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27TH SPECIAL OPERATIONS MISSION SUPPORT GROUP (AFSOC)
CANNON AIR FORCE BASE NEW MEXICO

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RECEIVED
JUL 29 2016
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Dear Mr. Kieling

Cannon AFB is pleased to submit the "*Accelerated Corrective Measures Work Plan SWMU 127*". If you have any questions regarding this submittal, please contact Mr. Ronald Lancaster, Chief, Installation Management Flight at (575) 784-1146.

Sincerely

DOUGLAS W. GILPIN, Colonel, USAF
Commander

Attachment:
1. Accelerated Corrective Measures Work Plan SWMU 127

cc:
NMED, Dave Cobrain
NMED, Gabriel Acevedo
NMED, Neelam Dhawan

ACCELERATED CORRECTIVE MEASURE WORK PLAN (ACMWP)

SITE SW127

CANNON AIR FORCE BASE
NEW MEXICO
RCRA PERMIT No. NM7572124454

Performance Based Remediation
Contract Number: FA8903-13-C-0008

Prepared for

AIR FORCE CIVIL ENGINEER CENTER
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June 2016

Prepared by:

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Acronyms and Abbreviations

°C	degrees Celsius
°F	degrees Fahrenheit
27 SOCES/CEIE	27th Special Operations Civil Engineering Squadron/Civil, Environmental and Infrastructure Engineering
ACMCR	Accelerated Corrective Measures Completion Report
ACMWP	Accelerated Corrective Measures Work Plan
AFB	Air Force Base
AFCEC	Air Force Civil Engineer Center
bgs	below ground surface
B.P.	before the present
CAC	Corrective Action Complete
CEC	cation exchange capabilities
cm	centimeters
cm/sec	centimeters per second
CMS	Corrective Measures Study
CoC	chain of custody
COC	chemical of concern
COPC	chemicals of potential concern
COR	Contracting Officer's Representative
CRZ	contaminant reduction zone
DQO	data quality objective
EMAX	EMAX Laboratories, Inc.
EZ	exclusion zone
FPM	FPM Remediations Inc.
FTL	Field Team Leader
gal/ft	gallons per foot
gpm	gallon per minute
GPS	global positioning system
HSO	Health and Safety Officer
km/hr	kilometer per hour
L/min	liters per minute
m^3/m	meters per meter
MS/MSD	matrix spike/matrix spike duplicate
msl	mean sea level
NMED	New Mexico Environment Department
OSHA	Occupational Safety and Health Administration
OWS	oil/water separator
PAH	polynuclear aromatic hydrocarbon
PBR	Performance Based Remediation
PM	Project Manager
POC	point of contact
POL	petroleum, oil, and lubricants
PPE	personal protective equipment

QA/QC	quality assurance/quality control
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RPM	Restoration Program Manager
SC	clayey sand
SCFS	Sample Collection Field Sheet
SM	silty sand
SSHP	Site Safety and Health Plan
SSL	Soil Screening Level
SSO	Site Safety Officer
SSTL	site-specific target levels
SVOC	semivolatile organic compound
SWMU	Solid Waste Management Unit
SZ	support zone
TPH	total petroleum hydrocarbon
UFP-QAPP	Uniform Federal Policy–Quality Assurance Project Plan
URS	URS Group, Inc.
USAF	United States Air Force
USEPA	United States Environmental Protection Agency
UU/UE	Unrestricted Use/Unrestrictive Exposure
VI	vapor intrusion
VOA	volatile organic analysis
VOC	volatile organic compound
W-C	Woodward-Clyde
WP	work plan

This document presents the Accelerated Corrective Measure Work Plan (ACMWP) for Solid Waste Management Unit (SWMU) 127 (Air Force Site SW127) at Cannon Air Force Base (AFB) near Clovis, New Mexico (**Figure 1-1**). SW127 is described as an oil/water separator (OWS) near tank 4095 (number 1) and leach field.

1.1 AUTHORITY

URS Group, Inc. (URS), as a subcontractor to FPM Remediations, Inc. (FPM), has prepared this ACMWP as part of the Performance Based Remediation (PBR) at Cannon AFB. This work is being completed under Air Force Civil Engineer Center (AFCEC) Contract Number FA8903-13-C-0008.

1.2 PURPOSE AND SCOPE

Historical investigations identified PAH contamination in the surface soils and TPH contamination in the subsurface soils at SW127. Risk assessments completed identified the PAH contamination in the surface soils as the source of the contamination resulting in exceedance of cancer risks for residential use. The purpose of this ACMWP is to describe the required field activities with sufficient detail to effectively complete the removal of contaminated soil at SW127 to levels below the New Mexico Environmental Department (NMED) residential Soil Screening Levels (SSLs). The site location map (**Figure 1-2**) shows the location of SW127 at Cannon AFB.

This ACMWP provides the technical approach, rationale, field procedures, and data quality objectives (DQOs) to be followed to achieve the objective of Corrective Action Complete (CAC) without Controls at SW127. This project will include preparing planning documents, conducting a soil removal, collecting waste characterization and confirmation soil samples for site-specific analytical parameters, evaluating the chemical data, comparing the analytical results to established soil screening criteria, backfilling the excavation, and preparing an Accelerated Corrective Measures Completion Report (ACMCR).

1.3 REGULATORY FRAMEWORK

NMED is authorized by the United States Environmental Protection Agency (USEPA) to implement the federal Resource Conservation and Recovery Act (RCRA) hazardous waste program and oversee the corrective action program activities conducted in accordance with Cannon AFB's permit. NMED issued a RCRA permit to Cannon AFB on December 17, 1989. SW127 is identified as SWMU 127 on Table 1 (Solid Waste Management Units and Areas of Concern Requiring Corrective Action) of Cannon AFB's RCRA permit.

An ACMWP/ACMCR approach is appropriate because NMED uses accelerated corrective measures for simple sites where presumptive remedies, such as excavation are planned; where field work can be accomplished within 180 days; where groundwater is not a component of the remedy; and where the remedy is considered the final remedy for the site. Removal of contaminated soil to residential standards achieves Unlimited Use/Unrestricted Exposure

(UU/UE) standards and makes the site eligible for CAC without Controls status (i.e., achieve site closeout).

1.4 FACILITY DESCRIPTION AND BACKGROUND

1.4.1 Setting – Physical Geography

Cannon AFB is situated in the Southern High Plains Physiographic Province in the Llano Estacado subprovince. The Llano Estacado is a nearly flat plain sloping gently (10 to 15 feet per mile) to the east and southeast. Elevations in the eastern New Mexico portion of the Llano Estacado exceed 4,000 feet above mean sea level (msl). In the vicinity of Cannon AFB, elevations range from 4,250 feet to 4,350 feet above msl.

The most prominent geomorphic features in the vicinity of Cannon AFB are blowouts and broad, widely spaced valleys. Less common landforms are relict sand dunes located along the northern side of the Portales Valley to the south of the base. Relict dunes are not found on or near Cannon AFB.

Blowouts are broad shallow depressions, which form as the result of soil eroded by wind. Blowouts commonly collect surface runoff from small to moderate sized drainage areas. During periods of rainfall, runoff collects in blowouts to form ephemeral playa lakes. Playas have no external surface drainage. Water is lost by infiltration to the soil and evaporation; without recharge, playa lakes persist for only a few days or weeks. Three playas are located within the base, and several more are found to the north and east of the base.

Stream valleys tend to be fairly broad and widely spaced. Streams are ephemeral and drainages are poorly developed. No streams exist on or near Cannon AFB. Running Water Draw and Frio Draw (located about 10 and 20 miles, respectively, north of Cannon AFB) are the nearest streams. These are second-order streams. Both streams are very straight, flow southeast, and have rectilinear drainage patterns with short laterals (Woodward-Clyde [W-C] 1991).

1.4.2 Demographics and Land Use Near Cannon AFB

Cannon AFB is located just west of the City of Clovis, New Mexico, and just south of United States Highway 60/84 in farming and ranching area. The majority of the land surrounding Cannon AFB is productive, irrigated farmland or grassland. The major crops are wheat, sorghum, sugar beets, corn, cotton, alfalfa, barley, and peanuts. The land is also used for cattle grazing, both beef and dairy. According to 2010 US census data, the population of Clovis was 37,775 while the population of Cannon AFB was 2,245.

1.4.3 Climatology

The climate of east-central New Mexico is classified as tropical semi-arid, with summer temperature and precipitation maxima. Average monthly temperatures range from a January low of -3.9 degrees Celsius (°C) (25 degrees Fahrenheit [°F]) to a July high of 32.8°C (91°F) (US Climate Data 2013). Extreme daily temperatures range from a historical low of –24°C (–11°F)

to a historical high of 41°C (106°F) (My Forecast 2013). Average monthly precipitation ranges from 1.2 centimeter (cm) (0.39 inches) in February to 8.7 cm (3.43 inches) in July (US Climate Data 2013). The maximum-recorded 24-hour rainfall is 12.2 cm (4.8 inches), which occurred in the month of August. Rainfall occurs on an average of eight days per month during the summer precipitation maximum (My Forecast 2013). Mean annual precipitation is approximately 47 cm (18.51 inches) (US Climate Data 2013). The mean annual evapotranspiration rate is 285.9 centimeters per year (112.56 inches per year) (USEPA 2013). Prevailing winds are from the southwest. Average wind speed is highest at an average of 23.34 kilometers per hour (km/hr) (14.5 miles per hour) during the month of April (USDA 2013).

