DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 49TH WING (ACC)
HOLLOMAN AIR FORCE BASE NEW MEXICO

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Hazardous Waste Bureau

02 August 2016

ADAM M. KUSMAK, GS-13, USAF
Chief, Installation Management Flight (49 CES/CEI)
49th Civil Engineering Squadron (49 CES)
550 Tabosa Avenue
Holloman AFB, NM 88330-8458

New Mexico Environment Department
Attn: Mr. John Kieling, Chief
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

Dear Mr. Kieling,

Holloman Air Force Base (AFB) is pleased to submit the *Final Class 3 Permit Modification Request/ Corrective Action Complete Petition Group 3 – Underground Storage Tank Site, AOC-UST-1097 – Building 1097 (UST No. TU/US-C505)*. This petition requests a Class 3 Permit Modification to change the status of AOC-UST-1097 from Corrective Action Required to Corrective Action Complete without Controls. In conjunction with the Class 3 Permit Modification request, Holloman AFB will fulfill the required public participation requirement, as required by the New Mexico Hazardous Waste Regulations and as detailed in Title 40 Code of Federal Regulations Part 270.42(c).

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 adam.kusmak@us.af.mil.

Sincerely

Digitally signed by KUSMAK.ADAM.M.1263331806
DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USAF, cn=KUSMAK.ADAM.M.1263331806
Date: 2016.07.28 13:05:35 -06'00'

ADAM KUSMAK, GS-13, USAF

cc:

(w/ Atch)
Mr. David Strasser
Hazardous Waste Bureau
121 Tijeras Dr. NE, Ste. 1000
Albuquerque NM 87102-3400

(w/o Atch)
Mr. Cornelius Amindyas
Hazardous Waste Bureau
121 Tijeras Dr. NE, Ste. 1000
Albuquerque NM 87102-3400

(w/ CD)
Mr. Chuck Hendrickson
USEPA Region 6 (6PD-F)
1445 Ross Ave, Ste 1200
Dallas TX 75202-2750

(w/o Atch)
Mr. Brian Salem
Hazardous Waste Bureau
121 Tijeras Dr. NE, Ste. 1000
Albuquerque NM 87102-3400

Final

Class 3 Permit Modification Request

Corrective Action Complete Petition
Group 3 – Underground Storage Tank Site
AOC-UST-1097 – Building 1097
(UST No. TU/US-C505)
Holloman Air Force Base, New Mexico

Prepared for U.S. Air Force Civil Engineer Center
2261 Hughes Avenue, Suite 155
Lackland Air Force Base, Texas 78236-9861

Prepared by CB&I Federal Services LLC
10777 Westheimer Road, Suite 170
Houston, Texas 77042

Contract No. FA8903-09-D-8580
Task Order No. 0013
Project No. 144106
Rev 1

Shaw Environmental & Infrastructure, Inc.
(A CB&I Company)

WERC-09-13-080

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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/foot
GRO	gasoline range organics
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
PMR	Permit Modification Request
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
VCM	Voluntary Corrective Measure
VOC	volatile organic compound
WQS	water quality standards

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1.0 INTRODUCTION

Holloman Air Force Base (AFB) (the Permittee) is submitting this Class 3 Permit Modification Request (PMR)/ Corrective Action Complete (CAC) Petition to document completion of corrective action activities for one Area of Concern (AOC), identified as AOC-UST-1097. The AFB requests a change in status from Corrective Action Required to CAC without Controls from the New Mexico Environment Department (NMED) for one former petroleum underground storage tank (UST) site, which is identified as AOC-UST-1097 in the Permittee's Resource Conservation and Recovery Act (RCRA) Part B Permit (NMED, 2004). This request is submitted pursuant to Title 40 Code of Federal Regulations (CFR) Part 270.42(c) of the Hazardous and Solid Waste Amendments of 1984 and 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).

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 Solid Waste Management Units (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. If the Permit modification is approved, AOC-UST-1097 would move from Table A to Table B. The location of this former UST site at Holloman AFB is shown on Figure 1 of Attachment 2 and analytical data for this site are provided in Attachment 3.

The June 2012 version of Tables A and B are the most recent publicly available tables and are provided in Attachment 1. However, Table A was later modified per an NMED letter dated October 29, 2012 (NMED, 2012c). The letter is included in Attachment 1.

1.1 Permit Modification Process

Holloman AFB has submitted this Class 3 PMR/ CAC Petition in response to a 03 June 2016 letter from the NMED. In this letter, the NMED stated that "no further investigation is required at this site," and that Holloman AFB "may request a Class 3 Permit modification for Corrective Action Complete without Controls for Building 1097 (TU/US-C505) in accordance with 40 C.F.R. § 270.42(c)." The letter is discussed further in Section 2.4.4.

Submittal of the CAC Petition/ Class 3 PMR by Holloman AFB and its approval by NMED are necessary to change the status AOC-UST-1097 from Corrective Action Required to CAC without Controls. The process is summarized below.

1.1.1 Holloman AFB

The process begins with Holloman AFB's submittal of this CAC Petition, which requests the Class 3 Permit Modification and provides a summary of AOC-UST-1097, including a site description, site investigation/remediation summary, and the basis of determination for the recommendation of CAC without Controls. This document complies with 40 CFR § 270.42, which stipulates that a specific Class 3 PMR 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:

- Publish a public notice in the *Alamogordo Daily News* within seven days of submitting the petition, and provide a legal affidavit of publication to the NMED. The notice will be published on 31 July 2016. A copy of the text of the public notice is provided in Attachment 4.
- Begin a 60-day public comment period that starts the day the public notice is published in the *Alamogordo Daily News*. The public comment period will extend from 31 July 2016 to 29 September 2016. During this period, comments on the proposed permit modification will be received from the public. These comments can be sent to the NMED at the following address:

  Mr. John Kieling,
  Chief, Hazardous Waste Bureau
  New Mexico Environment Department
  2905 Rodeo Park Drive East, Bldg 1
  Santa Fe, NM 87505-6303
  Phone 505-476-6000
  Fax 505-476-6030
  Ref: AOC-UST-1097 CACP

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- Host a meeting to inform interested members of the public about AOC-UST-1097 and the proposed permit modification. Pursuant to 40 CFR § 270.42(c), the public meeting will be held 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. The proposed date, time, and location of the public meeting is as follows:
  - Date: 15 August 2016
  - Time: 6:00 p.m.
  - Location: Sergeant Willie Estrada Memorial Civic Center, 801 East First Street, Alamogordo, NM
- Place a copy of the Class 3 PMR and supporting documents in a publically accessible location in the vicinity of Holloman AFB. Throughout the 60-day comment period (from 31 July 2016 to 29 September 2016), the CAC Petition may be reviewed at the following location:
  - Alamogordo Public Library, 920 Oregon Avenue, Alamogordo, NM.
  - The library phone number is 575-439-4140.
- Mail a letter and a copy of the public notice text to individuals identified on the facility mailing list of interested persons. Because the list is maintained by the NMED, Holloman AFB will request the list from the NMED.
- Respond inquiries from the public. Inquiries about AOC-UST-1097 may be sent to the following:
- Accept inquiries at the following:

  49th Wing Public Affairs Office
  490 First Street
  Building 29, Suite 1500
  Holloman AFB, NM 88330
  575-572-7381

- Submit a copy of the public meeting slides/handouts and the list of meeting attendees to the NMED, after the meeting. Additionally, this letter will include a copy of the interested persons' letter, facility mailing list of interested persons, and the legal affidavit of publication.
- Pay the document review fee to the NMED Hazardous Waste Bureau, in accordance with 20.4.2.201 NMAC. The fee is listed in 20.4.2.207 NMAC.

When these are completed, Holloman AFB will await action by the NMED. If the NMED issues any letters regarding the Class 3 PMR/ CAC Petition, Holloman AFB will respond to the letter.

1.1.2 NMED Hazardous Waste Bureau

The NMED will receive the Class 3 PMR/ CAC Petition and will receive and compile any comments received during the 60-day public comment period that began with the publication of Holloman AFB's public notice in the *Alamogordo Daily News*.

The NMED will review the Class 3 PMR [20.4.2.201.B(3) NMAC]. This review will also include a review of any comments received during the 60-day public comment period.

