18/2015 Source: U.S. Environmental Protection Agency Region 7 Telephone: 855-246-3642 Last Contact: 05/21/2015

INDIAN UST R8: Underground Storage Tanks on Indian Land in EPA Region 8

Date of Government Version: 09/23/2014 Date Release Frequency: Quarterly Next Scheduled Contact: 07/06/2015 Source: U.S. Environmental Protection Agency Region 8 Telephone: 855-246-3642 Last Contact: 04/07/2015

INDIAN UST R9: Underground Storage Tanks on Indian Land in EPA Region 9

Date of Government Version: 10/08/2014 Date Release Frequency: Quarterly Next Scheduled Contact: 08/10/2015 Source: U.S. Environmental Protection Agency Region 9 Telephone: 855-246-3642 Last Contact: 05/12/2015

AST - NM: Registered Aboveground Storage Tanks

Date of Government Version: 11/04/2014 Date Release Frequency: Varies Next Scheduled Contact: 05/03/2015 Source: Department of Environment Telephone: (505) 476-4397 Last Contact: 02/02/2015

**2015** 

UST - NM: Registered Underground Storage Tanks

Date of Government Version: 08/06/2014 Date Release Frequency: Varies Next Scheduled Contact: 08/03/2015 Source: Department of Environment Telephone: (505) 476-4397 Last Contact: 05/05/2015

#### **RECORDS OF EMERGENCY RELEASE REPORTS**

HMIRS (DOT): Hazardous Material spills reported by the Department of Transportation

Date of Government Version: 08/04/2014	Source: U.S. Department of Transportation
Date Release Frequency: Varies	Telephone: (202) 366-4996
Next Scheduled Contact: 08/16/2015	Last Contact: 05/18/2015

#### STATE AND TRIBAL LEAKING STORAGE TANK LISTS

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land in EPA Region 1

Date of Government Version: 05/03/2013 Date Release Frequency: Varies Next Scheduled Contact: 07/22/2015 Source: U.S. Environmental Protection Agency Region 1 Telephone: 855-246-3642 Last Contact: 04/23/2015

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land in EPA Region 10

Date of Government Version: 10/15/2014 Date Release Frequency: Quarterly Next Scheduled Contact: 08/31/2015 Source: U.S. Environmental Protection Agency Region 10 Telephone: 855-246-3642 Last Contact: 06/02/2015

INDIAN LUST R2: Leaking Underground Storage Tanks on Indian Land in EPA Region 2

Date of Government Version: 11/19/2012 Date Release Frequency: Varies Next Scheduled Contact: 07/01/2015 Source: U.S. Environmental Protection Agency Region 2 Telephone: 855-246-3642 Last Contact: 04/02/2015

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land in EPA Region 4

Date of Government Version: 08/02/2013 Date Release Frequency: Semi-Annually Next Scheduled Contact: 08/16/2015 Source: U.S. Environmental Protection Agency Region 4 Telephone: 855-246-3642 Last Contact: 05/18/2015

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land in EPA Region 5

Date of Government Version: 05/12/2014 Date Release Frequency: Varies Next Scheduled Contact: 06/29/2015 Source: U.S. Environmental Protection Agency Region 5 Telephone: 855-246-3642 Last Contact: 03/31/2015

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land in EPA Region 6

Date of Government Version: 08/13/2014 Date Release Frequency: Varies Next Scheduled Contact: 08/25/2015 Source: U.S. Environmental Protection Agency Region 6 Telephone: 855-246-3642 Last Contact: 05/27/2015 INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land in EPA Region 7

Date of Government Version: 02/19/2014 Date Release Frequency: Varies Next Scheduled Contact: 08/18/2015 Source: U.S. Environmental Protection Agency Region 7 Telephone: 855-246-3642 Last Contact: 05/21/2015

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land in EPA Region 8

Date of Government Version: 09/23/2014 Date Release Frequency: Quarterly Next Scheduled Contact: 07/06/2015 Source: U.S. Environmental Protection Agency Region 8 Telephone: 855-246-3642 Last Contact: 04/07/2015

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land in EPA Region 9

Date of Government Version: 05/27/2014 Date Release Frequency: Quarterly Next Scheduled Contact: 08/10/2015 Source: U.S. Environmental Protection Agency Region 9 Telephone: 855-246-3642 Last Contact: 05/12/2015

LTANKS - NM: Leaking Storage Tank Incident Reports

Date of Government Version: 05/08/2014 Date Release Frequency: Varies Next Scheduled Contact: 07/29/2015 Source: Department of Environment Telephone: (505) 476-4397 Last Contact: 04/30/2015

#### STATE- AND TRIBAL - EQUIVALENT CERCLIS

SCS - NM: State cleanup sites under the states Water Quality Control Commission Regulations.

Date of Government Version: 10/25/2013Source: Water Quality Control Commission RegulationsDate Release Frequency: UnknownTelephone: (505) 827-2754Next Scheduled Contact: 08/12/2015Last Contact: 05/14/2015

#### STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

SWF/LF - NM: Solid Waste Landfills

Date of Government Version: 10/25/2013	Source: Waste Management
Date Release Frequency: Varies	Telephone: (505) 892-1200
Next Scheduled Contact: 08/18/2015	Last Contact: 05/20/2015

#### STATE AND TRIBAL VOLUNTARY CLEANUP SITES

VCP - NM: Sites with Voluntary Cleanup Program designation

Date of Government Version: 10/25/2013 Date Release Frequency: Unknown Next Scheduled Contact: 08/02/2015 Source: Department of Environment Telephone: (505) 827-2900 Last Contact: 05/04/2015

#### OTHER ASCERTAINABLE RECORDS

RCRA\_FULL\_DETAIL: Full detail of related sites to the Resource Conservation and Recovery Act

Date of Government Version: 01/09/2014	Source: U.S. Environmental Protection Agency
Date Release Frequency: Varies	Telephone: 215-814-2469
Next Scheduled Contact: 05/14/2015	Last Contact: 02/13/2015

RCRA\_NONGEN: Resource Conservation and Recovery Act listing of licensed non-generators

Date of Government Version: 11/12/2014 Date Release Frequency: Varies Next Scheduled Contact: 05/14/2015 Source: U.S. Environmental Protection Agency Telephone: 215-814-2469 Last Contact: 02/13/2015

#### ADDITIONAL ENVIRONMENTAL RECORDS:

#### LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES

DEBRIS REGION 9: Torres Martinez Reservation illegal dump site listing

Date of Government Version: 01/28/2013 Date Release Frequency: Varies Next Scheduled Contact: 07/05/2015 Source: U.S. Environmental Protection Agency Region 9 Telephone: 855-246-3642 Last Contact: 04/06/2015

INDIAN ODI R8: Region 8 Indian land open dump inventory sites mainted within the STARS program

Date of Government Version: 10/07/2014	
Date Release Frequency: Varies	
Next Scheduled Contact: 08/17/2015	

ODI: Open dump inventory sites

Date of Government Version: 10/15/2012 Date Release Frequency: No Update Next Scheduled Contact: no longer maintained (not collected) Source: U.S. Environmental Protection Agency Telephone: 855-246-3642 Last Contact: 09/04/2014

Source: Indian Health Service Telephone: 855-246-3642 Last Contact: 05/19/2015

Source: Recycling Coalition

Telephone: (505) 603-0558

Last Contact: 05/04/2015

TRIBAL ODI: Indian land open dump inventory for all regions

Date of Government Version: 10/29/2013	Source: Indian Health Service
Date Release Frequency: Varies/Annually	Telephone: 301-443-3593
Next Scheduled Contact: 07/30/2015	Last Contact: 05/01/2015

SWRCY - NM: Solid Waste Recycling Facilities

Date of Government Version: 02/07/2014 Date Release Frequency: Daily Next Scheduled Contact: 08/02/2015

#### LOCAL BROWNFIELD LISTS

Fed Brownfields: Federal brownfield remediation sites

Date of Government Version: 02/11/2014	Source: U.S. Environmental Protection Agency
Date Release Frequency: Semi-Annually	Telephone: 855-246-3642
Next Scheduled Contact: 06/14/2014	Last Contact: 03/16/2015

TRIBAL BROWNFIELDS: Tribal brownfield remediation site listing

Date of Government Version: 02/10/2014	Source: U.S. Environmental Protection Agency
Date Release Frequency: Quarterly	Telephone: 855-246-3642
Next Scheduled Contact: 06/14/2015	Last Contact: 03/16/2015

#### LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES

FED CDL: The U.S. Department of Justice listing of clandestine drug lab locations

Date of Government Version: 08/06/2014 Date Release Frequency: Quarterly Next Scheduled Contact: 08/03/2015 Source: U.S. Department of Justice Telephone: 202-307-7610 Last Contact: 05/05/2015

US HIST CDL: The U.S. Department of Justice historical listing of clandestine drug lab locations

Date of Government Version: 08/06/2014SDate Release Frequency: QuarterlyTeNext Scheduled Contact: 08/03/2015La

Source: U.S. Department of Justice Telephone: 202-307-7610 Last Contact: 05/05/2015

CDL - NM: Methamphetamine Contaminated Properties

Date of Government Version: 05/08/2014 Date Release Frequency: Varies Next Scheduled Contact: 08/06/2015 Source: Department of Environment Telephone: (505) 827-2855 Last Contact: 05/08/2015

#### LOCAL LAND RECORDS

LIENS 2: Comprehensive Environmental Response Compensation and Liability Act sites with liens

Date of Government Version: 10/29/2013 Date Release Frequency: Varies Next Scheduled Contact: 08/12/2015 Source: U.S. Environmental Protection Agency Telephone: 800-424-9346 Last Contact: 05/14/2015

#### **RECORDS OF EMERGENCY RELEASE REPORTS**

SPILLS - NM: Spills of hazardous materials

Date of Government Version: 05/08/2014	Source: Department of Environment
Date Release Frequency: Varies	Telephone: (505) 827-0027
Next Scheduled Contact: 08/02/2015	Last Contact: 05/04/2015

#### OTHER ASCERTAINABLE RECORDS

AFS: Air Facility Systems Quarterly Extract

Date of Government Version: 02/28/2014 Date Release Frequency: Quarterly Next Scheduled Contact: 07/13/2015 Source: Environmental Protection Agency Telephone: (202) 566-1667 Last Contact: 04/14/2015

BRS: Reporting of hazardous waste generation and management from large quantity generators

Date of Government Version: 01/31/2014
Date Release Frequency: Biennial
Next Scheduled Contact: 07/22/2015

Source: Environmental Protection Agency Telephone: (202) 566-1667 Last Contact: 04/23/2015

CDC HAZDAT: The Agency for Toxic Substances and Disease Registry's Hazardous Substance Release/Health Effects Database.

Date of Government Version: 02/26/2014 Date Release Frequency: Unknown Next Scheduled Contact: 06/08/2015 Source: Agency for Toxic Substances and Disease Registry Telephone: 770-488-6399 Last Contact: 03/10/2015

CDC HAZDAT GIS: GIS information for the The Agency for Toxic Substances and Disease Registry's Hazardous Substance Release/Health Effects Database

Date of Government Version: 03/06/2014 Date Release Frequency: Unknown Next Scheduled Contact: 06/08/2015 Source: Agency for Toxic Substances and Disease Registry Telephone: 770-488-6399 Last Contact: 03/10/2015

COAL ASH DOE: Steam electric plant operation

Date of Government Version: 01/21/2014 Date Release Frequency: Varies Next Scheduled Contact: 07/22/2015 Source: Department of Electricity Telephone: (202) 586-8800 Last Contact: 04/23/2015

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

Date of Government Version: 10/20/2014 Date Release Frequency: Varies Next Scheduled Contact: 07/19/2015 Source: Environmental Protection Agency Telephone: (202) 566-1667 Last Contact: 04/20/2015

COAL GAS: Former Manufactured Gas Plant locations

Date of Government Version: 02/11/2013Source: U.S. Environmental Protection AgencyDate Release Frequency: No longer maintainedTelephone: 855-246-3642Next Scheduled Contact: no longer maintained (not<br/>collected)Last Contact: 09/04/2014

CONSENT (DECREES): Legal decisions regarding responsibility for Superfund locations

Date of Government Version: 02/05/2014 Date Release Frequency: Varies Next Scheduled Contact: 08/06/2015 Source: Environmental Protection Agency Telephone: (800) 424-9346 Last Contact: 05/08/2015

DIGITAL OBSTACLE: The Digital Obstacle File describes all known obstacles of interest to aviation users in the U.S. with limited coverage of the Pacific the Caribbean Canada and Mexico. The obstacles are assigned unique numerical identifiers; accuracy codes and listed in order of ascending latitude within each state or area by FAA Region.

Telephone: 855-379-6518

Last Contact: 04/13/2015

Date of Government Version: 07/17/2014 Date Release Frequency: Every 56 days Next Scheduled Contact: 07/12/2015

DOD: Department of Defense sites

Date of Government Version: 07/25/2013 Date Release Frequency: Varies Next Scheduled Contact: 08/06/2015 Source: Environmental Protection Agency Telephone: (800) 424-9346 Last Contact: 05/08/2015

Source: Federal Aviation Administration

DOT OPS: Incident Data Report

Date of Government Version: 08/04/2014 Date Release Frequency: Varies Next Scheduled Contact: 07/06/2015 Source: U.S. Department of Transportation Telephone: (202) 366-4996 Last Contact: 04/07/2015

ENOI: ENOI - EPA Electronic Notice of Intent (eNOI) database contains construction sites industrial facilities pesticides and vessel operators to apply for coverage and submit a variety of other reports electronically required under EPAs Construction General Permit (CGP) Multi-Sector General Permit (MSGP) Pesticides General Permit (PGP) and Vessel General Permit (VGP).