The atmosphere around the area of Cannon AFB is generally well mixed. The seasonal and annual average mixing heights can vary from 400 meters in the morning to 4,000 meters in the afternoon. The afternoon mixing heights are typically greater during the spring and fall seasons. The morning mixing heights are usually low, due to nighttime heat loss from the ground, producing surface-based temperature inversions. After sunrise, these inversions break up, and solar heating of the earth's surface causes vertical mixing in the atmosphere.

Dust is frequently entrained into the atmosphere in this region of the country because of gusty winds and the semiarid climate. The Texas Panhandle-eastern New Mexico area is considered the worst area in the United States for windblown dust. Occasionally, this windblown dust is of sufficient quantity to restrict visibility. Most of the seasonal dust storms occur in March and April, when the wind speeds are typically high (i.e., average 5 km/hr) (W-C 1991).

1.4.4 Geology

A generalized geologic section at Cannon AFB is shown in **Figure 1-3**. The near surface stratigraphic units of interest at Cannon AFB are the Late Miocene-Late Pliocene-age Ogallala Formation and the Early Triassic Dockum Group.

The Dockum Group consists of three formations. Stratigraphically, the lowest unit is the Santa Rosa Sandstone. Overlying the Santa Rosa Sandstone are the Chinle and Redonda Formations. The Chinle and Redonda Formations are composed mainly of red shales with lesser interbedded sands, and are known locally as "redbeds." The top of the Dockum Group is marked by an erosional nonconformity having relief of up to several hundred feet (Lee Wan 1990).

Overlying the Dockum Group redbeds is the Ogallala Formation. The Ogallala Formation extends from eastern New Mexico and Colorado into Texas, Oklahoma, Kansas, Nebraska, and South Dakota. Drillers' logs from Cannon AFB indicate that the Ogallala Formation varies from 360 feet to 415 feet in thickness. The incised upper surface of Triassic redbeds strongly influences Ogallala thickness. Paleo valleys in the post Triassic nonconformity are deep and trend dominantly east to west. Ogallala thickness may vary significantly over short north to south distances (Lee Wan 1990).

The Ogallala Formation is erosionally truncated to the south along the abandoned Portales Valley, to the west along the Pecos River Valley, and to the north in a series of ephemeral stream valleys. The Ogallala Formation extends more than 125 miles to the east before terminating as

an escarpment in Briscoe County, Texas. Springs and seeps are common along the erosional margins of the Ogallala.

The Ogallala Formation dips gently and monoclinally to the southeast in the vicinity of Cannon AFB. Data suggest that some quaternary warping may have occurred; however, most of these structures are located well to the northwest and southwest of Cannon AFB. No faults or buried structural lineaments are known to exist in the vicinity of Cannon AFB (Lee Wan 1990).

The Ogallala Formation is composed of unconsolidated poorly sorted gravel, sand, silts, and clays. The base of the Ogallala is generally marked by a gravel, cobble, and boulder deposit. This basal member contains sediments derived from igneous and sedimentary rocks transported from the mountains to the west. The Ogallala Formation was laid down as stream and overbank deposits formed within coalescing alluvial fans. These fans form a broad pediment along the eastern flank of the Rocky Mountains. As is typical of alluvial deposits, Ogallala internal stratigraphy varies vertically and horizontally over short distances.

Except where strongly cemented by calcium carbonate (caliche), the sediments of the Ogallala are loose and friable. Authigenic and allogenic clays are found as a trace to abundant matrix mineral. Five zones have been distinguished within the Ogallala of east central New Mexico on the basis of clay minerals. Smectites (montmorillonites) and attapulgite (with sepeotite) are the dominant clays throughout the Ogallala. Illite is a lesser, but persistent clay, as is kaolinite. Smectite is a swelling clay, causing deep cracks to form in dry surface soils. Smectite in particular and, to a lesser extent, attapulgite and illite, are clays with moderate to high cation exchange capacities (CEC). The formation as a whole should therefore have a relatively high CEC, which should inhibit the migration of charged contaminants, and especially ionic forms of metals (Lee Wan 1990).

Caliche is a major feature of the Ogallala Formation, occurring as nearly continuous to discontinuous layers throughout. Caliche is hard, white to pale tan on fresh surfaces, weathering to gray, and has a chalky appearance. Caliche forms as calcium carbonate, leached from overlying sediments, and precipitates in the pore space of the host sediments. Precipitation is caused by the evaporation of downward percolating water. The caliche may thus mark the position of ancient vadose zones. Radiocarbon dates for the upper “climax” caliche range from approximately 27,000 years before the present (B.P.) to approximately 42,000 years B.P. (Lee Wan 1990).

Caliche is relatively soluble in acidic water (i.e., water with a pH less than 7) or in waters containing dissolved carbon dioxide. The top surface of the uppermost or “climax” caliche in a fresh outcrop typically shows solution etching.

The Ogallala has numerous continuous to discontinuous caliche layers throughout its thickness. The climax caliche is pisolitic (i.e., consisting of spherical concentrically laminated aggregates 1 to 10 millimeters in diameter) (Lee Wan 1990). The pisolites are thought to have formed as the caliche was repeatedly chemically weathered and brecciated during Pleistocene pluvials (wet climate episodes) and later recemented during drier intervals. This upper caliche crops out around playas and the bounding escarpments of the Ogallala, and is locally termed “caprock.”

The climax caliche is typically 3 to 5 feet thick. Caliches that occur lower in the Ogallala are platy and harder. Caliche may be thin or absent below playas (W-C 1991).

1.4.5 Hydrogeology

The lower portion of the Ogallala Formation is the primary regional aquifer for both potable and irrigation water. No deeper aquifers are utilized in the vicinity of Cannon AFB. The Ogallala aquifer is part of the High Plains Aquifer that extends continuously from Wyoming and South Dakota into New Mexico and Texas. In east-central New Mexico, the Ogallala aquifer rests on Dockum Group redbeds, which serve as the basal confining layer. The Ogallala is a water table, or unconfined, aquifer. The Ogallala aquifer has a southeasterly regional gradient of about 17 feet per mile (0.0032 meters per meter, see **Figure 1-4**). Well yields vary from less than 1 gallon per minute (gpm) in thin silts and sands, and up to 1,600 gpm in thick sands and gravels. Water quality is generally good, with hardness and fluorides being somewhat high (Lee Wan 1990).

Based on data from the 2014 base-wide sampling event, the depth to groundwater at Cannon AFB varies from 287 to 350 feet below ground surface (bgs) (URS 2015). Saturated thickness is influenced by the configuration of the erosional nonconformity surface marking the top of the Dockum Group. The local groundwater gradient is southeasterly at 7.5 feet per mile. Yields in tests of Cannon AFB water wells have ranged from 776 liters per minute (L/min) (205 gpm) to 4,353 L/min (1,150 gpm). Specific capacities range from 0.14 cubic meters per meter (m^3/m) (11.4 gallons per foot [gal/ft]) to 0.35 m^3/m (27.9 gal/ft) (Lee Wan 1990).

Very rough estimates of hydraulic conductivity were made from well pump tests in water wells 5 and 9 (**Figure 1-5**) using the Theis equation. An estimate of hydraulic conductivity for water well 8 was based on water level recovery data using the Bouwer and Rice approach (Lee Wan 1990). The data used in these calculations were obtained to evaluate pump rates, efficiency, and well yield, and were not intended for use in calculating aquifer properties. The results of these calculations should therefore be considered as first approximations.

Hydraulic conductivity values for water wells 5 and 9 were found to be approximately 2.0×10^{-3} centimeters per second (cm/sec). Calculations for water well 8 resulted in a hydraulic conductivity of 2.0×10^{-2} cm/sec. In addition, slug testing of two monitoring wells (MW-O and MW-N) was completed by W-C in February 1995 (W-C 1995). The estimated hydraulic conductivities from these slug tests were both 3×10^{-3} cm/sec. These estimates appear to be low when compared to published hydraulic conductivity data for sands and gravels. A groundwater flow velocity of about 4.5×10^{1} meters per year (1.5×10^{2} feet per year) has been estimated (Lee Wan 1990). This calculates out to a hydraulic conductivity of approximately 1.4×10^{-4} cm/sec. This appears to be low when compared with published data (Freeze and Cherry 1979).