At any time after the Class 3 PMR/ CAC Petition has been submitted to the NMED, the NMED may request additional information by letter from Holloman AFB. NMED will publish their intended decision after they have completed their review of the Class 3 PMR. The NMED may approve or deny the Class 3 PMR. The NMED will inform the public and Holloman AFB of their intended decision as follows:

- Send a letter to Holloman AFB announcing their intended decision.
- Publish a public notice in a newspaper that announces the intended decision.
- Publication of the notice will begin a 60-day public comment period.
- Publish a Statement of Basis describing their intended decision and the reasons they approve or deny the Class 3 PMR.
- Publish draft permit tables showing the proposed change to the permit.
- Mail a letter communicating their intended decision to the individuals on the facility mailing list of interested persons.
- Publish the interested persons letter, notice, Statement of Basis, and draft permit tables on the NMED website: https://www.env.nm.gov/HWB/hafbperm.html

After the 60-day public comment period closes, the NMED will finalize their decision on the Class 3 PMR. If they approve the request, the NMED will issue the final permit tables showing that AOC-UST-1097 has been transferred from Table A "the SWMUs and AOCs Requiring Corrective Action" to Table B "SWMUs and AOCs Not Requiring Corrective Action."

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2.0 SITE DESCRIPTION AND INVESTIGATION SUMMARY

This section provides a summary of information including site description, history, previous investigations, and the basis of determination for the recommendation of CAC without Controls for AOC-UST-1097 under this CAC Petition.

2.1 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.

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

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on, or near, the base because of poor groundwater quality. Water use is expected to continue in this manner at Holloman AFB.

2.2 AOC-UST-1097 Site Description

The UST associated with AOC-UST-1097, designated as UST number TU/US-C505, was formerly located at Building 1097. Building 1097 is a communications building in the northeastern portion of the base, and located east of the runway.

Closure records for the Building 1097 UST indicate that a 4-ft diameter by 6-ft long steel UST, with a nominal capacity of 500 gallons and used to store diesel fuel, was removed from the east side of Building 1097 in February 1991. The UST was reportedly in poor condition, and showed signs of leakage. Sample results showed a TPH concentration of 3,930 mg/kg in the soil beneath the tank. The site record does not specifically discuss remediation activities at the Building 1097 UST excavation; however, analytical results of TPH for several bulk soil samples (i.e., 16 soil sample results) show non-detections at a detection limit of 2 mg/kg, presumably indicating that some soil removal was performed.

2.3 Land Use

Holloman AFB will remain active for the foreseeable future. Currently, land use at AOC-UST-1097 is classified as industrial. It is anticipated that land use classification will continue to remain industrial.

2.4 Previous Investigations

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 number FA8903-09-D-8580, Task Order No. 0013, Modification 01). This CAC Petition follows the RCRA Facility Investigation (RFI) and the Voluntary Corrective Measure (VCM) Request work performed under this contract for TU/US-C505. The RFI was implemented to determine the nature and extent of contamination at this site, and was conducted in accordance with the *Final RCRA Facility Investigation Work Plan, Group 3, Nine Former UST Sites, Holloman Air Force Base, New Mexico, February 2012* (Shaw, 2012a). The VCM Request was written to propose recommendations for additional corrective actions, and was submitted concurrently with RFI Work Plan to expedite corrective measures concurrent with RFI activities (Shaw, 2012b).

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

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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 NMAC), or the EPA drinking water maximum contaminant levels (MCL), be used for comparison with measured sample concentrations (EPA, 2012b).

2.4.1 2012 RFI Summary

An RFI was conducted at AOC-UST-1097 to identify the former location of the UST, determine the nature and extent of potential constituents of concern in the soil and groundwater, and evaluate potential risks to human health and the environment. A summary of RFI information is presented in this section. The complete RFI for Building 1097 UST is provided in the document entitled *Final RCRA Facility Investigation Report, Group 3 – Building 1097 (TU/US-C505), Holloman Air Force Base, New Mexico, September 2013* (Shaw, 2013d).

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

- Gathered and reviewed available site historical information
- Identified the location of the former UST using subsurface geophysical methods
- Collected subsurface soil samples using DPT
- Installed monitoring wells and sample groundwater
- Conducted land surveying of soil borings, monitoring wells, and UST excavation area
- Validated the analytical data, and evaluate the nature and extent of COPCs in soil and groundwater
- Performed human health risk and ecological evaluation on impacted media
- Evaluated information, and formulate basis of determination for corrective action complete or for further corrective action, as warranted.

2.4.1.1 Geophysical Investigation Summary

A geophysical investigation was conducted at Building 1097 on June 11, 2012 to determine the former location of UST No. TU/US-C505, associated features, and nearby underground utilities. Results of the geophysical investigation are shown on Figure 5 of Attachment 2.

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2.4.1.2 Soil Investigation Summary

The soil investigation of former UST TU/US-C505 at Building 1097 was initiated on July 26, 2012. A total of 11 soil samples were collected from the nine borings drilled at Building 1097. Table 1 in Attachment 3 contains a summary of collected samples. Soil samples were collected from a depth interval of 6 ft bgs to 8 ft bgs at five soil borings advanced within, and around, the former tank down to depths at, or just below, the bottom level of the former UST. Four soil borings were advanced and sampled for the purpose of installing a total of three groundwater monitoring wells. However, only the first soil boring was completed as a monitoring well (USTC505-MW01). Monitoring wells were not installed in the other borings because of refusal of the drill string to penetrate and/or lack of a sufficient water bearing zone. The locations of the soil borings and monitoring well USTC505-MW01 are shown on Figure 5 of Attachment 2. A summary of the analytical results and regulatory levels for soil samples is presented in Table 2 of Attachment 3.

Soil samples from four of the five soil borings at the tank excavation area displayed no evidence of petroleum-hydrocarbon contamination, and PID readings were all 0.0 ppm. However, soil samples from USTC505-STA4 reported odors in the fill material, as well as in the clay soil immediately below the fill. Soil staining was also observed in the clay at approximately 6.0 ft bgs. PID readings in the USTC505-STA4 fill material were reported to be 4.3 ppm near the ground surface, and 8.9 ppm at approximately 3.5 ft bgs.

There were no VOC, SVOC, TAL metals, 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, low levels of TPH-DRO were detected in UST station samples USTC505-STA1 (4 mg/kg), USTC505-STA4 (11.7 mg/kg), and USTC505-STA5 (8.28 mg/kg), as well as TPH-ORO in the 0.0 to 2.0 ft bgs sample (6.67 mg/kg) from monitoring well Soil Boring No. 3. Very low levels of methylene chloride were detected in the 0.0 to 2.0 ft bgs sample (0.0066 mg/kg), and 21.0 to 23.0 ft bgs sample (0.0048 mg/kg) from monitoring well Soil Boring No. 4.

2.4.1.3 Groundwater Investigation Summary

Monitoring well USTC505-MW01 was installed at the site; however, the well was dry at the time of sampling on August 10, 2012. As a result, groundwater sampling and analysis was not performed due to a lack of a water-bearing zone at the site.

2.4.2 NMED RFI Approval

The Permittee received an NMED letter dated 29 May 2015, “Approval, RCRA Facility Investigation Report, Group 3, Building 1097 (TU/US-C505), September 2013, Holloman Air Force Base.” However, the NMED Approval Letter required that two groundwater monitoring events be performed at Building 1097 (TU/US-C505).

2.4.3 VCM Request

As described in Section 2.4 a concurrent VCM Request was submitted concurrently with the 2012 RFI Work Plan, in the event that remediation would be required. However, based on the RFI results, no soil remediation was needed and no VCM Report was required.

2.4.4 2015 Groundwater Monitoring

In response to the NMED's 29 May 2015 letter, described in Section 2.4.2, two groundwater monitoring events conducted. The first groundwater monitoring event was on 18 November 2015, and the second was on 06 April 2016. In accordance with the RFI Work Plan (Shaw, 2012a), the water level at monitoring well USTC505-MW01 was measured prior to sampling. No groundwater was detected. During the sampling event, several attempts were made to obtain a water level, but the well was dry. Because the well had no measurable groundwater, no groundwater sample could be collected and analyzed.

During the second event on 06 April 2016, the measuring process was repeated. The results were the same. These findings were consistent with the July 2012 sampling events, which are documented in the *RCRA Facility Investigation Report, Group 3, Building 1097 (TU/US-C505), September 2013, Holloman Air Force Base* (Shaw, 2013d). Holloman AFB presented these results in a letter dated 25 May 2016 that concluded that if the well did not contain measurable groundwater; the water level measurement would be considered a sampling event and would meet the requirement of the NMED's 29 May 2015 letter.