Date of Government Version: 03/05/2014 Date Release Frequency: Quarterly Next Scheduled Contact: 06/22/2015 Source: Environmental Protection Agency Telephone: (202) 566-1667 Last Contact: 03/24/2015

FA HWF: Hazardous Waste Facilities with Financial Assurance

Date of Government Version: 08/19/2014	Source: Environmental Protection Agency
Date Release Frequency: Varies	Telephone: (800) 424-9346
Next Scheduled Contact: 06/10/2015	Last Contact: 03/12/2015

FEDLAND: Federal land locations

Date of Government Version: 07/19/2013Source: Environmental Protection AgencyDate Release Frequency: VariesTelephone: (800) 424-9346Next Scheduled Contact: 07/30/2015Last Contact: 05/01/2015

FRS: Facility Registry Systems

Date of Government Version: 03/24/2014 Date Release Frequency: Varies Next Scheduled Contact: 08/30/2015 Source: Environmental Protection Agency Telephone: (202) 566-1667 Last Contact: 06/01/2015

FTTS: Tracking of administrative and enforcement activities related to FIFRA/TSCA

Date of Government Version: No longer maintained,	Source: Environmental Protection Agency
part of ICIS / 7/23/14	
Date Release Frequency: No Update	Telephone: (202) 564-2280
Next Scheduled Contact: no longer maintained (not	Last Contact: 09/04/2014
collected)	

FTTS INSP: Tracking of inspections related to FIFRA/TSCA

Date of Government Version: 04/16/2013Source: Environmental Protection AgencyDate Release Frequency: No UpdateTelephone: (202) 564-2280Next Scheduled Contact: no longer maintained (not<br/>collected)Last Contact: 09/04/2014

FUDS: Defense sites that require cleanup

Date of Government Version: 05/08/2013 Date Release Frequency: Varies Next Scheduled Contact: 08/09/2015 Source: US Army Corps of Engineering Telephone: (202) 761-0011 Last Contact: 05/11/2015

ICIS: Comprised of all Federal Administrative and Judicial enforcement information [intended to replace PCS] by tracking enforcement and compliance information (also contains what used to be known as FFTS)

Date of Government Version: 09/26/2014 Date Release Frequency: Varies Next Scheduled Contact: 06/28/2015 Source: Environmental Protection Agency Telephone: (202) 566-1667 Last Contact: 03/30/2015

INDIAN	<b>RESERVATION:</b>	Indian	Reservation	sites
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Date of Government Version: 07/19/2013 Date Release Frequency: Varies Next Scheduled Contact: 04/22/2015 Source: Environmental Protection Agency Telephone: (800) 424-9346 Last Contact: 01/22/2015

LEAD\_SMELTER: Listing of former Lead Smelter Sites

Date of Government Version: 01/28/2014 Date Release Frequency: Varies Next Scheduled Contact: 08/30/2015 Source: Environmental Protection Agency Telephone: (202) 566-1667 Last Contact: 06/01/2015

LUCIS: Land Use Control Information Systems

Date of Government Version: 04/17/2013 Date Release Frequency: Varies Next Scheduled Contact: 07/08/2015 Source: Department of the Navy: BRAC PMO Telephone: (619) 532-0900 Last Contact: 04/09/2015

MINES: Mines Master Index Files

Date of Government Version: 08/04/2014 Date Release Frequency: Varies Next Scheduled Contact: 08/10/2015 Source: Department of Labor Telephone: (202) 693-9400 Last Contact: 05/12/2015

MLTS: Sites in possession/use of radioactive materials regulated by NRC

Date of Government Version: 10/07/2013 Date Release Frequency: Varies Next Scheduled Contact: 04/26/2015 Source: Nuclear Regulatory Commission Telephone: (800) 397-4209 Last Contact: 01/26/2015

OSHA: OSHA's listing of inspections violations and fatality information

Date of Government Version: 07/31/2014 Date Release Frequency: Varies Next Scheduled Contact: 07/26/2015 Source: Occupational Safety & Health Administration Telephone: 800-321-6742 Last Contact: 04/27/2015

PADS: Listing of generators transporters commercial store/ brokers and disposers of PCB

Date of Government Version: 09/18/2014 Date Release Frequency: Varies Next Scheduled Contact: 06/15/2015 Source: Environmental Protection Agency Telephone: (703) 308-8404 Last Contact: 03/17/2015

PCB TRANSFORMER: Registry of PCB's

Date of Government Version: 04/25/2014 Date Release Frequency: Varies Next Scheduled Contact: 07/20/2015 Source: Environmental Protection Agency Telephone: (703) 308-8404 Last Contact: 04/21/2015

POST: Listing of postal codes throughout the country

Date of Government Version: 05/28/2013 Date Release Frequency: Varies Next Scheduled Contact: 04/05/2015 Source: United States Postal Service Telephone: (281) 292-3270 Last Contact: 01/05/2015

RAATS: Listing of major violators with enforcement actions issued under RCRA. Includes administrative and civil actions filed by the EPA. This dataset is no longer maintained.

Date of Government Version: 10/14/2013 Date Release Frequency: Varies Next Scheduled Contact: 06/08/2015 Source: Environmental Protection Agency Telephone: (202) 566-1667 Last Contact: 03/10/2015

RADINFO: EPA regulated facilities with radiation and radioactive materials

Date of Government Version: 07/22/2013 Date Release Frequency: Varies Next Scheduled Contact: 08/09/2015 Source: Environmental Protection Agency Telephone: (202) 566-1667 Last Contact: 05/11/2015

RMP: Facilities producing/handling/ process/ distribute/ store specific chemicals report plans required by the Clean Air Act

Date of Government Version: 04/30/2014 Date Release Frequency: Monthly Next Scheduled Contact: 08/16/2015

Source: Environmental Protection Agency Telephone: (202) 564-2534 Last Contact: 05/18/2015

ROD: Permanent remedy at an NPL site

Date of Government Version: 04/30/2013 Date Release Frequency: Varies Next Scheduled Contact: 08/09/2015 Source: Environmental Protection Agency Telephone: (800) 424-9346 Last Contact: 05/11/2015

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners

Date of Government Version: 07/19/2013 Date Release Frequency: No Update Next Scheduled Contact: no longer maintained (not collected) Source: Environmental Protection Agency Telephone: (202) 566-1667 Last Contact: 09/04/2014

SSTS: Tracking of facilities who produce pesticides and their quantity

Date of Government Version: 09/25/0201 Date Release Frequency: Varies Next Scheduled Contact: 08/25/2015 Source: Environmental Protection Agency Telephone: (202) 566-1667 Last Contact: 05/27/2015

TOSCA-CHEMICAL: Chemicals controlled by the Toxic Substance Control Act

Date of Government Version: 01/21/2014Source: EnviroDate Release Frequency: VariesTelephone: (2)Next Scheduled Contact: 04/29/2015Last Contact: (1)

Source: Environmental Protection Agency Telephone: (202) 566-1667 Last Contact: 01/29/2015

TOSCA-PLANT: Plants controlled by the Toxic Substance Control Act

Date of Government Version: 07/21/2014 Date Release Frequency: Varies Next Scheduled Contact: 04/29/2015 Source: Environmental Protection Agency Telephone: (202) 566-1667 Last Contact: 01/29/2015

TRANSMISSIONS: Electrical power line transmissions

Date of Government Version: 10/07/2013 Date Release Frequency: Varies Next Scheduled Contact: 06/28/2015 Source: Penwell Corporation Telephone: (800) 823-6277 Last Contact: 03/30/2015 2015

TRIS: Information regarding toxic chemicals that are being used/manufactured/ treated/ transported/released into the environment

Date of Government Version: 01/14/2014 Date Release Frequency: Varies Next Scheduled Contact: 08/06/2015 Source: Environmental Protection Agency Telephone: (202) 566-1667 Last Contact: 05/08/2015

UMTRA: Uranium Recovery Sites

Date of Government Version: 06/05/2014 Date Release Frequency: Varies Next Scheduled Contact: 06/21/2015

Source: United States Nuclear Regulatory Commission Telephone: (301) 415-8200 Last Contact: 03/23/2015

AIRS - NM: Current Title V Operating Permit Activities

Date of Government Version: 02/12/2014 Date Release Frequency: Unknown Next Scheduled Contact: 08/02/2015 Source: Department of Environment Telephone: (505) 476-4359 Last Contact: 05/04/2015

ASBESTOS - NM: List of Asbestos demolition & renovation jobs

Date of Government Version: 06/03/2013 Date Release Frequency: Unknown Next Scheduled Contact: 07/05/2015 Source: Department of Environment Telephone: (505) 827-2328 Last Contact: 04/06/2015

DRYCLEANERS - NM: Sites with Drycleaners

Date of Government Version: 10/01/2012 Date Release Frequency: No update expected Next Scheduled Contact: not maintained (not collected) Source: Department of Environment Telephone: (505) 222-9507 Last Contact: 09/04/2014 2015

#### SUBJECT PROPERTY ADDRESS:

Alpha Chi Omega Sorority House 1635 Mesa Vista Road NE Albuquerque, New Mexico 87106

#### SUBJECT PROPERTY COORDINATES:

Latitude(North):	35.089046 - 35° 5' 20.6"
Longitude(West):	-106.625959106° 37' 33.5"
Universal Transverse Mercator:	Zone 13N
UTM X (Meters):	351782.63
UTM Y (Meters):	3884127.12
Elevation:	5132.001 ft. above sea level

#### USGS TOPOGRAPHIC MAP:

Subject Property Map:	35106a6 ALBUQUERQUE WEST, NM
Most Recent Revision:	2013

Geological Landscape Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and

2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

#### **GROUNDWATER FLOW DIRECTION INFORMATION:**

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using sitespecific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

#### TOPOGRAPHIC INFORMATION:

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the subject property, what downgradient sites might be impacted

#### SUBJECT PROPERTY TOPOGRAPHY:

General Topographic Gradient: N





Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the subject property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

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#### FEMA FLOOD ZONE:

	Subject Property County: BERNALILLO	Electronic Data: No Available Data
	Flood Plain Panel at Subject Property:	No available data.
	Additional Panels in search area:	No available data.
N	ATIONAL WETLAND INVENTORY:	
		NWI Electronic
	NWI Quad at Subject Property:	Data Coverage:
	No Available Data	No available data.

#### **GROUNDWATER FLOW VELOCITY INFORMATION:**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

#### **GEOLOGIC INFORMATION IN GENERAL AREA OF SUBJECT PROPERTY:**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT:**

Era:No Available DataSystem:No Available DataSeries:No Available DataCode:No Available Data

#### **GEOLOGIC AGE IDENTIFICATION**

Category: No Available Data

#### DOMINANT SOIL COMPOSITION IN GENERAL AREA OF SUBJECT PROPERTY:

No Available Data

#### LOCAL / REGIONAL WATER AGENCY RECORDS:

Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

#### WELL SEARCH DISTANCE INFORMATION:

DATABASE:	SEARCH DISTANCE (MILES):
PWS	1.000

#### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION:

MAP ID:	WELL ID:	LOCATION FROM SP:
1	N/R	1/2 - 1 Mile SW
2	N/R	1/2 - 1 Mile WSW
3	N/R	1/2 - 1 Mile S
A4	N/R	1/2 - 1 Mile W
A5	N/R	1/2 - 1 Mile W
6	N/R	1/2 - 1 Mile SE

Note: PWS System location is not always the same as well location.



Map ld: 1 Direction: SW Distance: 0.649 mi. Actual: 3428.409 ft. Elevation: 0.959 mi. / 5064 ft. Relative: Lower	Site Name: Database(s):	PRESBYTERIAN HEALTHCARE SERVICES 1100 CENTRAL SE ALBUQUERQUE, NM 87106 [PWS]	Envirosite ID: 9072885 EPA ID: N/R
PWS			
PWS ID : PWS Name : PWS Type C PWS Activity Primacy Age Population S Service Con Submission Pop Categor Pop Categor	ode : v Code : ency Code : ferved Count : nections Count : Status Code : y 5 Description : y 11 Description :	NM3501501 PRESBYTERIAN HEALTHCARE SERVICES NTNCWS N NM 3500 3 Y 3,301-10,000 3,301-10,000	
Facility Information Org Name : Admin Name Phone Exter Phone Numb Fax Number Alt Phone Nu Street Addre Street Addre City : Country : State : Zip Code : EPA Region	e : ision Number : per : umber : ess 1 : ess 2 :	N/R STEVE KUTCH, SR. N/R 505-841-1841 N/R N/R 1100 CENTRAL SE N/R ALBUQUERQUE US NM 87106 06	
Geographic Area Sum PWS ID : PWS Activity PWS Type C Area Type D Area Type D Primacy Age City Served County Serv State Served Zip Code Se EPA Region	mary v Code : ode : ode : escription : ency Code : ed : d : rved : :	NM3501501 N NTNCWS CN County NM N/R N/R N/R N/R N/R N/R 06	

Map Id: 2 Direction: WSW Distance: 0.827 mi. Actual: 4367.005 ft. Elevation: 0.946 mi. / 4996.00 Relative: Lower	Site Name: 1 ft. Database(s)	SAINT JOSEPH HEALTH CARE SYSTEM 601 DR MARTIN LUTHER KING JR AV NE ALBUQUERQUE, NM 87102 : [PWS]	Envirosite ID: 18696299 EPA ID: N/R
PWS			
PWS ID : PWS Name PWS Type PWS Activ Primacy A Population Service Co Submissio Pop Categ Pop Categ	e : Code : ity Code : gency Code : Served Count : onnections Count : n Status Code : ory 5 Description : ory 11 Description :	NM3599901 SAINT JOSEPH HEALTH CARE SYSTEM NTNCWS N 1402 2 Y 501-3,300 1,001-3,300	
Facility Information Org Name Admin Nar Phone Ext Phone Nur Fax Numb Alt Phone Street Add Street Add City : Country : State : Zip Code : EPA Regio	n : n :	N/R N/R 505-727-8217 N/R N/R 601 DR MARTIN LUTHER KING JR AV N ALBUQUERQUE US NM 87102 06	E
Treatment Plants Su PWS ID : Treatment Treatment Facility ID Facility Na Facility Ac Facility Ty Facility Ty	ummary t Objective : t Process : : mme : tivity Code : pe Code : pe Description :	NM3599901 Disinfection Gaseous Chlorination, Post 1T WELL # 1 WELL # 1 TP Treatment Plant	
Geographic Area Su PWS ID :	mmary	NM3599901	

**2015** 

Map Id: 2 Direction: WSW	Site Name:	SAINT JOSEPH HEALTH CARE SYSTEM	]
Actual: 4367.005 ft.		ALBUQUERQUE, NM 87102	Envirosite ID: 18696299
Elevation: 0.946 mi. / 4996.001 ft. Relative: Lower	Database(s):	[PWS] (Cont.)	EPA ID. N/K
PWS (Cont.)			
PWS Activity Code PWS Type Code : Area Type Code : Area Type Descrip Primacy Agency Co City Served : County Served : State Served : Zip Code Served : EPA Region :	: tion : ode :	N NTNCWS CN County NM N/R N/R N/R N/R N/R 06	
Map Id: 3 Direction: S Distance: 0.834 mi. Actual: 4405.364 ft. Elevation: 0.977 mi. / 5156.001 ft. Relative: Higher	Site Name: Database(s):	CNM SOUTH VALLEY CAMPUS 525 BUENA VISTA SE ALBUQUERQUE, NM 87106 [PWS]	Envirosite ID: 18815881 EPA ID: N/R
PWS			
PWS ID : PWS Name : PWS Type Code : PWS Activity Code Primacy Agency Co Population Served Service Connection Submission Status Pop Category 5 De Pop Category 11 D	: ode : Count : ns Count : Code : scription : escription :	NM3598001 CNM SOUTH VALLEY CAMPUS NTNCWS N NM 210 3 Y <=500 101-500	
Facility Information			
Org Name : Admin Name : Phone Extension N Phone Number :	umber :	ROGERS, JOHN ROGERS, JOHN N/R 505-224-4571	

Map Id: 3 Direction: S Distance: 0.834 I Actual: 4405.364 Elevation: 0.977 Relative: Higher	mi. I ft. mi. / 5156.001 ft.	Site Name: Database(s):	CNM SOUTH VALLEY CAMPUS 525 BUENA VISTA SE ALBUQUERQUE, NM 87106 [PWS] <i>(Cont.)</i>	Envirosite ID: 18815881 EPA ID: N/R
PWS (Cont.)				
	Fax Number : Alt Phone Number : Street Address 1 : Street Address 2 : City : Country : State : Zip Code : EPA Region :		N/R N/R Central NM Community College 525 Buena Vista SE ALBUQUERQUE US NM 87106 06	
Treatme	ent Plants Summary PWS ID : Treatment Objectiv Treatment Process Facility ID : Facility Name : Facility Activity Cod Facility Type Code : Facility Type Descri PWS ID : Treatment Objectiv Treatment Process Facility ID : Facility Name : Facility Name : Facility Activity Cod Facility Type Code : Facility Type Code :	e : : de : ption : e : : e : ption :	NM3598001 Disinfection Hypochlorination, Post 566 TREATMENT UNIT TREATMENT UNIT TP Treatment Plant NM3598001 Inorganics removal Innovative 566 TREATMENT UNIT TREATMENT UNIT TP Treatment Plant	
Geograp	ohic Area Summary PWS ID : PWS Activity Code : PWS Type Code : Area Type Code : Area Type Descripti Primacy Agency Co City Served : County Served :	on : de :	NM3598001 N NTNCWS CT City NM ALBUQUERQUE N/R	

Site Name: Database(s):	CNM SOUTH VALLEY CAMPUS 525 BUENA VISTA SE ALBUQUERQUE, NM 87106 [PWS] <b>(Cont.)</b>	Envirosite ID: 18815881 EPA ID: N/R
	NM	
	N/R	
	06	
	NM3598001	
	Ν	
	NTNCWS	
	CN	
on :	County	
de :	NM	
	N/R	
	Bernalillo	
	N/R	
	N/R	
	06	
	Site Name: Database(s):	Site Name: CNM SOUTH VALLEY CAMPUS 525 BUENA VISTA SE ALBUQUERQUE, NM 87106 Database(s): [PWS] (Cont.) NM N/R 06 NM3598001 N NTNCWS CN CN COunty de : NM N/R Bernalillo N/R N/R 06