The presence of interstitial clays may account for both the variability and the low values of hydraulic conductivities. Boring logs from Cannon AFB projects and published reports (Lee Wan 1990) indicated that interstitial and interstratified clays are abundant in the Ogallala Formation.

Recharge to the Ogallala is primarily through precipitation. A recharge rate of 0.5 inches/year was calculated using the Theis equation; the recharge rate may be as much as 1.0 inches/year. Due to the high evapotranspiration rate and low precipitation, recharge probably occurs only during heavy rainfall events in which the infiltration capacity of the soil is exceeded and runoff occurs, or during cool months when precipitation exceeds evapotranspiration. Excess runoff flows to playas, and the presence of water in playas may allow deep percolation to the aquifer. The occurrence of this process is evidenced by the presence of clay deposits in, and thin or nonexistent caliche layers directly below, playas. Caliche is soluble in acidic rainwaters, and is leached over time to form percolation pathways (Lee Wan 1990).

Discharge from the Ogallala occurs through well pumping and springs along the eroded margins of the formation. Spring discharge does not occur on or near Cannon AFB. Domestic and irrigation water wells are common on and around the base, however. The rate of discharge exceeds the rate of recharge. Water levels in the Ogallala have declined steadily from the 1930s to the present. A decline of 50 to 100 feet has been observed in the area around Clovis, New Mexico for the period from the 1930s to 1980. The largest area of water level decline exceeding 100 feet occurs south of the Canadian River extending from Curry County, New Mexico to Crosby County, Texas (Lee Wan 1990).

The dominant uses of groundwater in the Cannon AFB area are as potable and irrigation water. Numerous wells are found in the Cannon AFB area, most of which provide only irrigation water (**Figure 1-5**).

The Ogallala will continue to be used as the primary source of potable and irrigation water for eastern New Mexico. The New Mexico State Engineer designated Curry County as a Water Basin in 1989. This designation allows for regulation of water rights, usage, and well drilling (W-C 1991).

1.4.6 Soils

Soils in the vicinity of Cannon AFB are classified as silty sand (SM) to clayey sand (SC) under the Unified Soil Classification System, and as aridisols (calciorthids) under the Soil Conservation Service Comprehensive Soil Classification System. The following summary is based on the Soil Conservation Service Curry County Soil Survey (Lee Wan 1990).

The most common soil type on the base is the Amarillo fine sandy loam, 0- to 2-percent slope phase (map symbol Ab on **Figure 1-6**). This soil consists of a thin sandy A horizon, well-defined clayey B1-3 horizons, with a calcic B3 horizon at depths below 40 inches. The calcic B3 horizon lies on a calcic C horizon, or on caliche. The Amarillo fine sandy loam is present on all relatively flat surfaces at the base, but is also found on slopes associated with playas (map symbol Ac).

Clovis fine sandy loams, 0- to 2-percent slope phase (map symbol Cb) and 2- to 5-percent slope phase (map symbol Cc), are very similar to Amarillo fine sandy loams. In the Clovis soils, the depth to the calcic C horizon ranges from 28 to 56 inches. The depth to caliche exceeds 56 inches. Clovis and Amarillo fine sandy loams occur in close association.

In a few limited areas, particularly along the steeper slopes around playas, Mausker fine sandy loam, 0- to 2-percent slope phase (map symbol Ma), and 2- to 5-percent phase (map symbol Mb) are found. Mausker fine sandy loams have no B horizons and are very calcareous. The calcic C horizon is within 2 feet of the surface.

The A and B horizons of Amarillo and Clovis fine sandy loams are rapidly to moderately permeable. Mausker fine sandy loam A and Ac horizons are rapidly permeable. Permeabilities in calcic B and C horizons are moderate (Lee Wan 1990).

1.5 PROJECT SCHEDULE

Fieldwork is scheduled for February of 2017. Should NMED reviews and approval of work plans be obtained ahead of the scheduled timeframe, the field sampling activities will be rescheduled to comply with NMED requirements. Preparation for field sampling activities including mobilization, acquisition of base passes and utility locates is described in **Section 6**.

1.6 PLAN ORGANIZATION

The sections of this work plan are organized as follows:

Section 1 presents the authority, purpose and scope, facility description and background, and anticipated project schedule.

Section 2 provides the project and task organization for SW127.

Section 3 summarizes the site description and background, including previous investigations and remedial actions completed.

Section 4 identifies the DQOs.

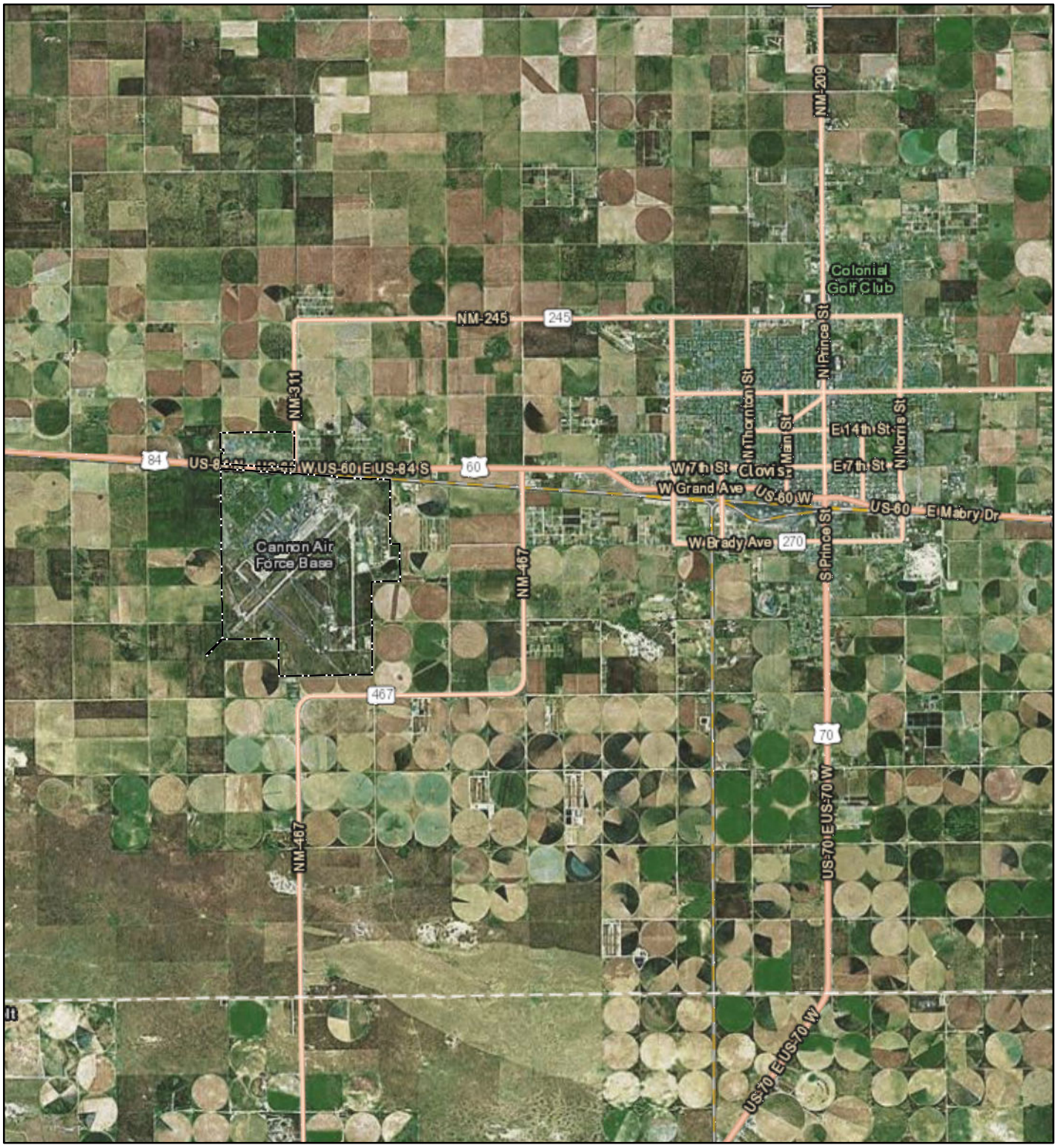
Section 5 describes the site-specific activities planned at SW127.

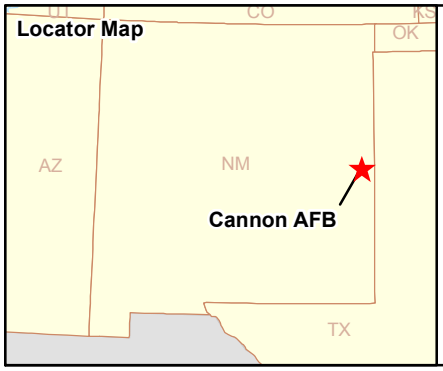
Section 6 describes general field procedures to be followed for mobilization, excavation, soil sampling, backfill, and restoration.

Section 7 lists the references used in this ACMWP.

Appendix A provides the field forms required for the planned corrective action activities.