2.4.5 NMED Approval to Request Class 3 Permit Modification

The NMED concurred with Holloman AFB's 25 May 2016 letter. In their 03 June 2016 letter, NMED stated that "no further investigation was required at Building 1097 (TU/US-C505)." A copy of the letter is included in Attachment 5. Furthermore, the letter states, "the Permittee may request a Class 3 permit modification for Corrective Action Complete without Controls for this site in accordance with 40 C.F.R. 270.42(c). The Class 3 permit modification process includes requirements for public notice and for providing opportunity for public comment that are mandatory. NMED's preliminary determination that corrective action is complete is subject to NMED's reservation of rights for new information or unknown conditions."

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3.0 BASIS OF DETERMINATION

A determination of a change in status from Corrective Action Required to CAC without Controls is requested for AOC-UST-1097, based the following:

- The UST was removed in February 1991.
- Soil samples were collected and analyzed in 2012. The TPH, VOC, SVOC, and TAL metals results did not exceed any regulatory standards.
- Because no analytes exceeded regulatory standards, no COPCs were selected for soil. Therefore, no health risks are associated with the future residential exposure, current and future commercial/industrial worker exposure, and current and future construction worker exposure scenarios.
- Lack of a water bearing zone beneath the former tank excavation area precluded analysis of groundwater.
- The soil intervals observed and sampled in the subsurface indicated no evidence of migration of petroleum hydrocarbons toward the lower soil horizons.
- Current and future land use is industrial.

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4.0 REFERENCES

Foster Wheeler Environmental Corporation, 2002, *Draft Report for the Remedial Investigation of DP-63 – Disposal Pit 63*, Holloman Air Force Base, New Mexico, December.

NationView-Bhate, 2009, *Basewide Background Study for Holloman AFB*, Revised Final, dated 12-01-09.

New Mexico Environment Department (NMED), 2004, *Resource Conservation and Recovery Act Permit EPA ID NM6572124422 to* U.S. *Department of the Air Force for Holloman Air Force Base*, Hazardous Waste Bureau, New Mexico Environment Department, Santa Fe, New Mexico, February 24, 2004.

New Mexico Environment Department (NMED), 2012a, *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 Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February.

New Mexico Environment Department (NMED), 2012b "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.

New Mexico Environment Department (NMED), 2012c "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-09-004," letter to A. David Budak, Deputy Base Civil Engineer, Holloman Air Force Base from J.E. Kieling, Acting Chief, Hazardous Waste Bureau, New Mexico Environment Department, October 29.

Shaw Environmental & Infrastructure (Shaw), 2012a, *Final RCRA Facility Investigation Work Plan, Group 3, Nine Former UST Sites, Holloman Air Force Base, New Mexico*, Contract No. FA8903-09-D-8580, Task Order No. 0013, Modification 01, Project No. 144106, Revision 0, February.

Shaw Environmental & Infrastructure (Shaw), 2012b, *Final Voluntary Corrective Measure Request, Group 3, Nine Former UST Sites, Holloman Air Force Base, New Mexico*, Contract No. FA8903-09-D-8580, Task Order No. 0013, Modification 01, Project No. 144106, Revision 0, February.

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FINAL CORRECTIVE ACTION COMPLETE PETITION

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Shaw Environmental & Infrastructure (Shaw), 2013d, *Final RCRA Facility Investigation Report, Group 3, Building 1097 (TU/US-C505), Holloman Air Force Base, New Mexico*, September.

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Contract No. FA8903-09-D-8580, Task Order No. 0013 • Final • Rev 1 • July 2016 • WERC-09-13-080

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

Contract No. FA8903-09-D-8580, Task Order No. 0013 • Final • Rev 1 • July 2016 • WERC-09-13-080

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

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

Attachment 2
Figures

Contract No. FA8903-09-D-8580, Task Order No. 0013 • Final • Rev 1 • July 2016 • WERC-09-13-080

Office	Drawn By	Checked By	Approved By	Date	File Path
Hou	BGrod	CLong	BFoss	6/9/2016	G:\Midwest_PBC\Holloman_AFB\GIS_Documents\Project_Maps\Cac\Group3\HafbGroup3UstLocs.mxd

LEGEND

Holloman AFB

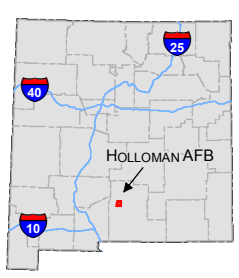
Group 3
Underground Storage Tank (UST) Sites

N

WGS 84 UTM Zone 13N
Meters

1 inch = 2,800 feet

0 700 1,400 2,800
Feet

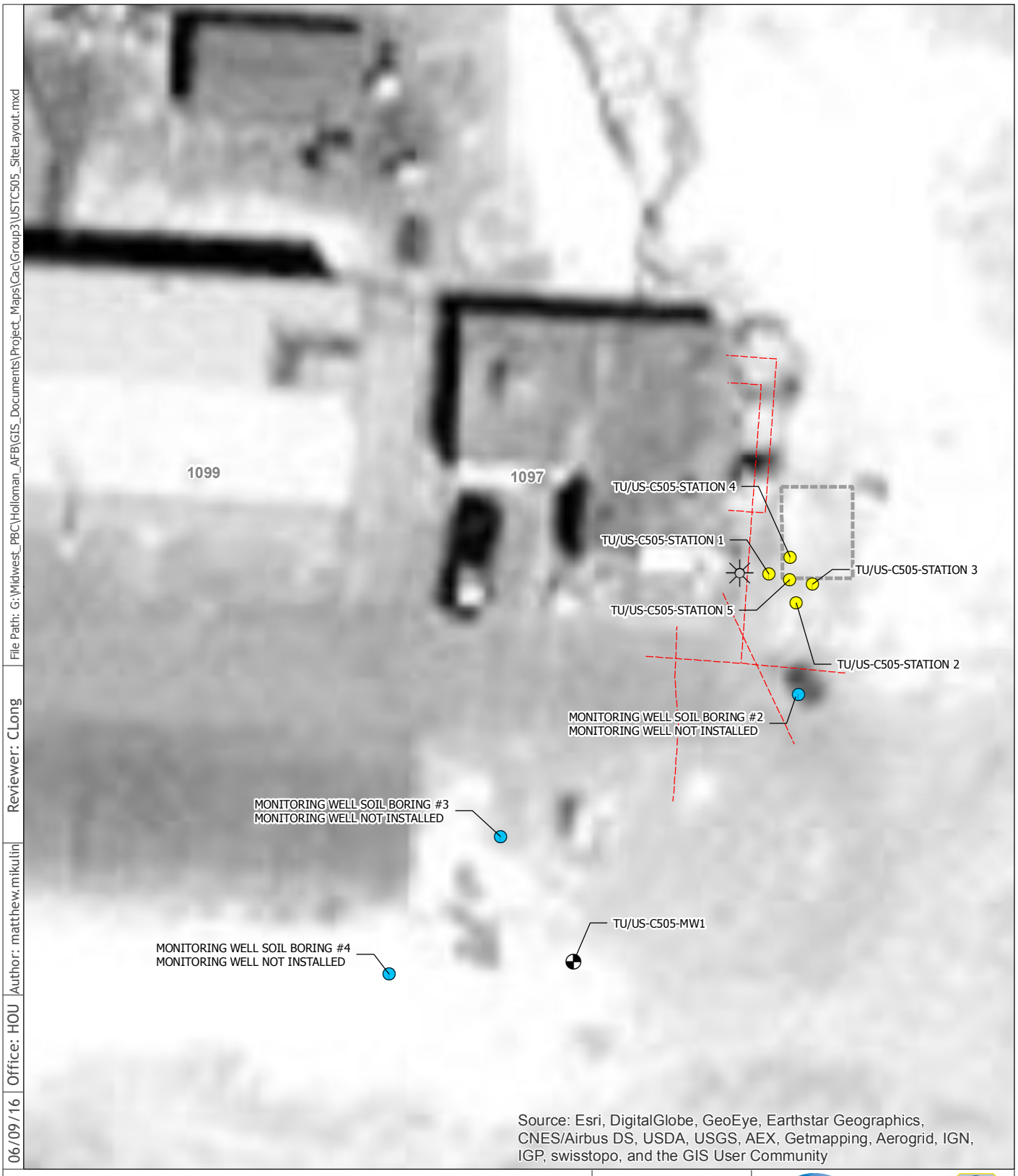


CBI

Figure 1

Location of Building
1097 TU/US-C505

Holloman AFB, NM



File Path: G:\Widwest_PBC\Holloman_AFB\GIS_Documents\Project_Maps\Cac\Group3\USTC505_SiteLayout.mxd

Reviewer: CLong

Author: matthew.mikulin

Office: HOU

06/09/16

Legend

- Monitoring Well
- Abandoned MW Soil Boring Monitoring Well not installed
- Soil Boring Station
- Existing Soil Vapor Probe
- Unknown Utility
- UST Excavation

