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DEPARTMENT OF THE AIR FORCE
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HOLLOMAN AIR FORCE BASE NEW MEXICO

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New Mexico Environment Department
Attn: Mr. John Kieling, Chief
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Dear Mr. Kieling,

Holloman AFB is pleased to submit the Final Corrective Action Complete Petition, Group 2 – Four Underground Storage Tank Sites, Holloman Air Force Base, New Mexico for your review. This submittal includes the following sites:

- AOC-UST-684
- AOC-UST-882
- AOC-UST-1272
- AOC-UST-2395

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions, please contact me at (575) 572-3931 or by email at deanna.rothhaupt@holloman.af.mil.

Sincerely

DEANNA ROTHHAUPT, GS-12, DAFC

Attachment:
Final Corrective Action Complete Petition, Group 2 – Four Underground Storage Tank Sites, Holloman Air Force Base, New Mexico

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Final

Corrective Action Complete Petition

Group 2 – Four Underground Storage Tank Sites
Holloman Air Force Base, New Mexico

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CB&I Federal Services LLC

WERC-09-13-021

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FINAL CORRECTIVE ACTION COMPLETE PETITION

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FINAL CORRECTIVE ACTION COMPLETE PETITION

Acronyms and Abbreviations

AFB	Air Force Base
AOC	Area of Concern
bgs	below ground surface
CAC	Corrective Action Complete
CFR	Code of Federal Regulations
COPC	constituents of potential concern
DPT	direct push technology
DRO	diesel range organics
EPA	U.S. Environmental Protection Agency
ft	feet
GRO	gasoline range organics
HI	hazard index
MCL	maximum contaminant level
µg/L	micrograms per liter
mg/kg	milligrams per kilogram
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NMWQCC	New Mexico Water Quality Control Commission
ORO	oil range organics
PID	photoionization detector
ppm	parts per million
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RSL	Regional Screening Level
Shaw	Shaw Environmental & Infrastructure, Inc. (a CB&I company)
SSL	soil screening level
SVOC	semivolatile organic compound
SWMU	Solid Waste Management Unit
TAL	target analyte list
TDS	total dissolved solids
TPH	total petroleum hydrocarbons
UST	underground storage tank
VOC	volatile organic compound
WQS	water quality standards

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1.0 INTRODUCTION

Holloman Air Force Base (AFB) (the Permittee) is requesting a change in status from Corrective Action Required to Corrective Action Complete (CAC) without Controls from the New Mexico Environment Department (NMED) for four former petroleum underground storage tank (UST) sites in accordance with New Mexico Hazardous Waste Act (Section 74-4-1 et seq., New Mexico Statutes Annotated 1978, as amended, 1992) and the New Mexico Hazardous Waste Regulations 20.4.1 New Mexico Administrative Code (NMAC). These four UST sites are listed as Areas of Concern (AOC) in the Permittee's Resource Conservation and Recovery Act (RCRA) Part B Permit (NMED, 2004), pursuant to Title 40 Code of Federal Regulations (CFR) 270.42(c) of the Hazardous and Solid Waste Amendments of 1984.

Upon approval of the change in status, the Permittee requests that the NMED initiate a Class 3 Permit Modification to the Holloman AFB Hazardous Waste Facility RCRA (Permit Number NM6572124422) (NMED, 2004). The modification would adjust the content of Table A and Table B in Appendix 4-A of the Holloman AFB RCRA Permit (NMED, 2004). Table A lists the Solid Waste Management Units (SWMU) and AOCs Requiring Corrective Action; sites for which corrective action may be necessary to characterize and/or remediate past releases of hazardous wastes or hazardous constituents. Table B lists SWMUs and AOCs Not Requiring Corrective Action. The most current available versions of Table A and Table B dated June 2012 are provided in Attachment 1. However, Table A was later modified per an NMED letter dated October 29, 2012 (NMED, 2012c) adding the AOCs listed below. The letter is included in Attachment 1.

The proposed Class 3 Permit Modification would grant CAC without Controls for the four former UST sites (i.e., AOCs) in the Holloman RCRA Permit. Therefore, the following AOCs would move from Table A to Table B:

- AOC-UST-684 – Building 684 (UST No. TU/US-C516)
- AOC-UST-882 – Building 882 (UST No. TU/US-C514)
- AOC-UST-1272 – Building 1272 (UST No. TU/US-C507)
- AOC-UST-2395 – Building 2395 (UST No. TU/US-C502).

The locations of these four former UST sites at Holloman AFB are shown on Figure 1 of Attachment 2.

This CAC Petition has been prepared by CB&I Federal Services LLC, for the U.S. Air Force Civil Engineer Center under the Midwestern Region Performance-Based Remediation

Contract (Contract No. FA8903-09-D-8580, Task Order No. 0013, Modification 01). This CAC Petition follows the RCRA Facility Investigation (RFI) performed under this contract at the four UST sites implemented to determine the nature and extent of contamination at the sites, to propose recommendations for additional corrective actions, or to expedite corrective measures concurrent with RFI activities. The RFI was conducted in accordance with the *Final RCRA Facility Investigation Work Plan, Group 2, Five Former UST Sites, Holloman Air Force Base, New Mexico, February 2012* (Shaw, 2012a) and the *Voluntary Corrective Measure Request Group 2, Five Former UST Sites, Holloman Air Force Base, New Mexico, February 2012* (Shaw, 2012b). The NMED approved the Voluntary Corrective Measure Request, Group 2, Five Former UST Sites in a letter dated January 21, 2014.

In evaluating the RFI data, the action/cleanup levels stipulated in the Permit to be protective of human health and the environment were applied. For soil, the Permit specifies the use of the NMED residential soil screening levels (SSL), as presented in the *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012a), and the U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSL) (EPA, 2012a), when a NMED SSL has not been established for a particular chemical. Holloman AFB also has NMED-approved background concentrations for metals in soil (NMED, 2012b). For groundwater, the Permit specifies that the more stringent value of either the New Mexico Water Quality Control Commission (NMWQCC) water quality standards (WQS) (20.6.2 New Mexico Administrative Code), or the EPA drinking water maximum contaminant levels (MCL), be used for comparison with measured sample concentrations (EPA, 2012b).

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The remainder of this document provides an informational summary of Holloman AFB and the AOCs under petition, including site descriptions and site investigation summaries, along with the basis of determination for the recommendation of CAC without Controls for each of the four AOCs.

1.1 Physical Setting

Holloman AFB is situated in south-central New Mexico, in the northwest central part of Otero County, approximately 75 miles north-northeast of El Paso, Texas. Holloman AFB has a population of 6,000 and occupies 59,639 acres. The White Sands Missile Range occupies land extending northward from the base and private- and public-owned lands border the remainder of Holloman AFB. The desert terrain immediately surrounding the base has limited development, and there are no agricultural operations, residential communities, or large industrial operations located adjacent to the base. Holloman AFB is an active military installation and is expected to remain active for the foreseeable future.

No transfer of military property to the public is anticipated, and public access to the base is restricted. Future land use is not expected to differ significantly from current land use practices (Foster Wheeler Environmental Corporation, 2002).

Holloman AFB is located within the Sacramento Mountains physiographic province on the western edge of the Sacramento Mountains at an average elevation of 4,093 feet (ft) above mean sea level. The region is characterized by high tablelands with rolling summit plains. New Mexico has a mild, arid to semi-arid continental climate characterized by light precipitation totals, abundant sunshine, relatively low humidity, and relatively large annual and diurnal temperature ranges (Western Regional Climate Center, 2013). Daytime temperatures often exceed 100 degrees Fahrenheit in the summer months and are in the middle 50s (Fahrenheit) in the winter. Evapotranspiration, at 67 inches per year, significantly exceeds annual precipitation which is usually less than 15 inches. The annual rainfall for nearby Alamogordo, New Mexico is 12 inches per year. Groundwater in the area occurs as an unconfined aquifer in the unconsolidated deposits of the central basin, with the primary source of recharge as rainfall percolation and minor amounts of stream runoff along the western edge of the Sacramento Mountains.

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At present, the primary fresh water resource for the city of Alamogordo, New Mexico and Holloman AFB is Bonito Lake, located 60 miles northeast of the Tularosa Basin. Holloman AFB obtains its water supply from the city of Alamogordo, New Mexico, the Holloman AFB wells in the Boles, San Andres, and Douglas well fields at the base of the Sacramento Mountains. The Boles Well Field, a freshwater source for Holloman AFB, is located approximately 6 miles to the southeast of the base. No water supply wells are located on, or near, the base because of poor groundwater quality. Water use is expected to continue in this manner at Holloman AFB.

1.2 Scope of Document

This CAC Petition is submitted to provide the framework to perform Class III modifications to remove the following former UST sites from the Holloman RCRA Permit: AOC-UST-684 AOC-UST-882, AOC-UST-1272, and AOC-UST-2395.

This document complies with the 40 CFR 270.42 regulations, which stipulates that a specific Class III permit modification request be made by Holloman AFB, and that supporting documentation be provided with the request. This document is submitted in partial fulfillment of requirements for permit modification promulgated in 40 CFR 270.42 and 20.4.1 NMAC. In addition to submitting this CAC Petition in compliance with 40 CFR 270.42 (c), Holloman AFB will:

- Provide public notice within seven days of submitting the petition, and provide evidence of publication.
- Conduct a public meeting inviting stakeholder involvement in the CAC decisions no earlier than 15 days after the public notice is published, and not later than 15 days before the close of the 60-day comment period.
- Place a copy of the permit modification request and supporting documents in a publically accessible location in the vicinity of Holloman AFB.
- Provide the public at least 60 days to comment on the permit modification request, which will begin the day the public notice is published.

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2.0 AOC DESCRIPTIONS AND BASIS OF DETERMINATION

This section provides a summary of information including site descriptions, history, previous investigations, and the basis of determination for the recommendation of CAC without Controls for each of the four AOCs under this CAC Petition.

2.1 AOC-UST-684

2.1.1 Site Description

The UST associated with AOC-UST-684, designated as UST No. TU/US-C516, was formerly positioned at Building 684, which is located in the central portion of the base near the active runway, as shown on Figure 2 of Attachment 2. The structure was functional as the support building for the Instrument Landing System Glide Slope Station.

Records indicate that a 150-gallon UST was removed from Building 684 in March 1991. The bare steel tank was used for diesel fuel storage. There was no specific indication that soil was removed after the UST closure; however, four soil samples labeled “soil from USTs” were collected at Building 684 in December 1991, and analyzed for total petroleum hydrocarbons (TPH). TPH was not detected at a detection limit of 2 milligrams per kilogram (mg/kg) in any of these samples.

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2.1.2 Previous Investigation – 2012 RFI Summary

An RFI was conducted at AOC-UST-684 to identify the former location of the UST, determine the nature and extent of potential constituents of concern in the soil and groundwater (as necessary), evaluate potential risks to human health and the environment, and recommend additional remedial measures (if needed). A summary of RFI information is presented in this CAC Petition. The complete RFI for the Building 684 UST site is provided in the document entitled *Final RCRA Facility Investigation Report, Group 2 – Building 684 (TU/US-C516), Holloman Air Force Base, New Mexico, September 2013* (Shaw, 2013a), and is available in the project record.

Conducted in summer and fall 2012, the RFI included geophysical, soil, and groundwater investigations of the former UST location at Building 684. The scope of the RFI included the following items:

- Gather and review available site historical information
- Identify the location of the former UST using subsurface geophysical methods
- Collect subsurface soil samples using direct push technology (DPT)
- Conduct land surveying of soil borings and UST excavation area

- Validate the analytical data, and evaluate the nature and extent of constituents of potential concern (COPC) in the soil
- Perform human health and ecological risk assessment on impacted media
- Evaluate information, and formulate basis of determination for corrective action complete or for further corrective action, as warranted.

2.1.2.1 Geophysical Investigation Summary

A geophysical investigation was conducted at Building 684 on June 21, 2012 to determine the former location of UST No. TU/US-C516, associated features, and nearby underground utilities. The identified features are shown on Figure 2 of Attachment 2.

2.1.2.2 Soil Investigation Summary

The soil investigation at AOC-UST-684 was initiated on September 14, 2012. Soil samples were collected from four soil borings placed within, and around, the former UST excavation area down to a depth at, or just below, the bottom level of the UST using the direct push technology method. No soil sample was collected from the middle of the former UST pit because refusal occurred at a depth of 6 ft below ground surface (bgs) on four attempts. Additional soil samples were collected at depths of up to 12 ft bgs from three soil borings advanced for the purpose of installing monitoring wells. Groundwater was not encountered in the borings; therefore, no monitoring wells were installed at the Building 684 former UST location. The locations of the soil borings and monitoring wells are shown on Figure 2 of Attachment 2.

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Soil observed in samples from the soil borings displayed no sensory evidence (i.e., petroleum hydrocarbon odors, soil staining) of petroleum-hydrocarbon contamination. Soil samples were screened upon collection using a photoionization detector (PID), and were sent to the contracted laboratory for analysis. PID readings of soil samples from each of the soil borings were all equivalent to 0.0 parts per million (ppm). Laboratory analysis of the soil samples confirmed these observations. Soil samples were analyzed for volatile organic compounds (VOC); semivolatile organic compounds (SVOC); TPH including TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO); and target analyte list (TAL) metals.

2.1.2.3 Groundwater Investigation Summary

A groundwater investigation was attempted concurrent with the soil investigation at the former UST location at Building 684 in a streamlined schedule. However, groundwater was not encountered beneath the site, as observed at the borings placed directly below the former UST, at the borings placed at distances of up to 50 ft away from the former UST location,

and from depths of up to 25 ft bgs. As such, monitoring wells were not installed, and consequently, groundwater sampling was not performed. As described in the following section, no chemical constituents were detected at concentrations that exceeded NMED or EPA criteria in the site soil samples. Therefore, based on the absence of COPCs in the soil horizons beneath the former UST location, groundwater investigation was not necessarily a required element of the RFI.

2.1.2.4 RFI Results

Soil Results. A summary of the analytical results for AOC-UST-684 with regulatory levels for soil samples is presented in Table 1 of Attachment 3. This table shows that the validated soil analytical results were compared with the NMED SSLs (NMED, 2012a), or the EPA RSLs (EPA, 2012a), if NMED residential SSLs had not been established for a given analyte. In addition, a TPH screening level of 1,000 mg/kg was used to evaluate the laboratory analytical data. The 1,000 mg/kg action level for petroleum-contaminated soil is the Residential Direct Exposure Limit for unknown oil, as provided in the TPH Screening Guidelines for Potable Groundwater of the document entitled *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012a).

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TPH results for soil did not exceed the NMED action level for TPH in the soil samples collected during the RFI. Furthermore, no chemicals had detections above NMED residential SSLs in any of the soil samples collected at Building 684.

However, two inorganic constituents, magnesium (in four samples) and manganese (in one sample), were detected at concentrations exceeding Holloman AFB background values. Magnesium has no established NMED or EPA screening levels, is considered an essential nutrient, and is not generally toxic; hence, there are no established SSLs. Manganese exceeded the background value in one sample at a depth of 10 to 12 ft bgs; however, this is below the normal depth of exposure to human or ecological receptors, is within the range of background results for Holloman AFB, and is below its NMED residential SSL. No other target analytes exceeded Holloman AFB background values.

The human health risk evaluation determined, based on the soil sampling results, that: 1) there are no COPCs in soil, 2) there are no health risks based on future residential exposure, current and future commercial/industrial worker exposure, and current and future construction worker exposure, and 3) the hazard index (HI) for all detected chemicals in soil is less than 1.

The ecological risk evaluation determined that no viable ecological habitat exists at the site, and with the site's close proximity to the active flight line, no ecological receptors are expected to be present. As such, ecological risks were not applicable to this site because no

sensitive areas exist at, or adjacent to, the site, the site does not contain other land areas which could be considered viable ecological habitat, and the site does not contain any perennial or ephemeral aquatic features.

2.1.3 Basis of Determination for AOC-UST-684

The UST, formerly located at Building 684, AOC-UST-684 (UST No. TU/US-C516), is proposed for CAC without Controls. This CAC Petition request is based on information gathered during the RFI, including information provided in the closure report for this UST. The small diesel UST (150-gallon capacity) formerly located at Building 684 was removed in March 1991. The analytical results for four soil samples collected and analyzed following the UST removal showed no detections of TPH. Likewise, the analytical results for soil samples collected during the RFI in September 2012 showed no detections of TPH. Furthermore, the RFI results showed no detections of any organic compounds, and detections of inorganic constituents (metals) were all below NMED residential SSLs.

Two metals (magnesium and manganese) were detected in a few of the soil samples at concentrations above the background levels established for Holloman AFB. However, the concentrations of these metals were within the range of background values determined during the soil background study (NationView-Bhate, 2009) conducted at Holloman AFB, and were considered to be naturally occurring in soil.

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During the human health risk evaluation, no COPCs were identified in soil. The risk evaluation concluded that there was no risk expected to be posed from future residential exposure, current and future commercial/industrial worker exposure, and/or current and future construction worker exposure. The HI for total detected constituents in soil was less than 1. In addition, the ecological risk evaluation determined that no viable ecological habitat exists at the site.

Groundwater was not encountered beneath the former location of the UST, or at depths of up to 25 ft bgs as much as 50 ft away from the former UST location. Even if present at the time of investigation, groundwater was not expected to show any impact based on the lack of chemical detections in the soil samples collected from the location of the former UST at Building 684.

The results of the previous investigations at AOC-UST-684 indicate that no release of petroleum hydrocarbon or other contamination from the site to human health or the environment is evident, and there is no posed threat to human health or the environment. In addition, there are no concentrations of any constituents exceeding applicable soil screening levels. Therefore, the basis of determination for CAC without Controls for both soil and

groundwater demonstrates that this request is reasonable for the former UST, AOC-UST-684 (UST No. TU/US-C516), at Holloman AFB Building 684.

In a letter dated August 6, 2014, the NMED approved the recommendation of no additional corrective action as presented in the RFI. On this basis, application is hereby made to NMED to perform a Class III Permit Modification to transfer AOC-UST-684 from Table A (SWMUs and AOCs Requiring Corrective Action) to Table B (SWMUs and AOCs Not Requiring Corrective Action) within Appendix 4-A of the Holloman AFB RCRA Permit (NMED, 2004) in accordance with the Permit Part 4, Appendix 4-B, Section III, NFA Criterion 5.

2.2 AOC-UST-882

2.2.1 Site Description

The UST associated with AOC-UST-882, designated as UST No. TU/US-C514, was formerly located at Building 882. Building 882 was operated by Sandia National Laboratory as a test support building until 1991, and it currently serves as the Barrier Maintenance Shop. The building is located in the central portion of the base, south of the runway, and just north of an aircraft taxiway (Figure 1 of Attachment 2).

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The location of the former UST is bordered on two sides by Building 882, and on a third side by the concrete driveway access to the building's garage door (Figure 3 of Attachment 2). The ground surface around the building is a relatively flat, gravel-covered soil pad serving as access to the main building and support structures. The entire area is isolated from the surrounding environs by a chain link fence.

Records indicate that the building's 110-gallon capacity UST was removed on October 30, 1990. The tank (and associated piping) had no external protection, and had been used to store gasoline. The UST was reported as empty at the time of removal. There was no visible soil contamination following tank removal, although there was a gasoline odor. The analytical results for soil samples (collected from a depth of 6.75 ft bgs) indicated the presence of total xylenes at a concentration of 2.9 mg/kg, but showed non-detections of benzene, toluene, and ethylbenzene. Upon removal, the UST was reported to have had "severe corrosion" and "multiple penetrations." Groundwater was not encountered during the excavation for removal of the UST.

2.2.2 Previous Investigation – 2012 RFI Summary

An RFI was conducted at AOC-UST-882 to identify the former location of the UST, determine the nature and extent of potential constituents of concern in the soil and groundwater, evaluate potential risks to human health and the environment, and recommend

additional remedial measures (if needed). A summary of RFI information is presented in this CAC Petition. The complete RFI for the Building 882 UST site is provided in the document entitled *Final RCRA Facility Investigation Report, Group 2 – Building 882 (TU/US-C514), Holloman Air Force Base, New Mexico, September 2013* (Shaw, 2013b), and is available in the project record.

Conducted in summer and fall 2012, the RFI included geophysical, soil, and groundwater investigations of the UST. The scope of the RFI included the following items:

- Gather and review available site historical information
- Identify the location of the former UST using subsurface geophysical methods
- Collect subsurface soil samples using DPT
- Install monitoring wells and collect groundwater samples
- Conduct land surveying of soil borings, monitoring wells, and UST excavation area
- Validate the analytical data, and evaluate the nature and extent of COPCs in the soil and groundwater media
- Perform human health and ecological risk assessment on impacted media
- Evaluate information, and formulate basis of determination for corrective action complete or for further corrective action, as warranted.

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2.2.2.1 Geophysical Investigation Summary

A geophysical investigation was conducted at Building 882 on June 21, 2012 to determine the former location of UST No. TU/US-C514, associated features, and nearby underground utilities, as shown on Figure 3 of Attachment 2. The location of the former UST was identified, approximately 10 ft due north of Building 882 with overall dimensions of approximately 7 ft by 18 ft of the excavation area required to remove the UST and associated piping).

2.2.2.2 Soil Investigation Summary

The soil investigation at Building 882 was conducted on September 13, 2012. Soil samples were collected from five soil borings advanced within, and around, the former UST excavation area to a depth at, or just below, the expected bottom level of the former UST (i.e., 6 to 8 ft bgs). Soil samples were also collected from three soil borings advanced for the purpose of installing monitoring wells. The locations of soil borings and monitoring wells are shown on Figure 3 of Attachment 2.

The soil observed in all of the borings displayed no evidence of petroleum-hydrocarbon contamination (i.e., no soil staining or petroleum hydrocarbon-type odors). The sandy material used as excavation backfill was clean in appearance with no soil staining, as was the underlying, in-place soil. Soil samples were screened in the field using a PID, then were packaged and shipped to the contracted laboratory for chemical analysis. PID readings of soil samples for all eight soil borings were 0.0 ppm. Soil samples were analyzed for VOCs, SVOCs, TPH, and TAL metals.

2.2.2.3 Groundwater Investigation Summary

Three monitoring wells were installed in the vicinity of the former location of the UST at Building 882. Well USTC514-MW03 was installed approximately 50 ft northwest of the former UST location, while wells USTC514-MW01 and USTC514-MW02 were installed approximately 60 ft southeast and south-southeast (respectively) of the former UST location. While drilling, groundwater was encountered at a depth range of 8.0 to 12.0 ft bgs.

Following well development, groundwater was sampled from two of the three monitoring wells (USTC504-MW01 and USTC504-MW03) on October 4, 2012. Monitoring well USTC514-MW02 did not produce groundwater at the time of sampling. Groundwater elevations measured prior to sample collection indicated agreement with the general direction of groundwater flow, which is from the northeast to southwest. Localized groundwater flow direction was not determined, since monitoring well USTC514-MW02 was dry at the time of measurement. Groundwater samples were analyzed for the following analytes: TPH-GRO, TPH-DRO, TPH-ORO, TAL metals, SVOCs, VOCs, and total dissolved solids (TDS).

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2.2.2.4 RFI Results

Soil Results. A summary of the analytical results for AOC-UST-882 with regulatory levels for soil samples is presented in Table 2 of Attachment 3. A total of 11 soil samples (plus one field duplicate soil sample) were collected from eight boring locations drilled at Building 882.

The analytical results showed no detections of TPH or other organic constituents above the TPH screening level or the NMED SSLs. None of the inorganic constituents were detected at a level exceeding respective limits (i.e., NMED SSLs and background values). Based on these results, no COPCs were selected for soil at Building 882, and no risk to human health is expected via soil.

Groundwater Results. A summary of the analytical results for AOC-UST-882 with regulatory levels for groundwater samples is presented in Table 3 of Attachment 3.

All analytical results met the NMWQCC WQS and the EPA drinking water MCLs for both wells sampled. One VOC (chloroform) was detected in groundwater at concentrations well below the EPA MCL for drinking water in the two monitoring wells sampled. Chloroform was not detected in the soil samples. No other organic compounds were detected in groundwater. The iron concentration (562 micrograms per liter [µg/L]) at one monitoring well (USTC514-MW03) exceeded the Holloman AFB unfiltered groundwater background value (300 µg/L). This result for iron falls within the range of the 30 background samples for Holloman AFB (NationView-Bhate, 2009), and there is no primary drinking water standard for iron.

Therefore, as no chemicals in groundwater were selected as COPCs, future residential exposure, current and future commercial/industrial worker exposure, and current and future construction worker exposure scenarios are not health risks.

2.2.3 Basis of Determination

The UST, formerly located at Building 882, AOC-UST-882 (UST No. TU/US-C514), is proposed for CAC without Controls. This CAC Petition request is based on information gathered during the RFI, including information provided in the closure report for this UST. The building's 110-gallon capacity gasoline UST was removed in October 1990. The analytical results showed no detections of TPH or other organic constituents above the TPH screening level or the NMED SSLs. All soil observed during the RFI lacked sensory evidence (i.e., no soil staining or petroleum hydrocarbon-type odors) of petroleum hydrocarbon contamination. None of the inorganic constituents were detected at a level exceeding respective limits (i.e., NMED residential SSLs and Holloman AFB background values). As such, no COPCs were selected for soil at Building 882, and no risk to human health was expected from potential contact with soil. In addition, the ecological risk evaluation determined that no viable ecological habitat exists at the site.

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No impacts to groundwater from the UST were evident, as no results were detected above the NMWQCC WQS or the EPA drinking water MCLs. Consequently, no COPCs were selected for groundwater, and no risk to human health was expected at this site.

The results of the previous investigations at AOC-UST-882 indicate that no release of petroleum hydrocarbon or other contamination from the site to human health or the environment is apparent, and there is no posed threat to human health or the environment. In addition, there are no concentrations of any constituents exceeding applicable soil and groundwater screening levels. Therefore, the basis of determination for CAC without Controls for both soil and groundwater demonstrates that this request is reasonable for the former UST, AOC-UST-882 (UST No. TU/US-C514), at Holloman AFB Building 882.

FINAL CORRECTIVE ACTION COMPLETE PETITION

In a letter dated August 14, 2014, the NMED approved the recommendation of no additional corrective action as presented in the RFI. On this basis, application is hereby made to NMED to perform a Class III Permit Modification to transfer AOC-UST-882 from Table A (SWMUs and AOCs Requiring Corrective Action) to Table B (SWMUs and AOCs Not Requiring Corrective Action) within Appendix 4-A of the Holloman AFB RCRA Permit (NMED, 2004) in accordance with the Permit Part 4, Appendix 4-B, Section III, NFA Criterion 5.

2.3 AOC-UST-1272

2.3.1 Site Description

The UST associated with AOC-UST-1272, designated as UST No. TU/US-C507, was formerly located at Building 1272. Building 1272 is a weapons guidance facility located in the northeast portion of the base (Figure 1 of Attachment 2). The location of the former UST at Building 1272 is within a flat, graveled area.

The closure record indicates that a 600-gallon UST was removed from Building 1272 in March 1991. The tank was reportedly in use for approximately 10 years (circa 1960 to 1970). The bare steel tank was in good condition with no apparent leaks, and with no evidence of soil contamination. Records also indicate that the tank was used for diesel fuel storage and was connected to the backup generator. A soil sample collected directly below the tank was analyzed for TPH, and had a concentration of 288 mg/kg (i.e., below the NMED TPH action level). Subsequent soil sample results shown in the closure report indicate levels of TPH ranging from non-detected (at a detection level of 2 mg/kg) to 8 mg/kg; however, there are no specific details concerning the removal and/or disposal of soil from the site during the UST removal.