Appendix B provides the analytical laboratory information for the reference limits and evaluation tables as well as the sample containers, preservation, and hold times.





Legend

Base Boundary

N

10,000 5,000 0 10,000 Feet

Map projection: NAD83 State Plane Feet New Mexico East (FIPS 3001)

Installation Location Map

Cannon Air Force Base, New Mexico

Drawn By: DPG	Date: 1/8/2016	Project No. 23446539	Figure 1-1
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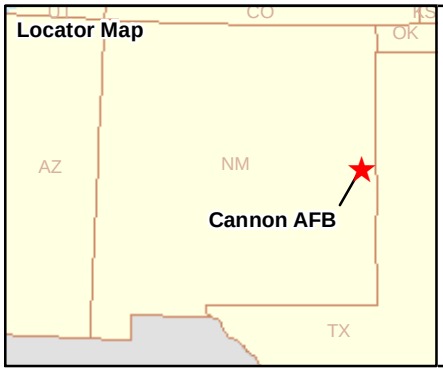

Legend

Base Boundary

Site ID	Site Name
SW127	Oil/Water Separator near Tank 4095 and Leach Field

Map projection: NAD83 State Plane Feet New Mexico East (FIPS 3001)

N

2,000 1,000 0 2,000 Feet

Site Location Map

Cannon Air Force Base, New Mexico

Drawn By:	Date:	Project No.	
DPG	4/19/2016	23446539	Figure 1-2
Checked By: MS	Revision: 0		

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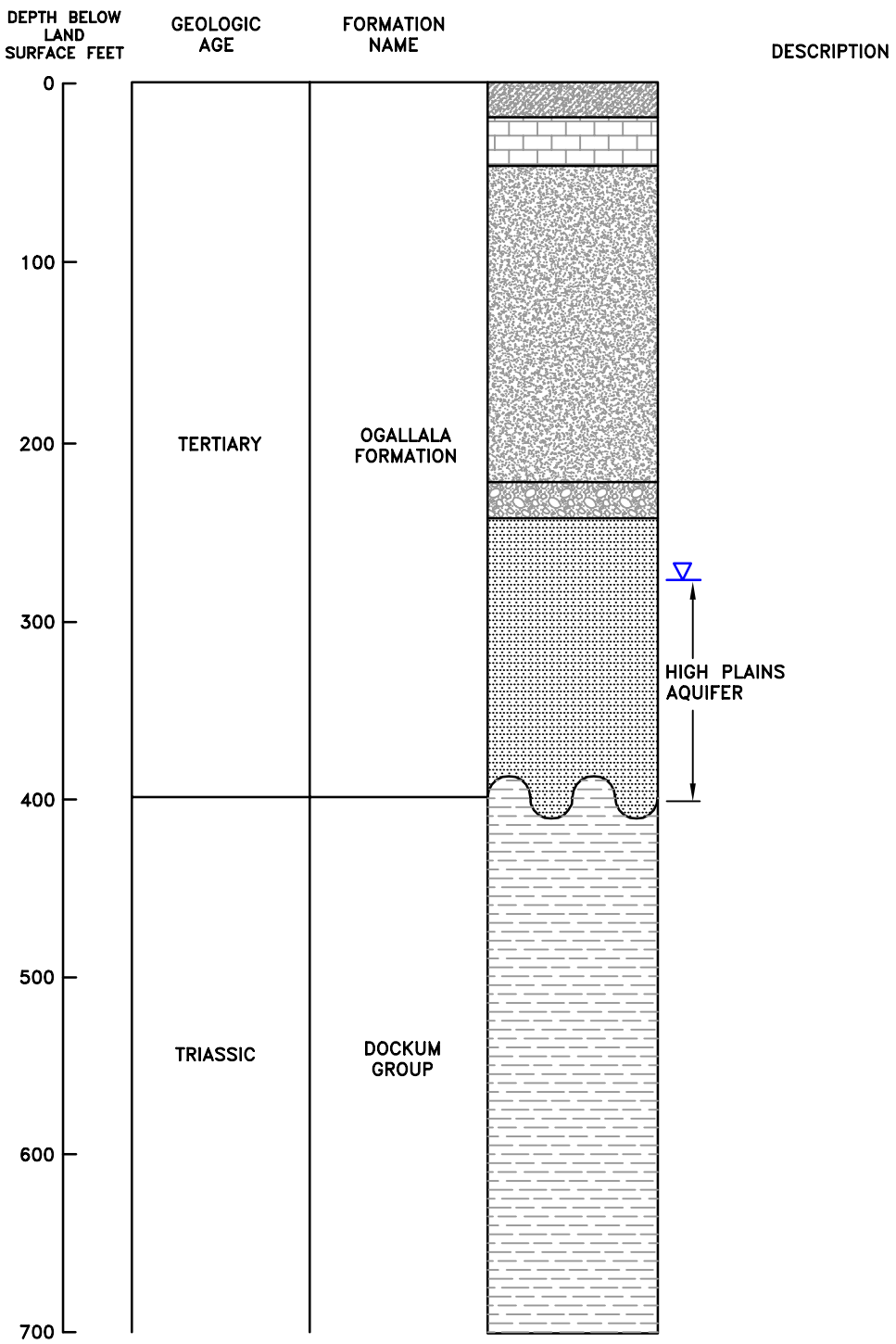


LEGEND

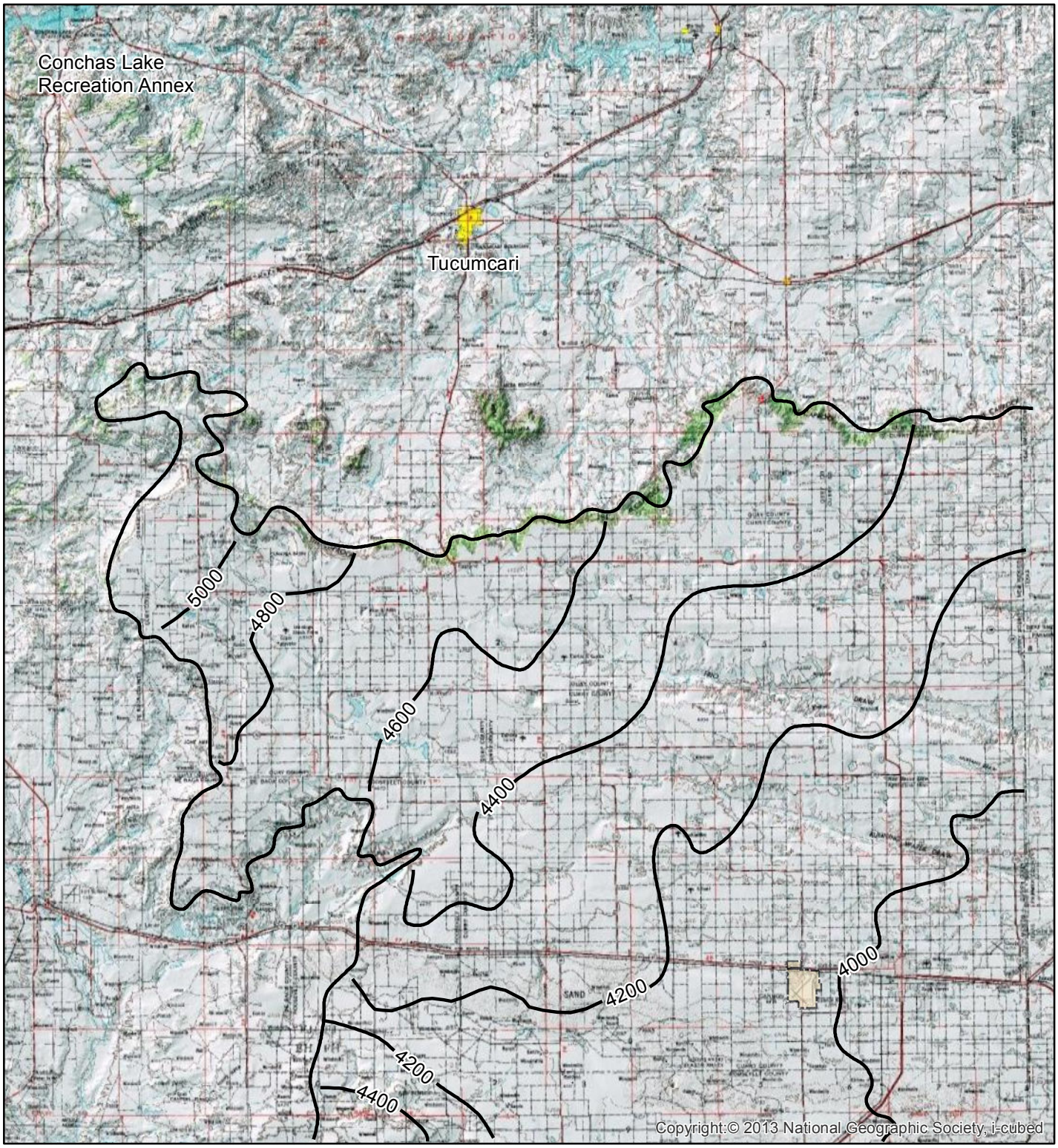
- SILTY SAND WITH CALICHE
- CALICHE
- SAND AND SILTY SAND
- SANDY GRAVEL
- SAND
- SANDSTONE (RED BEDS)
- LITHOLOGIC CONTACT
- EROSIONAL UNCONFORMITY
- WATER LEVEL