Map Id: A4 Direction: W Distance: 0.902 mi. Actual: 4761.138 ft. Elevation: 0.939 mi. / 4960 ft. Relative: Lower

Site Name: HI MESA ESTATES WATER COOP 333 LOMAS NE ALBUQUERQUE, NM 87102 Database(s): [PWS]

Envirosite ID: 18728771 EPA ID: N/R

#### PWS

PWS ID : PWS Name : PWS Type Code : CWS PWS Activity Code : А Primacy Agency Code : NΜ Population Served Count : 134 Service Connections Count : 97 Submission Status Code : Υ Pop Category 5 Description : Pop Category 11 Description :

HI MESA ESTATES WATER COOP NM3500232 CWS A NM 134 97 Y <=500 101-500

Map ld: A4 Direction: W Distance: 0.902 mi. Actual: 4761.138 ft. Elevation: 0.939 mi. / 4960 ft. Relative: Lower	Site Name: Database(s):	HI MESA ESTATES WATER COOP 333 LOMAS NE ALBUQUERQUE, NM 87102 [PWS] <b>(Cont.)</b>	Envirosite ID: 18728771 EPA ID: N/R	
PWS (Cont.)				
Facility Information Org Name : Admin Name : Phone Extension Nu Phone Number : Fax Number : Alt Phone Number : Street Address 1 : Street Address 2 : City : Country : State : Zip Code : EPA Region :	mber :	KNIGHT, JIM KNIGHT, JIM N/R 505-998-0301 505-998-0305 N/R N/R 333 Lomas NE ALBUQUERQUE US NM 87102 06		
Treatment Plants Summary PWS ID : Treatment Objective Treatment Process : Facility ID : Facility Name : Facility Activity Code Facility Type Code : Facility Type Descrip	e : e : otion :	NM3500232 Disinfection Hypochlorination, Post 908 TREATMENT PLANT #1 TREATMENT PLANT #1 TP Treatment Plant		
Geographic Area Summary PWS ID : PWS Activity Code : PWS Type Code : Area Type Code : Area Type Descriptio Primacy Agency Coo City Served : County Served : State Served : Zip Code Served : EPA Begion :	on : le :	NM3500232 A CWS CN County NM N/R Valencia N/R N/R 06		
Map ld: A4 Direction: W Distance: 0.902 mi. Actual: 4761.138 ft.		Site Name:	HI MESA ESTATES WATER COOP 333 LOMAS NE ALBUQUERQUE, NM 87102	Envirosite ID: 18728771 EPA ID: N/R
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Elevation: 0.939 Relative: Lower	mi. / 4960 ft.	Database(s):	[PWS] <b>(Cont.)</b>	
DWS (Cont.)				-
PW5 ( <b>Cont.)</b>			NM3500232	
	PWS Activity Code :		A	
	PWS Type Code :		CWS	
	Area Type Descripti	ion :	City	
	Primacy Agency Co	de :	NM	
	City Served :			
	State Served :		NM	
	Zip Code Served :		N/R	
	EPA Region :		06	
Map Id: A5		Cito Nomo		1
Map Id: A5 Direction: W Distance: 0.902 (	mi	Site Name:	HOMESTEAD MOBILE HOME COMMUNITY 333 LOMAS NE	Envirosito ID: 19729772
Map Id: A5 Direction: W Distance: 0.902 Actual: 4761.138	mi. 3 ft.	Site Name:	HOMESTEAD MOBILE HOME COMMUNITY 333 LOMAS NE ALBUQUERQUE, NM 87102	Envirosite ID: 18728772 EPA ID: N/R
Map Id: A5 Direction: W Distance: 0.902 I Actual: 4761.138 Elevation: 0.939 Relative: Lower	mi. 3 ft. mi. / 4960 ft.	Site Name: Database(s):	HOMESTEAD MOBILE HOME COMMUNITY 333 LOMAS NE ALBUQUERQUE, NM 87102 [PWS]	Envirosite ID: 18728772 EPA ID: N/R
Map Id: A5 Direction: W Distance: 0.902 I Actual: 4761.138 Elevation: 0.939 Relative: Lower	mi. 3 ft. mi. / 4960 ft.	Site Name: Database(s):	HOMESTEAD MOBILE HOME COMMUNITY 333 LOMAS NE ALBUQUERQUE, NM 87102 [PWS]	Envirosite ID: 18728772 EPA ID: N/R
Map Id: A5 Direction: W Distance: 0.902 I Actual: 4761.138 Elevation: 0.939 Relative: Lower	mi. 3 ft. mi. / 4960 ft.	Site Name: Database(s):	HOMESTEAD MOBILE HOME COMMUNITY 333 LOMAS NE ALBUQUERQUE, NM 87102 [PWS]	Envirosite ID: 18728772 EPA ID: N/R
Map Id: A5 Direction: W Distance: 0.902 I Actual: 4761.138 Elevation: 0.939 Relative: Lower PWS	mi. 3 ft. mi. / 4960 ft. PWS ID :	Site Name: Database(s):	HOMESTEAD MOBILE HOME COMMUNITY 333 LOMAS NE ALBUQUERQUE, NM 87102 [PWS] HOMESTEAD MOBILE HOME COMMU	Envirosite ID: 18728772 EPA ID: N/R
Map Id: A5 Direction: W Distance: 0.902 f Actual: 4761.138 Elevation: 0.939 Relative: Lower PWS	mi. 3 ft. mi. / 4960 ft. PWS ID : PWS Name :	Site Name: Database(s):	HOMESTEAD MOBILE HOME COMMUNITY 333 LOMAS NE ALBUQUERQUE, NM 87102 [PWS] HOMESTEAD MOBILE HOME COMMU NM3550201	Envirosite ID: 18728772 EPA ID: N/R
Map Id: A5 Direction: W Distance: 0.902 I Actual: 4761.138 Elevation: 0.939 Relative: Lower	mi. 3 ft. mi. / 4960 ft. PWS ID : PWS Name : PWS Type Code : PWS Activity Code :	Site Name: Database(s):	HOMESTEAD MOBILE HOME COMMUNITY 333 LOMAS NE ALBUQUERQUE, NM 87102 [PWS] HOMESTEAD MOBILE HOME COMMU NM3550201 CWS A	Envirosite ID: 18728772 EPA ID: N/R
Map Id: A5 Direction: W Distance: 0.902 f Actual: 4761.138 Elevation: 0.939 Relative: Lower	mi. 3 ft. mi. / 4960 ft. PWS ID : PWS Name : PWS Type Code : PWS Activity Code : Primacy Agency Co	Site Name: Database(s):	HOMESTEAD MOBILE HOME COMMUNITY 333 LOMAS NE ALBUQUERQUE, NM 87102 [PWS] HOMESTEAD MOBILE HOME COMMUNM3550201 CWS A NM	Envirosite ID: 18728772 EPA ID: N/R
Map Id: A5 Direction: W Distance: 0.902 I Actual: 4761.138 Elevation: 0.939 Relative: Lower	mi. 3 ft. mi. / 4960 ft. PWS ID : PWS Name : PWS Type Code : PWS Activity Code : Primacy Agency Co Population Served (	Site Name: Database(s): de : Count :	HOMESTEAD MOBILE HOME COMMUNITY 333 LOMAS NE ALBUQUERQUE, NM 87102 [PWS] HOMESTEAD MOBILE HOME COMMUN NM3550201 CWS A NM 185	Envirosite ID: 18728772 EPA ID: N/R
Map Id: A5 Direction: W Distance: 0.902 f Actual: 4761.138 Elevation: 0.939 Relative: Lower PWS	mi. 3 ft. mi. / 4960 ft. PWS ID : PWS Name : PWS Type Code : PWS Activity Code : Primacy Agency Co Population Served ( Service Connection	Site Name: Database(s): de : Count : s Count :	HOMESTEAD MOBILE HOME COMMUNITY 333 LOMAS NE ALBUQUERQUE, NM 87102 [PWS] HOMESTEAD MOBILE HOME COMMUN NM3550201 CWS A NM 185 53 Y	Envirosite ID: 18728772 EPA ID: N/R
Map Id: A5 Direction: W Distance: 0.902 I Actual: 4761.138 Elevation: 0.939 Relative: Lower	mi. <sup>3</sup> ft. mi. / 4960 ft. PWS ID : PWS Name : PWS Type Code : PWS Activity Code : Primacy Agency Co Population Served ( Service Connection Submission Status ( Pop Category 5 Des	Site Name: Database(s): de : Count : s Count : code : coription :	HOMESTEAD MOBILE HOME COMMUNITY 333 LOMAS NE ALBUQUERQUE, NM 87102 [PWS] HOMESTEAD MOBILE HOME COMMUN NM3550201 CWS A NM 185 53 Y <=500	Envirosite ID: 18728772 EPA ID: N/R
Map Id: A5 Direction: W Distance: 0.902 f Actual: 4761.138 Elevation: 0.939 Relative: Lower PWS	mi. <sup>3</sup> ft. mi. / 4960 ft. PWS ID : PWS Name : PWS Type Code : PWS Activity Code : Primacy Agency Co Population Served ( Service Connection Submission Status ( Pop Category 1 Des Pop Category 11 Des	Site Name: Database(s): de : Count : s Count : S Count : Code : scription : escription :	HOMESTEAD MOBILE HOME COMMUNITY 333 LOMAS NE ALBUQUERQUE, NM 87102 [PWS] HOMESTEAD MOBILE HOME COMMUN NM3550201 CWS A NM 185 53 Y <=500 101-500	Envirosite ID: 18728772 EPA ID: N/R
Map Id: A5 Direction: W Distance: 0.902 f Actual: 4761.138 Elevation: 0.939 Relative: Lower PWS	mi. <sup>3</sup> ft. mi. / 4960 ft. PWS ID : PWS Name : PWS Type Code : PWS Activity Code : PWS Activity Code : Primacy Agency Co Population Served ( Service Connection Submission Status ( Pop Category 1 Des Pop Category 11 Des	Site Name: Database(s): de : Count : s Count : Code : scription : escription :	HOMESTEAD MOBILE HOME COMMUNITY 333 LOMAS NE ALBUQUERQUE, NM 87102 [PWS] HOMESTEAD MOBILE HOME COMMUNITY NM3550201 CWS A NM 185 53 Y <=500 101-500	Envirosite ID: 18728772 EPA ID: N/R
Map Id: A5 Direction: W Distance: 0.902 f Actual: 4761.138 Elevation: 0.939 Relative: Lower PWS	mi. 3 ft. mi. / 4960 ft. PWS ID : PWS Name : PWS Type Code : PWS Activity Code : PWS Activity Code : Primacy Agency Co Population Served ( Service Connection Submission Status ( Pop Category 5 Des Pop Category 11 Des Pop Category 11 Des	Site Name: Database(s): de : Count : s Count : code : scription : escription :	HOMESTEAD MOBILE HOME COMMUNITY 333 LOMAS NE ALBUQUERQUE, NM 87102 [PWS] HOMESTEAD MOBILE HOME COMMUNITY NM3550201 CWS A NM 185 53 Y <=500 101-500	Envirosite ID: 18728772 EPA ID: N/R
Map Id: A5 Direction: W Distance: 0.902 f Actual: 4761.138 Elevation: 0.939 Relative: Lower PWS Facility I	mi. <sup>3</sup> ft. mi. / 4960 ft. PWS ID : PWS Name : PWS Type Code : PWS Activity Code : Primacy Agency Co Population Served ( Service Connection Submission Status ( Pop Category 5 Des Pop Category 11 Des Information Org Name :	Site Name: Database(s): de : Count : s Count : S Count : Code : scription : escription :	HOMESTEAD MOBILE HOME COMMUNITY 333 LOMAS NE ALBUQUERQUE, NM 87102 [PWS] HOMESTEAD MOBILE HOME COMMUN NM3550201 CWS A NM 185 53 Y <=500 101-500 KNIGHT, JIM	Envirosite ID: 18728772 EPA ID: N/R
Map Id: A5 Direction: W Distance: 0.902 I Actual: 4761.138 Elevation: 0.939 Relative: Lower PWS Facility I	mi. 3 ft. mi. / 4960 ft. PWS ID : PWS Name : PWS Type Code : PWS Activity Code : PWS Activity Code : Primacy Agency Co Population Served ( Service Connection Submission Status ( Pop Category 5 Des Pop Category 11 Des Information Org Name : Admin Name :	Site Name: Database(s): de : Count : s Count : Code : scription : escription :	HOMESTEAD MOBILE HOME COMMUNITY 333 LOMAS NE ALBUQUERQUE, NM 87102 [PWS] HOMESTEAD MOBILE HOME COMMUNITY NM3550201 CWS A NM 185 53 Y <=500 101-500 KNIGHT, JIM KNIGHT, JIM	Envirosite ID: 18728772 EPA ID: N/R
Map Id: A5 Direction: W Distance: 0.902 f Actual: 4761.138 Elevation: 0.939 Relative: Lower PWS Facility I	mi. 3 ft. mi. / 4960 ft. PWS ID : PWS Name : PWS Type Code : PWS Activity Code : PWS Activity Code : Primacy Agency Co Population Served ( Service Connection Submission Status ( Pop Category 5 Des Pop Category 11 Des Information Org Name : Admin Name : Phone Extension Nu	Site Name: Database(s): de : Count : s Count : Code : scription : escription :	HOMESTEAD MOBILE HOME COMMUNITY 333 LOMAS NE ALBUQUERQUE, NM 87102 [PWS] HOMESTEAD MOBILE HOME COMMUN NM3550201 CWS A NM 185 53 Y <=500 101-500 KNIGHT, JIM KNIGHT, JIM N/R	Envirosite ID: 18728772 EPA ID: N/R

Map Id: A5 Direction: W Distance: 0.902 mi. Actual: 4761.138 ft. Elevation: 0.939 mi. / 4960 ft. Relative: Lower		Site Name: Database(s):	HOMESTEAD MOBILE HOME COMMUNITY 333 LOMAS NE ALBUQUERQUE, NM 87102 [PWS] <b>(Cont.)</b>	Envirosite ID: 18728772 EPA ID: N/R
PWS <b>(Cont.)</b>				
	Phone Number : Fax Number : Alt Phone Number : Street Address 1 : Street Address 2 : City : Country : State : Zip Code : EPA Region :		505-998-0301 505-998-0305 N/R N/R 333 Lomas NE ALBUQUERQUE US NM 87102 06	
Treatme	nt Plants Summary			
freddiner	PWS ID :		NM3550201	
	Treatment Objective	e :	Disinfection	
	Treatment Process	:	Hypochlorination, Post	
	Facility ID :		1579	
	Facility Name :		TREATMENT PLANT # 1	
	Facility Activity Cod	e :	TREATMENT PLANT # 1	
	Facility Type Code :		TP	
	Facility Type Descri	ption :	Treatment Plant	
Geograp	hic Area Summary			
	PWS ID :		NM3550201	
	PWS Activity Code :		A	
	PWS Type Code :		CWS	
	Area Type Code :	on :	City	
	Primacy Agency Co	de ·	NM	
	City Served ·	ue.		
	County Served :		N/R	
	State Served :		NM	
	Zip Code Served :		N/R	
	EPA Region :		06	
	PWS ID :		NM3550201	
	PWS Activity Code :		A	
	PWS Type Code :		CWS	
	Area Type Code :		CN	