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2.3.2 Previous Investigation – 2012 RFI Summary

An RFI was conducted at AOC-UST-1272 to identify the former location of the UST, determine the nature and extent of potential constituents of concern in the soil and groundwater, evaluate potential risks to human health and the environment, and recommend additional remedial measures (if needed). A summary of RFI information is presented in this CAC Petition. The complete RFI for the Building 1272 UST is provided in the document entitled *Final RCRA Facility Investigation Report, Group 2 – Building 1272 (TU/US-C507), Holloman Air Force Base, New Mexico, September 2013* (Shaw, 2013c), and is available in the project record.

Conducted in summer and fall 2012, the RFI included geophysical, soil, and groundwater investigations of the UST. The scope of the RFI consisted of the following items:

- Gather and review available site historical information
- Identify the location of the former UST using subsurface geophysical methods
- Collect subsurface soil samples using DPT
- Conduct land surveying of soil borings and the UST excavation area
- Validate the analytical data, and evaluate the nature and extent of COPCs in the soil
- Conduct a geochemical evaluation of arsenic in soil
- Perform human health and ecological risk assessment on impacted media
- Evaluate information, and formulate basis of determination for corrective action complete or for further corrective action, as warranted.

2.3.2.1 Geophysical Investigation Summary

A geophysical investigation was conducted at Building 1272 on June 11, 2012 to determine the former location of UST No. TU/US-C513, associated features, and nearby underground utilities, as shown on Figure 4 of Attachment 2. The location of the former UST was identified, approximately 10 ft due west of Building 1272 with rough dimensions of approximately 15 ft by 15 ft. Underground utilities (including water and gas lines, as well as existing manholes) were also delineated to guide the soil boring placement.

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2.3.2.2 Soil Investigation Summary

The soil investigation at Building 1272 was conducted on July 24, 2012 and July 25, 2012. Soil samples were collected from five soil borings advanced within, and around, the UST excavation area down to depths at, or just below, the bottom level of the former UST (i.e., maximum sample depth of 15 ft bgs). Groundwater was not encountered in any of the five borings which reached depths of up to 20 ft bgs. The locations of the soil borings are shown on Figure 4 of Attachment 2.

Soil observed in samples from the five soil borings displayed no evidence (i.e., soil staining, petroleum hydrocarbon-type odors) of petroleum-hydrocarbon contamination. Soil samples were screened in the field using a PID, with no PID readings above background. Below the fill was a layer of silt and sand to approximately 15 ft bgs, which showed no soil staining or other visible contamination, had no PID readings, and emitted no petroleum-hydrocarbon odors. A clay layer was present below the silt and sand. Soil samples were collected just above, or slightly into, the clay layer, the depth at which contaminants could accumulate (if present) upon reaching this zone of lower permeability.

2.3.2.3 Groundwater Investigation Summary

A groundwater investigation was attempted concurrent with the soil investigation at the former UST location at Building 1272 in a streamlined schedule. However, groundwater was not encountered beneath the site, as observed at the borings placed directly below the former UST location at depths of up to 20 ft bgs. As such, monitoring wells were not installed, and consequently, groundwater sampling was not performed.

The soil investigation demonstrated that there is no apparent pathway of contaminants emanating from the location of the former UST, and therefore, to the groundwater. The evaluation of soil results identified one inorganic constituent (arsenic) above a regulatory level. However, based on its presence at a very low concentration, the fact that its concentration is essentially equivalent to the background concentration established for Holloman AFB, and that it is more likely to be naturally occurring in the soil, it is unlikely that arsenic originated from the UST and migrated toward groundwater. Therefore, based on the soil sampling results, the absence of contamination in the soil beneath the former UST location, a groundwater investigation was not necessarily a required element of the RFI.

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2.3.2.4 RFI Results

Soil Results. A summary of the analytical results for AOC-UST-1272 with regulatory levels for soil samples is presented in Table 4 of Attachment 3. A total of six soil samples were collected from the borings completed at Building 1272. The soil analytical results for VOCs and SVOCs showed no detections above the NMED SSLs. TPH results, including TPH-DRO, TPH-GRO, and TPH-ORO results, were all below the action level for TPH.

The only constituent that exceeded a NMED residential SSL was arsenic at a depth of 14 to 15 ft bgs, a depth at which human health exposure and/or ecological risks are not expected. The concentration of arsenic was just slightly above both the NMED residential SSL and the background value established for Holloman AFB. The result was within the range of background values, and a geochemical evaluation of the arsenic results indicated that the arsenic levels present on this site are most likely naturally occurring.

Based on this information, no COPCs were identified for the soil, and the risk-based evaluation concluded that the future residential exposure, current and future commercial/industrial worker exposure, and current and future construction worker exposure do not pose health risks. In addition, the ecological evaluation determined that no sensitive areas exist at, or adjacent to, the site, the site does not contain other land areas which could be considered viable ecological habitat, and the site does not contain any perennial or ephemeral aquatic features.

2.3.3 Basis of Determination

AOC-UST-1272 is proposed for CAC without Controls. The 600-gallon UST was removed in March 1991. The diesel-fuel UST was reported to be in good condition with no apparent leaks, and with no visual evidence of soil contamination at the time of removal. The analytical results for soil samples collected at the time of UST removal were all well below the regulatory action level of 1,000 mg/kg. The RFI results corroborated these findings, as TPH was found at very low levels (or not detected) in the soil beneath the former location of the UST. In addition, no other organic compounds were detected in the soil beneath the UST.

One inorganic constituent (arsenic) was detected at a level exceeding the NMED residential SSL. However, at the concentration identified, this metal was considered to be naturally occurring in the soil. The arsenic concentration of 4.1 mg/kg in the soil sample is essentially equivalent to the Holloman AFB background value. As such, no COPCs were selected for soil at Building 1272, and no risk to human health was expected from potential contact with soil. In addition, the ecological risk evaluation determined that no viable ecological habitat exists at the site.

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Groundwater was not encountered beneath the former location of the UST, at depths of up to 20 ft bgs. Even if present at the time of investigation, groundwater was not expected to show any impact based on the lack of chemical detections in the soil samples collected from the location of the former UST at Building 1272.

The results of the investigations at AOC-UST-1272 indicate that no release of petroleum hydrocarbon or other contamination from the site to human health or the environment is evident, and there is no posed threat to human health or the environment. Therefore, the basis of determination for CAC without Controls for both soil and groundwater demonstrates that this request is reasonable for the former UST, AOC-UST-1272 (UST No. TU/US-C507), at Holloman AFB Building 1272.

In a letter dated August 6, 2014, the NMED approved the recommendation of no additional corrective action as presented in the RFI. On this basis, application is hereby made to NMED to perform a Class III Permit Modification to transfer AOC-UST-1272 from Table A (SWMUs and AOCs Requiring Corrective Action) to Table B (SWMUs and AOCs Not Requiring Corrective Action) within Appendix 4-A of the Holloman AFB RCRA Permit (NMED, 2004) in accordance with the Permit Part 4, Appendix 4-B, Section III, NFA Criterion 5.

FINAL CORRECTIVE ACTION COMPLETE PETITION

2.4 AOC-UST-2395

2.4.1 Site Description

The UST, formerly located at Building 2395, AOC-UST-2395 (UST No. TU/US-C502), is proposed for CAC without Controls. Building 2395, formerly a self-help store, has also been completely removed, and is now a residential area. The residential area is located in the southeastern portion of the base (Figure 1 of Attachment 2).

The closure records indicate that a 1,000-gallon UST was removed from Building 2395 on February 21, 1991. The bare steel tank was reported to be in poor condition at the time of removal, with several corrosion holes, and visual soil contamination noted. Records also indicate that the tank was used for both gasoline and diesel storage during its estimated nine years of use. There was no reporting of a specific quantity of soil removed during the tank closure effort, but three soil samples collected following tank removal were analyzed for TPH, with a maximum concentration of 95 mg/kg (i.e., well below the action level of 1,000 mg/kg), and a note stating that no more cleanup was needed.

2.4.2 Previous Investigation – 2012 RFI Summary

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An RFI was conducted at AOC-UST-2395 to identify the former location of the UST, determine the nature and extent of potential constituents of concern in the soil and groundwater, evaluate potential risks to human health and the environment, and recommend additional remedial measures (if needed). A summary of RFI information is presented in this CAC Petition. The complete RFI for Building 2395 UST is provided in the document entitled *Final RCRA Facility Investigation Report, Group 2 – Building 2395 (TU/US-C502), Holloman Air Force Base, New Mexico, September 2013* (Shaw, 2013d), and is available in the project record.

Conducted in summer and fall 2012, the RFI included geophysical, soil, and groundwater investigations of the UST. The scope of the RFI consisted of the following items:

- Gather and review available site historical information
- Identify the location of the former UST using subsurface geophysical methods
- Collect subsurface soil samples using DPT
- Conduct land surveying of soil borings and the UST excavation area
- Validate the analytical data, and evaluate the nature and extent of COPCs in soil
- Perform human health and ecological risk evaluation on impacted media

- Evaluate information, and formulate basis of determination for corrective action complete or for further corrective action, as warranted.

2.4.2.1 Geophysical Investigation Summary

A geophysical investigation was not conducted at the former Building 2395 area for logistical reasons. However, using historical aerial photographs, and coordinating with base personnel who were responsible for the 1991 UST removal, the location of the former UST pit was identified in the field.

2.4.2.2 Soil Investigation Summary

The soil investigation of the former Building 2395 UST was conducted on September 26, 2012. The program consisted of sampling four soil borings advanced at the former UST pit location, as shown on Figure 5 of Attachment 2. The borings were advanced using the DPT method, with soil samples collected at depths of 8 to 10 ft bgs in each boring.

Soil samples were screened in the field using a PID, and one PID reading above 0.0 ppm was recorded at the Station 1 boring at 6.7 ppm from a depth of 10 ft bgs. Based on field observations (i.e., no sensory evidence of petroleum hydrocarbons), and the general lack of PID readings, it was determined that no soil excavation was required at Building 2395.

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The water table was not encountered in any of the four soil borings. However, water was encountered in the 5 to 7 ft depth during advancement of each of the soil borings, above the bottom of the former UST pit. No water was encountered below 7 ft bgs. According to the personnel who performed the underground utility survey, several leaking water and irrigation lines present in the area are the likely source of the water at the 5 to 7 ft bgs zone.

2.4.2.3 Groundwater Investigation Summary

A groundwater investigation was attempted concurrent with the soil investigation at the former UST location at Building 2395 in a streamlined schedule. However, groundwater was not encountered beneath the site, as observed at the borings placed directly below the former UST location at depths of up to 20 ft bgs. As such, monitoring wells were not installed, and consequently, groundwater sampling was not performed.

The soil investigation demonstrated that there is no apparent pathway of contaminants emanating from the location of the former UST, and therefore, to the groundwater. The evaluation of soil results identified one inorganic constituent (thallium) above a regulatory level. However, based on its presence at a very low concentration, the fact that its concentrations (estimated) are essentially equivalent to the background concentration established for Holloman AFB, it is unlikely that thallium originated from the UST and migrated toward groundwater. Therefore, based on the soil sampling results, and the absence

of contamination in the soil beneath the former UST location, a groundwater investigation was not necessarily a required element of the RFI.

2.4.2.4 RFI Results

Soil Results. A summary of the analytical results for AOC-UST-2395 with regulatory levels for soil samples is presented in Table 5 of Attachment 3. A total of four soil samples were collected from the depth interval of 8 to 10 ft bgs from four borings drilled at Building 2395.

There were no VOC, SVOC, or TPH results exceeding respective NMED residential SSLs or EPA RSLs in the soil samples collected during this investigation. Detections of constituents in soil included metals in all samples, with one metal above the NMED residential SSL in two samples. Thallium was detected at concentrations of 1.4 J mg/kg and 2 J mg/kg at the Station 1 and Station 2 soil boring locations, respectively.

The human health risk assessment determined that for the one COPC selected for soil (thallium), future residential exposure is a potential health risk, but not for current and/or future commercial/industrial worker, and current and/or future construction worker. In addition, total cancer risks and non-cancer hazards in soil were acceptable except when thallium was included. However, the important uncertainties associated with the thallium toxicity values, as discussed in detail in the Building 2395 RFI (Shaw, 2013d), should be taken into account.

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Note that both thallium detections (1.4 J mg/kg and 2.0 J mg/kg) were reported as estimated values since the concentrations were above the method detection limit (0.96 mg/kg and 1.2 mg/kg, respectively), but below the reporting limit (5.3 mg/kg and 6.4 mg/kg respectively). Estimated results that fall between the method detection limit and the reporting limit are less accurate and less precise than those results reported above the method detection limit, and in this case, they are analytically equivalent to the Holloman AFB-established background value of 1.3 mg/kg. It is also believed that the high level of calcium in the soil at Holloman AFB contributes to spectral interferences during inductively-coupled plasma metals analysis leading to less accurate results for other metals in the analytical run. Therefore, the estimated thallium results in these two soil samples are unlikely to be the result of anthropogenic activities.

The ecological risk evaluation determined no sensitive areas exist at, or adjacent to, the site, the site does not contain other land areas which could be considered viable ecological habitat, and the site does not contain any perennial or ephemeral aquatic features.

2.4.3 Basis of Determination

AOC-UST-2395 is proposed for CAC without Controls. The UST was removed in February 1991. Three soil samples collected following tank removal were analyzed for TPH, with a maximum concentration of 95 mg/kg, and below action level for TPH of 1,000 mg/kg. The RFI results indicated that TPH, VOC, and SVOC results did not exceed any regulatory standards. One metal, thallium, was detected at levels above the NMED residential SSL, but was dismissed, as there are significant uncertainties associated with the thallium toxicity values, and because of the uncertainty of the thallium results due to interferences due to high levels of calcium in the soil. As such, the estimated thallium results in the two soil samples are unlikely to be the result of anthropogenic activities, and thallium is not an element that is anticipated to be present at Building 2395 as a result of normal UST operation and maintenance.

Lack of a water bearing zone beneath the former tank excavation area precluded analysis of groundwater; however, the soil intervals, observed and sampled in the subsurface, indicated no evidence of migration of petroleum hydrocarbons to lower soil horizons and to the level of the groundwater.

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The results of the previous investigations at AOC-UST-2395 indicate that no release of petroleum hydrocarbon or other contamination from the site to human health or the environment is apparent, and there is no posed threat to human health or the environment. In addition, there are no concentrations of any constituents exceeding applicable soil and groundwater screening levels (with the exception of thallium which were dismissed as questionable results). Therefore, the basis of determination for CAC without Controls for both soil and groundwater demonstrates that this request is reasonable for the former UST, AOC-UST-2395 (UST No. TU/US-C502), at Holloman AFB Building 2395. Given the fact that the site is essentially free of petroleum-hydrocarbon and other contaminants, and given the tenuous nature of the thallium results, Corrective Action Complete without Controls is recommended for soil at Building 2395.

In a letter dated August 6, 2014, the NMED approved the recommendation of no additional corrective action as presented in the RFI. On this basis, application is hereby made to NMED to perform a Class III Permit Modification to transfer AOC-UST-2395 from Table A (SWMUs and AOCs Requiring Corrective Action) to Table B (SWMUs and AOCs Not Requiring Corrective Action) within Appendix 4-A of the Holloman AFB RCRA Permit (NMED, 2004) in accordance with the Permit Part 4, Appendix 4-B, Section III, NFA Criterion 5.

3.0 SUMMARY OF PETITION

This Petition is a request for performing a Class 3 Permit Modification by granting CAC without Controls, based on the information provided herein, and moving the following four former UST sites (i.e., AOCs) at Holloman AFB from Table A to Table B in the Holloman AFB RCRA Permit:

- AOC-UST-684 – Building 684 (UST No. TU/US-C516)
- AOC-UST-882 – Building 882 (UST No. TU/US-C514)
- AOC-UST-1272 – Building 1272 (UST No. TU/US-C507)
- AOC-UST-2395 – Building 2395 (UST No. TU/US-C502).

Upon approval of the change in status, the Permittee requests that the NMED initiate a Class 3 Permit Modification to the Holloman AFB Hazardous Waste Facility RCRA (Permit Number NM6572124422) (NMED, 2004). The modification would adjust the content of Tables A and B in Appendix 4-A of the Holloman AFB RCRA Permit (NMED, 2004). Table A lists the SWMUs and AOCs Requiring Corrective Action; sites for which corrective action may be necessary to characterize and/or remediate past releases of hazardous wastes or hazardous constituents. Table B lists SWMUs and AOCs Not Requiring Corrective Action.

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Attachment 1
Holloman AFB RCRA Permit Appendix 4-A
Table A and Table B

APPENDIX 4-A
SUMMARY OF SOILID WASTE MANAGEMENT UNITS
TABLE A

The following is the Prioritized list of Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) Requiring Corrective Action

SERIAL NO.	SWMU	ERP SITE ID	UNIT NAME
1	4	N/A	Building 131 Oil/Water Separator
2	8	N/A	Building 231 Oil/Water Separator
3	19	SS-59	Building 638 Oil/Water Separator
4	20	SS-59	Building 639 Oil/Water Separator
~~5~~	~~39~~	~~N/A FT-31~~	~~Building 1092 Oil/Water Separator~~
5	82	SD-08	Building 131 Washrack
6	101	LF-10	Building 121 Landfill
7	104	LF-29	Former Army Landfill
~~9~~	~~105~~	~~LF-19~~	~~Golf Course Landfill~~
~~11~~	~~108~~	~~LF-23~~	~~MOBSS Landfill Disposal Trench~~
8	109	LF-10	Old Main Base Landfill
9	111	RW-42	Radioactive Waste Disposal Area
10	113A	OT-20	Sludge Disposal Trench near Lagoons
11	113B	DP-30/SD-33	Sludge Disposal Trenches Fire Training Area
12	114	OT-03	TEL Disposal Site
~~17~~	~~115~~	~~LF-22~~	~~West Area Landfill #1 PCB Disposal Area~~
~~18~~	~~116~~	~~LF-21~~	~~West Area Landfill #2~~
13	118	OT-16	Building 21 Pesticides Holding Tank
14	122	N/A	Building 702 Waste Oil Tank
15	123	N/A	Building 704 Waste Oil Tank
~~22~~	~~127~~	~~FT-31~~	~~Building 1092 Waste Oil Tank~~
~~23~~	~~130~~	~~SS-46~~	~~Taxiway 4 Tank 28 JP-4 Underground Waste Tank~~
16	132	OT-16	Building 21 Entomology Leach Field
~~25~~	~~135~~	~~FT-31~~	~~Building 1092 Oil/Water Separator Drainage Pit~~
17	137	OT-38	Building 1166 Test Track Drain Field
18	141	SD-27	Pad 9 Drainage Pit
19	165	SS-39	Building 1176 Pond
~~33~~	~~170~~	~~FT-31~~	~~Fire Department Training Area 1~~
20	177	SS-39	Building 1176 Sumps
21	179	SS-39	Discharge Box
22	181	SS-39	Building 1176 Drainage Trough
23	183	N/A	Air Base Sewer System
24	197	OT-14	Former Entomology Shop
25	229	SS-59	Test Cell Fuel Spill Site
26	AOC-1	DP-64	Chemical Agent Site
~~41~~	~~AOC-2~~	~~AOC-2~~	~~Sewage Drainage Pit NE of Building 864~~

SERIAL NO.	SWMU/AOC	ERP SITE ID	UNIT NAME
27	AOC-3	DP-63	Ammunition Yard Disposal Pit
28	AOC-4	N/A	West POL Fuel Spill Site
29	AOC-1001	SS-61	Building 1001 Fuel Spill Site
30	AOC-A	OT-16	Building 21 Pesticide Rinse-water Spill Area
31	AOC-B	SS-65	Building 807 Test Cell Surface Spill Area
32	AOC-C	SS-66	Building 835 Spills
33	AOC-E	SS-67	Buildings 903-909 Sand Blast Residues
~~50~~	~~AOC-F~~	~~SS-68~~	~~Asphalt Tank Spill Area~~
34	AOC-H	SS-18	Chromic Acid Spill Area
35	AOC-I	SS-69	Fighter Wing Flight Line Spill
36	AOC-J	SS-13	Herbicide Sodium Arsenite Spill Area
37	AOC-K	SS-12	Northeast Fuel Line Spill #1
38	AOC-L	OT-37	Early Missile Test Site
39	AOC-M	RW-70	Building 18 Product Storage Tank
~~57~~	~~AOC-N~~	~~SS-48~~	~~Building 137 Military Gas Tank Leak~~
40	AOC-O	OT-45	Building 296 Old AGE Refueling Station
~~59~~	~~AOC-P~~	~~OT-44~~	~~Building 301 Fuel Tank Leak~~
41	AOC-Q	SS-17	BX Gas Station Fuel Line Leaks
~~61~~	~~AOC-R~~	~~SS-06~~	~~JP-4 Fuel Line Spill Site~~
~~63~~	~~AOC-S~~	~~BHUST~~	~~Leaking Underground Storage Tank~~
42	AOC-T	SS-05	POL Storage Tank Spill Sites 1 & 2
43	AOC-U	N/A	Lost River Basin
~~66~~	~~AOC-V~~	~~SS-57~~	~~Officer's Club~~
~~67~~	~~PRI-2~~	~~OT-35~~	~~PRI Bldg 1264 Solvent Burn Area~~
~~68~~	~~PRI-5~~	~~OT-35~~	~~PRI Bldg 1264 Solvent Burn Area~~
44	AOC-UST-221	TU/US-C503	Building 221 UST
45	AOC-UST-298	TU/US-C508	Building 298 UST
46	AOC-UST-300	TU/US-C500	Building 300 UST
47	AOC-UST-301	TU/US-C504	Building 301 UST
48	AOC-UST-684	TU/US-C516	Building 684 UST
49	AOC-UST-882	TU/US-C514	Building 882 UST
50	AOC-UST-889	TU/US-C515	Building 889 UST
51	AOC-UST-898	TU/US-C513	Building 898 UST
52	AOC-UST-901	TU/US-C506	Building 901 UST
53	AOC-UST-1097	TU/US-C505	Building 1097 UST
54	AOC-UST-1113	TU/US-C501	Building 1113 UST
55	AOC-UST-1272	TU/US-C507	Building 1272 UST
56	AOC-UST-2395	TU/US-C502	Building 2395 UST
57	AOC-UST-7003	TU/US-C518	National Radar Test Facility UST
58	AOC-838	SS-72	TCE Groundwater Contamination Upgradient of LF-21
59	AOC-1088	SS-73	TCE in Groundwater Upgradient of SS-61

TOTAL OF CORRECTIVE ACTION SITES = ~~62~~59 [i.e., ~~34~~25 SWMUs + ~~28~~34 AOCs].

APPENDIX IV-A
SUMMARY OF SOILID WASTE MANAGEMENT UNITS
TABLE B

The Following is a list of Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) Not Currently Requiring Corrective Action.

SWMU/AOC	DESCRIPTION	COMMENT
1	Building 55 Oil/Water Separator	Site NFAd in February 2001
2	Building 121 Oil/Water Separator	Site NFAd in February 2001
3	Building 130 Oil/Water Separator	Site NFAd in February 2001
5	Building 137 Oil/Water Separator	Site NFAd in February 2001
6	Building 193Oil/Water Separator	Site NFAd in February 2001
7	Building 198 Oil/Water Separator	Site NFAd in February 2001
9	Building 282 Oil/Water Separator	Site NFAd in February 2001
10	Building 283 Oil/Water Separator	Site NFAd in February 2001
11	Building 300 Oil/Water Separator	Site NFAd in February 2001
12	Building 304 Oil/Water Separator	Site NFAd in February 2001
13	Building 304A Oil/Water Separator	Site NFAd in February 2001
14	Building 306 Oil/Water Separator	Site NFAd in February 2001
15	Building 309 Oil/Water Separator	Site NFAd in February 2001
16	Building 315 Oil/Water Separator	Site NFAd in February 2001
17	Building 316 Oil/Water Separator	Site NFAd in February 2001
18	Building 500 Oil/Water Separator	Site NFAd in February 2001
21	Building 702 Oil/Water Separator	Site NFAd in February 2001
22	Building 704 Oil/Water Separator	Site NFAd in February 2001
23	Building 800 Oil/Water Separator	Site NFAd in February 2001
24	Building 801 Oil/Water Separator	Site NFAd in February 2001
25	Building 805 Oil/Water Separator	Site NFAd in February 2001
26	Building 809 Oil/Water Separator	Site NFAd in February 2001
27	Building810 Oil/Water Separator	Site NFAd in February 2001
28	Building 822 Oil/Water Separator	Site NFAd in February 2001
29	Building 827 Oil/Water Separator	Site NFAd in February 2001
30	Building 830 Oil/Water Separator	Site NFAd in February 2001
31	Building 855 Oil/Water Separator	Site NFAd in February 2001
32	Building 868 Oil/Water Separator	Site NFAd in February 2001
33	Building869 Oil/Water Separator	Site NFAd in February 2001
34	Building 902 Oil/Water Separator	Site NFAd in February 2001
35	Building 903 Oil/Water Separator	Site NFAd in February 2001
36	Building 1000 Oil/Water Separator	Site NFAd in February 2001
37	Building 1080 Oil/Water Separator	Site NFAd in February 2001
38	Building 1080A Oil/Water Separator	Site NFAd in February 2001
39	Building 1092 Oil/Water Separator (FT31)	Pending
40	Building 1166 Oil/Water Separator	Site NFAd in February 2001
41	Building 1266 Oil/Water Separator	Site NFAd in February 2001
42	Building 1 Waste Accumulation Area	Site NFAd in February 2001

43	Building 55 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
44	Building 121 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
45	Building 195 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
46	Building 198 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
47	Building 280 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
48	Building 282 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
49	Building 300 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
50	Building 301 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
51	Building 308 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
52	Building 500 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
53	Building 638 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
54	Building 702 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
55	Building 702A Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
56	Building 807 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
57	Building 809 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
58	Building 822 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
59	Building 837 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
60	Building 844 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
61	Building 851 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
62	Building 855 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
63	Building 867 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
64	Building 869 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
65	Building 901 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
66	Building 901Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
67	Building 909 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
68	Building 910 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.