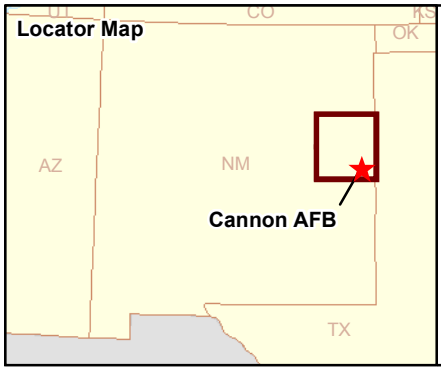
SOURCE: MODIFIED FROM GUTENTAG ET.AL., 1984

GENERALIZED GEOLOGIC STRATA AT CANNON AIR FORCE BASE
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: DPG	DATE: 12/13/13	PROJECT NO. 23446539	FIG. NO. 1-3
CHK'D. BY: CSA	DATE: 12/13/13		

January 15, 2014 11:51:28 a.m.
Drawing: T:\CANNON\23446539\1-3.dwg





Legend

Base Boundary

Groundwater Contour (feet above mean sea level)

Map projection: NAD83 State Plane Feet New Mexico East (FIPS 3001)

N

10 5 0 10 Miles

Elevation and Configuration of the Water Table in the Region of Cannon Air Force Base

Cannon Air Force Base, New Mexico

Drawn By: DPG	Date: 1/8/2016	Project No. 23446539	Figure 1-4
Checked By: MS	Revision: 0		

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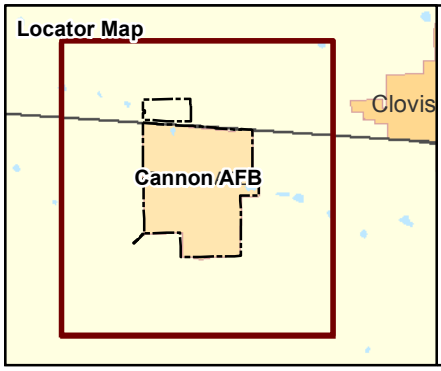

Legend

- Monitoring Well
- Private Water Well
- Base Water Well
- Base Boundary

Map projection: NAD83 State Plane Feet New Mexico, East (FIPS 3001)

N

4,000 2,000 0 4,000 Feet

Water Well Locations on and Near Cannon Air Force Base

Cannon Air Force Base, New Mexico

Drawn By: DPG	Date: 1/8/2016	Project No. 23446539	Figure 1-5
Checked By: MS	Revision: 0		

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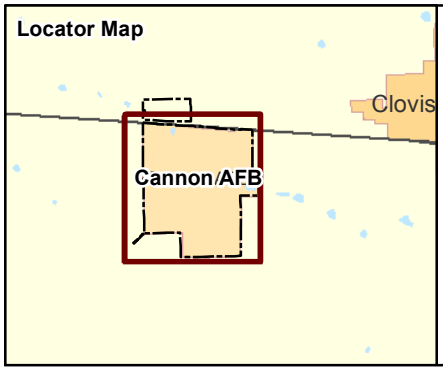
Locator Map



Legend

Base Boundary

in. = inches

N

2,000 1,000 0 2,000 Feet

Map projection: NAD83 State Plane Feet New Mexico East (FIPS 3001)

Distribution of Soils by Type at Cannon Air Force Base

Cannon Air Force Base, New Mexico

Drawn By: DPG	Date: 1/8/2016	Project No. 23446539	Figure 1-6
Checked By: MS	Revision: 0		

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The names of all key participants, organization names and telephone numbers for project, field, and laboratory project managers are presented in **Table 2-1**.

2.1 ROLES AND RESPONSIBILITIES

This section describes the general roles and responsibilities for AFCEC, Cannon AFB, NMED, and contractor personnel.

2.1.1 AFCEC

AFCEC is represented on this project by the Contracting Officer's Representative (COR), an alternate COR, and the Cannon AFB Restoration Program Manager (RPM).

2.1.1.1 AFCEC COR

The AFCEC COR will oversee all aspects of the investigation and serve as a point of contact (POC) who will communicate directly with the Cannon AFB RPM and FPM/URS. In addition, the AFCEC Project Manager (PM) will maintain approval authority for all subcontractors and suppliers used to complete the excavation at SW127. The AFCEC COR has the authority, with Cannon AFB and NMED approval, to modify the field activities specified in this work plan (WP). The AFCEC COR is also responsible for project quality, as well as budget and schedule control. The AFCEC COR will coordinate with Cannon AFB representatives, AFCEC staff, NMED, and FPM/URS to ensure that the field work meets quality objectives, budget, and schedule.

2.1.1.2 Cannon AFB RPM

The Cannon AFB RPM has the overall responsibility for all activities associated with this Accelerated Corrective Measure at Cannon AFB. The Cannon AFB RPM will:

- Coordinate Base access with FPM/URS and its subcontractors.
- Review all plans and reports associated with the New Mexico-Arizona Group PBR.
- Complete oversight of investigation activities completed at Cannon AFB.
- Coordinate reviews with the Environmental Flight Chief
- Be responsible for all direct contact/correspondence with the NMED for this project.
- Assist FPM/URS with obtaining digging permits and site access

2.1.2 NMED

The NMED PM has overall responsibility to ensure the environmental program and the directives specified within the RCRA Hazardous Waste Permit # NM 7572124454 comply with the State of New Mexico's environmental program. NMED is the lead regulatory agency for this field work. The NMED PM will coordinate NMED's involvement and receive all notices, reports, plans, and other documents prior to, during, and following the project. Where necessary, NMED will be responsible for coordinating efforts of other regulatory agencies. In addition to

the NMED PM, other NMED personnel may be involved in this project and may be on site during all or part of the AFCEC field work.

2.1.3 FPM Project Manager

The FPM PM will serve as the direct POC with the AFCEC COR. The FPM PM will be responsible for tracking project scope and schedule.

2.1.4 URS

2.1.4.1 Program Manager

The URS PM will be responsible for monitoring the overall progress of the project, reviewing monthly progress reports, and ensuring that necessary resources are available to the URS PM. The URS PM will also maintain close communication with AFCEC, Cannon AFB, and NMED to assess client satisfaction during performance on this contract.

2.1.4.2 Project Manager

The URS PM is responsible for implementing the project and has the authority to commit the resources necessary to meet project objectives and requirements. The URS PM's primary function is to ensure technical, financial, and scheduling objectives are achieved successfully. The URS PM is responsible for the following:

- Define project objectives and develop a detailed work schedule.
- Establish project policy and procedures to address the specific needs of the project as a whole, as well as the objectives of each task.
- Develop site-specific DQOs and ensure compliance with project DQOs.
- Acquire and apply technical and corporate resources as needed to ensure performance within budget and schedule constraints.
- Orient all support staff concerning the project's special considerations.
- Monitor and direct the project staff.
- Develop and meet ongoing project and/or task staffing requirements, including mechanisms to review and evaluate each task product.
- Review the work performed on each task to ensure its quality, responsiveness, and timeliness.
- Review and analyze overall task order performance with respect to planned requirements and authorizations.
- Approve all reports (deliverables) before their submission to AFCEC, Cannon AFB, and NMED.

- Ultimately be responsible for the preparation and quality of draft, draft final, and final reports.
- Represent the project team at meetings.
- Update and submit the project schedule as necessary.
- Submit monthly progress reports and Funds and Man-Hour Expenditure Reports.

2.1.4.3 URS Field Team Leader

The URS Field Team Leader (FTL) reports directly to the URS PM and is responsible for completion of his assigned activities (i.e., site visits, report preparation, etc.). The FTL is responsible for understanding and implementing provisions of the project documents as they apply to project activities.

2.1.4.4 URS Project Chemist

The URS Project Chemist reports to the URS PM and also works directly with other project personnel. This person is responsible for the data review of all sample results from the analytical laboratories. The URS Chemist will be the POC for subcontractor laboratories.

2.1.4.5 URS Health and Safety Officer

The URS Health and Safety Officer (HSO) will advise the URS PM on health and safety issues; however, the HSO operates independently of the URS PM and can also work directly with the URS Site Safety Officer (SSO). The URS HSO has the responsibility to monitor and verify work is performed in accordance with URS safety requirements. Safety requirements are provided in the Facility-wide Site Safety and Health Plan (SSHP) prepared as a stand-alone document under separate cover (URS 2014a).