N

NAD 83 SPCS
New Mexico Central
Feet

0 10 20
Feet

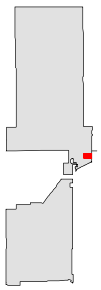


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Figure 2

Site Layout and
Sampling Locations
Building 1097 (TU/US-C505)
AOC-UST-1097

Holloman AFB, New Mexico

Attachment 3
Tables

Contract No. FA8903-09-D-8580, Task Order No. 0013 • Final • Rev 1 • July 2016 • WERC-09-13-080

Table 1
Sample Summary
AOC-UST-1097 - Building 1097 (TU/US-C505) CAC Petition
Holloman Air Force Base, New Mexico

Station Name	Grid Coordinates[a]		Sample Date	Sample Type	Sample Depth (ft bgs)	Sample Number	Analytical Suite	Analytical Method[b]
	Northing	Easting						
USTC505-MW01	677440.6055	1692265.0627	7/27/2012	Investigation Soil	0 - 2	USTC505-IS-0001-072712	Percent Solids	SM2540G
							TAL Metals	SW6010C
								SW7471B
							TPH-GRO, DRO, ORO	SW8015C
							VOCs	SW8260B
							SVOCs	SW8270D
				Investigation Soil	23 - 25	USTC505-IS-0002-072712	Percent Solids	SM2540G
							TAL Metals	SW6010C
								SW7471B
							TPH-GRO, DRO, ORO	SW8015C
							VOCs	SW8260B
							SVOCs	SW8270D
USTC505-MW02	684040.70*	1610780.74*	8/13/2012	Investigation Soil	10 - 12	USTC505-MW-02-081312	Percent Solids	SM2540G
							TAL Metals	SW6010C
								SW7471B
							TPH-GRO, DRO, ORO	SW8015C
							VOCs	SW8260B
							SVOCs	SW8270D
USTC505-MW03	684050.70*	1610800.74*	8/15/2012	Investigation Soil	0 - 2	USTC505-IS-0007-081512	Percent Solids	SM2540G
							TAL Metals	SW6010C
								SW7471B
							TPH-GRO, DRO, ORO	SW8015C
							VOCs	SW8260B
							SVOCs	SW8270D
USTC505-MW04	684060.70*	1610810.74*	8/15/2012	Investigation Soil	0 - 2	USTC505-IS-0008-081512	Percent Solids	SM2540G
							TAL Metals	SW6010C
								SW7471B
							TPH-GRO, DRO, ORO	SW8015C
							VOCs	SW8260B
							SVOCs	SW8270D
				Investigation Soil	21 - 23	USTC505-IS-0009-081512	Percent Solids	SM2540G
							TAL Metals	SW6010C
								SW7471B
							TPH-GRO, DRO, ORO	SW8015C
							VOCs	SW8260B
							SVOCs	SW8270D
USTC505-STA1	677510.9921	1692299.4757	7/26/2012	Confirmation Soil	6 - 8	USTC505-CS-0001-072612	Percent Solids	SM2540G
							TAL Metals	SW6010C
								SW7471B
							TPH-GRO, DRO, ORO	SW8015C
							VOCs	SW8260B
							SVOCs	SW8270D
USTC505-STA2	677505.8976	1692304.4633	7/27/2012	Confirmation Soil	6 - 8	USTC505-CS-0002-072712	Percent Solids	SM2540G
							TAL Metals	SW6010C
								SW7471B
							TPH-GRO, DRO, ORO	SW8015C
							VOCs	SW8260B
							SVOCs	SW8270D

Table 1
Sample Summary
AOC-UST-1097 - Building 1097 (TU/US-C505) CAC Petition
Holloman Air Force Base, New Mexico

Station Name	Grid Coordinates[a]		Sample Date	Sample Type	Sample Depth (ft bgs)	Sample Number	Analytical Suite	Analytical Method[b]
	Northing	Easting						
USTC505-STA3	677509.2476	1692307.3415	7/27/2012	Confirmation Soil	6 - 8	USTC505-CS-0003-072712	Percent Solids	SM2540G
							TAL Metals	SW6010C
								SW7471B
							TPH-GRO, DRO, ORO	SW8015C
							VOCs	SW8260B
							SVOCs	SW8270D
USTC505-STA4	677514.0622	1692303.2666	7/27/2012	Confirmation Soil	6 - 8	USTC505-CS-0004-072712	Percent Solids	SM2540G
							TAL Metals	SW6010C
								SW7471B
							TPH-GRO, DRO, ORO	SW8015C
							VOCs	SW8260B
							SVOCs	SW8270D
USTC505-STA5	677510.0064	1692303.2276	7/27/2012	Confirmation Soil	6 - 8	USTC505-CS-0005-072712	Percent Solids	SM2540G
							TAL Metals	SW6010C
								SW7471B
							TPH-GRO, DRO, ORO	SW8015C
							VOCs	SW8260B
							SVOCs	SW8270D

* Coordinates are estimated. Locations were not surveyed. The locations were estimated using field maps, notes, and photography, and then were pinpointed on field maps. These identified locations were then plotted in GIS to best approximate the locations. In some cases, surveyed locations where utilized to triangulate a non-surveyed location. Once plotted, coordinate locations where calculated using GIS. All coordinates were calculated using the New Mexico State Plane Central NAD 1983 Feet coordinate system.

[a] Coordinates are in UTM, Zone 13, North American Datum of 1983.

[b] EPA, 2007, Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846, Final Update IV. Available online at www.epa.gov/osw/hazard/testmethods/sw846.
Percent Solids from *Standard Methods for the Examination of Water and Wastewater* , 19th edition, 1995.

bgs	Below ground surface.
CS	Confirmation Soil.
CAC	Corrective Action Complete
DRO	Diesel range organics.
EPA	Environmental Protection Agency
ft	Feet/foot.
GRO	Gasoline range organics.
GW	Groundwater.
IS	Investigation Soil.
MW	Monitoring Well.
SVOC	Semivolatile organic compound.
TAL	Target analyte list.
TPH	Total petroleum hydrocarbons.
UST	Underground Storage Tank.

Table 2
Soil Analytical Data
AOC-UST-1097 - Building 1097 (TU/US-C505) CAC Petition
Holloman Air Force Base, New Mexico