69	Building 807 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
70	Building 1119 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
71	Building 1778A Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
72	Building 11778A Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
73	Building 1266 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
74	Building 7005 Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
76	DRMO Non-Hazardous Waste Drain	EPA listed the site in 1988 as a SWMU with no further action required.
77	RATSCAT Waste Accumulation Area	EPA listed the site in 1988 as a SWMU with no further action required.
78	Trim pad 3 WAA	EPA listed the site in 1988 as a SWMU with no further action required.
79	Building 21 Wash Rack	EPA listed the site in 1988 as a SWMU with no further action required.
80	Building 55 Wash Rack	EPA listed the site in 1988 as a SWMU with no further action required.
81	Building 121 Wash Rack	EPA listed the site in 1988 as a SWMU with no further action required.
83	Building 134 Wash Rack	EPA listed the site in 1988 as a SWMU with no further action required.
84	Building 137 Wash Rack	EPA listed the site in 1988 as a SWMU with no further action required.
85	Building 283 Wash Rack	EPA listed the site in 1988 as a SWMU with no further action required.
86	Building 304A Wash Rack	EPA listed the site in 1988 as a SWMU with no further action required.
87	Building 306 Wash Rack	EPA listed the site in 1988 as a SWMU with no further action required.
88	Building 309 Wash Rack	EPA listed the site in 1988 as a SWMU with no further action required.
89	Building 703 Wash Rack	EPA listed the site in 1988 as a SWMU with no further action required.
90	Building 801 Wash Rack	EPA listed the site in 1988 as a SWMU with no further action required.
91	Building 816 Wash Rack	EPA listed the site in 1988 as a SWMU with no further action required.
92	Building 822 Wash Rack	EPA listed the site in 1988 as a SWMU with no further action required.
93	Building 827 Wash Rack	EPA listed the site in 1988 as a SWMU with no further action required.
94	Building 830 Wash Rack	EPA listed the site in 1988 as a SWMU with no further action required.
95	Building 902 Wash Rack	EPA listed the site in 1988 as a SWMU with no further action required.
96	Building 1080 Wash Rack	EPA listed the site in 1988 as a SWMU with no further action required.

97	Building 1119 Wash Rack	EPA listed the site in 1988 as a SWMU with no further action required.
98	Building 1116 Wash Rack	EPA listed the site in 1988 as a SWMU with no further action required.
99	Building 1266 Wash Rack	EPA listed the site in 1988 as a SWMU with no further action required.
100	Pad 9 Wash Rack	EPA listed the site in 1988 as a SWMU with no further action required.
102	Acid Trailer Burial Site	EPA listed the site in 1988 as a SWMU with no further action required.
103	Causeway Rubble Disposal Area	EPA listed the site in 1988 as a SWMU with no further action required.
105	LF-19 Golf Course Landfill	Pending
106	Main Base Landfill	Site NFAd in November 2005
107	Main Base Substation PCB Disposal Area	EPA listed the site in 1988 as a SWMU with no further action required.
108	LF-23 MOBSS Landfill Disposal Trench	Pending
110	POL Rubble Disposal Area	EPA listed the site in 1988 as a SWMU with no further action required.
112	RATSCAT Disposal Area	EPA listed the site in 1988 as a SWMU with no further action required.
115	LF-22 West Area Landfill #1 PCB Disposal Area	Pending
116	LF-21 West Area Landfill #2	Pending
117	Wire Spool Disposal Area	EPA listed the site in 1988 as a SWMU with no further action required.
119	Building 121 Waste Oil Tank	Site NFAd in February 2001
120	Building 309 Waste Oil Tank	Site NFAd in February 2001
121	Building 316 Waste Oil Tank	Site NFAd in February 2001
124	Building 752 Waste Oil Tank	Site NFAd in February 2001
125	Building 868 Waste Oil Tank	Site NFAd in February 2001
126	Building 1000 Waste Oil Tank	Site NFAd in February 2001
127	Building 1092 Waste Oil Tank (FT-31)	Pending
128	Building 1166 Waste Oil Tank	Site NFAd in February 2001
129	Building 1191 and 1192 Spill Tanks	Site NFAd in February 2001
130	SS-46 Taxiway 4 Tank 28 JP-4 Underground Waste Tank	Pending
131	Waste Oil Bowsers	Site NFAd in February 2001
133	Building 703 Wash Rack Discharge Pit	Site NFAd in February 2001
134	Buildings 902-925 Drainage Ditch	Site NFAd in February 2001
135	Building 1092 Oil/Water Separator Drainage Pit (FT-31)	Pending
136	Building 1119 Washrack Drainage Area	Site NFAd in November 2005
138	Building 1166 Oil/Water Sep Drainage Pit	Site NFAd in February 2001
139	SWMU 139 Lake Holloman	Site NFAd in November 2005
140	SWMU 140 Lake Stinky	Site NFAd in November 2005
142	Wastewater Influent Chamber	Site NFAd in February 2001
143	Bar Screen	Site NFAd in February 2001

144	Comminutor	Site NFAd in February 2001
145	Grit Chamber	Site NFAd in February 2001
146	Parshall Flume Wet Well	Site NFAd in February 2001
147	Splitter Box	Site NFAd in February 2001
148	Sewage Lagoon A	Closed June 30, 2000
149	Sewage Lagoon B	Closed June 30, 2000
150	Sewage Lagoon C	Closed June 30, 2000
151	Sewage Lagoon D	Closed June 30, 2000
152	Sewage Lagoon E	Closed June 30, 2000
153	Sewage Lagoon F	Closed June 30, 2000
154	Sewage Lagoon G	Closed June 30, 2000
155	Sludge Drying Beds	Site NFAd in February 2001
156	Imhoff Tanks (5)	Site NFAd in February 2001
157	ABLE 51 PCB Storage Area	Site NFAd in February 2001
158	PCB Storage Bunker	Site NFAd in February 2001
159	Building 500 Pb Storage Shelves	Site NFAd in February 2001
160	Building 500 NiCd Battery Storage Area	Site NFAd in February 2001
161	Building 844 Battery Storage Area	Site NFAd in February 2001
162	DRMO Scrap Metal Storage Area	EPA called this site a SWMU in 1988 but did not require corrective action [1].
163	DRMO Wood Pile	EPA called this site a SWMU in 1988 but did not require corrective action [1].
164	Building 1080 Pond	Site NFAd in February 2001
165	Building 1176 Pond	Site NFAd in February 2001
166	SD-25 MOBSS Drainage Lagoon	Site NFAd in November 2005
167	Test Shed Launch Area Collection Basin	EPA identified it in 1988 as a SWMU without requiring further corrective action
169	Burn Kettle	EPA identified it in 1988 as a SWMU without requiring further corrective action
170	Fire Department Training Area 1 (FT-31)	Pending
171	Fire Department Training Area 2 (FT-31)	Site NFAd in February 2001
173	Building 198 Sand Trap	EPA listed this as a SWMU in the 1988 RFA Report
174	Building 231 Hobby Shop Silver Recovery Unit	EPA listed this as a SWMU in the 1988 RFA Report
176	Building 844 Sand Trap	EPA listed this as a SWMU in the 1988 RFA Report
178	Building 1191 Fuel Runoff Pits	Site NFAd in February 2001
180	Building 301 Outdoor Drainage Flume	Site NFAd in February 2001
182	Building Floor Drains	Site NFAd in February 2001
184	Wastewater Re-circulation Line	Site NFAd in February 2001
185	Building 332 Silver Recovery Unit	EPA identified this site as a SWMU in 1988
186	Hospital Silver Recovery Unit	EPA identified this site as a SWMU in 1988
187	West Area Silver Recovery Unit	EPA identified this site as a SWMU in 1988
188	Building 161 Acid Neutralization Unit	EPA identified this site as a SWMU in 1988

189	Building 232 Recycling Area	EPA identified this site as a SWMU in 1988
190	Building 500 Battery Neutralization Unit	EPA identified this site as a SWMU in 1988
191	Building 855 Concrete Pad	EPA identified this site as a SWMU in 1988
192	Coco Block House Disposal Well	EPA identified this site as a SWMU in 1988
193	Trash Dumpster	EPA identified this site as a SWMU in 1988
194-228	SWMUs which no Longer exist or Could not be Located	EPA identified this site as a SWMU in 1988
212	Former north Area Wash Rack	Site NFAd in February 2001
230	Building 828 Fuel Spill Site	Site NFAd in February 2001
231	Incinerator/Landfill	Site NFAd in February 2001
194-228	SWMUs which no Longer exist or Could not be Located	EPA called the site in the 1988 RFA but did not require corrective action [1].
AOC-2	Sewage Drainage Pit NE of Building 864	Pending
AOC-BBMS	Bare Base Mobility Squadron Spill Area	EPA called the site in the 1988 RFA but did not require corrective action [1].
AOC-D	SD-26 Building 882 Spills	EPA called the site in the 1988 RFA but did not require corrective action [1].
AOC-F	Asphalt Tank Spill Area (SS-68)	Pending
AOC-FST837	Building 837 Fuel Spill Site	Site NFA November 2005
AOC-G	Atlas Substation PCB Spill	EPA called the site in the 1988 RFA but did not require corrective action [1].
AOC-N	SS-48 Building 137 Military Gas Tank Leak	Pending
AOC-P	OT-44 Building 301 Fuel Tank Leak	Pending
AOC-R	JP-4 Fuel Line Spill Site (SS-06)	Pending
AOC-RD	DP-62 Rita's Draw Disposal Pit	Site NFAd November 2005
AOC-RR	Buried RR Cars.	EPA called the site in the 1988 RFA but did not require corrective action [1].
AOC-S	Leaking Underground Storage Tank (BHUST)	Pending
AOC-V	SS-57 Officer's Club	Pending
AOC-PRI-A	OT-35 Primate Research Lab Sewer Line	EPA listed the site in 1988 as a SWMU with no further action required.
AOC-PRI-S	Primate Research Lab Borehole Disposal Site	EPA called the site in the 1988 RFA but did not require corrective action [1].
AOC-PRI-1	Primate Research Institute (PRI) Building 1264: Waste Accumulation Area	EPA called the site in the 1988 RFA but did not require corrective action [1].
AOC-PRI-2	PRI Bldg 1264 Solvent Burn Area (OT-35)	Pending
AOC-PRI-3	PRI Building 1264: Biological Incinerator	EPA called the site in the 1988 RFA but did not require corrective action [1].
AOC-PRI-4	PRI Building 1264: Quarantine Area	EPA called the site in the 1988 RFA but did not require corrective action [1].
AOC-PRI-5	PRI Bldg 1264 Solvent Burn Area (OT-35)	Pending

HOLLOMAN AIR FORCE BASE OPERATING AND CLOSED UNITS

OPERATING/CLOSED UNIT	DESCRIPTION	COMMENT
20,000-Pound Open Detonation (OD) Treatment Unit/SWMU #168	The OD Unit was permitted in 1997	Permitted in 1997 and is operating.
Container Storage Unit/SWMU # 75	Permit Expired July 4, 2001	Undergoing Renewal[2]
300-Pound Open Burn (OB) Unit. This site was listed in the 1988 RFA Report as SWMU 72	The OB Unit was under Interim from 1965 to 1979 status HAFB conducted risk-based closure as per approved Work Plan of 1997	NMED approved Closure of this site on February 3, 1997.

1. Unit underwent Corrective Action, was approved for NFA, and is limited by Institutional Controls

2. Unit is a Hazardous Waste Management Unit.

APPENDIX IV-A
SUMMARY OF SOLID WASTE MANAGEMENT UNITS
TABLE C

The following is a list of Solid Waste Management Units (SWMUs and Areas of Concern (AOCs) with Corrective Action Complete with Controls

SWMU/AOC	Control(s) Needed

NEW MEXICO
ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303
Phone (505) 476-6000 Fax (505) 476-6030
www.nmenv.state.nm.us

SUSANA MARTINEZ
Governor

JOHN A. SANCHEZ
Lieutenant Governor

DAVE MARTIN
Secretary

BUTCH TONGATE
Deputy Secretary

JAMES H. DAVIS, Ph.D.
Director
Resources Protection Division

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

October 29, 2012

A. David Budak
Deputy Base Civil Engineer
550 Tabosa Avenue
Holloman AFB, NM 88330-5840

RE: INTENT TO APPROVE: PETITION FOR CORRECTIVE ACTION COMPLETE WITHOUT CONTROLS FOR EIGHTEEN (18) SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN, HOLLOMAN AIR FORCE BASE
EPA ID# NM6572124422
HWB-HAFB-07-006 and 08-005

Dear Mr. Budak:

The New Mexico Environment Department (NMED) is issuing a Public Notice with intent to approve the Class 3 permit modification requested by the United States Air Force/Holloman Air Force Base (the Permittee) on June 20, 2008 and July 7, 2008. This modification consists of a request to approve Corrective Action Complete Without Controls (CAC) status for 18 solid waste management units /areas of concern (SWMUs/AOCs) and the transfer of these SWMUs/AOCs from Table A to Table B of Appendix 4-A of the Resource Conservation and Recovery Act (RCRA) permit issued in 1991 and re-issued on February 24, 2004. The 18 sites proposed for CAC approval are identified in the enclosed Attachment. Additionally, at the Permittee's request, sixteen (16) previously unidentified potential sites will be added as AOCs to Table A.

NMED will begin a 60-day public comment period on **October 29, 2012.** The Public Notice for this comment period will indicate that a draft Permit consisting of Tables A and B, and the Fact Sheet/Statement of Basis have been prepared for review and comment, including the procedures to request a Public Hearing. The Permittees will be notified by certified mail if a Public Hearing

is scheduled. The Permittees may submit comments on the draft Permit to NMED no later than **5:00 p.m. MST, December 28, 2012**, the close of the comment period.

NMED will give due consideration and the weight it deems appropriate to all comments received during the public comment period. When ruling on permit issuance, NMED may make reasonable modifications to the permit to meet the requirements of the Hazardous Waste Management Regulations (20.4.1 NMAC) and the RCRA Permit. At the time that a final permit decision is made, NMED will issue a response to all comments submitted during the public comment period.

The final permit decision shall become effective thirty (30) days after notice of the decision has been served on the Permittees. The approved permit modification, consisting of revised Tables A and B (the draft Permit), will be transmitted to the Permittees by certified mail.

Enclosed for your review are copies of the draft Permit that consist of the proposed Tables A and B in underline/strikeout. Also enclosed are copies of the Public Notice and the Fact Sheet/Statement of Basis. These documents will be available for public review at the NMED Hazardous Waste Bureau office in Santa Fe, the Environment Department District 1 Office in Albuquerque, and the Alamogordo Public Library, as well as on the NMED website. Procedures for submitting official comments are contained in the Public Notice and Fact Sheet/Statement of Basis.

Please contact David Strasser of my staff at (505) 222-9526 should you have any questions.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

Attachment
cc: W. Moats, NMED HWB
C. Amindyas, NMED HWB
B. Holton, NMED HWB
C. Hendrickson, EPA, 6PD-N
D. Scruggs, HAFB
File: KAFB 2012 and Reading
HWB-HAFB-07-006 and 08-005

ATTACHMENT
Table of SWMUs/AOCs Proposed for CAC

	SWMU/AOC ID Number	ERP Site ID	SWMU/AOC Name
1	39	FT-31	Building 1092 Oil/Water Separator
2	105	LF-19	Golf Course Landfill
3	108	LF-23	MOBSS Landfill Disposal Trench
4	115	LF-22	West Area Landfill #1, PCB Disposal Area
5	116	LF-21	West Area Landfill #2
6	127	FT-31	Building 1092 Waste Oil Tank
7	130	SS-46	Taxiway 4 Tank 28, JP-4 Underground Waste Tank
8	135	FT-31	Building 1092 Oil/Water Separator Drainage Tank
9	170	FT-31	Fire Department Training Area #1
10	AOC-2	AOC-2	Sewage Drainage Pit NE of Building 864
11	AOC-F	SS-68	Asphalt Tank Spill Area
12	AOC-N	SS-48	Building 137 Military Gas Tank Leak
13	AOC-P	OT-44	Building 301 Fuel Tank Leak
14	AOC-R	SS-06	JP-4 Fuel Line Spill Site
15	AOC-S	BHUST	Leaking Underground Storage Tank
16	AOC-V	SS-57	Officer's Club
17	AOC-PRI-2	OT-35	PRI Building 1264 Solvent Burn Area
18	AOC-PRI-5	OT-35	PRI Building 1264 Solvent Burn Area

Table of AOCs to be added to Permit Table A

	AOC ID Number	ERP Site ID	AOC Name
1	AOC-UST-221	TU/US-C503	Building 221 UST
2	AOC-UST-298	TU/US-C508	Building 298 UST
3	AOC-UST-300	TU/US-C500	Building 300 UST
4	AOC-UST-301	TU/US-C504	Building 301 UST
5	AOC-UST-684	TU/US-C516	Building 684 UST
6	AOC-UST-882	TU/US-C514	Building 882 UST
7	AOC-UST-889	TU/US-C515	Building 889 UST
8	AOC-UST-898	TU/US-C513	Building 898 UST
9	AOC-UST-901	TU/US-C506	Building 901 UST
10	AOC-UST-1097	TU/US-C505	Building 1097 UST
11	AOC-UST-1113	TU/US-C501	Building 1113 UST
12	AOC-UST-1272	TU/US-C507	Building 1272 UST
13	AOC-UST-2395	TU/US-C502	Building 2395 UST
14	AOC-UST-7003	TU/US-C518	National Radar Test Facility UST
15	AOC-838	SS-72	TCE Groundwater Contamination Upgradient of LF-20
16	AOC-1088	SS-73	TCE in Groundwater Upgradient of SS-61

Attachment 2
Figures

Office	Drawn By	Checked By	Approved By	Date	File Path
Hou	BGrod	CLong	BFoss	11/13/2013	G:\Midwest_PBC\Holloman_AFB\GIS_Documents\Project_Maps\Cac\Group2\HafbGroup2UstLocs.mxd

LEGEND

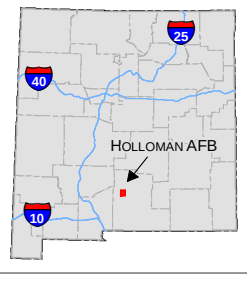
- Holloman AFB
- Group 2 UST Sites

N

WGS 84 UTM Zone 13N
Meters

1 inch = 2,750 feet

0 700 1,400 2,800
Feet

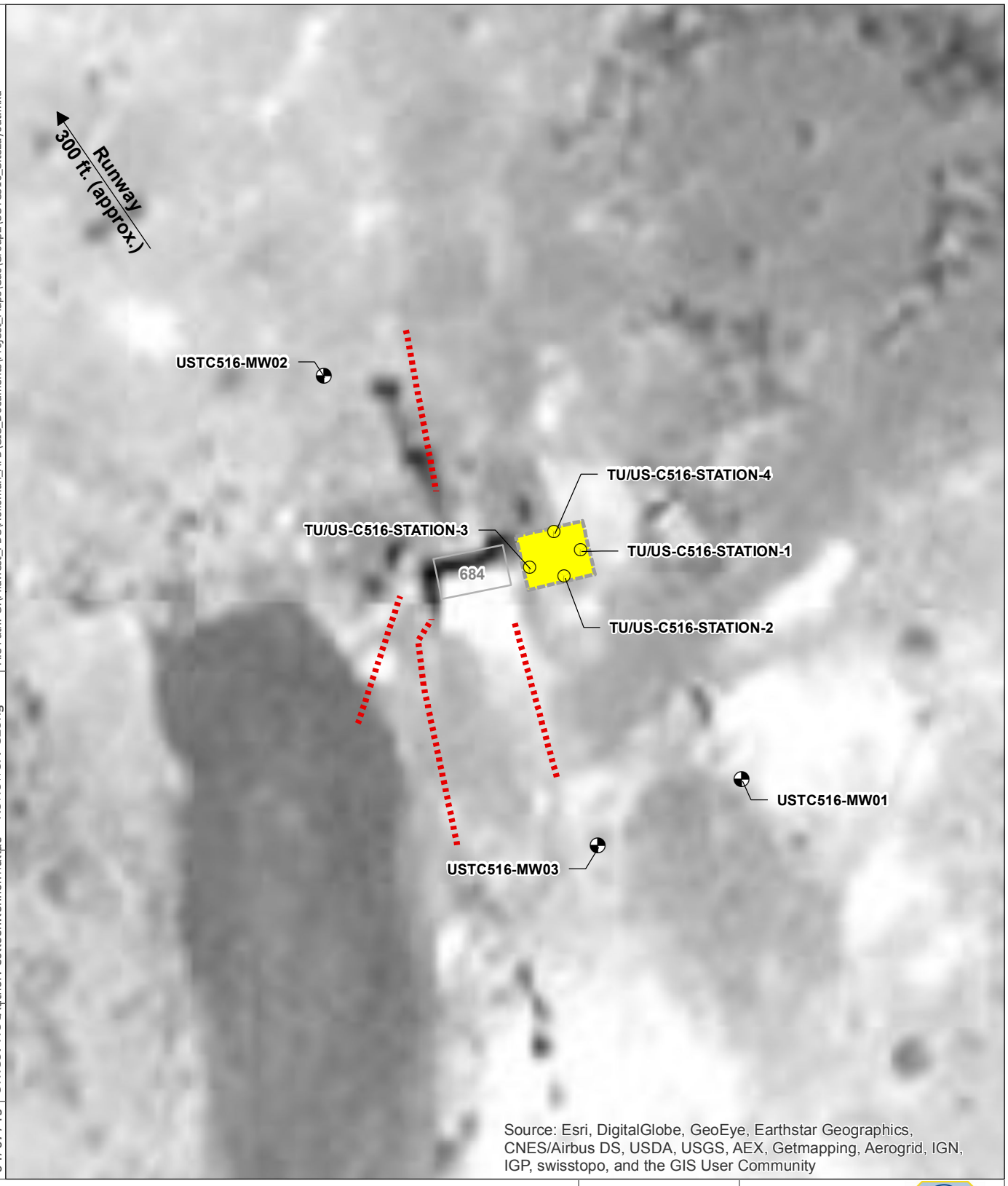


CBI

Figure 1

Group 2 UST Locations

Holloman AFB, NM



File Path: G:\Midwest_PBC\Holloman_AFB\GIS_Documents\Project_Maps\Cac\Group2\USTC516_SiteLayout.mxd

Reviewer: CLong

Author: colleen.lennonwallac

Office: HOL

04/07/15

Legend

- Monitoring Well
- Soil Boring Station
- Electrical Utility
- UST Excavation
- Building

Note:
Permanent monitoring wells not installed because groundwater was not encountered.

N

NAD 83 SPCS
New Mexico Central
Feet

0 25
Feet

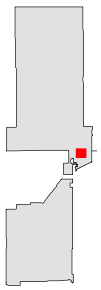
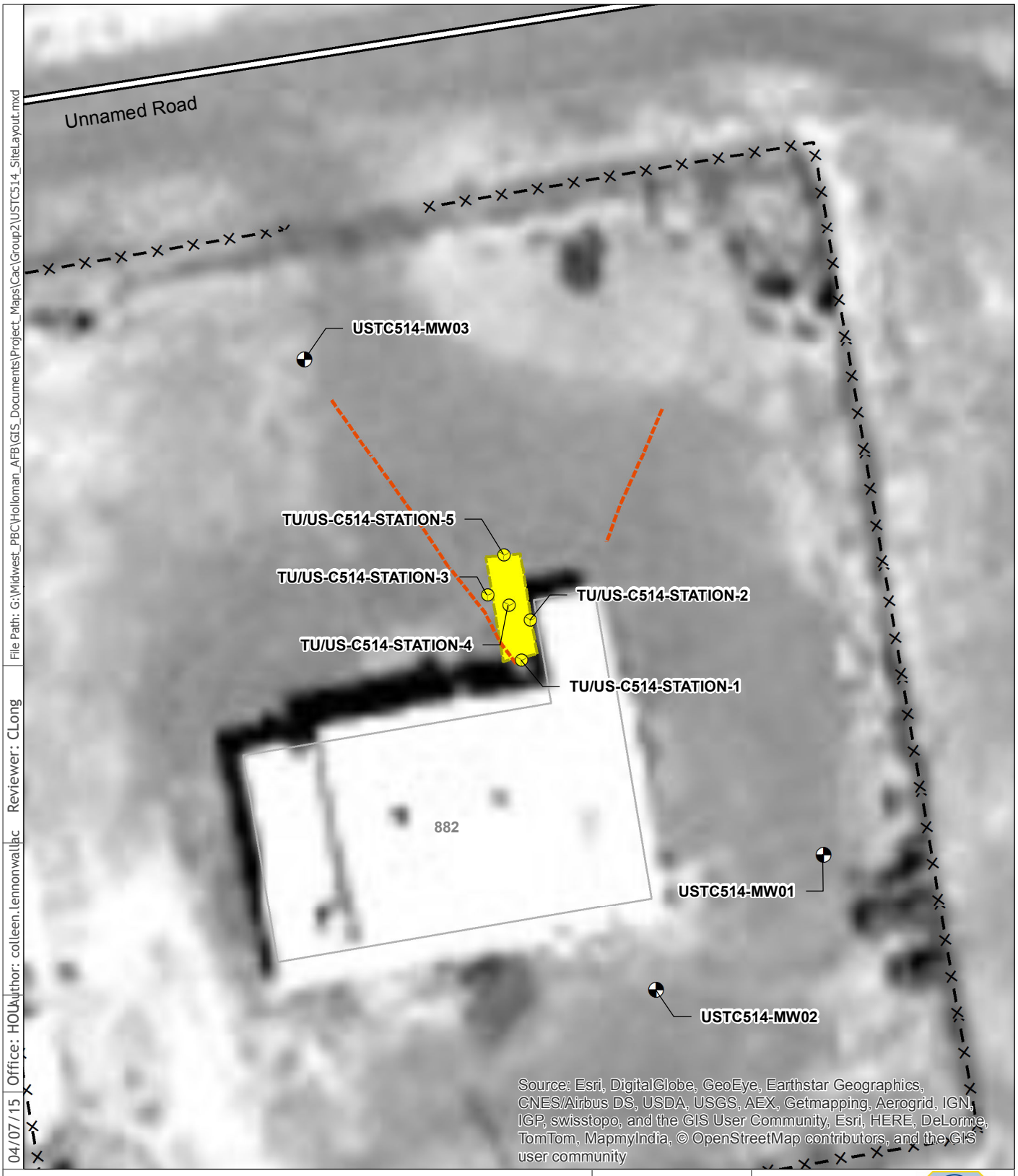


Figure 2

Site Layout and
Sampling Locations
Building 684 (TU/US-C516)
AOC-UST-684

Holloman AFB, New Mexico



04/07/15 | Office: HOL | Author: colleen.lennonwallac | Reviewer: CLong | File Path: G:\Midwest_PBC\Holloman_AFB\GIS_Documents\Project_Maps\Cac\Group2\USTC514_SiteLayout.mxd

Legend

- Monitoring Well
- Soil Boring Station
- Fence
- Road
- Unknown Utility
- UST Excavation
- Building

Note:
Monitoring Well MW02 did not produce groundwater, therefore a groundwater flow direction could not be determined.