2.1.4.6 URS Site Safety Officer

The SSO monitors all site activities and is responsible for the implementation of, and compliance with, URS safety requirements. The SSO reports to the HSO.

2.1.4.7 URS Quality Assurance/Quality Control Officer

The Quality Assurance/Quality Control (QA/QC) Officer will ensure that all QA/QC procedures for this project are being followed.

2.1.4.8 URS Senior Technical Reviewer

The URS Senior Technical Reviewer will be responsible for reviewing project documents prior to delivery. The review(s) will be conducted to ensure that the data presented and conclusions made are reasonable and accurate.

2.1.4.9 URS Risk Assessor

The URS Risk Assessor will be involved in determining risks to human health and/or the environment based on the results of the investigation.

2.2 CONTRACTOR RESPONSIBILITIES

All subcontractors chosen for the project will meet pre-established industry standards of quality criteria and experience for the types of work to be completed. Subcontractors for the project will include analytical laboratories, an excavation contractor, and a surveying contractor.

2.2.1 EMAX Laboratories, Inc. (EMAX) Project Manager

The EMAX PM will report the laboratory results to the URS Project Chemist and will communicate with the URS Project Chemist to facilitate the completion of laboratory activities for the project.

2.2.2 EMAX QA Officer

The EMAX QA Officer has the overall responsibility for data generated by the laboratory, as well as the adherence to acceptable practice. The laboratory QA Officer will communicate data issues through the laboratory PM. In addition, the laboratory QA Officer will:

- Oversee laboratory QA.
- Oversee QA/QC documentation.
- Conduct detailed data review.
- Determine whether to implement laboratory corrective actions, if required.
- Define appropriate laboratory QA procedures.
- Prepare laboratory standard operating procedures.

2.2.3 Excavation Subcontractor

The excavation subcontractor will be selected upon approval of the WP. They will be responsible for adhering to all WP procedures according to contractual arrangements and all other associated plans.

2.2.4 Surveying Subcontractor

The surveying subcontractor will be selected upon approval of the WP. They will be responsible for adhering to all WP procedures according to contractual arrangement and all other associated plans.

TABLE 2-1
KEY PROJECT PERSONNEL
CANNON AFB, NEW MEXICO

Name	Title	Address	Phone Number	Email Address
Brian Renaghan	Contracting Officers Representative (COR) AFCEC	2261 Hughes Avenue, Suite 155 Lackland AFB, TX 78236-9853	(210) 395-8581	brian.renaghan@us.af.mil
Brandy Cavez	Environmental Element Chief Cannon AFB	AFCEC, 402 S. Chindit Blvd., Bldg 102 Cannon AFB, New Mexico 88103-5003	(575) 904-6747	brandy.chavez.1@us.af.mil
Ron Lancaster	Asset Management Flight Chief Cannon AFB	27 SOCES, 506 North DL Ingram Boulevard Cannon AFB, New Mexico 88103-5003	(575) 784-1146	ron.lancaster@cannon.af.mil
Sheen Kottkamp	Environmental Program Manager/Scientist Ageiss Inc.	AFCEC/CZO, 402 S. Chindit Blvd., Bld 102 Cannon AFB, New Mexico 88103-5003	(575) 904-6743	sheen.kottkamp.ctr@us.af.mil
John E. Kieling	Program Manager, Hazardous Waste Bureau, NMED	2905 Rodeo Park Drive East, Building 1 Santa Fe, New Mexico 87505-6303	(505) 476-6035	john.kieling@state.nm.us
Gabriel Acevedo	Project Manager, Hazardous Waste Bureau, NMED	2905 Rodeo Park Drive East, Building 1 Santa Fe, New Mexico 87505-6303	(505) 476-6043	Gabriel.Acevedo@state.nm.us
Gaby Atik	Program Manager FPM Remediations, Inc.	584 Phoenix Drive Rome, New York 13441	(315) 336-7721	g.atik@fmp-remediations.com
Peter Corigliano	Project Manager FPM Remediations, Inc.	584 Phoenix Drive Rome, New York 13441	(315) 336-7721 ext. 211	p.corigliano@fpm-remediations.com
Connie Van Hoesel	Program Chemist FPM Remediations, Inc.	584 Phoenix Drive Rome, New York 13441	(315) 336-7721	c.vanhoesel@fpm-remediations.com
Daniel Baldyga	Deputy Project Manager FPM Remediations, Inc.	584 Phoenix Drive Rome, New York 13441	(315) 336-7721	d.baldyga@fpm-remediations.com
Kamalesh Pinisetti	Program Manager URS Corporation	7720 North 16th Street, Suite 100 Phoenix, AZ 85020	(602) 861-7434	kamalesh.pinisetti@urs.com
Dennis Day	Health and Safety Officer URS Corporation	12120 Shamrock Plaza, Suite 100 Omaha, NE 68154	(402) 952-2525	dennis.day@urs.com
Mike Sonderman	Project Manager URS Corporation	12120 Shamrock Plaza, Suite 100 Omaha, NE 68154	(402) 952-2537	michael.sonderman@aecom.com
Ben Christensen	QA/QC Officer URS Corporation	12120 Shamrock Plaza, Suite 100 Omaha, NE 68154	(402) 952-2571	ben.christensen@aecom.com
Jessica Hoppmann	Site Safety Officer URS Corporation	12120 Shamrock Plaza, Suite 100 Omaha, NE 68154	(402) 952-2662	jessica.hoppmann@aecom.com
TBD	Senior Technical Reviewer URS Corporation	12120 Shamrock Plaza, Suite 100 Omaha, NE 68154	---	---
Kyle Kloewer	Field Team Leader URS Corporation	12120 Shamrock Plaza, Suite 100 Omaha, NE 68154	(402) 952-2562	kyle.kloewer@aecom.com
Jennifer Zorinsky	Project Chemist URS Corporation	12120 Shamrock Plaza, Suite 100 Omaha, NE 68154	(402) 952-2563	jennifer.zorinsky@aecom.com
Sue Volkmer	URS Risk Assessor URS Corporation	12120 Shamrock Plaza, Suite 100 Omaha, NE 68154	(402) 952-2547	susan.volkmer@aecom.com
Andy Mai	Project Manager EMAX	1835 West 205th Street Torrance, CA 90501	(310) 618-8889	amai@emaxlabs.com
Kenette Pimentel	Laboratory QA Manager EMAX	1835 West 205th Street Torrance, CA 90501	(310) 618-8889	kpimentel@emaxlabs.com

This section summarizes the site description and previous investigations completed for SW127. Available sample results are summarized in **Tables 3-1** through **3-5**. The site location and previous sampling locations are shown on **Figures 1-2** and **3-1**, respectively.

3.1 SW127 (SWMU 127) DESCRIPTION

SW127 includes the following components: the wash rack, the old leach field, the OWS, the sand trap, and the new leach field for the refueling truck wash rack at Facility 4095. Facility 4095 originally consisted of a 135-gallon concrete sand trap and leach field that received wash water from the petroleum, oil, and lubricants (POL) refueling truck wash rack. The sand trap measured 2.5 feet x 4.5 feet in aerial extent and extended approximately 3.5 feet below the pavement. The sand trap discharged to a rectangular leach field approximately 300 square feet in size, located approximately 10 feet northeast of the wash rack.

The sand trap and the old leach field became active in 1977. The old leach field became inactive in the 1980s. The old leach field was bypassed in 1991 and an OWS enclosed in a concrete vault was installed in line with the wash-rack's drain pipe and downstream from the sand trap. The old leach field and sand trap remained in place but were no longer used. After the OWS and new leach field were installed, the wastewater from the OWS discharged to the new leach field located approximately 20 feet northeast of the former leach field. Recovered petroleum products temporarily were stored in the OWS for recycling. Potential contaminants include jet propellant, type 4 fuel and oil and grease.

3.2 SITE BACKGROUND

The following contains a summary of available historical data for SW127. Historical data was compared to current (2015) NMED residential SSLs to allow for identification of contamination in excess of current residential SSLs. Risk assessment conclusions were based on identified methods and comparisons to screening levels current at the time of the investigation.

3.2.1 Phase I RCRA Facility Investigation (W-C 1994a)

A Phase I RCRA Facility Investigation (RFI) records search was completed to evaluate whether or not a release of SWMU-related chemicals that could pose a significant risk to human health or the environment has occurred from the sand trap or the two leach fields.

Two 10-foot borings were drilled through holes cut in the concrete wash rack to sample the soil below the pad. Soil samples were collected at the 0.5- to 2-foot, 2- to 4-foot, 4- to 6-foot, and 8- to 10-foot depth intervals to characterize the vertical distribution of possible contaminants. Minor visual and olfactory indications of contamination, probably attributable to spillage of JP-4 jet fuel on the wash rack, was found in soils directly below the concrete pad. The locations of the Phase I soil borings are shown on **Figure 3-1**.