Map Id: A5 Direction: W Distance: 0.902 mi. Actual: 4761.138 ft. Elevation: 0.939 mi. / 4960 ft. Relative: Lower		Site Name: Database(s):	HOMESTEAD MOBILE HOME COMMUNITY 333 LOMAS NE ALBUQUERQUE, NM 87102 [PWS] <b>(Cont.)</b>	Envirosite ID: 18728772 EPA ID: N/R
PWS <b>(Cont.)</b>				
Area Type Description : Primacy Agency Code : City Served : County Served : State Served : Zip Code Served : EPA Region :		on : de :	County NM N/R Bernalillo N/R N/R 06	
Map Id: 6 Direction: SE Distance: 0.922 mi. Actual: 4867.754 ft.		Site Name:	CHINA ONE RESTAURANT 114 GIRARD S.E. ALBUQUERQUE, NM 87106	Envirosite ID: 18688211 EPA ID: N/R
Elevation: 0.983 Relative: Higher	mi. / 5190 ft.	Database(s):	[PWS]	
PWS				
	PWS ID : PWS Name : PWS Type Code : PWS Activity Code : Primacy Agency Co Population Served C Service Connection: Submission Status C Pop Category 5 Des Pop Category 11 De	de : Count : s Count : Code : cription : escription :	NM3591923 CHINA ONE RESTAURANT TNCWS I NM 35 1 Y <=500 <=100	
Facility I	nformation			
	Org Name : Admin Name : Phone Extension Nu Phone Number : Fax Number : Alt Phone Number : Street Address 1 :	ımber :	N/R N/R N/R N/R N/R N/R	

Zip Code Served :

EPA Region :

Map Id: 6 Direction: SE Distance: 0.922 mi. Actual: 4867.754 ft. Elevation: 0.983 mi. / 5190 ft. Relative: Higher	Site Name: Database(s)	CHINA ONE RESTAURANT 114 GIRARD S.E. ALBUQUERQUE, NM 87106 [PWS] <i>(Cont.)</i>	Envirosite ID: 18688211 EPA ID: N/R
PWS (Cont.)			
Street Add City : Country : State : Zip Code : EPA Region	lress 2 : n :	114 GIRARD S.E. ALBUQUERQUE US NM 87106 06	
Geographic Area Su	mmary		
PWS ID :		NM3591923	
PWS Activi	ity Code :	I	
PWS Type	Code :	TNCWS	
Area Type	Code :	CN	
Area Type	Description :	County	
Primacy Ag	gency Code :	NM	
City Serve	d :	N/R	
County Ser	rved :	N/R	
State Serv	ed :	N/R	

N/R

#### AREA RADON INFORMATION:

STATE DATABASE: No Available Data

FEDERAL AREA RADON INFORMATION FOR ZIP CODE: 87106 NUMBER OF SITES TESTED: No Available Data

#### LOCAL / REGIONAL WATER AGENCY RECORDS

#### FEDERAL WATER WELLS

INACTIVE PCS Inactive Permit Compliance Facilities Environmental Protection Agency (202) 564-6582 Inactive Permitted facilities to discharge wastewater

NWIS National Water Information Systems United States Geological Society (703) 648-5953 Information on all water resources for the United States. This database contains all current and historical data for the nation.

PCS ENF Enforced Permit Compliance Facilities Environmental Protection Agency (202) 564-6582 Permitted facilities to discharge wastewater (Federal equivalent to NPDES)

PCS FACILITY Permit Compliance Facilities Environmental Protection Agency (202) 564-6582 Permitted facilities to discharge wastewater (Federal equivalent to NPDES)

PWS

Public Water Supply Environmental Protection Agency (800) 426-4791 Safe drinking water information Systems

#### PWS ENF

Public Water Supply locations with Enforcement Violations Environmental Protection Agency (800) 426-4791 Safe drinking water information Systems with enforcememnt violations

STORM WATER Storm Water Permits Environmental Protection Agency (202) 566-1667 Permitted storm water sites

#### STATE RECORDS

NPDES - NM National Pollutant Discharge Elimination System Department of Environment (505) 827-2795 List of permitted wastewater discharge facilities

#### HYDROLOGIC INFORMATION

#### DEM

Digital Elevation Model United States Geologic Survey (202) 366-4595 The 7.5 minute DEM corresponds to the USGS 1:24 000-and 1:25 000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection

NWI

National Wetland Inventory U.S. Fish and Wildlife Service (703) 358-2171 Wetland Inventory for the United States

Q3 FLOOD DATA Flood data Environmental Protection Agency (202) 566-1667 Q3 Flood Data

#### **GEOLOGIC INFORMATION**

SSURGO Detailed Soil Data Map Natural Resources Conservation Service: U.S. Department of Agriculture (202) 690-4985 Detailed Soil Data Map

STATSGO & MUI General Soil Data Map Natural Resources Conservation Service: U.S. Department of Agriculture (202) 690-4985 General Soil Data Map

USGS DDS USGS Digital Data Series DDS Natural Resources Conservation Service: U.S. Department of Agriculture (202) 690-4985 USGS Digital Data Series DDS: Geologic Age and Rock Stratigraphic Unit

#### **OTHER STATE DATABASE INFORMATION**

#### OTHER

AIRPORT FACILITIES Airport landing facilities Federal Aviation Administration (866) 835-5322 Airport landing facilities

EPICENTERS National Geographical Data Center National Geographical Data Center 303-497-6826 Data on over four million earthquakes dating from 2100 B.C. to 1995 A.D. PIPELINES Gas & Oil Pipelines USGS (202) 366-4595 GeoData Digital Line Graph transportation category

#### RADON

RADON National Radon Database USGS 703-605-6008 A study of the EPA/State Residential Radon Survey and the National Residential Radon Survey.

#### STATE RECORDS

OIL&GAS - NM Oil and Gas Wells New Mexico Oil Conservation Division (505) 827-2855 Oil and Gas Wells



Record of Communication User Questionnaire

#### RECORD OF COMMUNICATIONS

#### Julie Brasil, UNM Real Estate Department Via Email May 18 and June 15, 2015

Ms. Brasil completed the User Questionnaire and stated that she was unaware of any environmental concerns at the subject property. She stated that UNM acquired the land lease property from the Sandia Foundation on October 30, 1998. She said that the fair market value of the property was not applicable in a property transfer between a sorority and the university. She stated that UNM is performing the Phase I and II ESA to provide due diligence prior to the property acquisition.

### Joseph L. Werntz, Moses, Dunn, Farmer & Tuthill, P.A. Via Site Visit and Email from May 22 through June 15, 2015

Mr. Werntz, Esquire, provided access to the subject property and information regarding the history of the site. He was aware of no potential environmental concerns at the subject property.

### Jennifer Vasquez, AXO National Housing Corporation Field Representative Via Site Visit on May 22, 2015

Ms. Vasquez with the AXO sorority met with the Zia environmental professional at the subject property on May 22, 2015. She provided information about the history of the subject property and that the building had been unoccupied for two years. She stated that a water pipe break in 2014 had resulted in water damage to the first and second floors. The water line was repaired and the damaged building materials were replaced. She stated that there had been visible mold growth in the building that had been abated.

#### Scott Dickson, PNM Environmental Services Via Email on June 9, 2015

Mr. Dickson with PNM Environmental Services was contacted via email on June 9, 2015, for information regarding information about the pad-mount transformer (Station No. 11904) located at the subject property. Mr. Dickson responded that the transformer was manufactured by Westinghouse in 2007 and is non-PCB.

#### Lt. Daniel French, Albuquerque Fire Department Records Division Via Email on May 26, 2015

Lt. French with the Albuquerque Fire Department Records Division was contacted on May 26, 2015, for information regarding possible records of HazMat responses at the subject property. Lt. French reviewed the computer database and stated that the Fire Department has no record of a HazMat response at the subject property.

#### PHASE I ENVIRONMENTAL SITE ASSESSMENT USER QUESTIONNAIRE (ASTM 1527-13)

Property Address:

Type of Property:

1635 Meg. Vista, PI.NE	
Albuquerque, NM	
- soraity house	

possible acquis

Type of Property Transaction (sale, purchase, exchange, lease, etc.)

Reason why the ESA is being performed:

In order to quality for one of the Landowner Liability Protections (LLPs)' offered by the Small Business Liability Relief and Brownsfield Revitalization Act of 2001 (the "Brownfield's Amendments"), the user must conduct the following inquires required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. These inquires must also be conducted by EPA Brownfield Assessment and Characterization grantees. The user should provide the following information to the environmental professional. Failure to conduct these inquires could result in a determination that "all appropriate inquires" is not complete.

Environmental Liens that are filed or recorded against the property (40 CFR 312.25).

Did a search of recorded land title records (or judicial records where appropriate\*) identify any environmental liens filed or recorded against the property under Yes Who federal, tribal, state or local law?

If yes, please explain:

\*In certain jurisdictions, federal, tribal, state, or local statues, or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for environmental liens and AULs.

Activity and use limitations that are in place on the property or that have been filed or recorded against the property (40 CFR 312.26(a)(1)(v) and vi))).

Did a search of recorded land title records (or judicial records where appropriate\*) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/ or have been filed or recorded against the property under federal, tribal, state or local law?

If yes, please explain:

"In certain jurisdictions, federal, tribal, state, or local statues, or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for environmental tiens and AULs.

<sup>&</sup>lt;sup>1</sup> Landowner Liability Protections, or LLPs, is the term used to describe the three types of potential defenses to Superfund liability in EPA's Interim Guidance Regarding Criteria Landowners Must Meet in Order to Quilty for Bona Fide Prospective Purchaser. Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liabilities ("Common Elements" Guide) issues on March 6, 2003.

#### PHASE I ENVIRONMENTAL SITE ASSESSMENT USER QUESTIONNAIRE (ASTM 1527-13) (Continued)

Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CRF 312.28).

Do you have any specialized knowledge or experience related to the *property* or nearby properties? For Example, are you involved in the same line of business as the current or former *occupants* of the *property* or an *adjoining property* so that you would have specialized knowledge of the chemicals and processes used by this type of business?

If yes, please explain:

Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29).

Does the purchase price being paid for the property reasonably reflect the fair  $\Box$  Yes  $\Box$  No  $\mu$   $\mu$ 

If you conclude there is a difference have you considered whether the lower purchase price is because contamination is known or believed to be present at the Yes No No

If yes, please explain:

Commonly known or reasonably ascertainable information about the property (40 CFR 312.30).

Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example:

Do you know of the past	Ves I No	
If yes, please explain:	sorovitahouse	

#### PHASE I ENVIRONMENTAL SITE ASSESSMENT USER QUESTIONNAIRE (ASTM 1527-13) (Continued)

the property?	Yes Ko
If yes, please explain:	
Do you know of spills or other chemical releases that have taken place on the property?	Yes Ves
f yes, please explain:	
Do you know of any environmental cleanups that have taken place at the property?	Yes

The degree of obviousness of the presence of likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40 CRF 312.31).

Based on your knowledge and experience related to the *property* are there any obvious indicators that points to the presence or likely presence of releases at the *property*?

If yes, please	e explain:	geotin	nprine	ments	
	- Dia	12			
lame: itle	Half.	ment Gtul	ASOC.	IIE	
ate:	5/18/15				
ssociation v	with Property	potent.	ral trug	ler _	

# **APPENDIX F**

Asbestos Laboratory Analytical Report Asbestos Samples Chain of Custody Lead-Based Paint Laboratory Analytical Report Lead-Based Paint Chain of Custody Mold Spore Laboratory Analytical Report Mold Spore Chain of Custody Radon Laboratory Analytical Report Batta Laboratories, Inc Delaware Industrial Park 6 Garfield Way Newark, DE 19713

Voice:	302-7 Ext.	737-3 117	3376 Billing	Questions
Fax:	302-1	737-	5764	

#### Bill To:

Zia Engineering & Env. Consultants 1720 Louisiana Blvd NE #308 Albuquerque, NM 87110

ATTN: Ken Hunter

Customer ID	Customer PO	Customer PO		Payment Terms		
ZIA	NALE-15-023	NALE-15-023		Days		
Quantity	Description	Unit Price	Total	Project #		
36.00 PLM Bulk Sample ##	Samples Analyzed, 5day TAT, 324762-824797	6.	50 234.00	R100015		
20.00 PLM Bulk Sample #8 825679-82	ADDITIONAL LAYERS Analyzed, 325662-825672, 825674-825677, 25683	4.	80.00	R100015		

#### TAX ID# 510371905

Due Date:

Jul 15, 2015

Project Ref.:

Bulk Samples Submitted for PLM Analysis, UNM / ESA+ / Mesa Vista, 1635 Mesa Vista NE

Subtotal: \$	314.00
Payment/Credit Applied: \$	

Check/Credit Memo No

**TOTAL: \$** 314.00

Past Due Invoices will be charged at a rate of 1.5%. We accept Visa and M/C.





Invoice Date:

013929

Page:

1

Jun 15, 2015



NY ELAP LAB# 11993 for PCM, PLM, TEM & Lead

#### Dept. Code: PLM

Rev. #: 0



# **BATTA LABORATORIES, INC.**

A Certified MBE Company

Delaware Industrial Park, 6 Garfield Way Newark, DE19713-5817 Tel. (302)737-3376 Fax (302) 737-5764

Web: http://www.battaenv.com E-mail: battaenv@battaenv.com

#### EPA LAB ID #DE004



AIHA LAP, LLC. LAB# 100448 PCM & Metals

**NVLAP** LAB# 101032 PLM & TEM

# **CERTIFICATE OF PLM ANALYSIS**

Page	1	of	12
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Batch#: N/A									
COC#:	N/A	Te	st Method	: EPA/600/	/R-93/116 in conj	unction wit	h Batta SOP	Report Date:	6/11/2015
Samplin	g Data							Date Sampled:	5/22/2015
BLI Proje	ect #:	R100015						Sampled By:	CLIENT
Project N	lame:	ZIA ENGINEERING	3-WI-UNI	V/ESA+/N	IESA VISTA			Date Analyzed:	6/9/2015
Samp	ole ID	Client-sup	olied Da	ta	Analytica	l Data	R	eported Results	5
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform Components	
824762	23A1	DRAIN ROOF TAR	Tar	N/A	Firm Homogeneous	Black	90% Non-fibrous Material	10% Ch	rysotile
824763	23A2	ACCESS HATCH	Tar	N/A	Firm Homogeneous	Black	95% Non-fibrous Material	5% Chr	ysotile
824764	23A3	CHIMNEY	Brick	N/A	Firm Homogeneous	Brown	100% Non-fibrous Material	No Asbesto	os Found
824765	23A4	CHIMNEY	Cement	N/A	Granular Homogeneous	Tan	100% Non-fibrous Material	No Asbesto	os Found
824766	23A5	CHIMNEY	Grout	N/A	Firm Homogeneous	White	100% Non-fibrous Material	No Asbesto	os Found

Note 1 Organically-bound, nonfriable material may interfere with the accurate quantification of asbestos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY 198.6/198.4 over the Chatfield method.

Note 2 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note 3 Otherwise specified, Tr=Trace or < 0.1% based on visual estimate.

S. REYNOLDS ANALYST:

**REVIEWED BY:** QA/QC\_Officer

\*This report does not constitute endorsement by NVLAP and/or any other US government agencies.

\*The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, Inc. assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.