N

NAD 83 SPCS
New Mexico Central
Feet

0 25
Feet

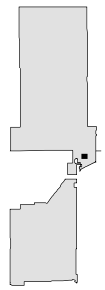


Figure 3

Site Layout and Sampling Locations
Building 882 (TU/US-C514)
AOC-UST-882

Holloman AFB, New Mexico

File Path: G:\Midwest_PBC\Holloman_AFB\GIS_Documents\Project_Maps\Cac\Group2\USTC507_SiteLayout.mxd

Reviewer: CLong

Author: benjamin.grod

Office: HOU

11/14/13

Legend

- Soil Boring Station
- Vent Riser
- Natural Gas Utility
- Water Utility
- GPR Anomaly (UST Excavation)
- Former Building
- Building

N

NAD 83 SPCS
New Mexico Central
Feet

0 25
Feet

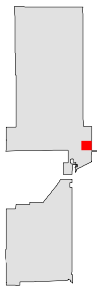
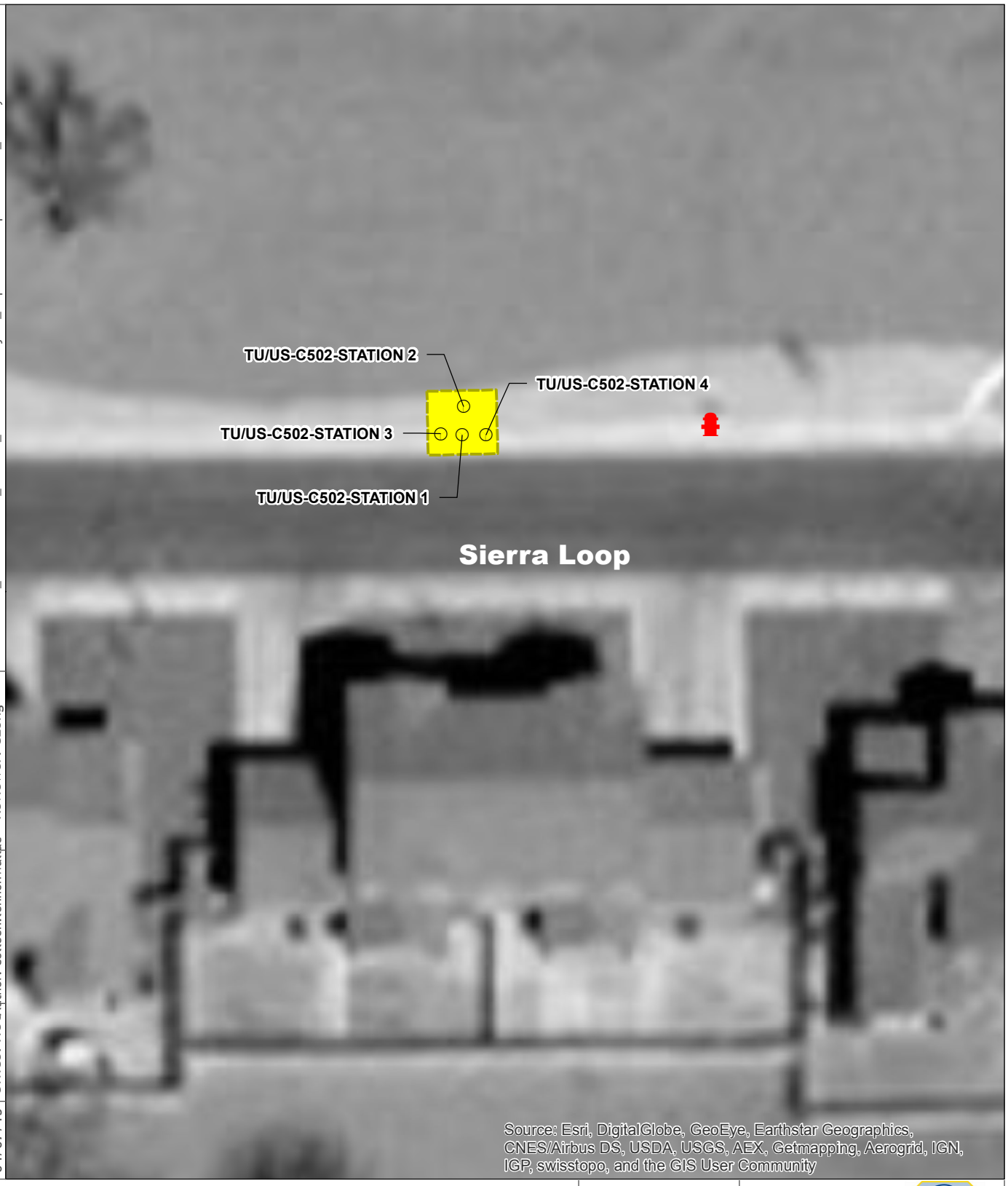


Figure 4

Site Layout and
Sampling Locations
Building 1272 (TU/US-C507)
AOC-UST-1272

Holloman AFB, New Mexico



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Reviewer: CLong

Office: HOL Author: colleen.lennonwallac

04/07/15

Legend

- Soil Boring Station
- Fire Hydrant
- Possible Location of Former UST

Note: Former Building 2395 was located southeast of the sampling locations. The building has been demolished.

N

NAD 83 SPCS
New Mexico Central
Feet

0 25
Feet

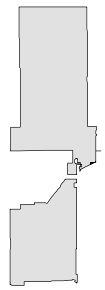

Figure 5

Site Layout and
Sampling Locations
Building 2395 (TU/US-C502)
AOC-UST-2395

Holloman AFB, New Mexico

Attachment 3
Tables

Table 1
Soil Analytical Data
AOC-UST-684 - Building 684 (TU/US-C516) CAC Petition
Holloman Air Force Base, New Mexico

Analyte			Sample Number	USTC516-IS-0001-091412		USTC516-IS-0002-091412		USTC516-IS-0003-091412		USTC516-IS-0004-091412		USTC516-IS-0005-091412		USTC516-IS-0006-091412		USTC516-CS-0001-091412		USTC516-CS-0002-091412		USTC516-CS-0003-091412		USTC516-CS-0004-091412	
			Sample Date	9/14/2012		9/14/2012		9/14/2012		9/14/2012		9/14/2012		9/14/2012		9/14/2012		9/14/2012		9/14/2012		9/14/2012	
			Location	USTC516-MW01		USTC516-MW01		USTC516-MW02		USTC516-MW02		USTC516-MW03		USTC516-MW03		Station 1 - UST pit east wall		Station 2 - UST pit south wall		Station 3 - UST pit west wall		Station 4 - UST pit north wall	
			Depth (ft bgs)	0 - 2		10 - 12		0 - 2		8.5 - 10		0 - 2		10 - 12		9 - 11		9 - 11		10 - 12		10 - 12	
	Background Values - Soil [a]	**EPA RSL - Residential Soil [b]**	**NMED SSL - Residential Soil [c]**	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
PERCENT SOLIDS	NE	NE	NE	**79.9**		**80.8**		**82.8**		**86.7**		**81**		**80.8**		**82.9**		**79.4**		**84.3**		**82.3**	
METALS (mg/kg)																							
ALUMINUM	13722	77000	78000	**4780**		**4800**		**7690**		**9830**		**5860**		**3250**		**9480**		**10000**		**8490**		**9360**	
ANTIMONY	1.6	31	31.3	0.99	U	0.87	U	1	U	0.92	U	0.94	U	1.1	U	0.91	U	1.1	U	0.88	UJ	1	U
ARSENIC	3.7	0.39	3.90	**1.6**	J	**1.4**	J	**3.1**	J	**2**	J	**2.4**	J	**1.1**	J	**3.6**	J	**1.5**	J	**1.9**	J	**2.5**	J
BARIUM	169.3	15000	15600	**43.9**	J	**30.7**	J	**87.4**	J	**77**	J	**72.9**	J	**25.1**	J	**65**	J	**67.5**	J	**63.8**	J	**63.4**	J
BERYLLIUM	1.6	160	156	0.5	U	0.44	U	0.51	U	**0.54**	J	0.47	U	0.56	U	**0.55**	J	**0.59**	J	**0.47**	J	**0.55**	J
CADMIUM	0.3	70	70.3	0.5	U	0.44	U	0.51	U	0.46	U	0.47	U	0.56	U	0.45	U	0.56	U	0.44	U	0.52	U
CALCIUM	317332	NE	NE	**224000**		**214000**		**184000**		**114000**		**211000**		**102000**		**169000**		**190000**		**179000**		**170000**	
CHROMIUM[d]	25	117000	117000	**4.1**	J	**4.7**		**6.7**		**12.9**		**4.9**		**3.8**	J	**10.6**		**11.2**		**11.8**		**12**	
COBALT	7.7	23	NE	**1.6**	J	**2.2**	J	**2.7**	J	**3.1**	J	**1.8**	J	**1.5**	J	**3.6**	J	**3.5**	J	**3.2**	J	**3.6**	J
COPPER	13	3100	3130	**4**	J	**3.6**	J	**6.4**	J	**5.5**	J	**5.8**	J	**2**	J	**6.4**	J	**6.1**	J	**5.9**	J	**6.1**	J
IRON	23049	55000	54800	**3970**		**4730**		**6410**		**8330**		**4370**		**3820**		**10600**		**9350**		**8330**		**10000**	
LEAD	10.9	400	400	**2**	J	**2.3**	J	**2.3**	J	**3.1**	J	**2.5**	J	0.56	U	**4.7**	J	**4**	J	**4.6**	J	**3.7**	J
MAGNESIUM	16991	NE	NE	**5010**		**5090**		**6170**		**7850**		**10200**		**5110**		**18700**		**28500**		**19800**		**18700**	
MANGANESE	393	1800	1860	**78.8**		**399**		**127**		**91.6**		**74.5**		**198**		**126**		**184**		**185**		**147**	
MERCURY	0.0108	10	15.6	0.0095	U	0.01	U	0.0099	U	0.0093	U	0.01	U	0.0095	U	0.0097	U	0.0095	U	0.0089	U	0.0096	U
NICKEL	17.4	1500	1560	**3.4**	J	**6.5**	J	**5.7**	J	**7.6**	J	**3.8**	J	**2.9**	J	**8.6**	J	**9.2**	J	**7.8**	J	**8.4**	J
POTASSIUM	5077	NE	NE	**1620**	J	**1210**	J	**2550**	J	**2030**	J	**1800**	J	**778**	J	**2030**	J	**2030**	J	**1850**	J	**2060**	J
SELENIUM	1.4	390	391	2	U	1.7	U	2	U	1.8	U	1.9	U	2.2	U	1.8	U	2.2	U	1.8	U	2.1	U
SILVER	1.1	390	391	0.5	U	0.44	U	0.51	U	0.46	U	0.47	U	0.56	U	0.45	U	0.56	U	0.44	U	0.52	U
SODIUM	5196	NE	NE	**4090**	J	**1240**	J	**4130**	J	**2140**	J	**5010**		**885**	J	**2370**	J	**2260**	J	**1840**	J	**2630**	J
THALLIUM	1.3	0.78	0.782	1.3	U	1.1	U	1.3	U	1.2	U	1.2	U	1.4	U	1.2	U	1.4	U	1.1	U	1.4	U
VANADIUM	42.6	390	391	**9.2**	J	**10.8**	J	**15.6**	J	**21.5**	J	**16.4**	J	**11.5**	J	**24.9**		**20**	J	**18.2**	J	**21.8**	J
ZINC	54.6	23000	23500	**12.2**		**11.2**		**19.6**		**25.4**		**13.1**		**8.8**	J	**27.5**		**29.2**		**28.2**	J	**26.6**	
PETROLEUM HYDROCARBONS (mg/kg)																							
GASOLINE RANGE ORGANICS C6-C10	NE	NE	1000	2.8	U	3.5	U	2.8	U	2.6	U	2.8	U	2.9	U	2.6	U	2.4	U	2.7	U	2.7	U
DIESEL RANGE ORGANICS C10-C28	NE	NE	1000	4.2	U	4.1	U	4	U	3.8	U	4.1	U	4.2	U	4	U	4.2	U	4	U	4.1	U
OIL RANGE ORGANICS C28-C40	NE	NE	1000	4.2	U	4.1	U	4	U	3.8	U	4.1	U	4.2	U	4	U	4.2	U	4	U	4.1	U
VOLATILES (mg/kg)																							
1,1,1-TRICHLOROETHANE	NE	8700	15600	0.00091	U	0.0012	U	0.0011	U	0.00086	U	0.00096	U	0.00095	U	0.00079	UJ	0.0012	U	0.00085	U	0.00085	U
1,1,2,2-TETRACHLOROETHANE	NE	0.56	8.02	0.00099	U	0.0013	U	0.0012	U	0.00094	U	0.001	U	0.001	U	0.00086	U	0.0013	U	0.00093	U	0.00093	U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	NE	43000	72100	0.0014	U	0.0019	U	0.0017	U	0.0013	U	0.0015	U	0.0015	U	0.0012	U	0.0018	U	0.0013	U	0.0013	U
1,1,2-TRICHLOROETHANE	NE	1.1	2.81	0.00091	U	0.0012	U	0.0011	U	0.00086	U	0.00096	U	0.00095	U	0.00079	U	0.0012	U	0.00085	U	0.00085	U
1,1-DICHLOROETHANE	NE	3.3	64.5	0.00091	U	0.0012	U	0.0011	U	0.00086	U	0.00096	U	0.00095	U	0.00079	U	0.0012	U	0.00085	U	0.00085	U
1,1-DICHLOROETHENE	NE	240	449	0.0012	U	0.0015	U	0.0014	U	0.0011	U	0.0012	U	0.0012	U	0.001	U	0.0015	U	0.0011	U	0.0011	U
1,2,4-TRICHLOROBENZENE	NE	22	73.0	0.00099	U	0.0013	U	0.0012	U	0.00094	U	0.001	U	0.001	U	0.00086	UJ	0.0013	U	0.00093	U	0.00093	U
1,2-DIBROMO-3-CHLOROPROPANE	NE	0.0054	1.86	0.0019	U	0.0025	U	0.0022	U	0.0018	U	0.002	U	0.002	U	0.0016	U	0.0024	U	0.0018	U	0.0018	U
1,2-DIBROMOETHANE	NE	0.034	0.588	0.00083	U	0.0011	U	0.00097	U	0.00079	U	0.00087	U	0.00087	U	0.00072	U	0.0011	U	0.00077	U	0.00078	U
1,2-DICHLOROBENZENE	NE	1900	2310	0.00091	U	0.0012	U	0.0011	U	0.00086	U	0.00096	U	0.00095	U	0.00079	U	0.0012	U	0.00085	U	0.00085	U

Table 1
Soil Analytical Data
AOC-UST-684 - Building 684 (TU/US-C516) CAC Petition
Holloman Air Force Base, New Mexico

Analyte			Sample Number	USTC516-IS-0001-091412		USTC516-IS-0002-091412		USTC516-IS-0003-091412		USTC516-IS-0004-091412		USTC516-IS-0005-091412		USTC516-IS-0006-091412		USTC516-CS-0001-091412		USTC516-CS-0002-091412		USTC516-CS-0003-091412		USTC516-CS-0004-091412	
			Sample Date	9/14/2012		9/14/2012		9/14/2012		9/14/2012		9/14/2012		9/14/2012		9/14/2012		9/14/2012		9/14/2012		9/14/2012	
			Location	USTC516-MW01		USTC516-MW01		USTC516-MW02		USTC516-MW02		USTC516-MW03		USTC516-MW03		Station 1 - UST pit east wall		Station 2 - UST pit south wall		Station 3 - UST pit west wall		Station 4 - UST pit north wall	
			Depth (ft bgs)	0 - 2		10 - 12		0 - 2		8.5 - 10		0 - 2		10 - 12		9 - 11		9 - 11		10 - 12		10 - 12	
	Background Values - Soil [a]	**EPA RSL - Residential Soil [b]**	**NMED SSL - Residential Soil [c]**	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
VOLATILES - continued (mg/kg)																							
1,2-DICHLOROETHANE	NE	0.43	7.89	0.00083	U	0.0011	U	0.00097	U	0.00079	U	0.00087	U	0.00087	U	0.00072	U	0.0011	U	0.00077	U	0.00078	U
1,2-DICHLOROPROPANE	NE	0.94	15.2	0.00099	U	0.0013	U	0.0012	U	0.00094	U	0.001	U	0.001	U	0.00086	U	0.0013	U	0.00093	U	0.00093	U
1,3-DICHLOROBENZENE	NE	NE	NE	0.00099	U	0.0013	U	0.0012	U	0.00094	U	0.001	U	0.001	U	0.00086	U	0.0013	U	0.00093	U	0.00093	U
1,4-DICHLOROBENZENE	NE	2.4	31.7	0.00091	U	0.0012	U	0.0011	U	0.00086	U	0.00096	U	0.00095	U	0.00079	U	0.0012	U	0.00085	U	0.00085	U
2-HEXANONE	NE	210	NE	0.0045	U	0.006	U	0.0053	U	0.0042	U	0.0047	U	0.0047	U	0.0039	U	0.0057	U	0.0042	U	0.0042	U
ACETONE	NE	61000	66600	0.017	U	0.022	U	0.019	U	0.016	U	0.017	U	0.017	U	0.014	U	0.021	U	0.015	U	0.016	U
BENZENE	NE	1.1	15.4	0.0012	U	0.0017	U	0.0015	U	0.0012	U	0.0013	U	0.0013	U	0.0011	U	0.0016	U	0.0012	U	0.0012	U
BROMODICHLOROMETHANE	NE	0.27	5.41	0.00091	U	0.0012	U	0.0011	U	0.00086	U	0.00096	U	0.00095	U	0.00079	U	0.0012	U	0.00085	U	0.00085	U
BROMOFORM	NE	62	616	0.0012	U	0.0017	U	0.0015	U	0.0012	U	0.0013	U	0.0013	U	0.0011	U	0.0016	U	0.0012	U	0.0012	U
BROMOMETHANE	NE	7.3	16.5	0.0017	U	0.0022	U	0.0019	U	0.0016	U	0.0017	U	0.0017	U	0.0014	U	0.0021	U	0.0015	U	0.0016	U
CARBON DISULFIDE	NE	820	1530	0.0017	U	0.0022	U	0.0019	U	0.0016	U	0.0017	U	0.0017	U	0.0014	U	0.0021	U	0.0015	U	0.0016	U
CARBON TETRACHLORIDE	NE	0.61	10.8	0.0015	U	0.002	U	0.0018	U	0.0014	U	0.0016	U	0.0016	U	0.0013	UJ	0.0019	U	0.0014	U	0.0014	U
CHLOROBENZENE	NE	290	376	0.00083	U	0.0011	U	0.00097	U	0.00079	U	0.00087	U	0.00087	U	0.00072	U	0.0011	U	0.00077	U	0.00078	U
CHLOROETHANE	NE	15000	29800	0.0017	U	0.0022	U	0.0019	U	0.0016	U	0.0017	U	0.0017	U	0.0014	U	0.0021	U	0.0015	U	0.0016	U
CHLOROFORM	NE	0.29	5.86	0.00099	U	0.0013	U	0.0012	U	0.00094	U	0.001	U	0.001	U	0.00086	U	0.0013	U	0.00093	U	0.00093	U
CHLOROMETHANE	NE	120	275	0.0017	U	0.0022	U	0.0019	U	0.0016	U	0.0017	U	0.0017	U	0.0014	U	0.0021	U	0.0015	U	0.0016	U
CIS-1,2-DICHLOROETHYLENE	NE	160	156	0.0012	U	0.0017	U	0.0015	U	0.0012	U	0.0013	U	0.0013	U	0.0011	U	0.0016	U	0.0012	U	0.0012	U
CIS-1,3-DICHLOROPROPENE	NE	NE	NE	0.00083	U	0.0011	U	0.00097	U	0.00079	U	0.00087	U	0.00087	U	0.00072	U	0.0011	U	0.00077	U	0.00078	U
CYCLOHEXANE	NE	7000	NE	0.0012	U	0.0015	U	0.0014	U	0.0011	U	0.0012	U	0.0012	U	0.001	UJ	0.0015	U	0.0011	U	0.0011	U
DIBROMOCHLOROMETHANE	NE	0.68	12.1	0.00083	U	0.0011	U	0.00097	U	0.00079	U	0.00087	U	0.00087	U	0.00072	U	0.0011	U	0.00077	U	0.00078	U
DICHLORODIFLUOROMETHANE	NE	94	168	0.0012	UJ	0.0017	UJ	0.0015	UJ	0.0012	UJ	0.0013	U	0.0013	U	0.0011	U	0.0016	UJ	0.0012	U	0.0012	UJ
ETHYLBENZENE	NE	5.4	68.4	0.00083	U	0.0011	U	0.00097	U	0.00079	U	0.00087	U	0.00087	U	0.00072	U	0.0011	U	0.00077	U	0.00078	U
ISOPROPYLBENZENE	NE	2100	2430	0.00091	U	0.0012	U	0.0011	U	0.00086	U	0.00096	U	0.00095	U	0.00079	UJ	0.0012	U	0.00085	U	0.00085	U
METHYL ACETATE	NE	78000	78200	0.01	U	0.014	U	0.012	U	0.0098	U	0.011	U	0.011	U	0.0089	U	0.013	U	0.0097	U	0.0097	U
METHYL ETHYL KETONE	NE	28000	37100	0.005	U	0.0067	U	0.0059	U	0.0048	U	0.0053	U	0.0053	U	0.0044	U	0.0064	U	0.0047	U	0.0047	U
METHYL ISOBUTYL KETONE	NE	5300	5820	0.0046	U	0.0061	U	0.0053	U	0.0043	U	0.0048	U	0.0048	U	0.0039	U	0.0058	U	0.0043	U	0.0043	U
METHYLCYCLOHEXANE	NE	5630	5630	0.0011	U	0.0014	U	0.0013	U	0.0012	U	0.0011	U	0.0011	U	0.00093	UJ	0.0014	U	0.001	U	0.001	U
METHYLENE CHLORIDE	NE	56	409	0.0038	U	0.0051	U	0.0045	U	0.0036	U	0.004	U	0.004	U	0.0033	U	0.0049	U	0.0036	U	0.0036	U
STYRENE	NE	6300	7280	0.0022	U	0.0029	U	0.0025	U	0.002	U	0.0023	U	0.0023	U	0.0019	UJ	0.0027	U	0.002	U	0.002	U
TERT-BUTYL METHYL ETHER	NE	43	901	0.0017	U	0.0022	U	0.0019	U	0.0016	U	0.0017	U	0.0017	U	0.0014	U	0.0021	U	0.0015	U	0.0016	U
TETRACHLOROETHYLENE	NE	22	7.02	0.00083	U	0.0011	U	0.00097	U	0.00079	U	0.00087	U	0.00087	U	0.00072	U	0.0011	U	0.00077	U	0.00078	U
TOLUENE	NE	5000	5270	0.00099	U	0.0013	U	0.0012	U	0.00094	U	0.001	U	0.001	U	0.00086	U	0.0013	U	0.00093	U	0.00093	U
TRANS-1,2-DICHLOROETHENE	NE	150	270	0.0012	U	0.0017	U	0.0015	U	0.0012	U	0.0013	U	0.0013	U	0.0011	U	0.0016	U	0.0012	U	0.0012	U
TRANS-1,3-DICHLOROPROPENE	NE	NE	NE	0.00091	U	0.0012	U	0.0011	U	0.00086	U	0.00096	U	0.00095	U	0.00079	U	0.0012	U	0.00085	U	0.00085	U
TRICHLOROETHYLENE	NE	0.91	8.77	0.00099	U	0.0013	U	0.0012	U	0.00094	U	0.001	U	0.001	U	0.00086	U	0.0013	U	0.00093	U	0.00093	U
TRICHLOROFLUOROMETHANE	NE	790	1410	0.0017	U	0.0022	U	0.0019	U	0.0016	U	0.0017	U	0.0017	U	0.0014	U	0.0021	U	0.0015	U	0.0016	U
VINYL CHLORIDE	NE	0.06	0.728	0.0012	U	0.0017	U	0.0015	U	0.0012	U	0.0013	U	0.0013	U	0.0011	U	0.0016	U	0.0012	U	0.0012	U
XYLENES, TOTAL	NE	630	814	0.0026	U	0.0035	U	0.0031	U	0.0025	U	0.0028	U	0.0028	U	0.0023	U	0.0034	U	0.0025	U	0.0025	U

Table 1
Soil Analytical Data
AOC-UST-684 - Building 684 (TU/US-C516) CAC Petition
Holloman Air Force Base, New Mexico

Analyte			Sample Number	USTC516-IS-0001-091412		USTC516-IS-0002-091412		USTC516-IS-0003-091412		USTC516-IS-0004-091412		USTC516-IS-0005-091412		USTC516-IS-0006-091412		USTC516-CS-0001-091412		USTC516-CS-0002-091412		USTC516-CS-0003-091412		USTC516-CS-0004-091412	
			Sample Date	9/14/2012		9/14/2012		9/14/2012		9/14/2012		9/14/2012		9/14/2012		9/14/2012		9/14/2012		9/14/2012		9/14/2012	
			Location	USTC516-MW01		USTC516-MW01		USTC516-MW02		USTC516-MW02		USTC516-MW03		USTC516-MW03		Station 1 - UST pit east wall		Station 2 - UST pit south wall		Station 3 - UST pit west wall		Station 4 - UST pit north wall	
			Depth (ft bgs)	0 - 2		10 - 12		0 - 2		8.5 - 10		0 - 2		10 - 12		9 - 11		9 - 11		10 - 12		10 - 12	
	Background Values - Soil [a]	**EPA RSL - Residential Soil [b]**	**NMED SSL - Residential Soil [c]**	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
SEMIVOLATILES (mg/kg)																							
2,2'-OXYBIS(1-CHLORO)PROPANE	NE	NE	NE	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
2,4,5-TRICHLOROPHENOL	NE	6100	6110	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
2,4,6-TRICHLOROPHENOL	NE	44	61.1	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
2,4-DICHLOROPHENOL	NE	180	183	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
2,4-DIMETHYLPHENOL	NE	1200	1220	0.027	U	0.026	U	0.025	U	0.024	U	0.026	U	0.026	U	0.025	U	0.026	U	0.025	U	0.025	U
2,4-DINITROPHENOL	NE	120	122	0.42	U	0.41	U	0.4	U	0.38	U	0.42	U	0.41	U	0.4	U	0.42	U	0.39	U	0.4	U
2,4-DINITROTOLUENE	NE	1.6	15.7	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
2,6-DINITROTOLUENE	NE	61	61.1	0.025	U	0.024	U	0.023	U	0.023	U	0.025	U	0.024	U	0.024	U	0.025	U	0.023	U	0.024	U
2-CHLORONAPHTHALENE	NE	6300	6260	0.042	U	0.041	U	0.04	U	0.038	U	0.042	U	0.041	U	0.04	U	0.042	U	0.039	U	0.04	U
2-CHLOROPHENOL	NE	390	391	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
2-METHYLNAPHTHALENE	NE	230	NE	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
2-METHYLPHENOL	NE	3100	NE	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
2-NITROANILINE	NE	610	NE	0.042	U	0.041	U	0.04	U	0.038	U	0.042	U	0.041	U	0.04	U	0.042	U	0.039	U	0.04	U
2-NITROPHENOL	NE	NE	NE	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
3,3'-DICHLOROBENZIDINE	NE	1.1	10.8	0.042	U	0.041	U	0.04	U	0.038	U	0.042	U	0.041	U	0.04	U	0.042	U	0.039	U	0.04	U
3-NITROANILINE	NE	NE	NE	0.042	U	0.041	U	0.04	U	0.038	U	0.042	U	0.041	U	0.04	U	0.042	U	0.039	U	0.04	U
4,6-DINITRO-2-METHYLPHENOL	NE	4.9	4.89	0.084	U	0.082	U	0.079	U	0.077	U	0.083	U	0.081	U	0.08	U	0.083	U	0.079	U	0.081	U
4-BROMOPHENYL PHENYL ETHER	NE	NE	NE	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
4-CHLORO-3-METHYLPHENOL	NE	6100	NE	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
4-CHLOROANILINE	NE	2.4	NE	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
4-CHLOROPHENYL PHENYL ETHER	NE	NE	NE	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
4-NITROANILINE	NE	24	NE	0.042	U	0.041	U	0.04	U	0.038	U	0.042	U	0.041	U	0.04	U	0.042	U	0.039	U	0.04	U
4-NITROPHENOL	NE	NE	NE	0.17	U	0.16	U	0.16	U	0.15	U	0.17	U	0.16	U	0.16	U	0.17	U	0.16	U	0.16	U
ACENAPHTHENE	NE	3400	3440	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
ACENAPHTHYLENE	NE	NE	NE	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
ACETOPHENONE	NE	7800	7820	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
ANTHRACENE	NE	17000	17200	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
ATRAZINE	NE	2.1	NE	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
BENZALDEHYDE	NE	7800	NE	0.21	UJ	0.21	UJ	0.2	UJ	0.19	UJ	0.21	UJ	0.2	UJ	0.2	UJ	0.21	UJ	0.2	UJ	0.2	UJ
BENZO(A)ANTHRACENE	NE	0.15	1.48	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
BENZO(A)PYRENE	NE	0.015	0.148	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
BENZO(B)FLUORANTHENE	NE	0.15	1.48	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
BENZO(G,H,I)PERYLENE	NE	NE	NE	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
BENZO(K)FLUORANTHENE	NE	1.5	14.8	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
BENZYL BUTYL PHTHALATE	NE	260	NE	0.042	U	0.041	U	0.04	U	0.038	U	0.042	U	0.041	U	0.04	U	0.042	U	0.039	U	0.04	U
BIPHENYL	NE	51	57.1	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
BIS(2-CHLOROETHOXY) METHANE	NE	180	NE	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
BIS(2-CHLOROETHYL) ETHER	NE	0.21	2.68	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
BIS(2-ETHYLHEXYL) PHTHALATE	NE	35	347	0.084	U	0.082	U	0.079	U	0.077	U	0.083	U	0.081	U	0.08	U	0.083	U	0.079	U	0.081	U