One 60-foot boring was drilled adjacent to the OWS and five 60-foot borings were drilled within the new and abandoned leach fields. Samples were collected at the surface and at the 1.5- to 3.5-foot, 4- to 6-foot, 8- to 10-foot, 18- to 20-foot, 28- to 30-foot, 38- to 40-foot, 48- to 50-foot, and

58- to 60-foot depth intervals to characterize the vertical distribution of possible leachate contaminants percolating into the soil. Only soils from Boring 12708, located in the new leach field, had indications (olfactory) of subsurface contamination beyond the wash rack.

Target analytes for all borings included volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), metals, and total petroleum hydrocarbons (TPH). SVOCs were analyzed only for a limited number of samples to allow for risk assessment. These samples typically included surface samples and one selected sample at depth from each boring. Surficial samples were collected directly under the concrete wash rack and at approximately the 0.2- to 0.5-foot depth interval in areas of plant cover to provide a worst-case situation for risk assessment purposes in the event that VOC contamination was discovered during this investigation. The analytical results for target analytes with at least one detection are included in **Table 3-1** and **Figure 3-2.** Those target analytes not included in **Table 3-1** were not detected in any of the soil samples collected during the sampling event. A summary of the analytical results for the Phase I investigation is as follows:

- Polynuclear aromatic hydrocarbons (PAHs) were identified in the surface soils at borings 12703, 12705, 12706, 12707, and 12708 (identified as sample numbers CAN127-1273-0000, CAN127-1275-0000, CAN127-1276-0000, CAN127-1277-0000, and CAN127-1278-0000 respectively) at concentrations exceeding current (2015) NMED residential SSLs. PAHs exceeding residential SSLs included benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene.

A human health and ecological risk assessment was completed utilizing the analytical data collected for SW127. The baseline risk assessment (W-C 1994b) indicated that human health and ecological risks met USEPA-acceptable levels. Based on the results of the risk assessment, no further action was recommended for SW127.

3.2.2 Phase II RCRA Facility Investigation (W-C 1997)

Eight soil borings were drilled and soil samples collected at the sand trap at the POL wash rack during the Phase II RFI. Two borings were drilled to a depth of 10 feet at the location of the POL wash rack. Three borings were drilled to a depth of 60 feet in/or near the historic leach field area, three borings were drilled to 60 feet in the new leach field area, and one boring was drilled to 60 feet between the two leach fields. The boring locations were chosen to further assess the lateral presence and extent of site-related soil contaminants to the 10-foot and 60-foot depth intervals. The location of the Phase II soil boring locations are shown on **Figure 3-1**.

Surface soil samples from all borings were collected from 0 to 0.5 feet. All borings were also sampled at intervals of 3 to 5 feet and 8 to 10 feet. Other samples collected from the 60-foot borings included depths of 13 to 15 feet, 18 to 20 feet, 23 to 25 feet, 28 to 30 feet, 33 to 35 feet, 38 to 40 feet, 48 to 50 feet, and 58 to 60 feet. Target analytes include VOCs, SVOCs, target analyte list metals, and TPH. The analytical results for target analytes with at least one detection are included in **Table 3-2** and **Figure 3-2**. Those target analytes not included in **Table 3-2** were not detected in any of the soil samples collected during the sampling event. A summary of the analytical results for the Phase II investigation is as follows:

- PAHs were identified in the surface soils at borings 12711, 12712, 12714, and 12715 (identified as sample numbers CAN127-2711-0000, CAN127-2712-0000, CAN127-2714-0000, and CAN127-2715-0000 respectively) at concentrations exceeding current (2015) NMED residential SSLs. PAHs exceeding residential SSLs included benzo(a)pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene.
- TPH were identified in the surface soils at boring 12710 (identified as sample number CAN127-2710-0000) at a concentration exceeding the current (2015) NMED residential SSL.
- TPH was identified in the subsurface soil at boring 12176 (identified as sample number CAN127-2176-0000) at a concentration exceeding the current (2015) NMED residential SSL. The exceedance was identified in the soil sample collected from 48 to 50 feet bgs. Soils from this interval were also sampled and analyzed for VOCs and SVOCs. No exceedances of 2015 NMED residential SSLs for VOC or SVOC analytes were identified. None of the remaining subsurface soil samples identified TPH in concentrations exceeding the NMED residential SSL.
- Acetone and methylene chloride were detected in surface and subsurface soil samples but were qualified as nondetect after they were determined to be laboratory contaminants.

All data from the Phase II report was obtained from subsequent historical reports and raw analytical data. The text of the report was not available for review in the administrative record or available state records. Therefore, no information regarding the conclusions of the Phase II are included in this report.

3.2.3 Corrective Measures Study at SWMUs 31, 48A, 77, and 127 (URS Greiner W-C 2000)

SW127 was evaluated as part of a Corrective Measures Study (CMS) completed for multiple sites at Cannon AFB. The purpose of the CMS was to develop and evaluate corrective measure alternatives and to recommend the final corrective measure that was most cost-effective, reliable, and easiest to implement. The CMS involved the following activities for SW127:

- Compiling all historical data.
- Comparing historical data to USEPA Region VI Media-Specific Screening Levels for residential exposure (Tier 1 Evaluation).
- Completing fate and transport modeling for chemicals of potential concern (COPCs) exceeding Tier 1 levels.
- Developing site-specific target levels (SSTLs) for COPCs exceeding Tier 1 levels and completing a Tier 2 evaluation.
- Evaluating the soil-to-groundwater pathway.
- Completion of a human health and ecological risk assessment.

The evaluation of SW127 utilizing the above criteria provided the following conclusions/recommendations:

- Benzene, xylenes, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene exceeded the Tier 1 values.
- SSTLs were developed for the COPCs identified in excess of Tier 1 levels. Benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene exceeded their SSTLs and were identified as chemicals of concern (COCs).
- Soil to groundwater modeling concluded that the COCs identified would not reach the groundwater at concentrations above tap water screening levels.
- The human health risk assessment identified no unacceptable risk due to the COCs identified in surface and subsurface soils. No valued ecological resources were present at SW127. Therefore, an ecological risk assessment was not warranted.
- No further action was recommended based on the results of the evaluation of the analytical data, the conclusions of the soil to groundwater modeling, and the results of the human health and ecological risk assessments.

3.2.4 Voluntary Corrective Action, AGE Maintenance Facility Shop Pad (SWMU 31) and POL Wash Pad (SWMU 127) (Bay West 2008)

A voluntary corrective action was completed to delineate the extent of soil contamination at SW127. Eighteen soil borings were completed to a depth of 15 feet below ground surface. No staining, visible signs of contamination, or field screening indicated the presence of contamination in these borings. Samples were collected from the 0 to 3 feet below ground surface interval from each boring and analyzed for TPH and PAHs. The soil sample locations are depicted on **Figure 3-1**. The analytical results for target analytes with at least one detection are included in **Table 3-3** and **Figure 3-2**. Those target analytes not included in **Table 3-3** were not detected in any of the soil samples collected during the sampling event. A summary of the analytical results for the voluntary corrective action is as follows:

- Benzo(a)pyrene was identified in boring SB13 at a concentration exceeding the current (2015) NMED residential SSL.
- All remaining analytes were identified at concentrations below the current (2015) NMED residential SSLs.

Based on the analytical results, there are no exceedances of the TPH NMED residential SSLs at SW127. PAHs were detected at the site, but the risk screening evaluation indicated there were no carcinogenic risks or non-carcinogenic hazards that existed at SW127 that could impact human health and the environment. Comparison of recent data to the results for samples collected within the central portion of the wash pad to those collected during the Phase I and II RFI indicate that levels of TPH have decreased. No further action was recommended at SW127.

NMED approved the voluntary corrective action report in a letter dated June 22, 2010. However, NMED indicated that a baseline risk assessment should be completed to include all historical detections of metals and organics identified as potential concerns. The risk assessment should include industrial and residential cleanup scenarios and a vapor intrusion (VI) assessment.

NMED would make the final determination of eligibility for CAC with or without controls based on the review of the risk assessment.

3.2.5 Risk Screening Evaluation for Solid Waste Management Unit (SWMU) 127, Petroleum, Oil, and Lubricants Wash Pad at Facility 4095 (CB&I 2015)

A risk screening evaluation was completed for SW127 to evaluate the potential risks from exposure to analytes. Historical soil sampling data was utilized in the completion of the risk assessment. In addition to the historical data, the following sampling was completed as part of the risk assessment:

- One soil sample was collected in the location of historical boring 2710 to confirm the historical TPH contamination identified in the near surface soils.
- Four site-specific background surface soil samples were also collected and analyzed for PAHs in an attempt to confirm the previously detected PAHs in shallow soils were related to anthropogenic background from nearby asphalt surfaces.
- Soil gas samples were collected from 5 and 10 feet below ground surface at eleven locations throughout SW127.