Analyte	Sample Number			USTC505-CS-0001-072612		USTC505-CS-0002-072712		USTC505-CS-0003-072712		USTC505-CS-0004-072712		USTC505-CS-0005-072712		USTC505-IS-0001-072712		USTC505-IS-0002-072712		USTC505-MW-02-081312		USTC515-IS-0007-081512		USTC515-IS-0008-081512		USTC505-IS-0009-081512	
	Sample Date			7/26/2012		7/27/2012		7/27/2012		7/27/2012		7/27/2012		7/27/2012		7/27/2012		8/13/2012		8/15/2012		8/15/2012		8/15/2012	
	Location			Station 1, UST west wall		Station 4, UST north wall		Station 2, UST south wall		Station 5, UST center		Station 3, UST west wall		MW-01		MW-01		MW-02		MW-03		MW-04		MW-04	
	Depth (ft bgs)			6 - 8		6 - 8		6 - 8		6 - 8		6 - 8		0 - 2		23 - 25		10 - 12		0 - 2		0 - 2		21 - 23	
	NMED Residential SSL c	**EPA Residential RSL b**	**Background Soil a**	Result	VQ	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	**84.5**		**82.4**		**83.2**		**82.6**		**83.6**		**91.1**		**76.7**		**84.2**		**88.9**		**84.3**		**81**	
VOLATILES (mg/kg)																									
1,1,1-TRICHLOROETHANE	15600	8700	NE	0.0011	U	0.0015	U	0.0013	U	0.0013	U	0.0013	U	0.0014	U	0.0013	U	0.0013	U	0.0013	U	0.0014	U	0.0011	U
1,1,2,2-TETRACHLOROETHANE	8.02	0.56	NE	0.0012	U	0.0016	U	0.0015	U	0.0015	U	0.0014	U	0.0015	U	0.0014	U	0.0014	U	0.0015	U	0.0015	U	0.0012	U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	72100	43000	NE	0.0016	U	0.0023	U	0.0021	U	0.0021	U	0.0019	U	0.0022	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0017	U
1,1,2-TRICHLOROETHANE	2.81	1.1	NE	0.0011	U	0.0015	U	0.0013	U	0.0013	U	0.0013	U	0.0014	U	0.0013	U	0.0013	U	0.0013	U	0.0014	U	0.0011	U
1,1-DICHLOROETHANE	64.5	3.3	NE	0.0011	U	0.0015	U	0.0013	U	0.0013	U	0.0013	U	0.0014	U	0.0013	U	0.0013	U	0.0013	U	0.0014	U	0.0011	U
1,1-DICHLOROETHENE	449	240	NE	0.0013	U	0.0019	U	0.0017	U	0.0017	U	0.0016	U	0.0018	U	0.0016	U	0.0017	U	0.0017	U	0.0018	U	0.0014	U
1,2,4-TRICHLOROBENZENE	73.0	22	NE	0.0012	U	0.0016	U	0.0015	U	0.0015	U	0.0014	U	0.0015	U	0.0014	U	0.0014	U	0.0015	U	0.0015	U	0.0012	U
1,2-DIBROMO-3-CHLOROPROPANE	1.86	0.0054	NE	0.0022	U	0.003	U	0.0028	U	0.0028	U	0.0026	U	0.0029	U	0.0027	U	0.0027	U	0.0028	U	0.0029	U	0.0023	U
1,2-DIBROMOETHANE	0.588	0.034	NE	0.00096	U	0.0013	U	0.0012	U	0.0012	U	0.0011	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U	0.0013	U	0.00099	U
1,2-DICHLOROBENZENE	2310	1900	NE	0.0011	U	0.0015	U	0.0013	U	0.0013	U	0.0013	U	0.0014	U	0.0013	U	0.0013	U	0.0013	U	0.0014	U	0.0011	U
1,2-DICHLOROETHANE	7.89	0.43	NE	0.00096	U	0.0013	U	0.0012	U	0.0012	U	0.0011	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U	0.0013	U	0.00099	U
1,2-DICHLOROPROPANE	15.2	0.94	NE	0.0012	U	0.0016	U	0.0015	U	0.0015	U	0.0014	U	0.0015	U	0.0014	U	0.0014	U	0.0015	U	0.0015	U	0.0012	U
1,3-DICHLOROBENZENE	NE	NE	NE	0.0012	U	0.0016	U	0.0015	U	0.0015	U	0.0014	U	0.0015	U	0.0014	U	0.0014	U	0.0015	U	0.0015	U	0.0012	U
1,4-DICHLOROBENZENE	31.7	2.4	NE	0.0011	U	0.0015	U	0.0013	U	0.0013	U	0.0013	U	0.0014	U	0.0013	U	0.0013	U	0.0013	U	0.0014	U	0.0011	U
2-HEXANONE	NE	210	NE	0.0052	U	0.0072	U	0.0066	U	0.0066	U	0.0061	U	0.0069	U	0.0062	U	0.0065	U	0.0066	U	0.0068	U	0.0054	U
ACETONE	66600	61000	NE	0.019	U	0.026	U	0.024	U	0.024	U	0.023	U	0.026	U	0.023	U	0.024	U	0.024	U	0.025	U	0.02	U
BENZENE	15.4	1.1	NE	0.0014	U	0.002	U	0.0018	U	0.0018	U	0.0017	U	0.0019	U	0.0017	U	0.0018	U	0.0018	U	0.0019	U	0.0015	U
BROMODICHLOROMETHANE	5.41	0.27	NE	0.0011	U	0.0015	U	0.0013	U	0.0013	U	0.0013	U	0.0014	U	0.0013	U	0.0013	U	0.0013	U	0.0014	U	0.0011	U
BROMOFORM	616	62	NE	0.0014	U	0.002	U	0.0018	U	0.0018	U	0.0017	U	0.0019	U	0.0017	U	0.0018	U	0.0018	U	0.0019	U	0.0015	U
BROMOMETHANE	16.5	7.3	NE	0.0019	U	0.0026	U	0.0024	U	0.0024	U	0.0023	U	0.0026	U	0.0023	U	0.0024	U	0.0024	U	0.0025	U	0.002	U
CARBON DISULFIDE	1530	820	NE	0.0019	U	0.0026	U	0.0024	U	0.0024	U	0.0023	U	0.0026	U	0.0023	U	0.0024	U	0.0024	U	0.0025	U	0.002	U
CARBON TETRACHLORIDE	10.8	0.61	NE	0.0017	U	0.0024	U	0.0022	U	0.0022	U	0.002	U	0.0023	U	0.0021	U	0.0022	U	0.0022	U	0.0023	U	0.0018	U
CHLOROBENZENE	376	290	NE	0.00096	U	0.0013	U	0.0012	U	0.0012	U	0.0011	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U	0.0013	U	0.00099	U
CHLOROETHANE	29800	15000	NE	0.0019	U	0.0026	U	0.0024	U	0.0024	U	0.0023	U	0.0026	U	0.0023	U	0.0024	U	0.0024	U	0.0025	U	0.002	U
CHLOROFORM	5.86	0.29	NE	0.0012	U	0.0016	U	0.0015	U	0.0015	U	0.0014	U	0.0015	U	0.0014	U	0.0014	U	0.0015	U	0.0015	U	0.0012	U
CHLOROMETHANE	275	120	NE	0.0019	U	0.0026	U	0.0024	U	0.0024	U	0.0023	U	0.0026	U	0.0023	U	0.0024	U	0.0024	U	0.0025	U	0.002	U
CIS-1,2-DICHLOROETHYLENE	156	160	NE	0.0014	U	0.002	U	0.0018	U	0.0018	U	0.0017	U	0.0019	U	0.0017	U	0.0018	U	0.0018	U	0.0019	U	0.0015	U
CIS-1,3-DICHLOROPROPENE	NE	NE	NE	0.00096	U	0.0013	U	0.0012	U	0.0012	U	0.0011	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U	0.0013	U	0.00099	U
CYCLOHEXANE	NE	7000	NE	0.0013	U	0.0019	U	0.0017	U	0.0017	U	0.0016	U	0.0018	U	0.0016	U	0.0017	U	0.0017	U	0.0018	U	0.0014	U
DIBROMOCHLOROMETHANE	12.1	0.68	NE	0.00096	U	0.0013	U	0.0012	U	0.0012	U	0.0011	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U	0.0013	U	0.00099	U
DICHLORODIFLUOROMETHANE	168	94	NE	0.0014	UJ	0.002	U	0.0018	U	0.0018	U	0.0017	U	0.0019	U	0.0017	U	0.0018	U	0.0018	U	0.0019	U	0.0015	U
ETHYLBENZENE	68.4	5.4	NE	0.00096	U	0.0013	U	0.0012	U	0.0012	U	0.0011	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U	0.0013	U	0.00099	U
ISOPROPYLBENZENE	2430	2100	NE	0.0011	U	0.0015	U	0.0013	U	0.0013	U	0.0013	U	0.0014	U	0.0013	U	0.0013	U	0.0013	U	0.0014	U	0.0011	U
METHYL ACETATE	78200	78000	NE	0.012	U	0.017	U	0.015	U	0.015	U	0.014	U	0.016	U	0.014	U	0.015	U	0.015	U	0.016	U	0.012	U
METHYL ETHYL KETONE	37100	28000	NE	0.0059	U	0.0081	U	0.0075	U	0.0074	U	0.0069	U	0.0078	U	0.0071	U	0.0073	U	0.0075	U	0.0077	U	0.0061	U
METHYL ISOBUTYL KETONE	5820	5300	NE	0.0053	U	0.0073	U	0.0067	U	0.0067	U	0.0063	U	0.007	U	0.0064	U	0.0066	U	0.0067	U	0.0069	U	0.0055	U
METHYLCYCLOHEXANE	5630	5630	NE	0.0013	U	0.0017	U	0.0016	U	0.0016	U	0.0015	U	0.0017	U	0.0015	U	0.0016	U	0.0016	U	0.0016	U	0.0013	U
METHYLENE CHLORIDE	409	56	NE	0.0044	U	0.0061	U	0.0056	U	0.0056	U	0.0052	U	0.0059	U	0.0053	U	0.0055	U	0.0056	U	**0.0066**		**0.0048**	

Table 2
Soil Analytical Data
AOC-UST-1097 - Building 1097 (TU/US-C505) CAC Petition
Holloman Air Force Base, New Mexico