Table 1
Soil Analytical Data
AOC-UST-684 - Building 684 (TU/US-C516) CAC Petition
Holloman Air Force Base, New Mexico

Analyte			Sample Number	USTC516-IS-0001-091412		USTC516-IS-0002-091412		USTC516-IS-0003-091412		USTC516-IS-0004-091412		USTC516-IS-0005-091412		USTC516-IS-0006-091412		USTC516-CS-0001-091412		USTC516-CS-0002-091412		USTC516-CS-0003-091412		USTC516-CS-0004-091412	
			Sample Date	9/14/2012		9/14/2012		9/14/2012		9/14/2012		9/14/2012		9/14/2012		9/14/2012		9/14/2012		9/14/2012		9/14/2012	
			Location	USTC516-MW01		USTC516-MW01		USTC516-MW02		USTC516-MW02		USTC516-MW03		USTC516-MW03		Station 1 - UST pit east wall		Station 2 - UST pit south wall		Station 3 - UST pit west wall		Station 4 - UST pit north wall	
			Depth (ft bgs)	0 - 2		10 - 12		0 - 2		8.5 - 10		0 - 2		10 - 12		9 - 11		9 - 11		10 - 12		10 - 12	
	Background Values - Soil [a]	**EPA RSL - Residential Soil [b]**	**NMED SSL - Residential Soil [c]**	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
SEMIVOLATILES - continued (mg/kg)																							
CAPROLACTAM	NE	31000	NE	0.067	UJ	0.066	UJ	0.063	UJ	0.061	UJ	0.067	UJ	0.065	UJ	0.064	UJ	0.067	UJ	0.063	UJ	0.065	UJ
CARBAZOLE	NE	NE	NE	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
CHRYSENE	NE	15	148	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
DIBENZ(A,H)ANTHRACENE	NE	0.015	0.148	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
DIBENZOFURAN	NE	78	NE	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
DIETHYL PHTHALATE	NE	49000	48900	0.084	U	0.082	U	0.079	U	0.077	U	0.083	U	0.081	U	0.08	U	0.083	U	0.079	U	0.081	U
DIMETHYL PHTHALATE	NE	611000	611000	0.042	U	0.041	U	0.04	U	0.038	U	0.042	U	0.041	U	0.04	U	0.042	U	0.039	U	0.04	U
DI-N-BUTYL PHTHALATE	NE	6100	6110	0.084	U	0.082	U	0.079	U	0.077	U	0.083	U	0.081	U	0.08	U	0.083	U	0.079	U	0.081	U
DI-N-OCTYLPHTHALATE	NE	730	NE	0.042	U	0.041	U	0.04	U	0.038	U	0.042	U	0.041	U	0.04	U	0.042	U	0.039	U	0.04	U
FLUORANTHENE	NE	2300	2290	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
FLUORENE	NE	2300	2290	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
HEXACHLOROBENZENE	NE	0.3	3.04	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
HEXACHLOROBUTADIENE	NE	6.2	61.1	0.042	U	0.041	U	0.04	U	0.038	U	0.042	U	0.041	U	0.04	U	0.042	U	0.039	U	0.04	U
HEXACHLOROCYCLOPENTADIENE	NE	370	367	0.093	U	0.09	U	0.087	U	0.084	U	0.091	U	0.089	U	0.088	U	0.092	U	0.087	U	0.089	U
HEXACHLOROETHANE	NE	12	42.8	0.042	U	0.041	U	0.04	U	0.038	U	0.042	U	0.041	U	0.04	U	0.042	U	0.039	U	0.04	U
INDENO(1,2,3-C,D)PYRENE	NE	0.15	1.48	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
ISOPHORONE	NE	510	5120	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
M,P-CRESOL	NE	NE	NE	0.03	U	0.03	U	0.029	U	0.028	U	0.03	U	0.029	U	0.029	U	0.03	U	0.028	U	0.029	U
NAPHTHALENE	NE	3.6	43.0	0.034	U	0.033	U	0.032	U	0.031	U	0.033	U	0.032	U	0.032	U	0.033	U	0.032	U	0.032	U
NITROBENZENE	NE	4.8	53.5	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
N-NITROSODI-N-PROPYLAMINE	NE	0.069	NE	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
N-NITROSODIPHENYLAMINE	NE	99	993	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
PENTACHLOROPHENOL	NE	0.89	8.94	0.25	U	0.25	U	0.24	U	0.23	U	0.25	U	0.24	U	0.24	U	0.25	U	0.24	U	0.24	U
PHENANTHRENE	NE	1830	1830	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
PHENOL	NE	18000	18300	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U
PYRENE	NE	1700	1720	0.021	U	0.021	U	0.02	U	0.019	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U

Table 1
Soil Analytical Data
AOC-UST-684 - Building 684 (TU/US-C516) CAC Petition
Holloman Air Force Base, New Mexico

Value exceeds NMED SSL - Residential Soil
Value exceeds EPA RSL - Residential Soil
Bold = parameter detected

[a] *NMED, 2012. "Correction, Approved Basewide Background Levels, Holloman Air Force Base, EPA ID# NM6572124422, HWB-HAFB-09-004," Letter to D. Scruggs, Chief, Environmental Restoration Program, HAFB from J.E. Kieling, Acting Chief, Hazardous Waste Bureau, NMED, March 1.*

[b] *EPA, 2012. Regional Screening Levels for Chemical Contaminants at Superfund Sites, November 2012 Update.*

[c] *NMED, 2012. Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, February, Table A-1, updated June 2012.*

[d] *The background concentration is Total Chromium and the screening levels are Chromium (III).*

CS = confirmation soil
ft bgs = feet below ground surface
EPA = U.S. Environmental Protection Agency
IS = investigation soil
J = estimated value
mg/kg = milligrams per kilogram
NE = Not established
NMED = New Mexico Environment Department
RCRA = Resource Conservation and Recovery Act
RFI = RCRA Facility Investigation
RSL = Regional Screening Level
SSL = Soil Screening Level
U = not detected at the detection limit shown
UST = underground storage tank
VQ = validation qualifier

Table 2
Soil Analytical Data
AOC-UST-882 - Building 882 (TU/US-C514) CAC Petition
Holloman Air Force Base, New Mexico

Analyte			Sample Number	USTC514-IS-0001-091312		USTC514-IS-0002-091312		USTC514-IS-0003-091312		USTC514-IS-0004-091312		USTC514-IS-0005-091312		USTC514-IS-0006-091312	
			Sample Date	9/13/2012		9/13/2012		9/13/2012		9/13/2012		9/13/2012		9/13/2012	
			Location	USTC514-MW01 boring		USTC514-MW01 boring		USTC514-MW02 boring		USTC514-MW02 boring		USTC514-MW03 boring		USTC514-MW03 boring	
			Depth (ft bgs)	0 - 2		8 - 10		0 - 2		7 - 9		0 - 2		6 - 8	
	Background Values - Soil [a]	**EPA RSL - Residential Soil [b]**	**NMED SSL - Residential Soil [c]**	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
PERCENT SOLIDS	NE	NE	NE	**77.6**		**79.8**		**80**		**82.1**		**73.3**		**73.7**	
METALS (mg/kg)															
ALUMINUM	13722	77000	78000	**3540**		**3770**		**1830**		**1690**		**2030**		**2570**	
ANTIMONY	1.6	31	31.3	1.2	U	1.1	U	1.2	U	1.2	U	1.3	U	1	U
ARSENIC	3.7	0.39	3.90	**2.8**	J	**1.8**	J	1.2	U	1.2	U	1.3	U	1	U
BARIUM	169	15000	15600	**54.8**	J	**51.2**	J	**15.8**	J	**15.2**	J	**28.8**	J	**24.2**	J
BERYLLIUM	1.6	160	156	0.62	U	0.56	U	0.58	U	0.61	U	0.67	U	0.51	U
CADMIUM	0.3	70	70.3	0.62	U	0.56	U	0.58	U	0.61	U	0.67	U	0.51	U
CALCIUM	317332	NE	NE	**199000**		**154000**		**186000**		**101000**		**247000**		**201000**	
CHROMIUM[d]	25	117000	117000	**2.6**	J	**3.7**	J	**1.6**	J	**1.9**	J	**2.4**	J	**2.4**	J
COBALT	7.7	23	NE	**1.3**	J	**1.3**	J	**1.2**	J	**0.62**	J	**1.1**	J	**0.93**	J
COPPER	13	3100	3130	**3.6**	J	**3.3**	J	**1.8**	J	**1.5**	J	**3.6**	J	**2.2**	J
IRON	23049	55000	54800	**2610**		**3430**		**1710**		**1870**		**1840**		**2600**	
LEAD	10.9	400	400	**0.65**	J	**2.2**	J	**0.74**	J	**0.74**	J	0.67	U	**0.9**	J
MAGNESIUM	16991	NE	NE	**8830**		**4070**		**1690**	J	**1560**	J	**5110**		**2330**	J
MANGANESE	393	1800	1860	**45.7**		**62.8**		**30**		**29.4**		**36.7**		**38**	
MERCURY	0.0108	10	15.6	0.0099	U	0.0095	U	0.01	U	0.0097	U	0.011	U	0.011	U
NICKEL	17.4	1500	1560	**2.7**	J	**2.7**	J	**2.4**	J	**1.5**	J	**2.1**	J	**1.9**	J
POTASSIUM	5077	NE	NE	**858**	J	**999**	J	**438**	J	**379**	J	**616**	J	**656**	J
SELENIUM	1.4	390	391	2.5	U	2.3	U	2.3	U	2.4	U	2.7	U	2	U
SILVER	1.1	390	391	0.62	U	0.56	U	0.58	U	0.61	U	0.67	U	0.51	U
SODIUM	5196	NE	NE	680	U	620	U	640	U	670	U	740	U	560	U
THALLIUM	1.3	0.78	0.782	1.6	U	1.5	U	1.5	U	1.6	U	1.7	U	1.3	U
VANADIUM	42.6	390	391	**19.2**	J	**9.9**	J	**4.9**	J	**5.3**	J	**6.9**	J	**5.8**	J
ZINC	54.6	23000	23500	**8.5**	J	**11.4**		**5.2**	J	**5.3**	J	**11**	J	**7.3**	J
PETROLEUM HYDROCARBONS (mg/kg)															
GASOLINE RANGE ORGANICS C6-C10	NE	NE	1000	2.9	U	2.5	U	3.8	U	2.4	U	3.1	U	2.7	U
DIESEL RANGE ORGANICS C10-C28	NE	NE	1000	4.2	U	4.2	U	4.2	U	4.1	U	4.6	U	4.5	U
OIL RANGE ORGANICS C28-C40	NE	NE	1000	4.2	U	4.2	U	4.2	U	4.1	U	4.6	U	4.5	U
VOLATILES (mg/kg)															
1,1,1-TRICHLOROETHANE	NE	8700	15600	0.0011	U	0.00076	U	0.0012	U	0.00072	U	0.0011	U	0.0012	U
1,1,2,2-TETRACHLOROETHANE	NE	0.56	8.02	0.0012	U	0.00083	U	0.0013	U	0.00078	U	0.0012	U	0.0013	U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	NE	43000	72100	0.0017	U	0.0012	U	0.0019	U	0.0011	U	0.0018	U	0.0019	U
1,1,2-TRICHLOROETHANE	NE	1.1	2.81	0.0011	U	0.00076	U	0.0012	U	0.00072	U	0.0011	U	0.0012	U
1,1-DICHLOROETHANE	NE	3.3	64.5	0.0011	U	0.00076	U	0.0012	U	0.00072	U	0.0011	U	0.0012	U
1,1-DICHLOROETHENE	NE	240	449	0.0014	U	0.00097	U	0.0016	U	0.00091	U	0.0014	U	0.0016	U
1,2,4-TRICHLOROBENZENE	NE	22	73.0	0.0012	U	0.00083	U	0.0013	U	0.00078	U	0.0012	U	0.0013	U
1,2-DIBROMO-3-CHLOROPROPANE	NE	0.0054	1.86	0.0023	U	0.0016	U	0.0025	U	0.0015	U	0.0024	U	0.0025	U
1,2-DIBROMOETHANE	NE	0.034	0.588	0.001	U	0.00069	U	0.0011	U	0.00065	U	0.001	U	0.0011	U
1,2-DICHLOROBENZENE	NE	1900	2310	0.0011	U	0.00076	U	0.0012	U	0.00072	U	0.0011	U	0.0012	U

Table 2
Soil Analytical Data
AOC-UST-882 - Building 882 (TU/US-C514) CAC Petition
Holloman Air Force Base, New Mexico

Analyte			Sample Number	USTC514-IS-0001-091312		USTC514-IS-0002-091312		USTC514-IS-0003-091312		USTC514-IS-0004-091312		USTC514-IS-0005-091312		USTC514-IS-0006-091312	
			Sample Date	9/13/2012		9/13/2012		9/13/2012		9/13/2012		9/13/2012		9/13/2012	
			Location	USTC514-MW01 boring		USTC514-MW01 boring		USTC514-MW02 boring		USTC514-MW02 boring		USTC514-MW03 boring		USTC514-MW03 boring	
			Depth (ft bgs)	0 - 2		8 - 10		0 - 2		7 - 9		0 - 2		6 - 8	
	Background Values - Soil [a]	**EPA RSL - Residential Soil [b]**	**NMED SSL - Residential Soil [c]**	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
VOLATILES - continued (mg/kg)															
1,2-DICHLOROETHANE	NE	0.43	7.89	0.001	U	0.00069	U	0.0011	U	0.00065	U	0.001	U	0.0011	U
1,2-DICHLOROPROPANE	NE	0.94	15.2	0.0012	U	0.00083	U	0.0013	U	0.00078	U	0.0012	U	0.0013	U
1,3-DICHLOROBENZENE	NE	NE	NE	0.0012	U	0.00083	U	0.0013	U	0.00078	U	0.0012	U	0.0013	U
1,4-DICHLOROBENZENE	NE	2.4	31.7	0.0011	U	0.00076	U	0.0012	U	0.00072	U	0.0011	U	0.0012	U
2-HEXANONE	NE	210	NE	0.0055	U	0.0037	U	0.006	U	0.0035	U	0.0056	U	0.006	U
ACETONE	NE	61000	66600	0.02	U	0.014	U	0.022	U	0.013	U	0.021	U	0.022	U
BENZENE	NE	1.1	15.4	0.0015	U	0.001	U	0.0017	U	0.00098	U	0.0016	U	0.0017	U
BROMODICHLOROMETHANE	NE	0.27	5.41	0.0011	U	0.00076	U	0.0012	U	0.00072	U	0.0011	U	0.0012	U
BROMOFORM	NE	62	616	0.0015	U	0.001	U	0.0017	U	0.00098	U	0.0016	U	0.0017	U
BROMOMETHANE	NE	7.3	16.5	0.002	U	0.0014	U	0.0022	U	0.0013	U	0.0021	U	0.0022	U
CARBON DISULFIDE	NE	820	1530	0.002	U	0.0014	U	0.0022	U	0.0013	U	0.0021	U	0.0022	U
CARBON TETRACHLORIDE	NE	0.61	10.8	0.0018	U	0.0012	U	0.002	U	0.0012	U	0.0019	U	0.002	U
CHLOROBENZENE	NE	290	376	0.001	U	0.00069	U	0.0011	U	0.00065	U	0.001	U	0.0011	U
CHLOROETHANE	NE	15000	29800	0.002	U	0.0014	U	0.0022	U	0.0013	U	0.0021	U	0.0022	U
CHLOROFORM	NE	0.29	5.86	0.0012	U	0.00083	U	0.0013	U	0.00078	U	0.0012	U	0.0013	U
CHLOROMETHANE	NE	120	275	0.002	U	0.0014	U	0.0022	U	0.0013	U	0.0021	U	0.0022	U
CIS-1,2-DICHLOROETHYLENE	NE	160	156	0.0015	U	0.001	U	0.0017	U	0.00098	U	0.0016	U	0.0017	U
CIS-1,3-DICHLOROPROPENE	NE	NE	NE	0.001	U	0.00069	U	0.0011	U	0.00065	U	0.001	U	0.0011	U
CYCLOHEXANE	NE	7000	NE	0.0014	U	0.00097	U	0.0016	U	0.00091	U	0.0014	U	0.0016	U
DIBROMOCHLOROMETHANE	NE	0.68	12.1	0.001	U	0.00069	U	0.0011	U	0.00065	U	0.001	U	0.0011	U
DICHLORODIFLUOROMETHANE	NE	94	168	0.0015	U	0.001	U	0.0017	U	0.00098	U	0.0016	U	0.0017	U
ETHYLBENZENE	NE	5.4	68.4	0.001	U	0.00069	U	0.0011	U	0.00065	U	0.001	U	0.0011	U
ISOPROPYLBENZENE	NE	2100	2430	0.0011	U	0.00076	U	0.0012	U	0.00072	U	0.0011	U	0.0012	U
METHYL ACETATE	NE	78000	78200	0.013	U	0.0086	U	0.014	U	0.0082	U	0.013	U	0.014	U
METHYL ETHYL KETONE	NE	28000	37100	0.0062	U	0.0042	U	0.0068	U	0.004	U	0.0063	U	0.0068	U
METHYL ISOBUTYL KETONE	NE	5300	5820	0.0056	U	0.0038	U	0.0061	U	0.0036	U	0.0057	U	0.0061	U
METHYLCYCLOHEXANE	NE	5630	5630	0.0013	U	0.0009	U	0.0014	U	0.00085	U	0.0013	U	0.0014	U
METHYLENE CHLORIDE	NE	56	409	0.0047	U	0.0032	U	0.0051	U	0.003	U	0.0048	U	0.0051	U
STYRENE	NE	6300	7280	0.0026	U	0.0018	U	0.0029	U	0.0017	U	0.0027	U	0.0029	U
TERT-BUTYL METHYL ETHER	NE	43	901	0.002	U	0.0014	U	0.0022	U	0.0013	U	0.0021	U	0.0022	U
TETRACHLOROETHYLENE	NE	22	7.02	0.001	U	0.00069	U	0.0011	U	0.00065	U	0.001	U	0.0011	U
TOLUENE	NE	5000	5270	0.0012	U	0.00083	U	0.0013	U	0.00078	U	0.0012	U	0.0013	U
TRANS-1,2-DICHLOROETHENE	NE	150	270	0.0015	U	0.001	U	0.0017	U	0.00098	U	0.0016	U	0.0017	U
TRANS-1,3-DICHLOROPROPENE	NE	NE	NE	0.0011	U	0.00076	U	0.0012	U	0.00072	U	0.0011	U	0.0012	U
TRICHLOROETHYLENE	NE	0.91	8.77	0.0012	U	0.00083	U	0.0013	U	0.00078	U	0.0012	U	0.0013	U
TRICHLOROFLUOROMETHANE	NE	790	1410	0.002	U	0.0014	U	0.0022	U	0.0013	U	0.0021	U	0.0022	U
VINYL CHLORIDE	NE	0.06	0.728	0.0015	U	0.001	U	0.0017	U	0.00098	U	0.0016	U	0.0017	U
XYLENES, TOTAL	NE	630	814	0.0032	U	0.0022	U	0.0035	U	0.0021	U	0.0033	U	0.0035	U

Table 2
Soil Analytical Data
AOC-UST-882 - Building 882 (TU/US-C514) CAC Petition
Holloman Air Force Base, New Mexico

Analyte			Sample Number	USTC514-IS-0001-091312		USTC514-IS-0002-091312		USTC514-IS-0003-091312		USTC514-IS-0004-091312		USTC514-IS-0005-091312		USTC514-IS-0006-091312	
			Sample Date	9/13/2012		9/13/2012		9/13/2012		9/13/2012		9/13/2012		9/13/2012	
			Location	USTC514-MW01 boring		USTC514-MW01 boring		USTC514-MW02 boring		USTC514-MW02 boring		USTC514-MW03 boring		USTC514-MW03 boring	
			Depth (ft bgs)	0 - 2		8 - 10		0 - 2		7 - 9		0 - 2		6 - 8	
	Background Values - Soil [a]	**EPA RSL - Residential Soil [b]**	**NMED SSL - Residential Soil [c]**	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
SEMIVOLATILES (mg/kg)															
2,2'-OXYBIS(1-CHLORO)PROPANE	NE		NE	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
2,4,5-TRICHLOROPHENOL	NE	6100	6110	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
2,4,6-TRICHLOROPHENOL	NE	44	61.1	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
2,4-DICHLOROPHENOL	NE	180	183	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
2,4-DIMETHYLPHENOL	NE	1200	1220	0.027	U	0.026	U	0.026	U	0.026	U	0.028	U	0.029	U
2,4-DINITROPHENOL	NE	120	122	0.43	UJ	0.42	UJ	0.41	UJ	0.41	UJ	0.45	UJ	0.46	UJ
2,4-DINITROTOLUENE	NE	1.6	15.7	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
2,6-DINITROTOLUENE	NE	61	61.1	0.025	U	0.025	U	0.024	U	0.024	U	0.026	U	0.027	U
2-CHLORONAPHTHALENE	NE	6300	6260	0.043	U	0.042	U	0.041	U	0.041	U	0.045	U	0.046	U
2-CHLOROPHENOL	NE	390	391	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
2-METHYLNAPHTHALENE	NE	230	NE	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
2-METHYLPHENOL	NE	3100	NE	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
2-NITROANILINE	NE	610	NE	0.043	UJ	0.042	UJ	0.041	UJ	0.041	UJ	0.045	UJ	0.046	UJ
2-NITROPHENOL	NE	NE	NE	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
3,3'-DICHLOROBENZIDINE	NE	1.1	10.8	0.043	U	0.042	U	0.041	U	0.041	U	0.045	U	0.046	U
3-NITROANILINE	NE	NE	NE	0.043	U	0.042	U	0.041	U	0.041	U	0.045	U	0.046	U
4,6-DINITRO-2-METHYLPHENOL	NE	4.9	4.89	0.086	U	0.083	U	0.083	U	0.082	U	0.089	U	0.091	U
4-BROMOPHENYL PHENYL ETHER	NE	NE	NE	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
4-CHLORO-3-METHYLPHENOL	NE	6100	NE	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
4-CHLOROANILINE	NE	2.4	NE	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
4-CHLOROPHENYL PHENYL ETHER	NE	NE	NE	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
4-NITROANILINE	NE	24	NE	0.043	U	0.042	U	0.041	U	0.041	U	0.045	U	0.046	U
4-NITROPHENOL	NE	NE	NE	0.17	UJ	0.17	UJ	0.17	UJ	0.16	UJ	0.18	UJ	0.18	UJ
ACENAPHTHENE	NE	3400	3440	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
ACENAPHTHYLENE	NE	NE	NE	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
ACETOPHENONE	NE	7800	7820	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
ANTHRACENE	NE	17000	17200	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
ATRAZINE	NE	2.1	NE	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
BENZALDEHYDE	NE	7800	NE	0.21	UJ	0.21	UJ	0.21	UJ	0.2	UJ	0.22	UJ	0.23	UJ
BENZO(A)ANTHRACENE	NE	0.15	1.48	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
BENZO(A)PYRENE	NE	0.015	0.148	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
BENZO(B)FLUORANTHENE	NE	0.15	1.48	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
BENZO(G,H,I)PERYLENE	NE	NE	NE	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
BENZO(K)FLUORANTHENE	NE	1.5	14.8	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
BENZYL BUTYL PHTHALATE	NE	260	NE	0.043	U	0.042	U	0.041	U	0.041	U	0.045	U	0.046	U
BIPHENYL	NE	51	57.1	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
BIS(2-CHLOROETHOXY) METHANE	NE	180	NE	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
BIS(2-CHLOROETHYL) ETHER	NE	0.21	2.68	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
BIS(2-ETHYLHEXYL) PHTHALATE	NE	35	347	0.086	U	0.083	U	0.083	U	0.082	U	0.089	U	0.091	U

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Holloman Air Force Base, New Mexico

Analyte			Sample Number	USTC514-IS-0001-091312		USTC514-IS-0002-091312		USTC514-IS-0003-091312		USTC514-IS-0004-091312		USTC514-IS-0005-091312		USTC514-IS-0006-091312	
			Sample Date	9/13/2012		9/13/2012		9/13/2012		9/13/2012		9/13/2012		9/13/2012	
			Location	USTC514-MW01 boring		USTC514-MW01 boring		USTC514-MW02 boring		USTC514-MW02 boring		USTC514-MW03 boring		USTC514-MW03 boring	
			Depth (ft bgs)	0 - 2		8 - 10		0 - 2		7 - 9		0 - 2		6 - 8	
	Background Values - Soil [a]	**EPA RSL - Residential Soil [b]**	**NMED SSL - Residential Soil [c]**	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
SEMIVOLATILES - continued (mg/kg)															
CAPROLACTAM	NE	31000	NE	0.069	U	0.067	U	0.066	U	0.065	U	0.072	U	0.073	U
CARBAZOLE	NE	NE	NE	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
CHRYSENE	NE	15	148	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
DIBENZ(A,H)ANTHRACENE	NE	0.015	0.148	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
DIBENZOFURAN	NE	78	NE	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
DIETHYL PHTHALATE	NE	49000	48900	0.086	U	0.083	U	0.083	U	0.082	U	0.089	U	0.091	U
DIMETHYL PHTHALATE	NE	611000	611000	0.043	U	0.042	U	0.041	U	0.041	U	0.045	U	0.046	U
DI-N-BUTYL PHTHALATE	NE	6100	6110	0.086	U	0.083	U	0.083	U	0.082	U	0.089	U	0.091	U
DI-N-OCTYLPHTHALATE	NE	730	NE	0.043	U	0.042	U	0.041	U	0.041	U	0.045	U	0.046	U
FLUORANTHENE	NE	2300	2290	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
FLUORENE	NE	2300	2290	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
HEXACHLOROBENZENE	NE	0.3	3.04	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
HEXACHLOROBUTADIENE	NE	6.2	61.1	0.043	U	0.042	U	0.041	U	0.041	U	0.045	U	0.046	U
HEXACHLOROCYCLOPENTADIENE	NE	370	367	0.095	U	0.092	U	0.091	U	0.09	U	0.098	U	0.1	U
HEXACHLOROETHANE	NE	12	42.8	0.043	U	0.042	U	0.041	U	0.041	U	0.045	U	0.046	U
INDENO(1,2,3-C,D)PYRENE	NE	0.15	1.48	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
ISOPHORONE	NE	510	5120	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
M,P-CRESOL	NE	NE	NE	0.031	U	0.03	U	0.03	U	0.029	U	0.032	U	0.033	U
NAPHTHALENE	NE	3.6	43.0	0.034	U	0.033	U	0.033	U	0.033	U	0.036	U	0.037	U
NITROBENZENE	NE	4.8	53.5	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
N-NITROSODI-N-PROPYLAMINE	NE	0.069	NE	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
N-NITROSODIPHENYLAMINE	NE	99	993	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
PENTACHLOROPHENOL	NE	0.89	8.94	0.26	U	0.25	U	0.25	U	0.25	U	0.27	U	0.27	U
PHENANTHRENE	NE	1830	1830	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
PHENOL	NE	18000	18300	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U
PYRENE	NE	1700	1720	0.021	U	0.021	U	0.021	U	0.02	U	0.022	U	0.023	U