NY ELAP LAB# 11993 for PCM, PLM, TEM & Lead

#### Dept. Code: PLM

Rev. #: 0



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Delaware Industrial Park, 6 Garfield Way Newark, DE19713-5817 Tel. (302)737-3376 Fax (302) 737-5764 ACCREDITED LABORATORY RECORDANCE & Demonstrating LBU Records and a ready and a ready and and a ready and

AIHA LAP, LLC

AIHA LAP, LLC. LAB# 100448 PCM & Metals

NVLAP LAB# 101032 PLM & TEM

EPA LAB ID #DE004

Web: http://www.battaenv.com E-mail: battaenv@battaenv.com

# **CERTIFICATE OF PLM ANALYSIS**

Page 2 of 12

Batch#:	N/A								
COC#:	N/A	Т	est Method	: EPA/600/	/R-93/116 in conj	junction wi	th Batta SOP	Report Date:	6/11/2015
Samplin	g Data							Date Sampled:	5/22/2015
BLI Proje	ect #:	R100015						Sampled By:	CLIENT
Project N	lame:	ZIA ENGINEERIN	G-WI-UNI	M/ESA+/N	IESA VISTA			Date Analyzed:	6/9/2015
Samp	ole ID	Client-sup	plied Da	ta	Analytica	I Data	R	eported Result	5
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform Components	
824767	23A6	STUCCO/PAINT	Stucco	N/A	Granular Homogeneous	Tan	100% Non-fibrous Material	No Asbest	os Found
825662	23A6- LAYER	N/A	Paint	N/A	Firm Homogeneous	Tan	100% Non-fibrous Material	No Asbest	os Found
824768	23A7	CEILING TILE ADHESIVE	Mastic	N/A	Firm Homogeneous	Brown	100% Non-fibrous Material	No Asbest	os Found
824769	23A8	CEILING 1'X1' TILE	Accustic Tile	N/A	Fibrous Homogeneous	White	60% Mineral Wool 40% Non-fibrous Material	No Asbest	os Found
824770	23A9	CEILING SHEETROCK	Sheetrock	N/A	Fibrous Homogeneous	Brown White	25% Cellulose 75% Non-fibrous Material	) No Asbest	os Found

Note 1 Organically-bound, nonfriable material may interfere with the accurate quantification of asbestos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY 198.6/198.4 over the Chatfield method.

Note 2 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note 3 Otherwise specified, Tr=Trace or < 0.1% based on visual estimate.

ANALYST: S. REYNOLDS

**REVIEWED BY:** OA/OC Off ignatory

\*This report does not constitute endorsement by NVLAP and/or any other US government agencies.

\*The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, Inc. assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.



NY ELAP LAB# 11993 for PCM, PLM, TEM & Lead

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#### EPA LAB ID #DE004

AIHALAP, LLC ACCREDITED LABORATORY MOUSTING HICKNE & DEMISSIONER TO LED MOUSTING HICKNE A DEMISSIONER TO LED AIHA LAP, LLC. LAB# 100448 PCM & Metals

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NVLAP LAB# 101032 PLM & TEM

Web: http://www.battaenv.com E-mail: battaenv@battaenv.com

# **CERTIFICATE OF PLM ANALYSIS**

Page 3 of 12

Batch#:	tch#: N/A								
<u>COC#:</u>	N/A	Те	est Method	: EPA/600/	/R-93/116 in conj	unction wit	th Batta SOP	Report Date:	6/11/2015
Samplin	ig Data							Date Sampled:	5/22/2015
BLI Proje	ect #:	R100015						Sampled By:	CLIENT
Project N	Vame:	ZIA ENGINEERIN	G-WI-UNI	M/ESA+/N	MESA VISTA			Date Analyzed:	6/9/2015
Sam	ple ID	Client-sup	plied Da	lied Data Analytical Data F			R	eported Result	S
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform	Components
824771	23A10	CEILING TILE ADHESIVE	Mastic	N/A	Firm Homogeneous	Brown	100% Non-fibrous Material	No Asbest	os Found
824772	23A11	COVE BASE ADHESIVE	Mastic	N/A	Firm Homogeneous	Brown	100% Non-fibrous Material	No Asbest	os Found
824773	23A12	N/A	Sheetrock	N/A	Firm Homogeneous	Brown White	25% Cellulose 75% Non-fibrous Material	No Asbest	os Found
825663	23A12- LAYER 1	N/A	Texture	N/A	Firm Homogeneous	White	100% Non-fibrous Material	<1% Ch	rysotile
825664	23A12- LAYER 2	N/A	Tap Mud	N/A	Firm Homogeneous	White	100% Non-fibrous Material	No Asbest	os Found

Note Organically-bound, nonfriable material may interfere with the accurate quantification of asbestos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY 198.6/198.4 over the Chatfield method.

Note 2 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

**Note 3** Otherwise specified, Tr=Trace or < 0.1% based on visual estimate.

S. REYNOLDS

ANALYST:

**REVIEWED BY:** QA/QC Officer/Signatory

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NY ELAP LAB# 11993 for PCM, PLM, TEM & Lead

#### Dept. Code: PLM

Rev. #: 0



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Web: http://www.battaenv.com E-mail: battaenv@battaenv.com

#### EPA LAB ID #DE004



AIHA LAP, LLC. LAB# 100448 PCM & Metals

**NVLAP** LAB# 101032 PLM & TEM

# **CERTIFICATE OF PLM ANALYSIS**

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Batch#:	N/A								
COC#:	N/A	Те	est Method	: EPA/600/	'R-93/116 in conj	unction wi	th Batta SOP	Report Date:	6/11/2015
Samplin	g Data							Date Sampled:	5/22/2015
BLI Proje	ect #:	R100015						Sampled By:	CLIENT
Project N	lame:	ZIA ENGINEERIN	G-WI-UNI	M/ESA+/N	IESA VISTA			Date Analyzed:	6/9/2015
Sam	ple ID	Client-sup	plied Da	ta	Analytica	l Data	R	leported Results	
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform (	Components
824774	23A13	N/A	Floor Tile	N/A	Firm Homogeneous	White	98% Non-fibrous Material	2% Chi	rysotile
824775	23A14	N/A	Tsi	N/A	Fibrous Homogeneous	Yellow	90% Mineral Wool 10% Non-fibrous Material	No Asbesto	os Found
824776	23A15	N/A	Insulation	N/A	Fibrous Homogeneous	Yellow	5% Fiber Glass 85% Mineral Wool 5% Cellulose 5% Non-fibrous Material	No Asbesto	os Found
824777	23A16	N/A	Sheetrock	N/A	Firm Homogeneous	Brown White	25% Cellulose 75% Non-fibrous Material	No Asbesto	os Found
825665	23A16- LAYER 1	N/A	Texture	N/A	Firm Homogeneous	White	100% Non-fibrous Material	<1% Chi	ysotile

Note Organically-bound, nonfriable material may interfere with the accurate quantification of asbestos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY 198.6/198.4 over the Chatfield method.

Note 2 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

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NY ELAP LAB# 11993 for PCM, PLM, TEM & Lead

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AIHA LAP, LLC. LAB# 100448 PCM & Metals

**NVLAP** LAB# 101032 PLM & TEM

Rev. #:	0		CER	IFICA	NE OF F	'LN AN	VALYSIS		Page 5 of 12	
Batch#:	N/A								-	
COC#:	N/A	Τ	est Method	EPA/600/	R-93/116 in cor	junction wit	h Batta SOP	Report Date:	6/11/2015	
Samplin	g Data						4	Date Sampled:	5/22/2015	
BLI Proje	ect #:	R100015						Sampled By:	CLIENT	
Project N	lame:	ZIA ENGINEERIN	G-USFWS	S/ASB/VA	LLE DE ORO			Date Analyzed: 6/9/2015		
Samp	ole ID	Client-sup	plied Da	ta	Analytica	al Data	R	Reported Results		
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform (	Components	
825666	23A16- LAYER 2	N/A	Tape Mud	N/A	Firm	White	100% Non-fibrous Material	No Asbest	os Found	
					Homogeneous					
824778	23A17	N/A	Tsi	N/A	Fibrous Homogeneous	Gray	45% Mineral Wool 50% Non-fibrous Material	5% Ch	rysotile	
824779	23A18	N/A	Tsi	N/A	Fibrous	Tan White	45% Mineral Wool 15% Cellulose 40%	No Asbest	os Found	
					Homogeneous		Non-Indious Material			
824780	23A19	N/A	Insulation	N/A	Fibrous	Yellow	90% Mineral Wool 10% Non-fibrous Material	No Asbest	os Found	
					Homogeneous					
825667	23A19- LAYER	N/A	Canvas	N/A	Fibrous	White	90% Cellulose 10% Non-fibrous Material	No Asbesto	os Found	
					Homogeneous					

Note 1 Organically-bound, nonfriable material may interfere with the accurate quantification of asbestos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY 198.6/198.4 over the Chatfield method.

Note 2 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

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**NVLAP** LAB# 101032 PLM & TEM

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Rev. #:	0		CERI	<b>FIFICA</b>	NIE OF P		NALYSIS		Page 6 of 12
Batch#:	N/A		4 M - 441		D 00/440 in				0/44/0045
COC#.	N/A	16	est ivietnoa	: EPA/600/	R-93/116 in conj	unction wi	th Batta SOP	Report Date:	6/11/2015
Samplin	g Data	D400045						Date Sampled:	5/22/2015
BLI Proje	CL #:							Sampled By:	CLIENT
Project	vame:		G-WI-UNI	1/20A+/I	Analutian		D	Date Analyzed:	6/9/2015
Sam		Client-sup	plied Da	ta	Analytica	Data	R(	eported Result	5
Lab Sample#	Client Sample#	Sample Description	Type	Friable?	Gross	Color	Non-asbestiform Components	Asbestiform	Components
824781 23A20		N/A	Insulation	N/A	Fibrous	Yellow	90% Mineral Wool 10% Non-fibrous Material	No Asbestos Found	
					Homogeneous				
825668	23A20- LAYER	N/A	Canvas	N/A	Fibrous	White	90% Cellulose 10% Non-fibrous Material	No Asbest	os Found
					Homogeneous				
824782	23A21	N/A	Tsi	N/A	Fibrous	Gray	45% Mineral Wool 52% Non-fibrous	3% Chrysotile	
					Homogeneous		Material		
824783	23A22	N/A	Tsi	N/A	Fibrous	Gray	45% Mineral Wool 52% Non-fibrous	3% Ch	rysotile
					Homogeneous		Material		
824784	23A23		Floor Tile	N/A	Firm		98% Non-fibrous	2% Ch	rysotile
					Homogeneous		Materiai		

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NY ELAP LAB# 11993 for PCM, PLM, TEM & Lead

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NVLAD

NVLAP LAB# 101032 PLM & TEM

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# CERTIFICATE OF PLM ANALYSIS

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Batch#:	N/A										
	N/A	e	est Method	: EPA/600/	/R-93/116 in conj	unction wit	h Batta SOP	Report Date:	6/11/2015		
Samplin	g Data	D400045						Date Sampled:	5/22/2015		
BLI Proje	ect #:							Sampled By:	CLIENT		
Project	vame:		3-03FW	S/ASB/VA	LLE DE ORU			Date Analyzed:	6/9/2015		
Samp		Client-sup	plied Da	ta	Analytica	I Data	K	eported Results			
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform	Components		
825669	23A23- LAYER	N/A	Mastic	N/A	Firm Homogeneous	Black	100% Non-fibrous Material	No Asbesi	tos Found		
824785	23A24	N/A	Mud	N/A	Firm Homogeneous	White	98% Non-fibrous Material	2% Ch	rysotile		
824786	23A25	N/A	Mud	N/A	Fibrous Homogeneous	Gray	98% Non-fibrous Material	2% Ch	rysotile		
824787	23A26	N/A	Floor Tile	N/A	Firm Homogeneous	White	98% Non-fibrous Material	2% Ch	rysotile		
825670	23A26- LAYER	N/A	Mastic	N/A	Firm Homogeneous	Black	100% Non-fibrous Material	No Asbest	os Found		

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Note 2 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

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NY ELAP LAB# 11993 for PCM, PLM, TEM & Lead

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Delaware Industrial Park, 6 Garfield Way Newark, DE19713-5817 Tel. (302)737-3376 Fax (302) 737-5764 AIHA LAP, LLC ACCREDITED LABORATORY MUSICAL AVAILABLE ADVISION OF A LABORATORY BODIC 1 TURE ADVIS AIHA LAP, LLC. LAB# 100448 PCM & Metals

EPA LAB ID #DE004

NVLAP LAB# 101032 PLM & TEM

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# CERTIFICATE OF PLM ANALYSIS

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Batch#:	N/A								
COC#:	N/A	Те	est Method	: EPA/600/	/R-93/116 in conj	unction wi	th Batta SOP	Report Date:	6/11/2015
Samplin	ig Data							Date Sampled:	5/22/2015
BLI Proje	ect #:	R100015						Sampled By:	CLIENT
Project N	Vame:	ZIA ENGINEERIN	G-WI-UNI	M/ESA+/N	MESA VISTA			Date Analyzed:	6/9/2015
Sam	ple ID	Client-sup	plied Da	ta	Analytica	l Data	R	eported Results	\$
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform (	Components
824788	23A27	N/A	Mastic	N/A	Firm Homogeneous	Brown	100% Non-fibrous Material	No Asbesto	os Found
824789	23A28	N/A	Sheetrock	N/A	Firm Homogeneous	Brown White	25% Cellulose 75% Non-fibrous Material	No Asbesto	os Found
825671	23A28- LAYER 1	N/A	Texture	N/A	Firm Homogeneous	White	100% Non-fibrous Material	<1% Chi	ysotile
825672	23A28- LAYER 2	N/A	Mud	N/A	Firm Homogeneous	White	100% Non-fibrous Material	No Asbesto	os Found
824790	23A29	N/A	Sheetrock	N/A	Firm Homogeneous	Brown White	25% Cellulose 75% Non-fibrous Material	No Asbesto	is Found

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NY ELAP LAB# 11993 for PCM, PLM, TEM & Lead

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### EPA LAB ID #DE004



AIHA LAP, LLC. LAB# 100448 PCM & Metals

**NVLAP** 

LAB# 101032 PLM & TEM

Rev. #:	0		CER	IIFICA	ALE OF P	LM AI	NALYSIS		Page 9 of 12	
Batch#:	N/A									
<u>COC#:</u>	N/A	Те	est Method	: EPA/600/	/R-93/116 in conj	unction wi	th Batta SOP	Report Date:	6/11/2015	
Samplin	g Data							Date Sampled:	5/22/2015	
BLI Proje	ect #:	R100015						Sampled By:	CLIENT	
Project N	lame:	ZIA ENGINEERIN	G-USFW	S/ASB/VA	LLE DE ORO			Date Analyzed:	6/9/2015	
Sam	ole ID	Client-sup	plied Da	ta	Analytica	I Data	R	Reported Results		
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	asbestiform Asbestiform Cor		
825674	23A29- LAYER 1	N/A	Texture	N/A	Firm Homogeneous	White	100% Non-fibrous Material	<1% Cl	nrysotile	
825675	23A29- LAYER 2	N/A	Mud	N/A	Firm Homogeneous	White	100% Non-fibrous Material	No Asbes	tos Found	
824791	23A30	N/A	Floor Tile	N/A	Firm Homogeneous	Gray	98% Non-fibrous Material	2% Cr	rysotile	
825676	23A30- LAYER	N/A	Mastic	N/A	Firm Homogeneous	Black	100% Non-fibrous Material	No Asbest	tos Found	
824792	23A31	N/A	Floor Tile	N/A	Firm Homogeneous	White	100% Non-fibrous Material	No Asbest	os Found	

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NY ELAP LAB# 11993 for PCM, PLM, TEM & Lead

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#### EPA LAB ID #DE004



AIHA LAP, LLC. LAB# 100448 PCM & Metals

**NVLAP** LAB# 101032 PLM & TEM

# **CERTIFICATE OF PLM ANALYSIS**

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Batch#:	N/A								
COC#:	N/A	Τe	est Method	: EPA/600/	R-93/116 in conj	unction wit	th Batta SOP	Report Date:	6/11/2015
Samplin	g Data							Date Sampled:	5/22/2015
BLI Proje	ect #:	R100015						Sampled By:	CLIENT
Project N	lame:	ZIA ENGINEERIN	G-USFWS	S/ASB/VA	LLE DE ORO			Date Analyzed:	6/9/2015
Samp	ole ID	Client-sup	plied Da	ta	Analytica	l Data	R	eported Result	S
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform	Components
825677	23A31- LAYER	N/A	Mastic	N/A	Firm Homogeneous	Yellow	100% Non-fibrous Material	No Asbest	os Found
824793	23A32	N/A	Texture	N/A	Firm Homogeneous	White	98% Non-fibrous Material	2% Ch	rysotile
824794	23A33	N/A	Floor Tile	N/A	Firm Homogeneous	White	98% Non-fibrous Material	2% Ch	rysotile
825679	23A33- LAYER	N/A	Mastic	N/A	Firm Homogeneous	Black	100% Non-fibrous Material	No Asbest	os Found
824795	23A34	N/A	Sheetrock	N/A	Firm Homogeneous	White Brown	20% Cellulose 80% Non-fibrous Material	b No Asbest	os Found

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**NVLAP** LAB# 101032 PLM & TEM

Rev. #:	0		CER1	<b>FIFIC</b> A	ATE OF P	LMA	NALYSIS		Page 11 of 12
COC#:	N/A N/A	Те	est Method	: EPA/600/	/R-93/116 in conj	unction wi	th Batta SOP	Report Date:	6/11/2015
Samplin	g Data							Date Sampled:	5/22/2015
BLI Proie	ect #:	R100015						Sampled By:	CLIENT
Project N	lame:	ZIA ENGINEERIN	G-USFWS	S/ASB/VA	LLE DE ORO			Date Analyzed:	6/9/2015
Sam	ole ID	Client-sup	plied Da	ta	Analytical Data		Re	eported Resul	ts
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform	Components
825680	23A34- LAYER 1	N/A	Texture	N/A	Firm	White	100% Non-fibrous Material	No Asbe	stos Found
					Homogeneous				
825681	23A34- LAYER 2	N/A	Mud	N/A	Firm Homogeneous	White	100% Non-fibrous Material	No Asbe	stos Found
824796	23A35	N/A	Sheetrock	N/A	Firm	White Brown	20% Cellulose 80% Non-fibrous Material	No Asbe	stos Found
					Homogeneous				
825682	23A35- LAYER 1	N/A	Texture	N/A	Firm	White	100% Non-fibrous Material	<1% (	Chrysotile
					Homogeneous				
825683	23A35-	3A35- N/A	Mud	N/A	Firm	100% Non-fibror White Motorial		No Asbe	stos Found
	LATERZ				Homogeneous		matonar		

Note 1 Organically-bound, nonfriable material may interfere with the accurate quantification of asbestos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY 198.6/198.4 over the Chatfield method.