Analyte	Sample Number			USTC505-CS-0001-072612		USTC505-CS-0002-072712		USTC505-CS-0003-072712		USTC505-CS-0004-072712		USTC505-CS-0005-072712		USTC505-IS-0001-072712		USTC505-IS-0002-072712		USTC505-MW-02-081312		USTC515-IS-0007-081512		USTC515-IS-0008-081512		USTC505-IS-0009-081512	
	Sample Date			7/26/2012		7/27/2012		7/27/2012		7/27/2012		7/27/2012		7/27/2012		7/27/2012		8/13/2012		8/15/2012		8/15/2012		8/15/2012	
	Location			Station 1, UST west wall		Station 4, UST north wall		Station 2, UST south wall		Station 5, UST center		Station 3, UST west wall		MW-01		MW-01		MW-02		MW-03		MW-04		MW-04	
	Depth (ft bgs)			6 - 8		6 - 8		6 - 8		6 - 8		6 - 8		0 - 2		23 - 25		10 - 12		0 - 2		0 - 2		21 - 23	
	NMED Residential SSL [c]	EPA Residential RSL [b]	Background Soil [a]	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
VOLATILES - continued (mg/kg)																									
STYRENE	7280	6300	NE	0.0025	U	0.0034	U	0.0032	U	0.0032	U	0.003	U	0.0033	U	0.003	U	0.0031	U	0.0032	U	0.0033	U	0.0026	U
TERT-BUTYL METHYL ETHER	901	43	NE	0.0019	U	0.0026	U	0.0024	U	0.0024	U	0.0023	U	0.0026	U	0.0023	U	0.0024	U	0.0024	U	0.0025	U	0.002	U
TETRACHLOROETHYLENE	7.02	22	NE	0.00096	U	0.0013	U	0.0012	U	0.0012	U	0.0011	U	0.0013	U	0.0012	U	0.0012	U	0.0012	U	0.0013	U	0.00099	U
TOLUENE	5270	5000	NE	0.0012	U	0.0016	U	0.0015	U	0.0015	U	0.0014	U	0.0015	U	0.0014	U	0.0014	U	0.0015	U	0.0015	U	0.0012	U
TRANS-1,2-DICHLOROETHENE	270	150	NE	0.0014	U	0.002	U	0.0018	U	0.0018	U	0.0017	U	0.0019	U	0.0017	U	0.0018	U	0.0018	U	0.0019	U	0.0015	U
TRANS-1,3-DICHLOROPROPENE	NE	NE	NE	0.0011	U	0.0015	U	0.0013	U	0.0013	U	0.0013	U	0.0014	U	0.0013	U	0.0013	U	0.0013	U	0.0014	U	0.0011	U
TRICHLOROETHYLENE	8.77	0.91	NE	0.0012	U	0.0016	U	0.0015	U	0.0015	U	0.0014	U	0.0015	U	0.0014	U	0.0014	U	0.0015	U	0.0015	U	0.0012	U
TRICHLOROFLUOROMETHANE	1410	790	NE	0.0019	U	0.0026	U	0.0024	U	0.0024	U	0.0023	U	0.0026	U	0.0023	U	0.0024	U	0.0024	U	0.0025	U	0.002	U
VINYL CHLORIDE	0.728	0.06	NE	0.0014	U	0.002	U	0.0018	U	0.0018	U	0.0017	U	0.0019	U	0.0017	U	0.0018	U	0.0018	U	0.0019	U	0.0015	U
XYLENES, TOTAL	814	630	NE	0.0031	U	0.0042	U	0.0039	U	0.0039	U	0.0036	U	0.0041	U	0.0037	U	0.0038	U	0.0039	U	0.004	U	0.0032	U
SEMIVOLATILES (mg/kg)																									
2,2'-OXYBIS(1-CHLORO)PROPANE	NE	NE	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	UJ	0.018	U	0.02	U	0.02	U
2,4,5-TRICHLOROPHENOL	6110	6100	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
2,4,6-TRICHLOROPHENOL	61.1	44	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
2,4-DICHLOROPHENOL	183	180	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
2,4-DIMETHYLPHENOL	1220	1200	NE	0.025	U	0.026	U	0.025	U	0.025	U	0.025	U	0.023	U	0.027	U	0.025	U	0.023	U	0.025	U	0.026	U
2,4-DINITROPHENOL	122	120	NE	0.4	U	0.41	U	0.4	U	0.4	U	0.39	U	0.37	U	0.43	U	0.39	U	0.37	U	0.39	U	0.4	U
2,4-DINITROTOLUENE	15.7	1.6	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
2,6-DINITROTOLUENE	61.1	61	NE	0.024	U	0.024	U	0.023	U	0.023	U	0.023	U	0.022	U	0.026	U	0.023	U	0.022	U	0.023	U	0.024	U
2-CHLORONAPHTHALENE	NE	6300	NE	0.04	U	0.041	U	0.04	U	0.04	U	0.039	U	0.037	U	0.043	U	0.039	U	0.037	U	0.039	U	0.04	U
2-CHLOROPHENOL	391	390	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
2-METHYLNAPHTHALENE	NE	230	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
2-METHYLPHENOL	NE	3100	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
2-NITROANILINE	NE	610	NE	0.04	U	0.041	U	0.04	U	0.04	U	0.039	U	0.037	U	0.043	U	0.039	UJ	0.037	U	0.039	U	0.04	U
2-NITROPHENOL	NE	NE	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
3,3'-DICHLOROBENZIDINE	10.8	1.1	NE	0.04	U	0.041	U	0.04	U	0.04	U	0.039	U	0.037	U	0.043	U	0.039	U	0.037	U	0.039	U	0.04	U
3-NITROANILINE	NE	NE	NE	0.04	U	0.041	U	0.04	U	0.04	U	0.039	U	0.037	U	0.043	U	0.039	U	0.037	U	0.039	U	0.04	U
4,6-DINITRO-2-METHYLPHENOL	4.89	4.9	NE	0.08	U	0.082	U	0.079	U	0.08	U	0.079	U	0.074	U	0.087	U	0.078	U	0.074	U	0.078	U	0.081	U
4-BROMOPHENYL PHENYL ETHER	NE	NE	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
4-CHLORO-3-METHYLPHENOL	NE	6100	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
4-CHLOROANILINE	NE	2.4	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
4-CHLOROPHENYL PHENYL ETHER	NE	NE	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
4-NITROANILINE	NE	24	NE	0.04	U	0.041	U	0.04	U	0.04	U	0.039	U	0.037	U	0.043	U	0.039	U	0.037	U	0.039	U	0.04	U
4-NITROPHENOL	NE	NE	NE	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.15	U	0.17	U	0.16	U	0.15	U	0.16	U	0.16	U
ACENAPHTHENE	3440	3400	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
ACENAPHTHYLENE	NE	NE	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
ACETOPHENONE	7820	7800	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
ANTHRACENE	17200	17000	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
ATRAZINE	NE	2.1	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U

Table 2
Soil Analytical Data
AOC-UST-1097 - Building 1097 (TU/US-C505) CAC Petition
Holloman Air Force Base, New Mexico