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AOC-UST-882 - Building 882 (TU/US-C514) CAC Petition
Holloman Air Force Base, New Mexico

Analyte			Sample Number	USTC514-CS-0001-091312		USTC514-CS-0002-091312		USTC514-CS-0003-091312		USTC514-CS-0003-091312-FD		USTC514-CS-0004-091312		USTC514-CS-0005-091312	
			Sample Date	9/13/2012		9/13/2012		9/13/2012		9/13/2012		9/13/2012		9/13/2012	
			Location	TU/US-C514-Station 1, UST pit south wall		TU/US-C514-Station 2, UST pit east wall		TU/US-C514-Station 3, UST pit west wall		TU/US-C514-Station 3, UST pit west wall		TU/US-C514-Station 4, UST pit center		TU/US-C514-Station 5, UST pit north wall	
			Depth (ft bgs)	7 - 9		7 - 9		6 - 8		6 - 8		6 - 8		6 - 8	
	Background Values - Soil [a]	**EPA RSL - Residential Soil [b]**	**NMED SSL - Residential Soil [c]**	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
PERCENT SOLIDS	NE	NE	NE	**78.1**		**80.5**		**76.2**		**77**		**81**		**81**	
METALS (mg/kg)															
ALUMINUM	13722	77000	78000	**2950**	J	**2140**		**2730**		**2300**		**2240**		**2430**	
ANTIMONY	1.6	31	31.3	1.1	UJ	1.1	U	1.2	U	1.1	U	1.2	U	**1.2**	J
ARSENIC	3.7	0.39	3.90	**1.2**	J	1.1	U	1.2	U	1.1	U	1.2	U	1.1	U
BARIUM	169	15000	15600	**24.2**	J	**22**	J	**27.6**	J	**21.6**	J	**23**	J	**23.5**	J
BERYLLIUM	1.6	160	156	0.55	U	0.56	U	0.59	U	0.53	U	0.58	U	0.56	U
CADMIUM	0.3	70	70.3	0.55	U	0.56	U	0.59	U	0.53	U	0.58	U	0.56	U
CALCIUM	317332	NE	NE	**195000**		**197000**		**228000**		**182000**		**228000**		**232000**	
CHROMIUM[d]	25	117000	117000	**3.1**	J	**1.8**	J	**2.5**	J	**2.1**	J	**2.1**	J	**2.3**	J
COBALT	7.7	23	NE	**0.95**	J	**0.67**	J	**0.92**	J	**0.86**	J	**0.84**	J	**0.88**	J
COPPER	13	3100	3130	**1.3**	J	**1.5**	J	**1.9**	J	**1.9**	J	**1.9**	J	**2**	J
IRON	23049	55000	54800	**2350**	J	**2230**		**2610**		**2260**		**2260**		**2370**	
LEAD	10.9	400	400	0.55	U	**0.9**	J	**1.1**	J	0.53	U	0.58	U	**0.6**	J
MAGNESIUM	16991	NE	NE	**1540**	J	**1600**	J	**2170**	J	**1830**	J	**1670**	J	**2060**	J
MANGANESE	393	1800	1860	**22.7**		**25.6**		**42.2**		**32.6**		**39.1**		**36.4**	
MERCURY	0.0108	10	15.6	0.01	U	0.0096	U	0.01	U	0.01	U	0.0096	U	0.01	U
NICKEL	17.4	1500	1560	**2**	J	**1.7**	J	**2.2**	J	**1.9**	J	**1.9**	J	**1.9**	J
POTASSIUM	5077	NE	NE	**651**	J	**552**	J	**686**	J	**576**	J	**575**	J	**603**	J
SELENIUM	1.4	390	391	2.2	U	2.2	U	2.4	U	2.1	U	2.3	U	2.2	U
SILVER	1.1	390	391	0.55	U	0.56	U	0.59	U	0.53	U	0.58	U	0.56	U
SODIUM	5196	NE	NE	600	U	620	U	650	U	590	U	640	U	620	U
THALLIUM	1.3	0.78	0.782	1.4	U	1.5	U	1.5	U	1.4	U	1.5	U	1.5	U
VANADIUM	42.6	390	391	**5.4**	J	**4.8**	J	**6.1**	J	**5**	J	**5.5**	J	**5.3**	J
ZINC	54.6	23000	23500	**5.9**	J	**6.3**	J	**7.2**	J	**6.1**	J	**7.2**	J	**6.6**	J
PETROLEUM HYDROCARBONS (mg/kg)															
GASOLINE RANGE ORGANICS C6-C10	NE	NE	1000	3.7	U	2.7	U	3	U	2.4	U	3.1	U	3.2	U
DIESEL RANGE ORGANICS C10-C28	NE	NE	1000	4.3	U	4.2	U	4.3	U	4.3	U	4.1	U	4.2	U
OIL RANGE ORGANICS C28-C40	NE	NE	1000	4.3	U	4.2	U	4.3	U	4.3	U	4.1	U	4.2	U
VOLATILES (mg/kg)															
1,1,1-TRICHLOROETHANE	NE	8700	15600	0.00099	U	0.001	U	0.0012	U	0.0011	U	0.00083	U	0.00082	U
1,1,2,2-TETRACHLOROETHANE	NE	0.56	8.02	0.0011	U	0.0011	U	0.0013	U	0.0012	U	0.0009	U	0.0009	U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	NE	43000	72100	0.0015	U	0.0016	U	0.0019	U	0.0017	U	0.0013	U	0.0013	U
1,1,2-TRICHLOROETHANE	NE	1.1	2.81	0.00099	U	0.001	U	0.0012	U	0.0011	U	0.00083	U	0.00082	U
1,1-DICHLOROETHANE	NE	3.3	64.5	0.00099	U	0.001	U	0.0012	U	0.0011	U	0.00083	U	0.00082	U
1,1-DICHLOROETHENE	NE	240	449	0.0013	U	0.0013	U	0.0016	U	0.0014	U	0.0011	U	0.001	U
1,2,4-TRICHLOROBENZENE	NE	22	73.0	0.0011	U	0.0011	U	0.0013	U	0.0012	U	0.0009	U	0.0009	U
1,2-DIBROMO-3-CHLOROPROPANE	NE	0.0054	1.86	0.0021	U	0.0022	U	0.0026	U	0.0022	U	0.0017	U	0.0017	U
1,2-DIBROMOETHANE	NE	0.034	0.588	0.0009	U	0.00094	U	0.0011	U	0.00098	U	0.00075	U	0.00075	U
1,2-DICHLOROBENZENE	NE	1900	2310	0.00099	U	0.001	U	0.0012	U	0.0011	U	0.00083	U	0.00082	U

Table 2
Soil Analytical Data
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			Sample Date	9/13/2012		9/13/2012		9/13/2012		9/13/2012		9/13/2012		9/13/2012	
			Location	TU/US-C514-Station 1, UST pit south wall		TU/US-C514-Station 2, UST pit east wall		TU/US-C514-Station 3, UST pit west wall		TU/US-C514-Station 3, UST pit west wall		TU/US-C514-Station 4, UST pit center		TU/US-C514-Station 5, UST pit north wall	
			Depth (ft bgs)	7 - 9		7 - 9		6 - 8		6 - 8		6 - 8		6 - 8	
	Background Values - Soil [a]	**EPA RSL - Residential Soil [b]**	**NMED SSL - Residential Soil [c]**	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
VOLATILES - continued (mg/kg)															
1,2-DICHLOROETHANE	NE	0.43	7.89	0.0009	U	0.00094	U	0.0011	U	0.00098	U	0.00075	U	0.00075	U
1,2-DICHLOROPROPANE	NE	0.94	15.2	0.0011	U	0.0011	U	0.0013	U	0.0012	U	0.0009	U	0.0009	U
1,3-DICHLOROBENZENE	NE	NE	NE	0.0011	U	0.0011	U	0.0013	U	0.0012	U	0.0009	U	0.0009	U
1,4-DICHLOROBENZENE	NE	2.4	31.7	0.00099	U	0.001	U	0.0012	U	0.0011	U	0.00083	U	0.00082	U
2-HEXANONE	NE	210	NE	0.0048	U	0.0051	U	0.006	U	0.0053	U	0.0041	U	0.004	U
ACETONE	NE	61000	66600	0.018	U	0.019	U	0.022	U	0.02	U	0.015	U	0.015	U
BENZENE	NE	1.1	15.4	0.0013	U	0.0014	U	0.0017	U	0.0015	U	0.0011	U	0.0011	U
BROMODICHLOROMETHANE	NE	0.27	5.41	0.00099	U	0.001	U	0.0012	U	0.0011	U	0.00083	U	0.00082	U
BROMOFORM	NE	62	616	0.0013	U	0.0014	U	0.0017	U	0.0015	U	0.0011	U	0.0011	U
BROMOMETHANE	NE	7.3	16.5	0.0018	U	0.0019	U	0.0022	U	0.002	U	0.0015	U	0.0015	U
CARBON DISULFIDE	NE	820	1530	0.0018	U	0.0019	U	0.0022	U	0.002	U	0.0015	U	0.0015	U
CARBON TETRACHLORIDE	NE	0.61	10.8	0.0016	U	0.0017	U	0.002	U	0.0018	U	0.0014	U	0.0013	U
CHLOROBENZENE	NE	290	376	0.0009	U	0.00094	U	0.0011	U	0.00098	U	0.00075	U	0.00075	U
CHLOROETHANE	NE	15000	29800	0.0018	U	0.0019	U	0.0022	U	0.002	U	0.0015	U	0.0015	U
CHLOROFORM	NE	0.29	5.86	0.0011	U	0.0011	U	0.0013	U	0.0012	U	0.0009	U	0.0009	U
CHLOROMETHANE	NE	120	275	0.0018	U	0.0019	U	0.0022	U	0.002	U	0.0015	U	0.0015	U
CIS-1,2-DICHLOROETHYLENE	NE	160	156	0.0013	U	0.0014	U	0.0017	U	0.0015	U	0.0011	U	0.0011	U
CIS-1,3-DICHLOROPROPENE	NE	NE	NE	0.0009	U	0.00094	U	0.0011	U	0.00098	U	0.00075	U	0.00075	U
CYCLOHEXANE	NE	7000	NE	0.0013	U	0.0013	U	0.0016	U	0.0014	U	0.0011	U	0.001	U
DIBROMOCHLOROMETHANE	NE	0.68	12.1	0.0009	U	0.00094	U	0.0011	U	0.00098	U	0.00075	U	0.00075	U
DICHLORODIFLUOROMETHANE	NE	94	168	0.0013	U	0.0014	U	0.0017	U	0.0015	U	0.0011	U	0.0011	U
ETHYLBENZENE	NE	5.4	68.4	0.0009	U	0.00094	U	0.0011	U	0.00098	U	0.00075	U	0.00075	U
ISOPROPYLBENZENE	NE	2100	2430	0.00099	U	0.001	U	0.0012	U	0.0011	U	0.00083	U	0.00082	U
METHYL ACETATE	NE	78000	78200	0.011	U	0.012	U	0.014	U	0.012	U	0.0094	U	0.0093	U
METHYL ETHYL KETONE	NE	28000	37100	0.0055	U	0.0057	U	0.0068	U	0.0059	U	0.0046	U	0.0046	U
METHYL ISOBUTYL KETONE	NE	5300	5820	0.0049	U	0.0051	U	0.0061	U	0.0054	U	0.0041	U	0.0041	U
METHYLCYCLOHEXANE	NE	5630	5630	0.0012	UJ	0.0012	U	0.0015	U	0.0013	U	0.00098	U	0.00097	U
METHYLENE CHLORIDE	NE	56	409	0.0041	U	0.0043	U	0.0051	U	0.0045	U	0.0035	U	0.0034	U
STYRENE	NE	6300	7280	0.0023	U	0.0024	U	0.0029	U	0.0025	U	0.002	U	0.0019	U
TERT-BUTYL METHYL ETHER	NE	43	901	0.0018	U	0.0019	U	0.0022	U	0.002	U	0.0015	U	0.0015	U
TETRACHLOROETHYLENE	NE	22	7.02	0.0009	U	0.00094	U	0.0011	U	0.00098	U	0.00075	U	0.00075	U
TOLUENE	NE	5000	5270	0.0011	U	0.0011	U	0.0013	U	0.0012	U	0.0009	U	0.0009	U
TRANS-1,2-DICHLOROETHENE	NE	150	270	0.0013	U	0.0014	U	0.0017	U	0.0015	U	0.0011	U	0.0011	U
TRANS-1,3-DICHLOROPROPENE	NE	NE	NE	0.00099	U	0.001	U	0.0012	U	0.0011	U	0.00083	U	0.00082	U
TRICHLOROETHYLENE	NE	0.91	8.77	0.0011	U	0.0011	U	0.0013	U	0.0012	U	0.0009	U	0.0009	U
TRICHLOROFLUOROMETHANE	NE	790	1410	0.0018	U	0.0019	U	0.0022	U	0.002	U	0.0015	U	0.0015	U
VINYL CHLORIDE	NE	0.06	0.728	0.0013	U	0.0014	U	0.0017	U	0.0015	U	0.0011	U	0.0011	U
XYLENES, TOTAL	NE	630	814	0.0029	U	0.003	U	0.0036	U	0.0031	U	0.0024	U	0.0024	U

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Analyte			Sample Number	USTC514-CS-0001-091312		USTC514-CS-0002-091312		USTC514-CS-0003-091312		USTC514-CS-0003-091312-FD		USTC514-CS-0004-091312		USTC514-CS-0005-091312	
			Sample Date	9/13/2012		9/13/2012		9/13/2012		9/13/2012		9/13/2012		9/13/2012	
			Location	TU/US-C514-Station 1, UST pit south wall		TU/US-C514-Station 2, UST pit east wall		TU/US-C514-Station 3, UST pit west wall		TU/US-C514-Station 3, UST pit west wall		TU/US-C514-Station 4, UST pit center		TU/US-C514-Station 5, UST pit north wall	
			Depth (ft bgs)	7 - 9		7 - 9		6 - 8		6 - 8		6 - 8		6 - 8	
	Background Values - Soil [a]	**EPA RSL - Residential Soil [b]**	**NMED SSL - Residential Soil [c]**	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
SEMIVOLATILES (mg/kg)															
2,2'-OXYBIS(1-CHLORO)PROPANE	NE		NE	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
2,4,5-TRICHLOROPHENOL	NE	6100	6110	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
2,4,6-TRICHLOROPHENOL	NE	44	61.1	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
2,4-DICHLOROPHENOL	NE	180	183	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
2,4-DIMETHYLPHENOL	NE	1200	1220	0.027	U	0.026	U	0.028	U	0.027	U	0.026	U	0.026	U
2,4-DINITROPHENOL	NE	120	122	0.43	UJ	0.41	UJ	0.44	UJ	0.43	UJ	0.41	UJ	0.41	UJ
2,4-DINITROTOLUENE	NE	1.6	15.7	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
2,6-DINITROTOLUENE	NE	61	61.1	0.025	U	0.024	U	0.026	U	0.025	U	0.024	U	0.024	U
2-CHLORONAPHTHALENE	NE	6300	6260	0.043	U	0.041	U	0.044	U	0.043	U	0.041	U	0.041	U
2-CHLOROPHENOL	NE	390	391	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
2-METHYLNAPHTHALENE	NE	230	NE	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
2-METHYLPHENOL	NE	3100	NE	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
2-NITROANILINE	NE	610	NE	0.043	UJ	0.041	UJ	0.044	UJ	0.043	UJ	0.041	UJ	0.041	UJ
2-NITROPHENOL	NE	NE	NE	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
3,3'-DICHLOROBENZIDINE	NE	1.1	10.8	0.043	U	0.041	U	0.044	U	0.043	U	0.041	U	0.041	U
3-NITROANILINE	NE	NE	NE	0.043	U	0.041	U	0.044	U	0.043	U	0.041	U	0.041	U
4,6-DINITRO-2-METHYLPHENOL	NE	4.9	4.89	0.085	U	0.081	U	0.088	U	0.085	U	0.082	U	0.081	U
4-BROMOPHENYL PHENYL ETHER	NE	NE	NE	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
4-CHLORO-3-METHYLPHENOL	NE	6100	NE	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
4-CHLOROANILINE	NE	2.4	NE	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
4-CHLOROPHENYL PHENYL ETHER	NE	NE	NE	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
4-NITROANILINE	NE	24	NE	0.043	U	0.041	U	0.044	U	0.043	U	0.041	U	0.041	U
4-NITROPHENOL	NE	NE	NE	0.17	UJ	0.16	UJ	0.18	UJ	0.17	UJ	0.16	UJ	0.16	UJ
ACENAPHTHENE	NE	3400	3440	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
ACENAPHTHYLENE	NE	NE	NE	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
ACETOPHENONE	NE	7800	7820	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
ANTHRACENE	NE	17000	17200	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
ATRAZINE	NE	2.1	NE	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
BENZALDEHYDE	NE	7800	NE	0.21	UJ	0.2	UJ	0.22	UJ	0.21	UJ	0.21	UJ	0.2	UJ
BENZO(A)ANTHRACENE	NE	0.15	1.48	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
BENZO(A)PYRENE	NE	0.015	0.148	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
BENZO(B)FLUORANTHENE	NE	0.15	1.48	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
BENZO(G,H,I)PERYLENE	NE	NE	NE	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
BENZO(K)FLUORANTHENE	NE	1.5	14.8	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
BENZYL BUTYL PHTHALATE	NE	260	NE	0.043	U	0.041	U	0.044	U	0.043	U	0.041	U	0.041	U
BIPHENYL	NE	51	57.1	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
BIS(2-CHLOROETHOXY) METHANE	NE	180	NE	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
BIS(2-CHLOROETHYL) ETHER	NE	0.21	2.68	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
BIS(2-ETHYLHEXYL) PHTHALATE	NE	35	347	0.085	U	0.081	U	0.088	U	0.085	U	0.082	U	0.081	U

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SEMIVOLATILES - continued (mg/kg)															
CAPROLACTAM	NE	31000	NE	0.068	U	0.065	U	0.07	U	0.068	U	0.066	U	0.065	U
CARBAZOLE	NE	NE	NE	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
CHRYSENE	NE	15	148	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
DIBENZ(A,H)ANTHRACENE	NE	0.015	0.148	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
DIBENZOFURAN	NE	78	NE	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
DIETHYL PHTHALATE	NE	49000	48900	0.085	U	0.081	U	0.088	U	0.085	U	0.082	U	0.081	U
DIMETHYL PHTHALATE	NE	611000	611000	0.043	U	0.041	U	0.044	U	0.043	U	0.041	U	0.041	U
DI-N-BUTYL PHTHALATE	NE	6100	6110	0.085	U	0.081	U	0.088	U	0.085	U	0.082	U	0.081	U
DI-N-OCTYLPHTHALATE	NE	730	NE	0.043	U	0.041	U	0.044	U	0.043	U	0.041	U	0.041	U
FLUORANTHENE	NE	2300	2290	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
FLUORENE	NE	2300	2290	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
HEXACHLOROBENZENE	NE	0.3	3.04	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
HEXACHLOROBUTADIENE	NE	6.2	61.1	0.043	U	0.041	U	0.044	U	0.043	U	0.041	U	0.041	U
HEXACHLOROCYCLOPENTADIENE	NE	370	367	0.094	U	0.09	U	0.097	U	0.094	U	0.09	U	0.089	U
HEXACHLOROETHANE	NE	12	42.8	0.043	U	0.041	U	0.044	U	0.043	U	0.041	U	0.041	U
INDENO(1,2,3-C,D)PYRENE	NE	0.15	1.48	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
ISOPHORONE	NE	510	5120	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
M,P-CRESOL	NE	NE	NE	0.031	U	0.029	U	0.032	U	0.031	U	0.03	U	0.029	U
NAPHTHALENE	NE	3.6	43.0	0.034	U	0.033	U	0.035	U	0.034	U	0.033	U	0.032	U
NITROBENZENE	NE	4.8	53.5	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
N-NITROSODI-N-PROPYLAMINE	NE	0.069	NE	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
N-NITROSODIPHENYLAMINE	NE	99	993	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
PENTACHLOROPHENOL	NE	0.89	8.94	0.26	U	0.24	U	0.26	U	0.26	U	0.25	U	0.24	U
PHENANTHRENE	NE	1830	1830	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
PHENOL	NE	18000	18300	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U
PYRENE	NE	1700	1720	0.021	U	0.02	U	0.022	U	0.021	U	0.021	U	0.02	U

Table 2
Soil Analytical Data
AOC-UST-882 - Building 882 (TU/US-C514) CAC Petition
Holloman Air Force Base, New Mexico

Value exceeds NMED SSL - Residential Soil
Value exceeds EPA RSL - Residential Soil
Bold = parameter detected

[a] *NMED, 2012. "Correction, Approved Basewide Background Levels, Holloman Air Force Base, EPA ID# NM6572124422, HWB-HAFB-09-004," Letter to D. Scruggs, Chief, Environmental Restoration Program, HAFB from J.E. Kieling, Acting Chief, Hazardous Waste Bureau, NMED, March 1.*

[b] *EPA, 2012. Regional Screening Levels for Chemical Contaminants at Superfund Sites, November 2012 Update.*

[c] *NMED, 2012. Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, February, Table A-1 Updated June 2012.*

[d] *The background concentration is Total Chromium and the screening levels are Chromium (III).*

ft bgs = feet below ground surface
EPA = U.S. Environmental Protection Agency
J = estimated value
mg/kg = milligrams per kilogram
NE = Not established
NMED = New Mexico Environment Department
RCRA = Resource Conservation and Recovery Act
RFI = RCRA Facility Investigation
RSL = Regional Screening Level
SSL = Soil Screening Level
U = not detected at the detection limit shown
UST = underground storage tank
VQ = validation qualifier

Table 3
Groundwater Analytical Data
AOC-UST-882 - Building 882 (TU/US-C514) CAC Petition
Holloman Air Force Base, New Mexico

Analyte			Sample Number	USTC514-GW-5141-100412		USTC514-GW-5143-100412	
			Sample date	10/4/2012		10/4/2012	
			Location	USTC514-MW01		USTC514-MW03	
	Background Values - Unfiltered GW [a]	**EPA MCL [b]**	**NM WQCC WQS [c]**	Result	VQ	Result	VQ
TOTAL DISSOLVED SOLIDS (mg/L)	NE	NE	NE	**3360**		**4150**	
METALS (µg/L)							
ALUMINUM	1043	NE	NE	**22.9**	J	**755**	
ANTIMONY	6	6	NE	5.2	U	6.5	U
ARSENIC	10	10	100	**4.2**	J	**7.2**	J
BARIUM	38	2000	1000	**28.6**	J	**29.1**	J
BERYLLIUM	4	4	NE	0.5	U	0.5	U
CADMIUM	5	5	10	2	U	2.5	U
CALCIUM	1,136,664	NE	NE	**654,000**		**636,000**	
CHROMIUM, TOTAL	12	100	50	**8.1**	J	10	U
COBALT	36	NE	NE	0.5	U	0.5	U
COPPER	9.8	1300	1000	1	U	**2.2**	J
IRON	5	NE	1000	29	U	**562**	
LEAD	9	15	50	4.4	U	**8.3**	J
MAGNESIUM	3,692,782	NE	NE	**143,000**		**175,000**	
MANGANESE	50	NE	200	**2.7**	J	**17.4**	
MERCURY	0.5	2	2	0.03	U	0.03	U
NICKEL	22	NE	NE	0.5	U	**0.5**	J
POTASSIUM	212,144	NE	NE	**9,330**	J	**21,800**	
SELENIUM	50	50	50	8	U	10	U
SILVER	10	NE	50	0.5	U	0.5	U
SODIUM	20,989,580	NE	NE	**162,000**		**444,000**	
THALLIUM	2	2	NE	0.078	U	**0.16**	B, J
VANADIUM	90	NE	NE	**30.3**	J	**41.6**	J
ZINC	17	NE	10000	20	U	25	U
PETROLEUM HYDROCARBONS (µg/L) [d]							
GASOLINE RANGE ORGANICS C6-C10	NE	NE	See individual VOC & SVOC	50	U	50	U
DIESEL RANGE ORGANICS C10-C28	NE	NE	400	95	U	95	U
OIL RANGE ORGANICS C28-C40	NE	NE	200	95	U	95	U

Table 3
Groundwater Analytical Data
AOC-UST-882 - Building 882 (TU/US-C514) CAC Petition
Holloman Air Force Base, New Mexico

Analyte			Sample Number	USTC514-GW-5141 100412		USTC514-GW-5143 100412	
			Sample date	10/4/2012		10/4/2012	
			Location	USTC514-MW01		USTC514-MW03	
	Background Values - Unfiltered GW [a]	EPA MCL [b]	NM WQCC WQS [c]	Result	VQ	Result	VQ
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	NE	200	60	0.2	U	0.2	U
1,1,2,2-TETRACHLOROETHANE	NE	NE	10	0.24	U	0.24	U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	NE	NE	NE	0.33	U	0.33	U
1,1,2-TRICHLOROETHANE	NE	5	10	0.2	U	0.2	U
1,1-DICHLOROETHANE	NE	NE	25	0.21	U	0.21	U
1,1-DICHLOROETHENE	NE	7	5	0.2	U	0.2	U
1,2,4-TRICHLOROBENZENE	NE	70	NE	0.5	U	0.5	U
1,2-DIBROMO-3-CHLOROPROPANE	NE	0.2	NE	0.71	U	0.71	U
1,2-DIBROMOETHANE	NE	0.05	0.10	0.3	U	0.3	U
1,2-DICHLOROBENZENE	NE	600	NE	0.22	U	0.22	U
1,2-DICHLOROETHANE	NE	5	10	0.22	U	0.22	U
1,2-DICHLOROPROPANE	NE	5	NE	0.26	U	0.26	U
1,3-DICHLOROBENZENE	NE	NE	NE	0.25	U	0.25	U
1,4-DICHLOROBENZENE	NE	75	NE	0.2	U	0.2	U
2-HEXANONE	NE	NE	NE	2	U	2	U
ACETONE	NE	NE	NE	10	U	10	U
BENZENE	NE	5	10	0.21	U	0.21	U
BROMODICHLOROMETHANE	NE	80	NE	0.2	U	0.2	U
BROMOFORM	NE	80	NE	0.34	U	0.34	U
BROMOMETHANE	NE	NE	NE	0.79	U	0.79	U
CARBON DISULFIDE	NE	NE	NE	0.49	UJ	0.49	U
CARBON TETRACHLORIDE	NE	5	10	0.31	U	0.31	U
CHLOROBENZENE	NE	100	NE	0.2	U	0.2	U
CHLOROETHANE	NE	NE	NE	0.5	U	0.5	U
CHLOROFORM	NE	80	100	**4.1**		**2.7**	
CHLOROMETHANE	NE	NE	NE	0.5	U	0.5	U
CIS-1,2-DICHLOROETHYLENE	NE	70	NE	0.24	U	0.24	U
CIS-1,3-DICHLOROPROPENE	NE	NE	NE	0.22	UJ	0.22	U