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QA/QC-Officer/Sigi hatory

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NY ELAP LAB# 11993 for PCM. PLM, TEM & Lead



#### EPA LAB ID #DE004

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CERTIFICATE OF PLM ANALYSIS

#### Dept. Code: PLM

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Rev. #: 0		CERT	<b>FIFICA</b>	<b>NTE OF P</b>	PLM AN	NALYSIS		Page 12 of 12
Batch#: N/A								
COC#: N/A	T	est Method:	EPA/600/	R-93/116 in con	junction wit	h Batta SOP	Report Date:	6/11/2015
Sampling Data							Date Sampled:	5/26/2015
BLI Project #:	R100015						Sampled By:	CLIENT
Project Name:	ZIA ENGINEERIN	G-WI-UNI	M/ESA+/N	IESA VISTA			Date Analyzed:	6/9/2015
Sample ID	Client-sup	plied Da	ta	Analytica	al Data	R	eported Resu	lts
Lab Client Sample# Sample	Lab         Client         Sample Description         Material         Friable?         Texture/         Color         Non-asbestiform         Asbestiform         Components							
824797 23A36	N/A	Mastic	N/A	Firm	Tan	100% Non-fibrous Material	No Asbe	estos Found
				Homogeneous				

Note 1 Organically-bound, nonfriable material may interfere with the accurate quantification of asbestos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY 198.6/198.4 over the Chatfield method.

Note 2 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note 3 Otherwise specified, Tr=Trace or < 0.1% based on visual estimate.

S. REYNOLDS ANALYST:

**REVIEWED BY:** QA/QC Officer

\*This report does not constitute endorsement by NVLAP and/or any other US government agencies.

\*The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, Inc. assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

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A Certified ME A Certified ME Dedicated to a Cleaner En <sup>v</sup>	SORATORIES D E Company 6 vironment Since 1982 T	elaware Industrial Park Garfield Way, Newark, D el: (302) 737-3376  Fax: (	<pre>&lt;</pre>	E-ma Web:	il: battaen http://ww	/@battaen\ v.battaenv.	Com		NHA LAP,LLC3 VY ELAP# 119 EPA Lab#: DEC	≠ 100448 93 004
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E-mail: Khunter@ Zia	ec.com Fax:	Project Locatio	n: /635 /	Nesa VI	L NIES	L VISTA			Jeci #. NALE	10-07
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764 23A 3	Chimney clay brid	x 05/22				Bulk		449		
765 23A 4	Chimney cement	05/22				Bulk		~ ~		
746 23A 5	Chimney grout	05/22				Bulk		N40		
975224/194	Stucco / paint	05/22				Bulk		(myky x	A	
76 23A 7	Ceiling Tile adhes	ve 05/22				Bulk		662		
767 23A 8	Celling I'xi' file	05/22				Bulk		QAN		
TO 23 A 9	Ceiling sheetrock	05/22				Bulk		24J		
01 A52 112	ceiling tileadhes	ive 05/22				Bulk		AAD		•
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Note to Customers: BLI requests	customers submit field blanks with the	eir industrial hygiene and en	nvironmental lead	l samples.				Total Payr Other:	ment:	
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For water samples only: samples mu.	st be shipped on ice, and received by the la	boratory within 48 hrs of colle	ection. For NY sar	nples by NIOSH	7400 & 7402:	at least two fie P (	id blanks must of 4	be submitted and	analyzed by NY F	LAP rules.
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786 23 A	125	wall tapine mi	Je la	05/22				Bulk		2 to chy		
787/ 23 A	22	q"xq" Floor tile w	masfic	05/22				Bulk		Echno /1/2	¢	
18 23 A	127	cove base adhes	ive	5/22				Bulk		NAG		
952a/28L	75875	sheetrock, texture	tapina M	5/2 by				And K		A BANA DANA	1	
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V 791/232	730	9"×9" Floor tile of	mastic	5/22				Bulk		24cdry / ma	H I	94-68 <b>7</b>
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23A18       TST.       5/22       8u/lk       Bu/lk       Aution         23A17       Duct insulation/course       5/22       Bu/lk       Bu/lk       Aution         23A20       Duct insulation/course       5/22       Duct insulation       Summer insulation       Bu/lk       Aution         celinquished by:       23 A20       Duct insulation       Date:	23 AI 7	TSI Hand Elbow	~	5/22				Bull				
23A19     Duct insulation/course     5/22     Bulk     Bulk       23A20     Duct insulation/course     5/22     Bulk     Bulk       23A20     Duct insulation/course     5/22     Bulk     Bulk       23A20     Duct insulation/course     5/22     Bulk     Bulk       cellousished by:     Duct insulation/course     5/22     Bulk     Bulk       cellousished by:     Date:     Time:     Date:     Color       Date:     Time:     Date:     Time:     Date:     Date:       celeved by:     Date:     Time:     Date:     Date:     Date:       celeved by:     Date:     Time:     Date:     Date:     Date:       telenquished by:     Date:     Time:     Date:     Date:     Date:       telenquished by:     Date:     Date:     Date:     Date:     Date:       telenquished by:     Logged in by:     Date of Login:     Time:     Date:     Date:       for the analytical method to dermet the number of layers of submitted by inclusion of the clent on the clean on the	23 418	T.S.T.		5/22				Bulk				
23 A20       Duct immulation ( immulation ( immulation )       5/22       Bull         Reinquished by:       Date:       0       1         Received by:       Date:       0       1         Reinquished by:       Date:       0       1         Reinquished by:       Date:       0       1       1         Received by:       Date:       0       0       0         Received by:       Date:       0       0       0         received by:       Date:       0       0       0       0         received by:       Date:       0       0       0       0       0         received by:       Date:       0       0       0       0       0       0         received by:       Date:       0 <t< td=""><td>23419</td><td>Duct insulation,</td><td>1 courses</td><td>5/22</td><td></td><td></td><td></td><td>Bulk</td><td>_</td><td></td><td></td><td></td></t<>	23419	Duct insulation,	1 courses	5/22				Bulk	_			
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For water samples	only: samples must	t be shipped on ice, and received by th	te laboratory wit	hin 48 hrs of collect	ion. For NY sa	mples by NIO	SH 7400 & 740	2: at least two field	blanks mus f 4	t be submitted a	and analyzed by 1	NY ELAP rule	cs.



NVLAP LAB# 101032 PLM & TEM



Delaware Industrial Park, 6 Garfield Way Newark, DE19713-5817 Tel. (302)737-3376 Fax (302) 737-5764 **Newark, DE - Georgetown, DE - Philadelphia, PA** Web: http://www.battaenv.com E-mail: battaenv@battaenv.com

#### EPA LAB ID#: DE004

AIHA LAP, LLC ACCREDITED LABORATORY INDUŞTRIAL HYGIENE & ENVIRONMENTAL LEAD ISO/IEC 17025-2005 WWW.elfheatocreditediable.org

LAB# 100448 PCM & LEAD NY ELAP# 11993 PCM, PLM, TEM & LEAD

Test Method: SOP SW846/3050B/7420M

**REPORT OF ANALYSIS** 

Page 1 of 2

Report Revision#:	Original		
Project Number:	L820515		
Project Name:	ZIA ENGINEERING-WI-UNM/ESA+/MESA VIST	A - 06-09-15P1-TOAA800	)
Project Location:	1635 MESA VISTA NE		
Date Received:	6/3/2015	Date Sampled:	6/1/2015
Date Analyzed:	6/9/2015	Sampled By:	CLIENT
Analyte Requested:	PAINT-Pb (LEAD)	Date Report Issued:	6/9/2015

Lab Sample #	Field Sample #	Sample Description	Result in mg/kg	Result in % by Weight	Reporting Limit mg/kg % Weigh
938975	23L1	CHIMNEY, BRN, WOOD	< 63	< 0.0063	
938976	23L2	LADDER, BLU, MTR	670	0.067	
938977	23L3	DOOR,RED,WOOD	340	0.034	
938978	23L4	WINDOW, BEIGE, MTL	< 63	< 0.0063	,
938979	23L5	WALL, BRN, STUCCO	< 63	< 0.0063	
938980	23L6	GATE,WHITE,WOOD	3,300	0.33	63 0.0063
938981	23L7	DOOR,METAL,WHITE	600	0.060	
938982	23L8	HANDRAIL,WHITE,METAL	480	0.048	
938983	23L9	DOOR, BLUE, METAL	< 63	< 0.0063	
938984	23L10	DOOR JAMB, BRN, MTL	260	0.026	

Note: 1. EPA guidelines require identification of paint samples as "lead based paint" when concentrations are found to be greater than 0.5% by weight (5000 mg/kg); 2. Quality control results in this report are acceptable; 3. Results relate only to the items tested; Batta Laboratories, Inc. is not responsible for sample collection, nor interpretations made by others; 4. This report does not constitute endorsement by AIHA LAP, LLC., NVLAP and/or any other U.S. governmental agencies; and 5. Lab results/calculations are reported in 2 significant figures. Clients data/measurements are reported as they were submitted.

Batta Lab strives on customer feedback to improve the quality of our services. Please e-mail your feedback to feedback@battaenv.com.

Analyst:

T Okavage


Dedicated to a cleaner environment since 1982



NVLAP LAB# 101032 PLM & TEM



Delaware Industrial Park, 6 Garfield Way Newark, DE19713-5817 Tel. (302)737-3376 Fax (302) 737-5764 Newark, DE - Georgetown, DE - Philadelphia, PA Web: http://www.battaenv.com E-mail: battaenv@battaenv.com EPA LAB ID#: DE004

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE & ENVIRONMENTAL LEAD ISO/IEC 17025-2005 www.eihesporeditedfabs.org

LAB# 100448 PCM & LEAD NY ELAP# 11993 PCM, PLM, TEM & LEAD

Test Method: SOP SW846/3050B/7420M

**REPORT OF ANALYSIS** 

Page 2 of 2

Original		
L820515		
ZIA ENGINEERING-WI-UNM/ESA+/MESA VISTA	A - 06-09-15P1-TOAA800	)
1635 MESA VISTA NE		
6/3/2015	Date Sampled:	6/1/2015
6/9/2015	Sampled By:	CLIENT
PAINT-Pb (LEAD)	Date Report Issued:	6/9/2015
	Original L820515 ZIA ENGINEERING-WI-UNM/ESA+/MESA VIST, 1635 MESA VISTA NE 6/3/2015 6/9/2015 PAINT-Pb (LEAD)	Original         L820515         ZIA ENGINEERING-WI-UNM/ESA+/MESA VISTA - 06-09-15P1-TOAA800         1635 MESA VISTA NE         6/3/2015       Date Sampled:         6/9/2015       Sampled By:         PAINT-Pb (LEAD)       Date Report Issued:

Lab Sample #	Field Sample #	Sample Description	Result in mg/kg	Result in % by Weight	Repor mg/kg	ting Limit % Weight
938985	23L11	DOORJAMB,WHITE,METAL	76	0.0076		
938986	23L12	WALL, GREEN, SHEETROCK	160	0.016		
938987	23L13	CURB, BLUE, CONCRETE	96	0.0096		
938988	23L14	CURB,RED,CONCRETE	< 63	< 0.0063	63	0.0063
938989	23L15	WALL, WHITE, SHEETROCK	200	0.020		
938990	23L16	WALL, BEIGE, SHEETROCK	100	0.010		

Note: 1. EPA guidelines require identification of paint samples as "lead based paint" when concentrations are found to be greater than 0.5% by weight (5000 mg/kg); 2. Quality control results in this report are acceptable; 3. Results relate only to the items tested; Batta Laboratories, Inc. is not responsible for sample collection, nor interpretations made by others; 4. This report does not constitute endorsement by AIHA LAP, LLC., NVLAP and/or any other U.S. governmental agencies; and 5. Lab results/calculations are reported in 2 significant figures. Clients data/measurements are reported as they were submitted.

Batta Lab strives on customer feedback to improve the quality of our services. We appreciate your feedback.