Analyte	Sample Number			USTC505-CS-0001-072612		USTC505-CS-0002-072712		USTC505-CS-0003-072712		USTC505-CS-0004-072712		USTC505-CS-0005-072712		USTC505-IS-0001-072712		USTC505-IS-0002-072712		USTC505-MW-02-081312		USTC515-IS-0007-081512		USTC515-IS-0008-081512		USTC505-IS-0009-081512	
	Sample Date			7/26/2012		7/27/2012		7/27/2012		7/27/2012		7/27/2012		7/27/2012		7/27/2012		8/13/2012		8/15/2012		8/15/2012		8/15/2012	
	Location			Station 1, UST west wall		Station 4, UST north wall		Station 2, UST south wall		Station 5, UST center		Station 3, UST west wall		MW-01		MW-01		MW-02		MW-03		MW-04		MW-04	
	Depth (ft bgs)			6 - 8		6 - 8		6 - 8		6 - 8		6 - 8		0 - 2		23 - 25		10 - 12		0 - 2		0 - 2		21 - 23	
	NMED Residential SSL [c]	EPA Residential RSL [b]	Background Soil [a]	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
SEMIVOLATILES - continued (mg/kg)																									
BENZALDEHYDE	NE	7800	NE	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.18	U	0.22	U	0.2	U	0.18	U	0.2	U	0.2	U
BENZO(A)ANTHRACENE	1.48	0.15	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
BENZO(A)PYRENE	0.148	0.015	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
BENZO(B)FLUORANTHENE	1.48	0.15	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
BENZO(G,H,I)PERYLENE	NE	NE	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
BENZO(K)FLUORANTHENE	14.8	1.5	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
BENZYL BUTYL PHTHALATE	NE	260	NE	0.04	U	0.041	U	0.04	U	0.04	U	0.039	U	0.037	U	0.043	U	0.039	U	0.037	U	0.039	U	0.04	U
BIPHENYL	57.1	51	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
BIS(2-CHLOROETHOXY) METHANE	NE	180	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
BIS(2-CHLOROETHYL) ETHER	2.68	0.21	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
BIS(2-ETHYLHEXYL) PHTHALATE	347	35	NE	0.08	U	0.082	U	0.079	U	0.08	U	0.079	U	0.074	U	0.087	U	0.078	U	0.074	U	0.078	U	0.081	U
CAPROLACTAM	NE	31000	NE	0.064	U	0.065	U	0.063	U	0.064	U	0.063	U	0.059	U	0.069	U	0.063	U	0.059	U	0.063	U	0.065	U
CARBAZOLE	NE	NE	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
CHRYSENE	148	15	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
DIBENZ(A,H)ANTHRACENE	0.148	0.015	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
DIBENZOFURAN	NE	78	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
DIETHYL PHTHALATE	48900	49000	NE	0.2	U	0.082	U	0.079	U	0.08	U	0.079	U	0.074	U	0.087	U	0.078	U	0.074	U	0.078	U	0.081	U
DIMETHYL PHTHALATE	611000	611000	NE	0.02	U	0.041	U	0.04	U	0.04	U	0.039	U	0.037	U	0.043	U	0.039	U	0.037	U	0.039	U	0.04	U
DI-N-BUTYL PHTHALATE	6110	6100	NE	0.02	U	0.082	U	0.079	U	0.08	U	0.079	U	0.074	U	0.087	U	0.078	U	0.074	U	0.078	U	0.081	U
DI-N-OCTYLPHTHALATE	NE	NE	NE	0.02	U	0.041	U	0.04	U	0.04	U	0.039	U	0.037	U	0.043	U	0.039	U	0.037	U	0.039	U	0.04	U
FLUORANTHENE	NE	NE	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
FLUORENE	2290	2300	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
HEXACHLOROBENZENE	3.04	0.3	NE	0.04	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
HEXACHLOROBUTADIENE	61.1	6.2	NE	0.02	U	0.041	U	0.04	U	0.04	U	0.039	U	0.037	U	0.043	U	0.039	U	0.037	U	0.039	U	0.04	U
HEXACHLOROCYCLOPENTADIENE	367	370	NE	0.02	U	0.09	U	0.087	U	0.088	U	0.087	U	0.081	U	0.095	U	0.086	U	0.081	U	0.086	U	0.089	U
HEXACHLOROETHANE	42.8	12	NE	0.02	U	0.041	U	0.04	U	0.04	U	0.039	U	0.037	U	0.043	U	0.039	U	0.037	U	0.039	U	0.04	U
INDENO(1,2,3-C,D)PYRENE	1.48	0.15	NE	0.08	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
ISOPHORONE	5120	510	NE	0.064	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
M,P-CRESOL	NE	NE	NE	0.02	U	0.029	U	0.029	U	0.029	U	0.028	U	0.027	U	0.031	U	0.028	U	0.027	U	0.028	U	0.029	U
NAPHTHALENE	43.0	3.6	NE	0.02	U	0.033	U	0.032	U	0.032	U	0.032	U	0.029	U	0.035	U	0.031	U	0.03	U	0.031	U	0.032	U
NITROBENZENE	53.5	4.8	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
N-NITROSODI-N-PROPYLAMINE	NE	0.069	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
N-NITROSODIPHENYLAMINE	993	99	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
PENTACHLOROPHENOL	8.94	0.89	NE	0.24	U	0.25	U	0.24	U	0.24	U	0.24	U	0.22	U	0.26	U	0.24	U	0.22	U	0.23	U	0.24	U
PHENANTHRENE	1830	1830	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
PHENOL	18300	18000	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U
PYRENE	1720	1700	NE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.018	U	0.022	U	0.02	U	0.018	U	0.02	U	0.02	U

Table 2
Soil Analytical Data
AOC-UST-1097 - Building 1097 (TU/US-C505) CAC Petition
Holloman Air Force Base, New Mexico

Analyte	Sample Number			USTC505-CS-0001-072612		USTC505-CS-0002-072712		USTC505-CS-0003-072712		USTC505-CS-0004-072712		USTC505-CS-0005-072712		USTC505-IS-0001-072712		USTC505-IS-0002-072712		USTC505-MW-02-081312		USTC515-IS-0007-081512		USTC515-IS-0008-081512		USTC505-IS-0009-081512	
	Sample Date			7/26/2012		7/27/2012		7/27/2012		7/27/2012		7/27/2012		7/27/2012		7/27/2012		8/13/2012		8/15/2012		8/15/2012		8/15/2012	
	Location			Station 1, UST west wall		Station 4, UST north wall		Station 2, UST south wall		Station 5, UST center		Station 3, UST west wall		MW-01		MW-01		MW-02		MW-03		MW-04		MW-04	
	Depth (ft bgs)			6 - 8		6 - 8		6 - 8		6 - 8		6 - 8		0 - 2		23 - 25		10 - 12		0 - 2		0 - 2		21 - 23	
	NMED Residential SSL c	**EPA Residential RSL b**	**Background Soil a**	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ	Result	VQ
METALS (mg/kg)																									
ALUMINUM	78000	77000	13700	**3260**		**3550**	J	**3400**		**3080**		**3650**		**12300**		**3500**		**5720**		**12800**	J	**5830**		**8370**	
ANTIMONY	31.3	31	1.6	1.1	U	1.1	UJ	0.98	U	2	U	1.1	U	0.71	U	1.3	U	0.89	U	0.47	UJ	0.87	U	0.97	U
ARSENIC	3.90	0.39	3.7	1.1	U	**1.2**	J	0.98	U	**1.4**	J	**1.2**	J	**2.7**	J	**1.8**	J	**0.63**	J	**2.3**	J	**1.1**	J	**1**	J
BARIUM	15600	15000	169	**31.2**	J	**33.5**	J	**30.2**	J	**28.9**	J	**33.7**	J	**119**		**34.3**	J	**54.1**		**80**	J	**49.1**		**108**	
BERYLLIUM	156	160	1.6	0.53	U	0.57	U	0.49	U	0.49	U	0.55	U	**0.54**	J	0.63	U	**0.3**	J	**0.55**	J	**0.23**	J	**0.47**	J
CADMIUM	70.3	70	0.3	0.53	U	0.57	U	0.49	U	0.98	U	0.55	U	0.36	U	0.63	U	0.44	U	0.24	UJ	0.44	U	0.49	U
CALCIUM	NE	NE	317000	**232000**		**253000**	J	**227000**		**240000**		**242000**		**89700**		**208000**		**166000**		**113000**	J	**209000**		**197000**	
CHROMIUM, TOTAL	117000	117000	25	**3.3**	J	**3.5**	J	**3.4**	J	**3.4**	J	**3.9**	J	**11**		**3.5**	J	**6.1**		**10.5**		**5**		**9.4**	
COBALT	NE	23	7.7	**1.3**	J	**1.2**	J	**1.1**	J	**1**	J	**1.2**	J	**4**	J	**1.1**	J	**2.1**	J	**3.9**	J	**1.8**	J	**2.8**	J
COPPER	3130	3100	13	**2.3**	J	**2.4**	J	**2.1**	J	**2**	J	**2**	J	**8.5**	J	**1.8**	J	**4.3**	J	**8.9**		**4.4**	J	**3.6**	J
IRON	54800	55000	23000	**3040**		**3350**	J	**3150**		**2830**		**3390**		**10500**		**3160**		**4840**		**10100**	J	**4500**		**6960**	
LEAD	400	400	10.9	**1.2**	J	**1.7**	J	**1.5**	J	0.98	U	**1.4**	J	**4.8**	J	0.63	U	**2.3**	J	**6.3**		**2.4**	J	**3.3**	J
MAGNESIUM	NE	NE	17000	**2370**	J	**2580**	J	**2430**		**2130**	J	**2590**	J	**5830**		**2080**	J	**5930**		**7910**		**3240**		**3420**	
MANGANESE	1860	1800	393	**51.1**		**55.7**	J	**42.4**		**36.4**		**41.7**		**231**		**41**		**69.2**		**254**	J	**101**		**96.7**	
MERCURY	15.6	10	10.8	0.009	U	0.0099	U	0.0095	U	0.0096	U	0.0089	U	**0.0091**	J	0.01	U	0.0096	U	0.0087	U	0.0099	U	0.01	U
NICKEL	1560	1500	17.4	**2.7**	J	**2.8**	J	**2.4**	J	**2.2**	J	**2.7**	J	**8.8**	J	**3.1**	J	**4.9**	J	**8.9**	J	**4.1**	J	**7.1**	J
POTASSIUM	NE	NE	5080	**933**	J	**1000**	J	**951**	J	**878**	J	**1020**	J	**3050**	J	**803**	J	**1370**	J	**3090**		**1460**	J	**1680**	J
SELENIUM	391	390	1.4	2.1	U	2.3	U	2	U	3.9	U	2.2	U	1.4	U	2.5	U	1.8	U	0.95	U	1.7	U	1.9	U
SILVER	391	390	1.1	0.53	U	0.57	U	0.49	U	0.49	U	0.55	U	0.36	U	0.63	U	0.22	U	0.24	U	0.22	U	0.24	U
SODIUM	NE	NE	5200	**1380**	J	**1670**	J	**1500**	J	**1420**	J	**1590**	J	**1060**	J	690	U	**1600**	J	**675**	J	**264**	J	270	U
THALLIUM	0.782	0.78	1.3	1.4	U	1.5	U	1.3	U	2.5	U	1.4	U	0.93	U	1.6	U	1.2	U	**0.64**	J	1.1	U	1.3	U
VANADIUM	391	390	42.6	**6**	J	**7.2**	J	**6.2**	J	**6.1**	J	**6.5**	J	**17.9**	J	**6.8**	J	**10.2**	J	**16**		**8.2**	J	**12.8**	
ZINC	23500	23000	54.6	**9.6**	J	**10**	J	**9**	J	**7.2**	J	**10.9**	J	**32.4**		**8.5**	J	**14.2**		**31.5**		**13.6**		**20.4**	
PETROLEUM HYDROCARBONS (mg/kg)																									
GASOLINE RANGE ORGANICS C6-C10	1000	NE	NE	2.8	U	3.8	U	3.9	U	4.3	U	4.1	U	3.5	U	4.3	U	3.3	U	3.9	U	3.8	U	3.2	U
DIESEL RANGE ORGANICS C10-C28	1000	NE	NE	**4**	J	**11.7**		4	U	**8.28**	J	4	U	3.7	U	4.4	U	3.9	U	3.8	U	4	U	4.1	U
OIL RANGE ORGANICS C28-C40	1000	NE	NE	3.9	U	4.1	U	4	U	4.1	U	4	U	3.7	U	4.4	U	3.9	U	**6.67**	J	4	U	4.1	U