Table 3
Groundwater Analytical Data
AOC-UST-882 - Building 882 (TU/US-C514) CAC Petition
Holloman Air Force Base, New Mexico

Analyte			Sample Number	USTC514-GW-5141 100412		USTC514-GW-5143 100412	
			Sample date	10/4/2012		10/4/2012	
			Location	USTC514-MW01		USTC514-MW03	
	Background Values - Unfiltered GW [a]	EPA MCL [b]	NM WQCC WQS [c]	Result	VQ	Result	VQ
VOLATILES - continued (µg/L)							
CYCLOHEXANE	NE	NE	NE	0.48	U	0.48	U
DIBROMOCHLOROMETHANE	NE	80	NE	0.2	U	0.2	U
DICHLORODIFLUOROMETHANE	NE	NE	NE	0.5	UJ	0.5	U
ETHYLBENZENE	NE	700	750	0.29	U	0.29	U
ISOPROPYLBENZENE	NE	NE	NE	0.2	U	0.2	U
METHYL ACETATE	NE	NE	NE	5	U	5	U
METHYL ETHYL KETONE	NE	NE	NE	3.1	U	3.1	U
METHYL ISOBUTYL KETONE	NE	NE	NE	2.3	U	2.3	U
METHYLCYCLOHEXANE	NE	NE	NE	0.2	U	0.02	U
METHYLENE CHLORIDE	NE	5	100	2	U	2	U
STYRENE	NE	100	NE	0.2	U	0.2	U
TERT-BUTYL METHYL ETHER	NE	NE	NE	0.21	U	0.21	U
TETRACHLOROETHYLENE	NE	5	20	0.32	U	0.32	U
TOLUENE	NE	1000	750	0.2	U	0.2	U
TRANS-1,2-DICHLOROETHENE	NE	100	NE	0.23	U	0.23	U
TRANS-1,3-DICHLOROPROPENE	NE	NE	NE	0.21	UJ	0.21	U
TRICHLOROETHYLENE	NE	5	100	0.31	U	0.31	U
TRICHLOROFLUOROMETHANE	NE	NE	NE	0.5	U	0.5	U
VINYL CHLORIDE	NE	2	1	0.44	U	0.44	U
XYLENES, TOTAL	NE	10000	620	0.5	U	0.5	U
SEMIVOLATILES (µg/L)							
2,2'-OXYBIS(1-CHLORO)PROPANE	NE	NE	NE	0.75	U	0.75	U
2,4,5-TRICHLOROPHENOL	NE	NE	NE	0.85	U	0.85	U
2,4,6-TRICHLOROPHENOL	NE	NE	NE	0.74	U	0.74	U
2,4-DICHLOROPHENOL	NE	NE	NE	0.67	U	0.67	U
2,4-DIMETHYLPHENOL	NE	NE	NE	0.73	U	0.73	U
2,4-DINITROPHENOL	NE	NE	NE	5	U	5	U
2,4-DINITROTOLUENE	NE	NE	NE	0.65	U	0.65	U
2,6-DINITROTOLUENE	NE	NE	NE	0.77	U	0.77	U

Table 3
Groundwater Analytical Data
AOC-UST-882 - Building 882 (TU/US-C514) CAC Petition
Holloman Air Force Base, New Mexico

Analyte			Sample Number	USTC514-GW-5141 100412		USTC514-GW-5143 100412	
			Sample date	10/4/2012		10/4/2012	
			Location	USTC514-MW01		USTC514-MW03	
	Background Values - Unfiltered GW [a]	EPA MCL [b]	NM WQCC WQS [c]	Result	VQ	Result	VQ
SEMIVOLATILES - continued (µg/L)							
2-CHLORONAPHTHALENE	NE	NE	30	0.69	U	0.69	U
2-CHLOROPHENOL	NE	NE	NE	0.67	U	0.67	U
2-METHYLNAPHTHALENE	NE	NE	30	0.66	U	0.66	U
2-METHYLPHENOL (O-CRESOL)	NE	NE	NE	0.69	U	0.69	U
2-NITROANILINE	NE	NE	NE	0.72	U	0.72	U
2-NITROPHENOL	NE	NE	NE	0.64	U	0.64	U
3,3'-DICHLOROBENZIDINE	NE	NE	NE	0.7	U	0.7	U
3-NITROANILINE	NE	NE	NE	0.62	U	0.62	U
4,6-DINITRO-2-METHYLPHENOL	NE	NE	NE	1.4	U	1.4	U
4-BROMOPHENYL PHENYL ETHER	NE	NE	NE	0.75	U	0.75	U
4-CHLORO-3-METHYLPHENOL	NE	NE	NE	0.77	U	0.077	U
4-CHLOROANILINE	NE	NE	NE	0.65	U	0.65	U
4-CHLOROPHENYL PHENYL ETHER	NE	NE	NE	0.83	U	0.83	U
4-NITROANILINE	NE	NE	NE	0.92	U	0.92	U
4-NITROPHENOL	NE	NE	NE	4.8	U	4.8	U
ACENAPHTHENE	NE	NE	30	0.67	U	0.67	U
ACENAPHTHYLENE	NE	NE	30	0.66	U	0.66	U
ACETOPHENONE	NE	NE	NE	0.71	U	0.71	U
ANTHRACENE	NE	NE	30	0.71	U	0.71	U
ATRAZINE	NE	3	NE	0.82	U	0.82	U
BENZALDEHYDE	NE	NE	NE	4.8	U	4.8	U
BENZO(A)ANTHRACENE	NE	NE	30	0.52	U	0.052	U
BENZO(A)PYRENE	NE	0.2	0.7	0.54	U	0.54	U
BENZO(B)FLUORANTHENE	NE	NE	30	0.72	U	0.72	U
BENZO(G,H,I)PERYLENE	NE	NE	30	0.63	U	0.63	U
BENZO(K)FLUORANTHENE	NE	NE	30	0.64	U	0.64	U
BENZYL BUTYL PHTHALATE	NE	NE	NE	0.68	U	0.68	U
BIPHENYL	NE	NE	NE	0.91	U	0.91	U
BIS(2-CHLOROETHOXY) METHANE	NE	NE	NE	0.66	U	0.66	U

Table 3
Groundwater Analytical Data
AOC-UST-882 - Building 882 (TU/US-C514) CAC Petition
Holloman Air Force Base, New Mexico

Analyte			Sample Number	USTC514-GW-5141 100412		USTC514-GW-5143 100412	
			Sample date	10/4/2012		10/4/2012	
			Location	USTC514-MW01		USTC514-MW03	
	Background Values - Unfiltered GW [a]	EPA MCL [b]	NM WQCC WQS [c]	Result	VQ	Result	VQ
SEMIVOLATILES - continued (µg/L)							
BIS(2-CHLOROETHYL) ETHER	NE	NE	NE	0.68	U	0.68	U
BIS(2-ETHYLHEXYL) PHTHALATE	NE	6	NE	1.1	U	1.1	U
CAPROLACTAM	NE	NE	NE	2.4	U	2.4	U
CARBAZOLE	NE	NE	NE	0.5	U	0.5	U
CHRYSENE	NE	NE	30	0.56	U	0.56	U
DIBENZ(A,H)ANTHRACENE	NE	NE	30	0.56	U	0.56	U
DIBENZOFURAN	NE	NE	NE	0.71	U	0.71	U
DIETHYL PHTHALATE	NE	NE	NE	0.95	U	0.95	U
DIMETHYL PHTHALATE	NE	NE	NE	0.77	U	0.77	U
DI-N-BUTYL PHTHALATE	NE	NE	NE	0.95	U	0.95	U
DI-N-OCTYLPHTHALATE	NE	NE	NE	0.95	U	0.95	U
FLUORANTHENE	NE	NE	30	0.56	U	0.56	U
FLUORENE	NE	NE	30	0.73	U	0.73	U
HEXACHLOROBENZENE	NE	1	NE	0.65	U	0.65	U
HEXACHLOROBUTADIENE	NE	NE	NE	0.91	U	0.91	U
HEXACHLOROCYCLOPENTADIENE	NE	50	NE	0.76	U	0.76	U
HEXACHLOROETHANE	NE	NE	NE	0.71	U	0.71	U
INDENO(1,2,3-C,D)PYRENE	NE	NE	30	0.55	U	0.55	U
ISOPHORONE	NE	NE	NE	0.61	U	0.61	U
M,P-CRESOL	NE	NE	NE	1.3	U	1.3	U
NAPHTHALENE	NE	NE	30	0.61	U	0.61	U
NITROBENZENE	NE	NE	NE	0.69	U	0.69	U
N-NITROSODI-N-PROPYLAMINE	NE	NE	NE	0.81	U	0.81	U
N-NITROSODIPHENYLAMINE	NE	NE	NE	0.95	U	0.95	U
PENTACHLOROPHENOL	NE	1	NE	4.8	U	4.8	U
PHENANTHRENE	NE	NE	30	0.67	U	0.67	U
PHENOL	NE	NE	NE	0.52	U	0.52	U
PYRENE	NE	NE	30	0.65	U	0.65	U

Table 3
Groundwater Analytical Data
AOC-UST-882 - Building 882 (TU/US-C514) CAC Petition
Holloman Air Force Base, New Mexico

Value exceeds NM WQCC Water Quality Standard

Value exceeds EPA Maximum Contaminant Level

Bold = parameter detected

[a] *NMED, 2012. "Correction, Approved Basewide Background Levels, Holloman Air Force Base, EPA ID# NM6572124422, HWB-HAFB-09-004," letter to D. Scruggs, Chief, Environmental Restoration Program, Holloman Air Force Base from J.E. Kieling, Acting Chief, Hazardous Waste Bureau, New Mexico Environment Department, March 1.*

[b] *EPA, 2012, National Primary Drinking Water Regulations: List of Drinking Water Contaminants and Maximum Contaminant Levels.*

[c] *New Mexico Water Quality Control Commission, Water Quality Standards, 20.6.2 New Mexico Administrative Code.*

[d] New Mexico Environment Department (NMED), 2012. Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Ground Water Quality Bureau, February, Table A-1, updated June 2012.

B = analyte detected in associated rinsate blank and field blank quality control samples

EPA = U.S. Environmental Protection Agency

GW = groundwater

J = estimated value

MCL = Maximum Contaminant Level

µg/L = micrograms per liter

mg/L = milligrams per liter

NE = Not established

NM WQCC= New Mexico Water Quality Control Commission

RCRA = Resource Conservation and Recovery Act

RFI = RCRA Facility Investigation

SVOC = semivolatile organic compound

U = not detected at the detection limit shown

VOC = volatile organic compound

VQ = validation qualifier

WQS = Water Quality Standard

Table 4
Soil Analytical Data
AOC-UST-1272 - Building 1272 (TU/US-C507) CAC Petition
Holloman Air Force Base, New Mexico

Analyte			Sample Number	USTC507-CS-0001-072412		USTC507-CS-0002-072412		USTC507-CS-0003-072512		USTC507-CS-0004-072512		USTC507-CS-0005-072512		USTC507-CS-0006-072512	
			Sample Date	7/24/2012		7/24/2012		7/25/2012		7/25/2012		7/25/2012		7/25/2012	
			Location	Station 1, Southwest corner, UST pit		Station 1, Southwest corner, UST pit		Station 2, Center, UST pit		Station 3, Southeast corner, UST pit		Station 4, East wall, UST pit		Station 5, West wall, UST pit	
			Depth (ft bgs)	10-11		14 - 15		15 - 16		15 - 16		15 - 16		14 - 15	
	Background Values - Soil [a]	**EPA RSL - Residential Soil [b]**	**NMED SSL - Residential Soil [c]**	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
PERCENT SOLIDS	NE	NE	NE	**86.7**		**83.2**		**82.9**		**84.3**		**83.7**		**80.9**	
METALS (mg/kg)															
ALUMINUM	13722	77000	78000	**2330**		**15800**		**8170**		**8260**		**5910**		**13900**	
ANTIMONY	1.6	31	31.3	0.83	U	1.1	U	1	U	0.85	U	1.2	U	0.99	U
ARSENIC	3.7	0.39	3.90	0.83	U	**2.7**	J	**1.4**	J	**2**	J	1.2	U	**4.1**	J
BARIUM	169.3	15000	15600	**19.8**	J	**88.3**	J	**71.3**	J	**53.4**	J	**45.2**	J	**73.7**	J
BERYLLIUM	1.6	160	156	0.41	U	**0.81**	J	0.51	U	0.43	U	0.59	U	**0.68**	J
CADMIUM	0.3	70	70.3	0.41	U	0.57	U	0.51	U	0.43	U	0.59	U	0.49	U
CALCIUM	317332	NE	NE	**202000**		**148000**		**177000**		**193000**		**196000**		**164000**	
CHROMIUM[d]	25	117000	117000	**3.8**	J	**18.5**		**9.2**		**8.5**		**6.3**		**16.6**	
COBALT	7.7	23	NE	**0.7**	J	**4.5**	J	**2.4**	J	**2.6**	J	**1.7**	J	**3.8**	J
COPPER	13	3100	3130	**1.2**	J	**8.1**	J	**4.4**	J	**3.8**	J	**2.8**	J	**7.2**	J
IRON	23049	55000	54800	**2530**		**13900**		**7480**		**7210**		**5170**		**12200**	
LEAD	10.9	400	400	**1.2**	J	**8.5**	J	**4.4**	J	**3.7**	J	**2.6**	J	**7**	J
MAGNESIUM	16991	NE	NE	**1100**	J	**6750**		**3590**		**3130**		**2400**	J	**5420**	
MANGANESE	393	1800	1860	**34.2**		**234**		**141**		**151**		**97.9**		**160**	
MERCURY	0.0108	10	15.6	0.0093	U	0.0099	U	0.0096	U	0.0096	U	0.0095	U	0.01	U
NICKEL	17.4	1500	1560	**1.8**	J	**13**	J	**6.6**	J	**6.8**	J	**5**	J	**11.5**	J
POTASSIUM	5077	NE	NE	**580**	J	**2680**	J	**1480**	J	**1520**	J	**1120**	J	**2390**	J
SELENIUM	1.4	390	391	1.7	U	2.3	U	2	U	1.7	U	2.3	U	2	U
SILVER	1.1	390	391	0.41	U	0.57	U	0.51	U	0.43	U	0.59	U	0.49	U
SODIUM	5196	NE	NE	460	U	630	U	560	U	470	U	640	U	540	U
THALLIUM	1.3	0.78	0.782	1.1	U	1.5	U	1.3	U	1.1	U	1.5	U	1.3	U
VANADIUM	42.6	390	391	**4.8**	J	**24.2**	J	**14.4**	J	**14.3**	J	**10.6**	J	**25.5**	
ZINC	54.6	23000	23500	**5.6**	J	**42.8**		**23.1**		**20.4**		**14**		**37.1**	
PETROLEUM HYDROCARBONS (mg/kg)															
GASOLINE RANGE ORGANICS C6-C10	NE	NE	1000	3.4	U	2.8	U	2.8	U	3.7	U	3.2	U	4	U
DIESEL RANGE ORGANICS C10-C28	NE	NE	1000	3.9	U	4	U	4	U	**4.01**	J	**5.11**	J	**5.54**	J
OIL RANGE ORGANICS C28-C40	NE	NE	1000	3.9	U	4	U	4	U	4	U	4	U	**13.9**	
VOLATILES (mg/kg)															
1,1,1-TRICHLOROETHANE	NE	8700	15600	0.0011	U	0.00094	U	0.00092	U	0.0012	U	0.001	U	0.00093	U
1,1,2,2-TETRACHLOROETHANE	NE	0.56	8.02	0.0012	U	0.001	U	0.001	U	0.0013	U	0.0011	U	0.001	U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	NE	43000	72100	0.0017	U	0.0014	U	0.0014	U	0.0019	U	0.0016	U	0.0014	U
1,1,2-TRICHLOROETHANE	NE	1.1	2.81	0.0011	U	0.00094	U	0.00092	U	0.0012	U	0.001	U	0.00093	U
1,1-DICHLOROETHANE	NE	3.3	64.5	0.0011	U	0.00094	U	0.00092	U	0.0012	U	0.001	U	0.00093	U
1,1-DICHLOROETHENE	NE	240	449	0.0014	U	0.0012	U	0.0012	U	0.0016	U	0.0013	U	0.0012	U
1,2,4-TRICHLOROBENZENE	NE	22	73.0	0.0012	U	0.001	U	0.001	U	0.0013	U	0.0011	U	0.001	UJ

Table 4
Soil Analytical Data
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Analyte			Sample Number	USTC507-CS-0001-072412		USTC507-CS-0002-072412		USTC507-CS-0003-072512		USTC507-CS-0004-072512		USTC507-CS-0005-072512		USTC507-CS-0006-072512	
			Sample Date	7/24/2012		7/24/2012		7/25/2012		7/25/2012		7/25/2012		7/25/2012	
			Location	Station 1, Southwest corner, UST pit		Station 1, Southwest corner, UST pit		Station 2, Center, UST pit		Station 3, Southeast corner, UST pit		Station 4, East wall, UST pit		Station 5, West wall, UST pit	
			Depth (ft bgs)	10-11		14 - 15		15 - 16		15 - 16		15 - 16		14 - 15	
	Background Values - Soil [a]	**EPA RSL - Residential Soil [b]**	**NMED SSL - Residential Soil [c]**	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
VOLATILES - continued (mg/kg)															
1,2-DIBROMO-3-CHLOROPROPANE	NE	0.0054	1.86	0.0023	U	0.002	U	0.0019	U	0.0026	U	0.0021	U	0.0019	U
1,2-DIBROMOETHANE	NE	0.034	0.588	0.001	U	0.00085	U	0.00084	U	0.0011	U	0.00091	U	0.00085	U
1,2-DICHLOROBENZENE	NE	1900	2310	0.0011	U	0.00094	U	0.00092	U	0.0012	U	0.001	U	0.00093	UJ
1,2-DICHLOROETHANE	NE	0.43	7.89	0.001	U	0.00085	U	0.00084	U	0.0011	U	0.00091	U	0.00085	U
1,2-DICHLOROPROPANE	NE	0.94	15.2	0.0012	U	0.001	U	0.001	U	0.0013	U	0.0011	U	0.001	U
1,3-DICHLOROBENZENE	NE	NE	NE	0.0012	U	0.001	U	0.001	U	0.0013	U	0.0011	U	0.001	UJ
1,4-DICHLOROBENZENE	NE	2.4	31.7	0.0011	U	0.00094	U	0.00092	U	0.0012	U	0.001	U	0.00093	UJ
2-HEXANONE	NE	210	NE	0.0054	U	0.0046	U	0.0045	U	0.0061	U	0.0049	U	0.0046	U
ACETONE	NE	61000	66600	0.02	U	0.017	U	0.017	U	0.022	U	0.018	U	0.017	U
BENZENE	NE	1.1	15.4	0.0015	U	0.0013	U	0.0013	U	0.0017	U	0.0014	U	0.0013	U
BROMODICHLOROMETHANE	NE	0.27	5.41	0.0011	U	0.00094	U	0.00092	U	0.0012	U	0.001	U	0.00093	U
BROMOFORM	NE	62	616	0.0015	U	0.0013	U	0.0013	U	0.0017	U	0.0014	U	0.0013	U
BROMOMETHANE	NE	7.3	16.5	0.002	U	0.0017	U	0.0017	U	0.0022	U	0.0018	U	0.0017	U
CARBON DISULFIDE	NE	820	1530	0.002	U	0.0017	U	0.0017	U	0.0022	U	0.0018	U	0.0017	U
CARBON TETRACHLORIDE	NE	0.61	10.8	0.0018	U	0.0015	U	0.0015	U	0.002	U	0.0016	U	0.0015	U
CHLOROBENZENE	NE	290	376	0.001	U	0.00085	U	0.00084	U	0.0011	U	0.00091	U	0.00085	U
CHLOROETHANE	NE	15000	29800	0.002	U	0.0017	U	0.0017	U	0.0022	U	0.0018	U	0.0017	U
CHLOROFORM	NE	0.29	5.86	0.0012	U	0.001	U	0.001	U	0.0013	U	0.0011	U	0.001	U
CHLOROMETHANE	NE	120	275	0.002	U	0.0017	U	0.0017	U	0.0022	U	0.0018	U	0.0017	U
CIS-1,2-DICHLOROETHYLENE	NE	160	156	0.0015	U	0.0013	U	0.0013	U	0.0017	U	0.0014	U	0.0013	U
CIS-1,3-DICHLOROPROPENE	NE	NE	NE	0.001	U	0.00085	U	0.00084	U	0.0011	U	0.00091	U	0.00085	U
CYCLOHEXANE	NE	7000	NE	0.0014	U	0.0012	U	0.0012	U	0.0016	U	0.0013	U	0.0012	UJ
DIBROMOCHLOROMETHANE	NE	0.68	12.1	0.001	U	0.00085	U	0.00084	U	0.0011	U	0.00091	U	0.00085	U
DICHLORODIFLUOROMETHANE	NE	94	168	0.0015	U	0.0013	U	0.0013	U	0.0017	U	0.0014	U	0.0013	U
ETHYLBENZENE	NE	5.4	68.4	0.001	U	0.00085	U	0.00084	U	0.0011	U	0.00091	U	0.00085	U
ISOPROPYLBENZENE	NE	2100	2430	0.0011	U	0.00094	U	0.00092	U	0.0012	U	0.001	U	0.00093	U
METHYL ACETATE	NE	78000	78200	0.012	U	0.011	U	0.011	U	0.014	U	0.011	U	0.011	U
METHYL ETHYL KETONE	NE	28000	37100	0.0061	U	0.0052	U	0.0051	U	0.0068	U	0.0056	U	0.0052	U
METHYL ISOBUTYL KETONE	NE	5300	5820	0.0055	U	0.0047	U	0.0046	U	0.0062	U	0.005	U	0.0047	U
METHYLCYCLOHEXANE	NE	5630	5630	0.0013	U	0.0011	U	0.0011	U	0.0015	U	0.0012	U	0.0011	UJ
METHYLENE CHLORIDE	NE	56	409	0.0046	U	0.0039	U	0.0039	U	0.0052	U	0.0042	U	0.0039	U
STYRENE	NE	6300	7280	0.0026	U	0.0022	U	0.0022	U	0.0029	U	0.0024	U	0.0022	U
TERT-BUTYL METHYL ETHER	NE	43	901	0.002	U	0.0017	U	0.0017	U	0.0022	U	0.0018	U	0.0017	U
TETRACHLOROETHYLENE	NE	22	7.02	0.001	U	0.00085	U	0.00084	U	0.0011	U	0.00091	U	0.00085	U
TOLUENE	NE	5000	5270	0.0012	U	0.001	U	0.001	U	0.0013	U	0.0011	U	0.001	U
TRANS-1,2-DICHLOROETHENE	NE	150	270	0.0015	U	0.0013	U	0.0013	U	0.0017	U	0.0014	U	0.0013	U

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			Sample Date	7/24/2012		7/24/2012		7/25/2012		7/25/2012		7/25/2012		7/25/2012	
			Location	Station 1, Southwest corner, UST pit		Station 1, Southwest corner, UST pit		Station 2, Center, UST pit		Station 3, Southeast corner, UST pit		Station 4, East wall, UST pit		Station 5, West wall, UST pit	
			Depth (ft bgs)	10-11		14 - 15		15 - 16		15 - 16		15 - 16		14 - 15	
	Background Values - Soil [a]	**EPA RSL - Residential Soil [b]**	**NMED SSL - Residential Soil [c]**	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
VOLATILES - continued (mg/kg)															
TRANS-1,3-DICHLOROPROPENE	NE	NE	NE	0.0011	U	0.00094	U	0.00092	U	0.0012	U	0.001	U	0.00093	UJ
TRICHLOROETHYLENE	NE	0.91	8.77	0.0012	U	0.001	U	0.001	U	0.0013	U	0.0011	U	0.001	U
TRICHLOROFLUOROMETHANE	NE	790	1410	0.002	U	0.0017	U	0.0017	U	0.0022	U	0.0018	U	0.0017	U
VINYL CHLORIDE	NE	0.06	0.728	0.0015	U	0.0013	U	0.0013	U	0.0017	U	0.0014	U	0.0013	U
XYLENES, TOTAL	NE	630	814	0.0032	U	0.0027	U	0.0027	U	0.0036	U	0.0029	U	0.0027	UJ
SEMIVOLATILES (mg/kg)															
2,2'-OXYBIS(1-CHLORO)PROPANE	NE	NE	NE	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
2,4,5-TRICHLOROPHENOL	NE	6100	6110	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
2,4,6-TRICHLOROPHENOL	NE	44	61.1	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
2,4-DICHLOROPHENOL	NE	180	183	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
2,4-DIMETHYLPHENOL	NE	1200	1220	0.024	U	0.025	U	0.025	U	0.025	U	0.025	U	0.026	U
2,4-DINITROPHENOL	NE	120	122	0.38	U	0.4	U	0.4	U	0.39	U	0.4	U	0.41	U
2,4-DINITROTOLUENE	NE	1.6	15.7	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
2,6-DINITROTOLUENE	NE	61	61.1	0.022	U	0.024	U	0.024	U	0.023	U	0.023	U	0.024	U
2-CHLORONAPHTHALENE	NE	6300	6260	0.038	U	0.04	U	0.04	U	0.039	U	0.04	U	0.041	U
2-CHLOROPHENOL	NE	390	391	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
2-METHYLNAPHTHALENE	NE	230	NE	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
2-METHYLPHENOL	NE	3100	NE	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
2-NITROANILINE	NE	610	NE	0.038	U	0.04	U	0.04	U	0.039	U	0.04	U	0.041	U
2-NITROPHENOL	NE	NE	NE	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
3,3'-DICHLOROBENZIDINE	NE	1.1	10.8	0.038	U	0.04	U	0.04	U	0.039	U	0.04	U	0.041	U
3-NITROANILINE	NE	NE	NE	0.038	U	0.04	U	0.04	U	0.039	U	0.04	U	0.041	U
4,6-DINITRO-2-METHYLPHENOL	NE	4.9	4.89	0.076	U	0.081	U	0.08	U	0.079	U	0.079	U	0.081	U
4-BROMOPHENYL PHENYL ETHER	NE	NE	NE	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
4-CHLORO-3-METHYLPHENOL	NE	6100	NE	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
4-CHLOROANILINE	NE	2.4	NE	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
4-CHLOROPHENYL PHENYL ETHER	NE	NE	NE	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
4-NITROANILINE	NE	24	NE	0.038	U	0.04	U	0.04	U	0.039	U	0.04	U	0.041	U
4-NITROPHENOL	NE	NE	NE	0.15	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U
ACENAPHTHENE	NE	3400	3440	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
ACENAPHTHYLENE	NE	NE	NE	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
ACETOPHENONE	NE	7800	7820	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
ANTHRACENE	NE	17000	17200	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
ATRAZINE	NE	2.1	NE	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
BENZALDEHYDE	NE	7800	NE	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
BENZO(A)ANTHRACENE	NE	0.15	1.48	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U