Analyst:

T. Okavage



Decident Content       Delawate Industrial Park       E-mail: battaenv.com       NNAP       NNAP         Administration       Tel: 202/137-3514       E-mail: battaenv.com       E-mail: battaenv.com       NY El         Administration       Tel: 202/137-3514       E-mail: battaenv.com       NY El         Customer Billing Information       Tel: 202/137-3514       E-mail: battaenv.com       NY El         Customer Billing Information       Tel: 202/137-3514       Moil: http://www.battaenv.com       NY El         Customer Billing Information       Tel: 202/137-3514       Turm Around Time (TAT)       NY El         Customer Name:       Zia Englineet iver at Environment Since 1982       Tel: 202/137-3514       Moil: http://www.battaenv.com         Customer Name:       Zia Engling Information       Tel: 202/137-3514       Turm Around Time (TAT)       Other         Customer Name:       Zia Engline Address 1:       Trace Louicisieue B(Ud NC, # 300       Sinped by Customer       24 His       Intermediate       Intermediate         Billing Address 1:       Trace Louicisieue B(Ud NC, # 300       Sinped by Customer       24 His       Intermediate       Intermediate         Billing Address 2:       Alburgter Tel:       Project Name:       U.V.M. / E.S. / Nr.S.A. V.S.A. V.S.A.       Intermediate       Intermediate         E-mail:	NVLAP # 10103       NVLAP # 10103       AlHA LAP, LLC#       NY ELAP# 1196       NY ELAP# 1196       NY ELAP# 1196       Ins       Hrs       Hrs       Hrs       Ins       Other TAT Req       Other TAT Req       Ins       Ins	32 # 100448 993 004 Analyst E- <i>i</i> S / S	
LaboratoriesDelawate Industrial ParkLaboratoriesDelawate Industrial ParkConfigue Vary, Newark, DE 19713-5817E-mail: battaenv@battaenv.comMV El $\Delta continuent CommonTel: (302) 737-3376 Fax: (302) 737-3376 Fax: (302) 737-3376 Fax: (302) 737-5744Wei: http://www.battaenv.comMV ElDedicated to a Cleaner Environment Since 1982Tel: (302) 737-3756 Fax: (302) 737-5744Wei: http://www.battaenv.comMV ElCustomer Billing InformationTel: \mathcal{S} \sim \mathcal{L} \mathcal{L} \sim \mathcal{L} \mathcal{L} < \mathcal{L} \mathcal{L} \sim \mathcal{L} \mathcal{L} < \mathcal{L} <$	Alta LaP, LLC# NY ELAP# 1196 EPA Lab#: DE0 FPA Lab#: DE0 Hrs Hrs Hrs Hrs Hrs Client Project #: <u>VS20</u> Analysis	# 100448 993 004 Analyst E- (S - C2 :	
Customer Billing InformationTurn Around Time (TAT)Customer Billing InformationTurn Around Time (TAT)Customer Name:Zia Engineer lung & EnvironmendieCustomer Name:Zia Engineer lung & EnvironmendieDilling Address 1:Tota & EnvironmendieDilling Address 2:Allbugue-Lgue. NI M & 71(1 C)Project Name:UNNIN (ESA + /ME)CustomerDistrict #District # <td>Other TAT Req       Metals     Other TAT Req       Ins     Hrs       Hrs     Hrs       Hrs     Lab Project #: 28205       Obays     Lab Project #: 28205       Client Project #: Analysis     Analysis</td> <td>quest : 5 /5 Analyst</td>	Other TAT Req       Metals     Other TAT Req       Ins     Hrs       Hrs     Hrs       Hrs     Lab Project #: 28205       Obays     Lab Project #: 28205       Client Project #: Analysis     Analysis	quest : 5 /5 Analyst	
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977 23L3 Door, Red, wood 05/22 Bulk Bulk			
TTO 23L W WOOM, BEIGE, MT ( 05/22 ) BUIK			
974 2315 Wall, Brn, stucco 05/22 Bulk Bulk			
980 236 Gate, white, wood 05/22 Bulk Bulk			
981 23L 7 Door, metal white 05/22 Bull			
982 236 8 Handrad, while, metal 05/22 Bull			
9832319 Door, blue, metal 05/22 Buel			
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Note to Customers: BLI requests customers submit field blanks with their industrial hygiene and environmental lead samples.	total rayment		
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Lab will follow the analytical method to determine the number of layers of a submitted sample if not all clearly identified by the client on the COC. The friability if not specified on the COC but required by the method will be determined in the laboratory condition only.			
For water samples only: samples must be shipped on ice, and received by the laboratory within 48 hrs of collection. For NY samples by NIOSH 7400 & 7402: at least two field blanks must be submitted and analy	nks must be submitted and analyzed by NY El	ELAP rules.	

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988 23214	Curb, red, concrete		51/22/50				Buc	~				
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For water samples only: samples must	be shipped on ice, and received by the la	boratory with	in 48 hrs of collecti	on. For NY s	amples by NI	OSH 7400 8	k 7402: at leas	. two field blank	s must be submit	tted and ar	nalvzed bv NY E	LAP rules.

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Customer Special Req	uest/Comments (if appl	licable):				Explanation	Comment:		Purchase Order#		
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For water samples only: samp	les must be shipped on ice, and	d received by the laboratory with	in 48 hrs of collectio	n. For NY san	nples by NIOSH	7400 & 7402:	it least two field bli	unks must be submit	ted and analyzed by N'	Y ELAP rules.	



Report for:

Ken Hunter Zia Engineering & Environmental Consultants, LLC 1720 Louisiana Boulevard NE, #308 Albuquerque, NM 87110

Regarding: Project: Nale-15-023; UNM/Mold Spore/Mesa Vista EML ID: 1373997

Approved by:

T. Co

Operations Manager Joshua Cox

Dates of Analysis: Spore trap analysis: 06-05-2015

Service SOPs: Spore trap analysis (EM-MY-S-1038) AIHA-LAP, LLC accredited service, Lab ID #102297

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

1501 West Knudsen Drive, Phoenix, AZ 85027 (800) 651-4802 Fax (623) 780-7695 www.emlab.com

Date of Sampling: 06-02-2015 Date of Receipt: 06-03-2015 Date of Report: 06-05-2015

### SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	0 <b>22M</b> 1	1:	First Floor	022142 2	2:	acond Elecr
Comments (see below)	0251011	21331720 None		0251012 2	<u>1551745 S</u> None	
Lab ID Version <sup>†</sup> :		6208154	1		6208155	1
Lao ID- Version <sub>4</sub> .		05/05/201	۱ ۶		05/05/201	۱ ۲
Analysis Date:		06/05/201	5		06/05/201	5
	raw ct.	% read	spores/m3	raw ct.	% read	spores/m3
Alternaria						
Ascospores		100				
Basidiospores	1	100	7			
Bipolaris/Drechslera group						
Chaetomium						
Cladosporium	1	100	7	1	100	7
Myrothecium						
Nigrospora						
Other brown	1	100	7	1	100	7
Other colorless						
Penicillium/Aspergillus types <sup>†</sup>						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes				1	100	7
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+) <sup>††</sup>	2+			3+		
Hyphal fragments/m3	7			< 7		
Pollen/m3	< 7			7		
Skin cells (1-4+)	1+			1+		
Sample volume (liters)	150			150		
§ TOTAL SPORES/m3			20			20

**Comments:** 

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

<sup>†</sup> The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium, Paecilonyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

 $\dagger$  Åackground debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

 $\ddagger$  A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

1501 West Knudsen Drive, Phoenix, AZ 85027 (800) 651-4802 Fax (623) 780-7695 www.emlab.com

Date of Sampling: 06-02-2015 Date of Receipt: 06-03-2015 Date of Report: 06-05-2015

### SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	022142 2	3:	lessed Eless	022144	4:	Third Floor
Comments (see below)	0251015 2	<u>1331/3/ 3</u> None		0251014 2	None	Third Floor
Lab ID Versiont		(200156)	1		(200157	1
Lab ID-version <sub>1</sub> :		0308150-	1 ~		0308157-	[ 
Analysis Date:		06/05/201	5		06/05/201	5
	raw ct.	% read	spores/m3	raw ct.	% read	spores/m3
Alternaria				5	100	33
Ascospores				1	100	7
Basidiospores				1	100	7
Bipolaris/Drechslera group				1	100	7
Chaetomium						
Cladosporium				8	100	53
Myrothecium						
Nigrospora						
Other brown	1	100	7	4	100	27
Other colorless						
Penicillium/Aspergillus types†				3	100	20
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys				1	100	7
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+) <sup>††</sup>	3+			4+		
Hyphal fragments/m3	7			67		
Pollen/m3	7			40		
Skin cells (1-4+)	1+			3+		
Sample volume (liters)	150			150		
§ TOTAL SPORES/m3			7			160

**Comments:** 

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

<sup>†</sup> The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium, Paecilonyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

 $\dagger$  Åackground debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

 $\ddagger$  A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

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Date of Sampling: 06-02-2015 Date of Receipt: 06-03-2015 Date of Report: 06-05-2015

### SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:		5: 023M5 21551773 Amb	iont
Comments (see below)		0231v13 21331773 Alli0. None	lent
Lab ID-Version <sup>†</sup> :		6308158-1	
Analysis Date:		06/05/2015	
Anarysis Date.	norry of	00/03/2013	am a na a /m 2
Alternaria	raw ci.	70 ICau	spores/III5
	1	100	7
Ascospores	<u> </u>	100	7
Dasiulospores Dipolorio/Droobaloro group	1	100	/
Chootomium			
Cladosporium			
Myrothecium			
Nigrospora			
Other brown			
Other colorless			
Penicillium/Aspergillus types*			
Pithomyces			
Rusts			
Smuts Periconia Myxomycetes			
Stachybotrys			
Stemphylium			
Torula	1	100	7
Ulocladium			·
Zygomycetes			
Background debris (1-4+) <sup>††</sup>	3+		
Hyphal fragments/m3	7		
Pollen/m3	47		
Skin cells (1-4+)	< 1+		
Sample volume (liters)	150		
§ TOTAL SPORES/m3			20
Commonta			

**Comments:** 

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

<sup>†</sup> The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium, Paecilonyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

 $\dagger$  Å Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

 $\ddagger$  A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.



Report for:

Ken Hunter Zia Engineering & Environmental Consultants, LLC 1720 Louisiana Boulevard NE, #308 Albuquerque, NM 87110

Regarding: Project: Nale-15-023; UNM/Mold Spore/Mesa Vista EML ID: 1373997

Approved by:

T. Co

Operations Manager Joshua Cox

Dates of Analysis: Direct microscopic exam (Qualitative): 06-05-2015

Service SOPs: Direct microscopic exam (Qualitative) (EM-MY-S-1039) AIHA-LAP, LLC accredited service, Lab ID #102297

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

1501 West Knudsen Drive, Phoenix, AZ 85027 (800) 651-4802 Fax (623) 780-7695 www.emlab.com

Date of Sampling: 06-02-2015 Date of Receipt: 06-03-2015 Date of Report: 06-05-2015

# DIRECT MICROSCOPIC EXAMINATION REPORT

Background Debris and/or Description	Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or sporulating structures†	Other Comments††	General Impression
Lab ID-Version <sup>‡</sup> : 6	5308150-1, Analysis	Date: 06/05/2015: Swab sample 6: 02.	3M1B Second Floor	r
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 63	308151-1, Analysis I	Date: 06/05/2015: Swab sample 7: 023	M2B Second Floor	
Light	Very few	None	None	Normal trapping
Lab ID-Version: 63	308152-1, Analysis I	Date: 06/05/2015: Swab sample 8: 023	M3B Third Floor	
Light	None	None	None	No mold spores detected
Lab ID-Version: 63	808153-1, Analysis I	Date: 06/05/2015: Swab sample 9: 023	M4B Second Floor	
Very Heavy	Very few	None	None	Normal trapping

\* Indicative of normal conditions, i.e. seen on surfaces everywhere. Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating. Distribution of spore types seen mirrors that usually seen outdoors.

† Quantities of molds seen growing are listed in the MOLD GROWTH column and are graded <1+ to 4+, with 4+ denoting the highest numbers.

<sup>††</sup> Some comments may refer to the following: Most surfaces collect a mix of spores which are normally present in the outdoor environment. At times it is possible to note a skewing of the distribution of spore types, and also to note "marker" genera which may indicate indoor mold growth. Marker genera are those spore types which are present normally in very small numbers, but which multiply indoors when conditions are favorable for growth.

<sup>‡</sup> A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

The limit of detection is < 1+ when mold growth is detected.

Doc. #1192 Ray 29 Revsed4/25/133 Page 1 of 1, 0.5.

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# **ALPHA ENERGY LABORATORIES**

2501 Mayes Road, Suite 100 Carrollton, Texas 75006 Phone: (800) 324-5928 Fax: (972) 242-8860 www.DrHomeAir.com

5/27/2015 101132 AL	<u>Test Floor</u>	Basement	Basement	1st Floor	Basement	Basement
Date Received: NEHA ID#: State ID#:	<b>Room Location</b>	Hallway	Hallway	Restroom	Laundry Room	Laundry Room
IMMARY	End Time/Date	9:22:00 5/26/2015	9:24:00 5/26/2015	9:20:00 5/26/2015	9:26:00 5/26/2015	9:27:00 5/26/2015
Project: DN RESULT SU	Start Time/Date	10:51:00 5/22/2015	10:44:00 5/22/2015	11:06:00 5/22/2015	10:23:00 5/22/2015	10:27:00 5/22/2015
& Environmental F Blvd Ne Ste 308 IM 87110 Br RADG	<u>Test Location</u>	1635 Mesa Vista Ne Albuquerque Nm 87106	1635 Mesa Vista Ne Albuquerque  Nm  87106	1635 Mesa Vista Ne Albuquerque Nm 87106	1635 Mesa Vista Ne Albuquerque Nm 87106	1635 Mesa Vista Ne Albuquerque  Nm  87106
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<b>Client:</b> Zia Ei 1720 Albuq Attn: Attn:	Kit Serial #	FA20600	FA20646	FA20680	R16158	R16180

LIEUNS

Laboratory Director

5/28/2015 Date \_

PAGE 1

# **APPENDIX G**

Resumes

+	Zia Engir	KENNETH HUNTER Associate Scientist neering & Environmental Consultants, LLC	
EDUCATION	<b>B.S.</b> , Geological Sciences, <i>New Mexico</i> <i>State University</i> , 1983.	<ul> <li>Associate Scientist, Zia Engineering &amp; Environmental Consultants, LLC, 2013 – Present</li> <li>Environmental Projects Manager, X8e Vinyard (formerly Vinyard &amp; Associates, Inc.), Albuquerque, NM, 2001 – 2013</li> <li>Environmental Projects Manager, Terracon, Albuquerque, NM, 1998 – 2001</li> <li>Environmental Department Manager, Western Technologies, Albuquerque, NM, 1993 – 1998</li> <li>Environmental Geologist, Prindle- Hinds/Deuel Environmental, Albuquerque, NM, 1988 – 1993</li> <li>Engineering Technician, Scanlon &amp; Associates, Santa Fe, NM, 1987 – 1988</li> </ul>	
<ul> <li>CERTIFICATIONS</li> <li>Hazardous Waste Operations per OSHA 29 CFR 1910.120</li> <li>Asbestos Inspector per TSCA Title II, AHERA, Louisiana</li> <li>Asbestos Management Planner per TSCA Title II, AHERA, Louisiana</li> </ul>			

### **PROFESSIONAL EXPERIENCE**

Mr. Hunter has worked as an environmental consultant since 1988, working in more than 20 states and overseas. Mr. Hunter has been the environmental department manager for local offices of three firms before coming to Zia. Mr. Hunter has performed Phase I ESAs, Phase II ESAs (soil and groundwater), asbestos surveys, lead-paint surveys, radon gas surveys, mold spore surveys, and soil vapor assessments. He has extensive experience with landfills – preparing Waste Excavation Plans, providing oversight and air quality monitoring during excavation, landfill gas surveys, landfill gas mitigation designs, and long-term monitoring.

### **PROJECT EXPERIENCE**

Alameda Boulevard Reconstruction – Albuquerque, NM

Mr. Hunter provided health and safety monitoring during widening of Alameda Boulevard and installation of a storm sewer line. Environmental tasks consisted of drilling and installing multiple groundwater wells, monitoring petroleum-contaminated groundwater and soil from two UST release sites, oversight for excavation and disposal of petroleum-contaminated soil, coordination with the New Mexico Environment Department, groundwater modeling, monitoring soil and groundwater for coliform bacteria, sampling for asbestos and lead-paint in buildings to be demolished, air quality monitoring (asbestos and VOCs), and noise-level monitoring.

### Multiple Environmental Assessments – Zambia

Mr. Hunter performed multiple Environmental Assessments over a two-month period in accordance with international standards for industrial facilities (farms, ranches, edible oil manufacturer, sugar mill, flour mill, cement kiln, etc.) for U.S. AID. Zambia was renegotiating loans and several businesses would be privatized as a function of the new loan agreement. Environmental regulations for Zambia had not yet been written and the Environmental Assessments were performed to support the privatization effort.