Table 2
Soil Analytical Data
AOC-UST-1097 - Building 1097 (TU/US-C505) 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, 2011. "Partial Approval, Basewide Background Study Report, January 2009, 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, August 12.*

[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.*

AOC = Area of Concern
CAC = Corrective Action Complete
CS = confirmation soil sample
ft bgs = feet below ground surface
EPA = U.S. Environmental Protection Agency
IS = investigation soil sample
J = estimated value
mg/kg = milligrams per kilogram
MW = monitoring well
NE = not established.
NMED = New Mexico Environment Department
RSL = Regional Screening Level
SSL = Soil Screening Level
U = not detected at the detection limit shown
UST = underground storage tank
VQ = validation qualifier

Attachment 4
Public Notice

Contract No. FA8903-09-D-8580, Task Order No. 0013 • Final • Rev 1 • July 2016 • WERC-09-13-080

PUBLIC NOTICE
RCRA PERMIT MODIFICATION REQUEST
for AOC-UST-1097
at HOLLOMAN AIR FORCE BASE

Notice of a Resource Conservation and Recovery Act (RCRA) Class 3 Permit Modification from Holloman Air Force Base (HAFB), in Otero County, New Mexico (NM). HAFB submitted a Corrective Action Complete Petition (Petition) to the New Mexico Environment Department (NMED) that requests a change in status of a site on HAFB.

The site described in the Petition is an underground storage tank (UST) at Building 1097, which is designated as an Area of Concern (AOC). The RCRA Permit lists the site as AOC-UST-1097. This Petition summarizes investigation and remediation activities at the site, and requests a Class 3 Permit Modification to change the status of AOC-UST-1097 from Corrective Action Required to Corrective Action Complete without Controls. The purpose of this notice is to inform the public of HAFB's permit modification request and to offer the public an opportunity to review and comment on the Petition.

Public Comments: A 60-day public comment period has been initiated with the publication of this notice. The 60-day public comment period extends from July 31, 2016 through September 29, 2016. Only comments and/or questions received on or before the close of September 29, 2016 will be considered. If you would like to provide any written comments or questions regarding this Petition, they can be submitted to:

Mr. John Kieling,
Chief, Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Bldg 1
Santa Fe, NM 87505-6303
Phone 505-476-6000
Fax 505-476-6030
Ref: AOC-UST-1097 CACP

Public Inspection of Document: Throughout the 60-day comment period, the Petition may be reviewed at the Alamogordo Public Library, 920 Oregon Avenue, Alamogordo, NM. The library phone number is 575-439-4140.

Public Meeting: A Public Meeting will be held on Tuesday, August 16, 2016 at 6:00 PM at Sergeant Willie Estrada Memorial Civic Center, 801 East First Street, Alamogordo, NM.

HAFB Contact: Inquiries may be addressed to:
49th Wing Public Affairs Office
490 First Street
Building 29, Suite 1500
Holloman AFB, NM 88330
575-572-7381

Compliance History: HAFB operates under an existing Hazardous Waste Facility Permit, initially issued in 1991. A permit renewal application was submitted to the NMED on February 26, 2015. The Permittee's compliance history during the life of the Permit being modified is available from the NMED Contact Person referenced above.

Attachment 5
NMED Correspondence

Contract No. FA8903-09-D-8580, Task Order No. 0013 • Final • Rev 1 • July 2016 • WERC-09-13-080

NEW MEXICO
ENVIRONMENT DEPARTMENT

SUSANA MARTINEZ
Governor
JOHN A. SANCHEZ
Lieutenant Governor

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

RYAN FLYNN
Cabinet Secretary
BUTCH TONGATE
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

June 3, 2016

DeAnna Rothhaupt
Chief, Holloman AFB Environmental
49th CES/CEIE
550 Tabosa Avenue
Holloman AFB, NM 88330

**RE: HOLLOMAN AIR FORCE BASE MAY 25, 2016 RESPONSE
NEW MEXICO ENVIRONMENT DEPARTMENT APPROVAL OF
FINAL RCRA FACILITY INVESTIGATION REPORT GROUP 3 – BUILDING
1097 (TU/US-C505), SEPTEMBER 2013
HOLLOMAN AIR FORCE BASE, EPA ID# NM6572124422
HAFB-13-015**

Dear Ms. Rothhaupt:

The New Mexico Environment Department (NMED) reviewed the Holloman Air Force Base (Permittee) report: *Final RCRA Facility Investigation Report Group 3 – Building 1097 (TU/US-C505), Holloman Air Force Base, New Mexico,* dated September 2013. The report was approved by NMED on May 29, 2015.

The Permittee requested a determination of Corrective Action Complete (CAC) for Building 1097 (TU/US-C505), which was denied at that time. Instead, NMED required the Permittee to collect and analyze two groundwater samples from an onsite monitoring well in order to confirm that there are no impacts on groundwater from site contamination.

A monitoring well located at the site, installed to a depth of 25 feet below the ground surface (bgs), did not contain sufficient groundwater for sample collection. Groundwater also was not observed in additional soil borings advanced to depths of 30 feet bgs. Two additional attempts were made in November 2015 and April 2016 to sample the well. Ground water was not present on either occasion. Constituents of concern were not detected in any soil sample collected from the site at concentrations greater than applicable soil screening levels. Therefore, no further

investigation is required at this site.

The Permittee may request a Class 3 permit modification for Corrective Action Complete without Controls for Building 1097 (TU/US-C505) in accordance with 40 C.F.R. §270.42(c). The Class 3 permit modification process includes requirements for public notice and for providing opportunity for public comment that are mandatory. NMED's preliminary determination that corrective action is complete is subject to NMED's reservation of rights for new information or unknown conditions. As part of the permit modification process, new information may become available during the public comment period that a given site is not protective of human health or the environment. NMED reserves all rights to withdraw its preliminary decision that corrective action is complete, if new information indicates that further corrective action is needed to protect human health or the environment.

If you have any questions regarding this matter, please contact Mr. Brian Salem of my staff at (505) 222-9576.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
B. Salem, NMED HWB
C. Amindyas, NMED HWB
D. Strasser, NMED HWB
C. Schick, HAFB
L. King, EPA, Region 6 (6PD-F)
C. Hendrickson, EPA, Region 6 (6PD-F)

File: HAFB 2016 and Reading
HWB-HAFB-13-015