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			Sample Date	7/24/2012		7/24/2012		7/25/2012		7/25/2012		7/25/2012		7/25/2012	
			Location	Station 1, Southwest corner, UST pit		Station 1, Southwest corner, UST pit		Station 2, Center, UST pit		Station 3, Southeast corner, UST pit		Station 4, East wall, UST pit		Station 5, West wall, UST pit	
			Depth (ft bgs)	10-11		14 - 15		15 - 16		15 - 16		15 - 16		14 - 15	
	Background Values - Soil [a]	**EPA RSL - Residential Soil [b]**	**NMED SSL - Residential Soil [c]**	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
SEMIVOLATILES - continued (mg/kg)															
BENZO(A)PYRENE	NE	0.015	0.148	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
BENZO(B)FLUORANTHENE	NE	0.15	1.48	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
BENZO(G,H,I)PERYLENE	NE	NE	NE	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
BENZO(K)FLUORANTHENE	NE	1.5	14.8	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
BENZYL BUTYL PHTHALATE	NE	260	NE	0.038	U	0.04	U	0.04	U	0.039	U	0.04	U	0.041	U
BIPHENYL	NE	51	57.1	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
BIS(2-CHLOROETHOXY) METHANE	NE	180	NE	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
BIS(2-CHLOROETHYL) ETHER	NE	0.21	2.68	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
BIS(2-ETHYLHEXYL) PHTHALATE	NE	35	347	0.076	U	0.081	U	0.08	U	0.079	U	0.079	U	0.081	U
CAPROLACTAM	NE	31000	NE	0.061	U	0.065	U	0.064	U	0.063	U	0.063	U	0.065	U
CARBAZOLE	NE	NE	NE	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
CHRYSENE	NE	15	148	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
DIBENZ(A,H)ANTHRACENE	NE	0.015	0.148	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
DIBENZOFURAN	NE	78	NE	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
DIETHYL PHTHALATE	NE	49000	48900	0.076	U	0.081	U	0.08	U	0.079	U	0.079	U	0.081	U
DIMETHYL PHTHALATE	NE	611000	611000	0.038	U	0.04	U	0.04	U	0.039	U	0.04	U	0.041	U
DI-N-BUTYL PHTHALATE	NE	6100	6110	0.076	U	0.081	U	0.08	U	0.079	U	0.079	U	0.081	U
DI-N-OCTYLPHTHALATE	NE	730	NE	0.038	U	0.04	U	0.04	U	0.039	U	0.04	U	0.041	U
FLUORANTHENE	NE	2300	2290	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
FLUORENE	NE	2300	2290	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
HEXACHLOROBENZENE	NE	0.3	3.04	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
HEXACHLOROBUTADIENE	NE	6.2	61.1	0.038	U	0.04	U	0.04	U	0.039	U	0.04	U	0.041	U
HEXACHLOROCYCLOPENTADIENE	NE	370	367	0.083	U	0.089	U	0.088	U	0.087	U	0.087	U	0.089	U
HEXACHLOROETHANE	NE	12	42.8	0.038	U	0.04	U	0.04	U	0.039	U	0.04	U	0.041	U
INDENO(1,2,3-C,D)PYRENE	NE	0.15	1.48	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
ISOPHORONE	NE	510	5120	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
M,P-CRESOL	NE	NE	NE	0.027	U	0.029	U	0.029	U	0.028	U	0.028	U	0.029	U
NAPHTHALENE	NE	3.6	43.0	0.03	U	0.032	U	0.032	U	0.032	U	0.032	U	0.033	U
NITROBENZENE	NE	4.8	53.5	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
N-NITROSODI-N-PROPYLAMINE	NE	0.069	NE	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
N-NITROSODIPHENYLAMINE	NE	99	993	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
PENTACHLOROPHENOL	NE	0.89	8.94	0.23	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
PHENANTHRENE	NE	1830	1830	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
PHENOL	NE	18000	18300	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
PYRENE	NE	1700	1720	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U

Table 4
Soil Analytical Data
AOC-UST-1272 - Building 1272 (TU/US-C507) CAC Petition
Holloman Air Force Base, New Mexico

Value exceeds NMED SSL - Residential Soil
Value exceeds EPA RSL - Residential Soil
Bold = parameter detected

[a] *NMED, 2012. "Correction, Approved Basewide Background Levels, Holloman Air Force Base, EPA ID# NM6572124422, HWB-HAFB-09-004," Letter to D. Scruggs, Chief, Environmental Restoration Program, HAFB from J.E. Kieling, Acting Chief, Hazardous Waste Bureau, NMED, March 1.*

[b] *EPA, 2012. Regional Screening Levels for Chemical Contaminants at Superfund Sites, November 2012 Update.*

[c] *NMED, 2012. Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, February, Table A-1, updated June 2012.*

[d] *The background concentration is Total Chromium and the screening levels are Chromium (III).*

dup = duplicate sample
ft bgs = feet below ground surface
EPA = U.S. Environmental Protection Agency
J = estimated value
mg/kg = milligrams per kilogram
NE = Not established
NMED = New Mexico Environment Department
RCRA = Resource Conservation and Recovery Act
RFI = RCRA Facility Investigation
RSL = Regional Screening Level
SSL = Soil Screening Level
U = not detected at the detection limit shown
UST = underground storage tank
VQ = validation qualifier

Table 5
Soil Analytical Data
AOC-UST-2395 - Building 2395 (TU/US-C502) CAC Petition
Holloman Air Force Base, New Mexico

Analyte			Sample Number	USTC502-CS-0001-092612		USTC502-CS-0002-092612		USTC502-CS-0003-092612		USTC502-CS-0004-092612	
			Sample Date	9/26/2012		9/26/2012		9/26/2012		9/26/2012	
			Location	Station 1, UST pit, south side		Station 2, UST pit, north side		Station 3, UST pit, west side		Station 4, UST pit, east side	
			Depth (ft bgs)	8 - 10 FT		8 - 10 FT		8 - 10 FT		8 - 10 FT	
	Background Values - Soil [a]	**EPA RSL - Residential Soil [b]**	**NMED SSL - Residential Soil [c]**	Result	VQ	Result	VQ	Result	VQ	Result	VQ
PERCENT SOLIDS				**76.4**		**75.7**		**78.4**		**77.3**	
METALS (mg/kg)											
ALUMINUM	13722	77000	78000	**3940**	J	**5000**	J	**3780**		**8380**	
ANTIMONY	1.6	31	31.3	1	UJ	1.2	UJ	1.2	U	1.1	U
ARSENIC	3.7	0.39	3.90	**1.6**	J	**1.1**	J	0.98	U	**2.4**	J
BARIUM	169	15000	15600	**76.9**	J	**56.6**	J	**53.2**	J	**124**	
BERYLLIUM	1.6	160	156	0.27	U	0.32	U	0.31	U	**0.42**	J
CADMIUM	0.3	70	70.3	0.27	U	0.32	U	0.31	U	0.28	U
CALCIUM	317332	NE	NE	**299000**	J	**227000**		**198000**		**274000**	
CHROMIUM[d]	25	117000	117000	**3.9**	J	**4.5**	J	**4.1**	J	**8.9**	
COBALT	7.7	23	NE	**1.3**	J	**1.4**	J	**1.5**	J	**2.6**	J
COPPER	13	3100	3130	**3.1**	J	**3.2**	J	**2.8**	J	**4.8**	J
IRON	23049	55000	54800	**3550**	J	**3930**	J	**3380**		**7240**	
LEAD	10.9	400	400	**2.8**	J	**1.7**	J	0.67	U	**3.8**	J
MAGNESIUM	16991	NE	NE	**3910**	J	**10800**		**4450**		**9550**	
MANGANESE	393	1800	1860	**41.9**	J	**38.6**		**64.3**		**88.3**	
MERCURY	0.0108	10	15.6	0.0051	U	0.005	U	0.0048	U	0.005	U
NICKEL	17.4	1500	1560	**3.2**	J	**3.9**	J	**2.9**	J	**6.4**	J
POTASSIUM	5077	NE	NE	**942**	J	**1290**	J	**962**	J	**2090**	J
SELENIUM	1.4	390	391	1.6	U	1.9	U	1.8	U	1.7	U
SILVER	1.1	390	391	0.27	U	0.32	U	0.31	U	0.28	U
SODIUM	5196	NE	NE	**331**	J	**387**	J	**368**	J	**459**	J
THALLIUM	1.3	0.78	0.782	**1.4**	J	**2**	J	1.1	U	1	U
VANADIUM	42.6	390	391	**12.5**	J	**13.3**	J	**10.8**	J	**21.8**	J
ZINC	54.6	23000	23500	**8.4**	J	**9.2**	J	**9.3**	J	**19.9**	
PETROLEUM HYDROCARBONS (mg/kg)											
GASOLINE RANGE ORGANICS C6-C10	NE	NE	1000	4	U	4.1	U	3.5	U	3	U
DIESEL RANGE ORGANICS C10-C28	NE	NE	1000	4.4	U	4.3	U	4.2	U	4.3	U
OIL RANGE ORGANICS C28-C40	NE	NE	1000	4.4	U	4.3	U	4.2	U	4.3	U
VOLATILES (mg/kg)											
1,1,1-TRICHLOROETHANE	NE	8700	15600	0.0011	U	0.00087	U	0.00081	U	0.00094	U
1,1,2,2-TETRACHLOROETHANE	NE	0.56	8.02	0.0011	U	0.00087	U	0.00081	U	0.00094	U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	NE	43000	72100	0.0017	U	0.0013	U	0.0012	U	0.0014	U
1,1,2-TRICHLOROETHANE	NE	1.1	2.81	0.0011	U	0.00087	U	0.00081	U	0.00094	U
1,1-DICHLOROETHANE	NE	3.3	64.5	0.0011	U	0.00087	U	0.00081	U	0.00094	U
1,1-DICHLOROETHENE	NE	240	449	0.0014	U	0.0011	U	0.00099	U	0.0011	U
1,2,4-TRICHLOROBENZENE	NE	22	73.0	0.0014	U	0.001	U	0.00096	U	0.0011	U
1,2-DIBROMO-3-CHLOROPROPANE	NE	0.0054	1.86	0.0029	U	0.0022	U	0.002	U	0.0023	U
1,2-DIBROMOETHANE	NE	0.034	0.588	0.0011	U	0.00087	U	0.00081	U	0.00094	U
1,2-DICHLOROBENZENE	NE	1900	2310	0.0012	U	0.00095	U	0.00089	U	0.001	U

Table 5
Soil Analytical Data
AOC-UST-2395 - Building 2395 (TU/US-C502) CAC Petition
Holloman Air Force Base, New Mexico

Analyte	Background Values - Soil [a]	EPA RSL - Residential Soil [b]	NMED SSL - Residential Soil [c]	USTC502-CS-0001-092612		USTC502-CS-0002-092612		USTC502-CS-0003-092612		USTC502-CS-0004-092612	
			Sample Date	9/26/2012		9/26/2012		9/26/2012		9/26/2012	
			Location	Station 1, UST pit, south side		Station 2, UST pit, north side		Station 3, UST pit, west side		Station 4, UST pit, east side	
			Depth (ft bgs)	8 - 10 FT		8 - 10 FT		8 - 10 FT		8 - 10 FT	
				Result	VQ	Result	VQ	Result	VQ	Result	VQ
VOLATILES - continued (mg/kg)											
1,2-DICHLOROETHANE	NE	0.43	7.89	0.0014	U	0.001	U	0.00098	U	0.0011	U
1,2-DICHLOROPROPANE	NE	0.94	15.2	0.0011	U	0.00087	U	0.00081	U	0.00094	U
1,3-DICHLOROBENZENE	NE	NE	NE	0.0011	U	0.00087	U	0.00081	U	0.00094	U
1,4-DICHLOROBENZENE	NE	2.4	31.7	0.0015	U	0.0011	U	0.0011	U	0.0012	U
2-HEXANONE	NE	210	NE	0.0057	U	0.0044	U	0.0041	U	0.0047	U
ACETONE	NE	61000	66600	0.023	U	0.017	U	0.016	U	0.019	U
BENZENE	NE	1.1	15.4	0.0011	U	0.00087	U	0.00081	U	0.00094	U
BROMODICHLOROMETHANE	NE	0.27	5.41	0.0016	U	0.0012	U	0.0011	U	0.0013	U
BROMOFORM	NE	62	616	0.0011	U	0.00087	U	0.00081	U	0.00094	U
BROMOMETHANE	NE	7.3	16.5	0.0023	U	0.0017	U	0.0016	U	0.0019	U
CARBON DISULFIDE	NE	820	1530	0.0023	U	0.0017	U	0.0016	U	0.0019	U
CARBON TETRACHLORIDE	NE	0.61	10.8	0.0013	U	0.001	U	0.00093	U	0.0011	U
CHLOROBENZENE	NE	290	376	0.0011	U	0.00087	U	0.00081	U	0.00094	U
CHLOROETHANE	NE	15000	29800	0.0023	U	0.0017	U	0.0016	U	0.0019	U
CHLOROFORM	NE	0.29	5.86	0.0011	U	0.00087	U	0.00081	U	0.00094	U
CHLOROMETHANE	NE	120	275	0.0024	U	0.0018	U	0.0017	U	0.0019	U
CIS-1,2-DICHLOROETHYLENE	NE	160	156	0.0011	U	0.00087	U	0.00081	U	0.00094	U
CIS-1,3-DICHLOROPROPENE	NE	NE	NE	0.0011	U	0.00087	U	0.00081	U	0.00094	U
CYCLOHEXANE	NE	7000	NE	0.0011	U	0.00087	U	0.00081	U	0.00094	U
DIBROMOCHLOROMETHANE	NE	0.68	12.1	0.0011	U	0.00087	U	0.00081	U	0.00094	U
DICHLORODIFLUOROMETHANE	NE	94	168	0.0011	U	0.00087	U	0.00081	U	0.00094	U
ETHYLBENZENE	NE	5.4	68.4	0.0013	U	0.00096	U	0.00089	U	0.001	U
ISOPROPYLBENZENE	NE	2100	2430	0.0015	U	0.0012	U	0.0011	U	0.0012	U
METHYL ACETATE	NE	78000	78200	0.013	U	0.0096	U	0.0089	U	0.01	U
METHYL ETHYL KETONE	NE	28000	37100	0.0057	U	0.0044	U	0.0041	U	0.0047	U
METHYL ISOBUTYL KETONE	NE	5300	5820	0.0057	U	0.0044	U	0.0041	U	0.0047	U
METHYLCYCLOHEXANE	NE	5630	5630	0.0011	U	0.00087	U	0.00081	U	0.00094	U
METHYLENE CHLORIDE	NE	56	409	0.0052	U	0.004	U	0.0037	U	0.0043	U
STYRENE	NE	6300	7280	0.0011	U	0.00087	U	0.00081	U	0.00094	U
TERT-BUTYL METHYL ETHER	NE	43	901	0.0011	U	0.00087	U	0.00081	U	0.00094	U
TETRACHLOROETHYLENE	NE	22	7.02	0.0013	U	0.001	U	0.00094	U	0.0011	U
TOLUENE	NE	5000	5270	0.0011	U	0.00087	U	0.00081	U	0.00094	U
TRANS-1,2-DICHLOROETHENE	NE	150	270	0.0011	U	0.00087	U	0.00081	U	0.00094	U
TRANS-1,3-DICHLOROPROPENE	NE	NE	NE	0.0011	U	0.00087	U	0.00081	U	0.00094	U
TRICHLOROETHYLENE	NE	0.91	8.77	0.0011	U	0.00087	U	0.00081	U	0.00094	U
TRICHLOROFLUOROMETHANE	NE	790	1410	0.0023	U	0.0017	U	0.0016	U	0.0019	U
VINYL CHLORIDE	NE	0.06	0.728	0.0011	U	0.00087	U	0.00081	U	0.00094	U
XYLENES, TOTAL	NE	630	814	0.0035	U	0.0027	U	0.0025	U	0.0029	U

Table 5
Soil Analytical Data
AOC-UST-2395 - Building 2395 (TU/US-C502) CAC Petition
Holloman Air Force Base, New Mexico

Analyte			Sample Number	USTC502-CS-0001-092612		USTC502-CS-0002-092612		USTC502-CS-0003-092612		USTC502-CS-0004-092612	
			Sample Date	9/26/2012		9/26/2012		9/26/2012		9/26/2012	
			Location	Station 1, UST pit, south side		Station 2, UST pit, north side		Station 3, UST pit, west side		Station 4, UST pit, east side	
			Depth (ft bgs)	8 - 10 FT		8 - 10 FT		8 - 10 FT		8 - 10 FT	
	Background Values - Soil [a]	**EPA RSL - Residential Soil [b]**	**NMED SSL - Residential Soil [c]**	Result	VQ	Result	VQ	Result	VQ	Result	VQ
SEMIVOLATILES (mg/kg)											
2,2'-OXYBIS(1-CHLORO)PROPANE	NE	NE	NE	0.025	U	0.025	U	0.024	U	0.025	U
2,4,5-TRICHLOROPHENOL	NE	6100	6110	0.026	U	0.026	U	0.025	U	0.026	U
2,4,6-TRICHLOROPHENOL	NE	44	61.1	0.028	U	0.028	U	0.027	U	0.028	U
2,4-DICHLOROPHENOL	NE	180	183	0.025	U	0.024	U	0.024	U	0.024	U
2,4-DIMETHYLPHENOL	NE	1200	1220	0.032	U	0.032	U	0.031	U	0.032	U
2,4-DINITROPHENOL	NE	120	122	0.22	U	0.22	U	0.21	U	0.22	U
2,4-DINITROTOLUENE	NE	1.6	15.7	0.023	U	0.022	U	0.022	U	0.022	U
2,6-DINITROTOLUENE	NE	61	61.1	0.027	U	0.026	U	0.025	U	0.026	U
2-CHLORONAPHTHALENE	NE	6300	6260	0.029	U	0.028	U	0.027	U	0.028	U
2-CHLOROPHENOL	NE	390	391	0.026	U	0.025	U	0.025	U	0.025	U
2-METHYLNAPHTHALENE	NE	230	NE	0.026	U	0.025	U	0.024	U	0.025	U
2-METHYLPHENOL	NE	3100	NE	0.027	U	0.027	U	0.026	U	0.027	U
2-NITROANILINE	NE	610	NE	0.032	U	0.032	U	0.031	U	0.032	U
2-NITROPHENOL	NE	NE	NE	0.033	U	0.032	U	0.031	U	0.032	U
3,3'-DICHLOROBENZIDINE	NE	1.1	10.8	0.037	U	0.036	U	0.035	U	0.036	U
3-NITROANILINE	NE	NE	NE	0.031	U	0.03	U	0.03	U	0.03	U
4,6-DINITRO-2-METHYLPHENOL	NE	4.9	4.89	0.088	U	0.087	U	0.084	U	0.087	U
4-BROMOPHENYL PHENYL ETHER	NE	NE	NE	0.028	U	0.028	U	0.027	U	0.028	U
4-CHLORO-3-METHYLPHENOL	NE	6100	NE	0.024	U	0.024	U	0.023	U	0.024	U
4-CHLOROANILINE	NE	2.4	NE	0.033	U	0.033	U	0.032	U	0.033	U
4-CHLOROPHENYL PHENYL ETHER	NE	NE	NE	0.023	U	0.023	U	0.022	U	0.023	U
4-NITROANILINE	NE	24	NE	0.047	U	0.046	U	0.045	U	0.046	U
4-NITROPHENOL	NE	NE	NE	0.18	U	0.17	U	0.17	U	0.17	U
ACENAPHTHENE	NE	3400	3440	0.026	U	0.026	U	0.025	U	0.026	U
ACENAPHTHYLENE	NE	NE	NE	0.025	U	0.025	U	0.024	U	0.025	U
ACETOPHENONE	NE	7800	7820	0.026	U	0.026	U	0.025	U	0.026	U
ANTHRACENE	NE	17000	17200	0.022	U	0.022	U	0.021	U	0.022	U
ATRAZINE	NE	2.1	NE	0.022	U	0.022	U	0.021	U	0.022	U
BENZALDEHYDE	NE	7800	NE	0.22	U	0.22	U	0.21	U	0.22	U
BENZO(A)ANTHRACENE	NE	0.15	1.48	0.022	U	0.022	U	0.021	U	0.022	U
BENZO(A)PYRENE	NE	0.015	0.148	0.022	U	0.022	U	0.021	U	0.022	U
BENZO(B)FLUORANTHENE	NE	0.15	1.48	0.022	U	0.022	U	0.021	U	0.022	U
BENZO(G,H,I)PERYLENE	NE	NE	NE	0.022	U	0.022	U	0.021	U	0.022	U
BENZO(K)FLUORANTHENE	NE	1.5	14.8	0.026	U	0.026	U	0.025	U	0.026	U
BENZYL BUTYL PHTHALATE	NE	260	NE	0.044	U	0.043	U	0.042	U	0.043	U
BIPHENYL	NE	51	57.1	0.03	U	0.029	U	0.028	U	0.029	U
BIS(2-CHLOROETHOXY) METHANE	NE	180	NE	0.031	U	0.03	U	0.029	U	0.03	U
BIS(2-CHLOROETHYL) ETHER	NE	0.21	2.68	0.03	U	0.029	U	0.028	U	0.029	U
BIS(2-ETHYLHEXYL) PHTHALATE	NE	35	347	0.044	U	0.043	U	0.042	U	**0.182**	J

Table 5
Soil Analytical Data
AOC-UST-2395 - Building 2395 (TU/US-C502) CAC Petition
Holloman Air Force Base, New Mexico

Analyte	Background Values - Soil [a]	EPA RSL - Residential Soil [b]	NMED SSL - Residential Soil [c]	USTC502-CS-0001-092612		USTC502-CS-0002-092612		USTC502-CS-0003-092612		USTC502-CS-0004-092612	
			Sample Date	9/26/2012		9/26/2012		9/26/2012		9/26/2012	
			Location	Station 1, UST pit, south side		Station 2, UST pit, north side		Station 3, UST pit, west side		Station 4, UST pit, east side	
			Depth (ft bgs)	8 - 10 FT		8 - 10 FT		8 - 10 FT		8 - 10 FT	
				Result	VQ	Result	VQ	Result	VQ	Result	VQ
SEMIVOLATILES - continued (mg/kg)											
CAPROLACTAM	NE	31000	NE	0.024	U	0.024	U	0.023	U	0.024	U
CARBAZOLE	NE	NE	NE	0.024	U	0.024	U	0.023	U	0.024	U
CHRYSENE	NE	15	148	0.022	U	0.022	U	0.021	U	0.022	U
DIBENZ(A,H)ANTHRACENE	NE	0.015	0.148	0.022	U	0.022	U	0.021	U	0.022	U
DIBENZOFURAN	NE	78	NE	0.022	U	0.022	U	0.021	U	0.022	U
DIETHYL PHTHALATE	NE	49000	48900	0.044	U	0.043	U	0.042	U	0.043	U
DIMETHYL PHTHALATE	NE	611000	611000	0.044	U	0.043	U	0.042	U	0.043	U
DI-N-BUTYL PHTHALATE	NE	6100	6110	0.044	U	0.043	U	0.042	U	0.043	U
DI-N-OCTYLPHTHALATE	NE	730	NE	0.044	U	0.043	U	0.042	U	0.043	U
FLUORANTHENE	NE	2300	2290	0.022	U	0.022	U	0.021	U	0.022	U
FLUORENE	NE	2300	2290	0.024	U	0.024	U	0.023	U	0.024	U
HEXACHLOROBENZENE	NE	0.3	3.04	0.022	U	0.022	U	0.021	U	0.022	U
HEXACHLOROBUTADIENE	NE	6.2	61.1	0.024	U	0.024	U	0.023	U	0.024	U
HEXACHLOROCYCLOPENTADIENE	NE	370	367	0.03	U	0.03	U	0.029	U	0.03	U
HEXACHLOROETHANE	NE	12	42.8	0.025	U	0.025	U	0.024	U	0.024	U
INDENO(1,2,3-C,D)PYRENE	NE	0.15	1.48	0.022	U	0.022	U	0.021	U	0.022	U
ISOPHORONE	NE	510	5120	0.024	U	0.024	U	0.023	U	0.024	U
M,P-CRESOL	NE	NE	NE	0.046	U	0.045	U	0.044	U	0.045	U
NAPHTHALENE	NE	3.6	43.0	0.022	U	0.022	U	0.021	U	0.022	U
NITROBENZENE	NE	4.8	53.5	0.032	U	0.032	U	0.031	U	0.031	U
N-NITROSODI-N-PROPYLAMINE	NE	0.069	NE	0.024	U	0.024	U	0.023	U	0.024	U
N-NITROSODIPHENYLAMINE	NE	99	993	0.044	U	0.043	U	0.042	U	0.043	U
PENTACHLOROPHENOL	NE	0.89	8.94	0.18	U	0.17	U	0.17	U	0.17	U
PHENANTHRENE	NE	1830	1830	0.022	U	0.022	U	0.021	U	0.022	U
PHENOL	NE	18000	18300	0.036	U	0.035	U	0.034	U	0.035	U
PYRENE	NE	1700	1720	0.022	U	0.022	U	0.021	U	0.022	U

Table 5
Soil Analytical Data
AOC-UST-2395 - Building 2395 (TU/US-C502) CAC Petition
Holloman Air Force Base, New Mexico

Value exceeds NMED SSL - Residential Soil
Value exceeds EPA RSL - Residential Soil
Bold = parameter detected

[a] *NMED, 2012. "Correction, Approved Basewide Background Levels, Holloman Air Force Base, EPA ID# NM6572124422, HWB-HAFB-09-004," Letter to D. Scruggs, Chief, Environmental Restoration Program, HAFB from J.E. Kieling, Acting Chief, Hazardous Waste Bureau, NMED, March 1.*

[b] *EPA, 2012. Regional Screening Levels for Chemical Contaminants at Superfund Sites, November 2012 Update.*

[c] *NMED, 2012. Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, February, Table A-1, updated June 2012.*

[d] *The background concentration is Total Chromium and the screening levels are Chromium (III).*

EPA = U.S. Environmental Protection Agency
ft bgs = feet below ground surface
J = estimated value
mg/kg = milligrams per kilogram
NMED = New Mexico Environment Department
RCRA = Resource Conservation and Recovery Act
RFI = RCRA Facility Investigation
RSL = Regional Screening Level
SSL = Soil Screening Level
U = not detected at the detection limit shown
UST = underground storage tank
VQ = validation qualifier