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## **KENNETH HUNTER**

### **ASSOCIATE SCIENTIST**

Zia Engineering & Environmental Consultants, LLC

*Phase II ESA* – Albuquerque, NM

Albuquerque Public Schools (APS) was considering purchasing a church property in downtown Albuquerque. Mr. Hunter initially performed a Phase I ESA with asbestos sampling. The Phase I ESA concluded that a nearby BNSF Railroad release had likely impacted the subject property and recommended a Phase II (soils and groundwater) investigation. There was also a possibility that a nearby NPL site (chlorinated solvent contamination in groundwater) had impacted the northwest portion of the subject property. The Phase II investigation consisted of drilling and installing seven groundwater monitoring wells. Chlorinated solvents were not detected, but groundwater contamination from the railroad release was significant and had migrated beneath both buildings at the subject property. Minor soil contamination, likely vapor phase hydrocarbons partitioning from the NAPL above the water table, was also identified. The environmental investigations were a contributing factor in APS not acquiring the property.

### *Environmental Services* – Multiple States

Mr. Hunter performed multiple Phase I ESAs, asbestos surveys, and Phase II investigations (soil and groundwater) at UST sites for a national rent-a-car company. Projects were completed in Texas, Utah, Nevada, Colorado, Washington, New Mexico, and California. Tasks including removing USTs in San Francisco, CA.

### *Environmental Services* – Multiple States

Mr. Hunter performed multiple Phase I ESAs with asbestos sampling for a national insurance company. Projects were completed in Louisiana, Texas, Illinois, Michigan, Minnesota, Ohio, Wisconsin, and Arizona. Two projects in Minnesota and Arizona included Phase II soil investigations.

### Los Angeles County Transit Commission – Los Angeles, CA

Los Angeles County Transit Commission was acquiring railroad right-of-way for conversion into a new surface road system. Mr. Hunter performed eight soil gas surveys at eight properties in Canoga Park, Van Nuys, and Tarzana. Based on the results of the soil gas investigations, tracts in each of the communities were selected for drilling investigations. Groundwater monitoring wells were installed in all three communities.

### Landfill Gas Investigations – Albuquerque, NM

Several arroyos in Albuquergue were historically utilized as sand and gravel pits. The excavations were subsequently backfilled with solid wastes, creating multiple small landfills that were incorporated as the city limits expanded. Landfill gases were identified migrating outside the boundary of one landfill in 2000. The Albuquerque Environmental Health Department (AEHD) subsequently developed guidelines for development within specified buffer zones around the landfills. Mr. Hunter has performed approximately 90 landfill gas investigations for commercial and city development within the designated buffer zones. Tasks frequently included developing landfill gas mitigation designs. Periodically, landfill debris would require excavation and Mr. Hunter prepared Waste Excavation Plans for landfills along Paseo del Norte, Oakland Avenue, Corona Avenue, and San Antonio Drive. The landfill gas mitigation design for several facilities including installing methane sensors inside the buildings and vapor monitoring wells. Mr. Hunter performs quarterly sensor calibration and monitoring for those facilities. One facility that was developed on San Antonio capped the site, which may have resulted in landfill gas migrating south toward a residential neighborhood. Mr. Hunter designed and installed 11 vapor extraction wells along the perimeter of the facility and designed a vapor extraction system underneath several of the buildings at the facility. Mr. Hunter is performing long-term comprehensive landfill gas monitoring of the AEHD wells along to south side of the facility to document that landfill gases are being adequately vented and are not migrating south toward the residential neighborhood.

### Environmental Compliance Inventory – Dulce, New Mexico

Mr. Hunter performed an open dump site inventory for the 88,000-acre Jicarilla Apache tribal lands. More than 40 open dump sites were eventually identified, some of which were associated with oil and gas drilling operations. A second task included assessing the landfill in Dulce, NM, for compliance with federal regulations. A third task included assessing the sewage lagoon system in Dulce, NM, for compliance with federal regulations.

# **APPENDIX H**

General Terms and Acronyms New Mexico Terms and Acronyms

# Appendix G: Description of Selected General Terms and Acronyms

TERM/ACRONYM	DESCRIPTION
	Asbestos Containing Material. Asbestos is a naturally occurring mineral, three varieties of which (chrysotile, amosite, crocidolite) have been commonly used as fireproofing or binding agents in construction materials. Exposure to asbestos, as well as ACM, has been documented to cause lung diseases including asbestosis (scarring of the lung), lung cancer and mesothelioma (a cancer of the lung lining).
ACM	Regulatory agencies have generally defined ACM as a material containing greater that one (1) percent asbestos, however some states (e.g. California) define ACM as materials having 0.1% asbestos. In order to define a homogenous material as non-ACM, a minimum number of samples must be collected from the material dependent upon its type and quantity. Homogenous materials defined as non-ACM must either have 1) no asbestos identified in all of its samples or 2) an identified asbestos concentration below the appropriate regulatory threshold. Asbestos concentrations are generally determined using polarized light microscopy or transmission electron microscopy. Point counting is an analytical method to statistically quantify the percentage of asbestos in a sample. The asbestos component of ACM may either be friable or non-friable. Friable materials, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure and have a higher potential for a fiber release than non-friable ACM. Non-friable ACM are materials that are firmly bound in a matrix by plastic, cement, etc. and, if handled carefully, will not become friable.
	Federal and state regulations require that either all suspect building materials be presumed ACM or that an asbestos survey be performed prior to renovation, dismantling, demolition, or other activities that may disturb potential ACM. Notifications are required prior to demolition and/or renovation activities that may impact the condition of ACM in a building. ACM removal may be required if the ACM becomes damaged or is likely to be disturbed or damaged during demolition or renovation. Abatement of friable or potentially friable ACM must be performed by a licensed abatement contractor in accordance with state rules and NESHAP. Additionally, OSHA regulations for work classification, worker training and worker protection will apply.
AHERA	Asbestos Hazard Emergency Response Act
AST	Above Ground Storage Tanks. ASTs are generally described as storage tanks less than 10% of which are below ground (i.e., buried). Tanks located in a basement, but not buried, are also considered ASTs. Whether, and the extent to which, an AST is regulated, is determined on a case-by-case basis and depends upon tank size, its contents and the jurisdiction of its location.
BGS	Below Ground Surface
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes. BTEX are VOC components found in gasoline and commonly used as analytical indicators of a petroleum hydrocarbon release.
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (a.k.a. Superfund). CERCLA is the federal act that regulates abandoned or uncontrolled hazardous waste sites. Under this Act, joint and several liability may be imposed on potentially responsible parties for cleanup-related costs.
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System. An EPA compilation of sites having suspected or actual releases of hazardous substances to the environment. CERCLIS also contains information on site inspections, preliminary assessments and remediation of hazardous waste sites. These sites are typically reported to EPA by states and municipalities or by third parties pursuant to CERCLA Section 103.
CFR	Code of Federal Regulations
DOT	U.S. Department of Transportation
EPA	U.S. Environmental Protection Agency
ERNS	Emergency Response Notification System. An EPA-maintained federal database which stores information on notifications of oil discharges and hazardous substance releases in quantities greater than the applicable reportable quantity under CERCLA. ERNS is a cooperative data-sharing effort between EPA, DOT, and the National Response Center.
ESA	Environmental Site Assessment
FRP	Fiberglass Reinforced Plastic
Hazardous Substance	As defined under CERCLA, this is (A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title; (C) any hazardous waste having characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act (with some exclusions); (D) any toxic pollutant listed under section 1317(a) of Title 33; (E) any hazardous air pollutant listed under section 112 of the Clear Air Act; and (F) any imminently hazardous chemical substance or mixture with respect to which the EPA Administrator has taken action under section 2606 of Title 15. This term does not include petroleum, including crude oil or any fraction thereof which is not otherwise listed as a hazardous substance under subparagraphs (A) through (F) above, and the term does not include natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).

TERM/ACRONYM	DESCRIPTION
Hazardous Waste	This is defined as having characteristics identified or listed under section 3001 of the Solid Waste Disposal Act (with some exceptions). RCRA, as amended by the Solid Waste Disposal Act of 1980, defines this term as a "solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed."
HREC	Historical Recognized Environmental Condition. Environmental condition which in the past would have been considered a recognized environmental condition (REC), but which may or may not be considered a REC currently. The final decision rests with the environmental professional and will be influenced by the current impact of the HREC on the property. If a past release of any hazardous substances or petroleum products has occurred in connection with the property and has been remediated, with such remediation accepted by the responsible regulatory agency (for example, as evidence by the issuance of a no further action letter or equivalent), this condition shall be considered an historical recognized environmental condition.
ILP	Innocent Landowner/Operator Program
LUST	Leaking Underground Storage Tank. This is a federal term set forth under RCRA for leaking USTs. Some states also utilize this term.
MCL	Maximum Contaminant Level. This Safe Drinking Water concept (and also used by many states as a groundwater cleanup criteria) refers to the limit on drinking water contamination that determines whether a supplier can deliver water from a specific source without treatment.
MSDS	Material Safety Data Sheets. Written/printed forms prepared by chemical manufacturers, importers and employers that identify the physical and chemical traits of hazardous chemicals under OSHA's Hazard Communication Standard.
NESHAP	National Emissions Standard for Hazardous Air Pollutants (Federal Clean Air Act). This part of the Clean Air Act regulates emissions of hazardous air pollutants.
NFRAP	Facilities where there is "No Further Remedial Action Planned," as more particularly described under the Records Review section of this report.
NOV	Notice of Violation. A notice of violation or similar citation issued to an entity, company or individual by a state or federal regulatory body indicating a violation of applicable rule or regulations has been identified.
NPDES	National Pollutant Discharge Elimination System (Clean Water Act). The federal permit system for discharges of polluted water.
NPL	National Priorities List, as more particularly described under the Records Review section of this report.
OSHA	Occupational Safety and Health Administration or Occupational Safety and Health Act
PACM	Presumed Asbestos-Containing Material. A material that is suspected of containing or presumed to contain asbestos but which has not been analyzed to confirm the presence or absence of asbestos.
PCB	Polychlorinated Biphenyl. A halogenated organic compound commonly in the form of a viscous liquid or resin, a flowing yellow oil, or a waxy solid. This compound was historically used as dielectric fluid in electrical equipment (such as electrical transformers and capacitors, electrical ballasts, hydraulic and heat transfer fluids), and for numerous heat and fire sensitive applications. PCB was preferred due to its durability, stability (even at high temperatures), good chemical resistance, low volatility, flammability, and conductivity. PCBs, however, do not break down in the environment and are classified by the EPA as a suspected carcinogen. 1978 regulations, under the Toxic Substances Control Act, prohibit manufacturing of PCB-containing equipment; however, some of this equipment may still be in use today.
pCi/L	picoCuries per Liter of Air. Unit of measurement for Radon and similar radioactive materials.
PLM	Polarized Light Microscopy (see ACM section of the report, if included in the scope of services)
PST	Petroleum Storage Tank. An AST or UST that contains a petroleum product.
Radon	A radioactive gas resulting from radioactive decay of naturally-occurring radioactive materials in rocks and soils containing uranium, granite, shale, phosphate, and pitchblende. Radon concentrations are measured in picoCuries per liter of air. Exposure to elevated levels of radon creates a risk of lung cancer; this risk generally increases as the level of radon and the duration of exposure increases. Outdoors, radon is diluted to such low concentrations that it usually does not present a health concern. However, radon can accumulate in building basements or similar enclosed spaces to levels that can pose a risk to human health. Indoor radon concentrations depend primarily upon the building's construction, design and the concentration of radon in the underlying soil and groundwater. The EPA recommended annual average indoor "action level" concentration for residential structures is 4.0 pCi/l.
RCRA	Resource Conservation and Recovery Act. Federal act regulating solid and hazardous wastes from point of generation to time of disposal ('cradle to grave''). 42 U.S.C. 6901 et seq.
RCRA Generators	The RCRA generators list is part of the RCRIS database maintained by EPA and lists facilities that generate hazardous waste as part of their normal business operations, as more particularly defined under Section 5.0 of this report.
RCRA CORRACTS/TSDs	The USEPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous materials, which are undergoing "corrective action". A "corrective action" order is issued when there is a release of hazardous waste or constituents into the environment from a RCRA facility.

TERM/ACRONYM	DESCRIPTION
RCRA Non- CORRACTS/TSDs	The RCRA Non-CORRACTS/TSD Database is a compilation by the USEPA of facilities that report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.
RCRA Violators List	RAATS. RCRA Administrative Actions Taken. RAATS information is now contained in the RCRIS database and includes records of administrative enforcement actions against facilities for noncompliance
RCRIS	Resource Conservation and Recovery Information System, as defined in the Records Review section of this report
REC	Recognized Environmental Condition is defined by ASTM E 1527-00 as "the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions of compliance with laws. The term is not intended to include <i>de minimis</i> conditions that generally do not present a material risk of harm to the public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.
SCS	State "CERCLIS" List (see SPL /State Priority List, below).
SPCC	Spill Prevention, Control and Countermeasures. SPCC plans are required under federal law (Clean Water Act and Oil Pollution Act) for any facility having a petroleum AST with a capacity of over 660 gallons or two or more tanks having an aggregate capacity of over 1320 gallons. SPCC plans are also required for facilities with underground petroleum storage tanks with capacities of over 42,000 gallons. Many states have similar spill prevention programs, which may have additional requirements.
SPL	State Priority List. State list of confirmed sites having contamination in which the state is actively involved in clean up activities or is actively pursuing potentially responsible parties for clean up. Sometimes referred to as a State "CERCLIS" List.
SWF	Solid Waste Facility List. A Vista Information Solutions, Inc. database of solid waste facilities listed by state.
ТРН	Total Petroleum Hydrocarbons
TRI	Toxic Release Inventory. Routine EPA report on releases of toxic chemicals to the environment based upon information submitted by entities subject to reporting under the Emergency Planning and Community Right to Know Act.
TSCA	Toxic Substances Control Act. A federal law regulating manufacture, import, processing and distribution of chemical substances not specifically regulated by other federal laws (such as asbestos, PCBs, lead-based paint and radon). 15 U.S.C 2601 et seq.
USACE	United States Army Corps of Engineers
USC	United States Code
USGS	United States Geological Survey
USNRCS	United States Department of Agriculture-Natural Resource Conservation Service
UST	Underground Storage Tank. Most federal and state regulations, as well as ASTM E1527, define this as any tank, including, underground piping connected to the tank, that is or has been used to contain hazardous substances or petroleum products and the volume of which is 10% or more beneath the surface of the ground (i.e., buried).
VCP	Voluntary Cleanup Program
VOC	Volatile Organic Compound
Wetlands	Areas that are typically saturated with surface or groundwater that create an environment supportive of wetland vegetation (i.e., swamps, marshes, bogs). The <u>Corps of Engineers Wetlands Delineation Manual</u> (Technical Report Y-87-1) defines wetlands as areas inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. For an area to be considered a jurisdictional wetland, it must meet the following criteria: more than 50 percent of the dominant plant species must be categorized as Obligate, Facultative Wetland, or Facultative on lists of plant species that occur in wetlands; the soil must be hydric; and, wetland hydrology must be present. The federal Clean Water Act which regulates "waters of the US," also regulates wetlands, a program jointly administered by the USACE and the EPA. Waters of the US. are defined as: (1) waters used in interstate or foreign commerce, including all waters subject to the ebb and flow of tides; (2) all interstate waters including interstate wetlands; (3) all other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, etc., which the use, degradation, or destruction could affect interstate/ foreign commerce; (4) all impoundments of waters otherwise defined as waters of the U. S., (5) tributaries of waters identified in 1 through 4 above; (6) the territorial seas; and (7) wetlands adjacent to waters identified in 1 through 6 above. Only the USACE has the authority to make a final wetlands jurisdictional determination.

# Appendix G: State Of New Mexico Terms and Acronyms

TERM/ACRONYM	DESCRIPTION	
NMED	New Mexico Environment Department.	
AQB	NMED Air Quality Control.	
LUST	NMED database of the Leaking Underground Storage Tanks.	
PSTB	NMED Petroleum Storage Tank Bureau	
SCS	NMED database of groundwater contamination sites (referred to as state equivalent CERCLIS (SCS) facilities in the EDR report).	
SWB	NMED Solid Wastes Bureau	
SWLF	SWLF         NMED database of Solid Waste Landfill Facilities.	