The soil and soil vapor sample locations are depicted on **Figure 3-1**. The analytical results for the soils samples are included in **Table 3-4** and **Figure 3-2**. The analytical results for the soil vapor samples are included in **Table 3-5**. A summary of the analytical results is as follows:

- TPH were identified in soil samples at concentrations below the current (2015) NMED residential SSLs at SB23 with a maximum concentration of 6.10E+00 for TPH-diesel range organics.
- PAHs were identified in surface soil samples SB19 and SB22 at concentrations exceeding current (2015) NMED residential SSLs. PAHs exceeding SSLs included benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-c,d)pyrene.
- VOCs were identified in the soil vapor samples SV01 through SV11 at concentrations exceeding current (2015) NMED Vapor Intrusion Screening Levels. VOCs exceeding SSLs included benzene, chloroform, and trichloroethylene.

The soil sample collected at SB23 was a resample of the boring collected from the surface soils at boring 12710 in 1994. Based on the analytical results, TPH are no longer present at this location at concentrations in excess of NMED residential SSLs.

3.2.5.1 Background Sampling

Background PAH samples were collected proximate to the site along the adjoining roadways and asphalt parking areas at locations far enough from the site to preclude potential migration of site PAHs to the background sample areas. NMED indicated that the number of samples included in the background study was insufficient and potential water overland flow migrations pathways

had not been robustly characterized to support the conclusion that PAH concentrations are the result of runoff from adjoining asphalt paving.

As these samples were collected as part of historical investigations at SW127, the results are included in **Table 3-4** of this report. Due to the fact that the background study was deemed insufficient and the sample locations are located outside of the boundaries of SW127, these samples will not be discussed further or utilized in future risk assessment calculations for SW127.

3.2.5.2 Vapor Intrusion Assessment

A VI assessment was completed for SW127 based on the analytical results for the soil vapor sampling completed (CB&I 2015). Based on the results of the VI assessments, the total estimated future hypothetical residential cancer risk was 1.10E-6 based on the 5 foot sample results, while the total estimated noncancer hazard index was 0.36. Using the 10 foot sample results, the total estimated future hypothetical residential cancer risk was 2.3E-6, while the total estimated noncancer hazard index was 0.76. The residential risk and hazard driver for both the 5 and 10 foot sampling intervals was trichloroethylene. Based on the results of the VI assessment, no further sampling or assessment of the VI pathway is required.

3.2.5.3 Risk Screening Evaluation for Soil

To evaluate the potential risks from exposure to analytes at SW127, the concentrations detected in soil during the 1993, 1994, and 2008 sampling events were compared to the June 2012 SSLs for industrial and residential receptors as found on Table A-1 of the 2014 Risk Assessment Guidance for Site Investigation and Remediation. Contaminants exceeding the NMED residential SSL were identified as benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, and TPH. All contaminants were identified in surface soil samples with the exception of one TPH sample collected from 48- to 50 feet bgs at boring 2710. Based on this total risk evaluation for organics, the total estimated cancer risk for a future hypothetical residential land use scenario was 7.90E-04, while the estimated total noncancer hazard was 0.50. The primary contributors to cancer risk were the PAHs identified exceeding NMED residential SSLs.

Although there were no metal analytes that exceeded the NMED residential SSLs, total cancer risk and noncancer hazard calculations were performed for the metal constituents using the maximum detected concentrations for all the soil data, per NMED (2014) Guidance. Metals found to be related to background were excluded from the total risk and hazard calculations, as allowed by NMED (2014). The screening values for background metals were the upper tolerance limits from the Cannon Air Force Base Background Study (W-C 1997). Excluding background-related metals, the total estimated cancer risk for a future hypothetical residential land use scenario was zero (as the only carcinogen [arsenic] was determined to be related to background), and the estimated total noncancer hazard was 0.68.

3.2.5.4 Soil to Groundwater Evaluation

An evaluation of potential leaching of COPCs from soil to groundwater was performed using SSLs based on a dilution attenuation factor of 20. The maximum concentrations of benzene, ethylbenzene, toluene, xylenes, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, 2-methylnaphthalene, and naphthalene exceeded the SSLs and were used to evaluate the potential for organic chemicals in the soil to leach to the groundwater. The maximum concentrations of all nine organic COPCs exceeding SSLs protective of groundwater were identified in surface soils.

Four metals (arsenic, cobalt, iron, and thallium) were identified at concentrations exceeding the SSLs protective of groundwater. Metals were evaluated by comparing the concentrations to the background levels of metals identified at Cannon AFB. Based on this comparison, arsenic, iron, and thallium were determined to be related to background. Cobalt concentrations exceeded the SSL and background concentration in one surface soil sample.

The depth to groundwater at the site is approximately 300 feet bgs, the nearest groundwater supply well is screened at 360-410 feet bgs, and evapotranspiration rates are very high in the area. Based on the identification of all exceedances in the surface soil samples, the depth to groundwater and evapotranspiration rates, adverse impacts to the groundwater were considered highly unlikely.

3.2.5.5 Ecological Risk Evaluation

The ecological risk evaluation indicated the following:

- No sensitive areas were identified at or adjacent to SW127.
- SW127 did not contain other land areas which could be considered viable ecological habitat.
- SW127 did not contain any perennial or ephemeral aquatic features.
- SW127 was located in close proximity to the active flight line and other industrial facilities.

As no viable ecological habitat was identified at SW127, no ecological receptors were expected to be present. Therefore, based on the NMED Ecological Site Exclusion Criteria Decision Tree, ecological risks were not identified as a concern and a detailed ecological assessment was not warranted.

3.2.5.6 Conclusions

Based on the results of the risk screening evaluation, cumulative cancer risk and noncancer hazards for future hypothetical residential receptors were unacceptable, as estimated cancer risks exceed 1.00E-04. Based on the risks identified for residential receptors, the future use of the site was restricted and the SW127 was evaluated for future industrial land use. The total estimated cumulative industrial cancer risk was 8.4E-6, which is below 1E-5. The total estimated cumulative noncancer hazard was 0.39, which also is below NMED's target noncancer hazard threshold of 1.0. Based on the results of the risk screening, the level of risk and hazard for

current and future potential industrial receptors were acceptable, as the estimated cumulative risk is less than or equal to 1.00E-5 and the hazard index was less than 1. Therefore, SW127 was recommended as CAC with Control.

The primary contributors to cancer risk were the PAHs identified exceeding NMED residential SSLs. The VI, soil-to-groundwater and ecological evaluations did not identify any risks to future hypothetical residential receptors.

TABLE 3-1
1993 PHASE I RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-1271-0000 0313740003SA 09/23/93			CAN127-1271-0002 0313740004SA 09/23/93			CAN127-1271-0004 0313740005SA 09/23/93			CAN127-1271-0008 0313740006SA 09/23/93			CAN127-1272-0000 0313740007SA 09/23/93			CAN127-1272-0002 0313740008SA 09/23/93			CAN127-1272-0004 0313740009SA 09/23/93		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (mg/kg)																								
Benzene	1.78E+01	1.20E-03	<	5.80E-03	U	<	5.80E-03	U	<	5.80E-03	U	<	5.70E-03	U	<	5.80E-03	U	<	6.00E-03	U	<	5.90E-03	U
2-Butanone (MEK)	3.74E+04	7.10E-03	<	1.20E-02	U	<	1.20E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U	<	1.20E-02	U
Carbon tetracholride	1.07E+01	2.70E-03	<	5.80E-03	U	<	5.80E-03	U	<	5.80E-03	U	<	5.70E-03	U	<	5.80E-03	U	<	6.00E-03	U	<	5.90E-03	U
Chlorobenzene	3.78E+02	1.30E-03	<	5.80E-03	U	<	5.80E-03	U	<	5.80E-03	U	<	5.70E-03	U	<	5.80E-03	U	<	6.00E-03	U	<	5.90E-03	U
1,2-Dichloroethane	8.32E+00	1.90E-03	<	5.80E-03	U	<	5.80E-03	U	<	5.80E-03	U	<	5.70E-03	U	<	5.80E-03	U	<	6.00E-03	U	<	5.90E-03	U
1,2-Dichloroethane (total)	8.32E+00	1.30E-03	<	5.80E-03	U	<	5.80E-03	U	<	5.80E-03	U	<	5.70E-03	U	<	5.80E-03	U	<	6.00E-03	U	<	5.90E-03	U
1,2-Dichloropropane	1.78E+01	1.30E-02	<	5.80E-03	U	<	5.80E-03	U	<	5.80E-03	U	<	5.70E-03	U	<	5.80E-03	U	<	6.00E-03	U	<	5.90E-03	U
Ethylbenzene	7.51E+01	1.30E-03	<	5.80E-03	U	<	5.80E-03	U	<	5.80E-03	U	<	5.70E-03	U	<	5.80E-03	U	<	6.00E-03	U	<	5.90E-03	U
Tetrachloroethene	1.11E+02	2.90E-03	<	5.80E-03	U	<	5.80E-03	U	<	5.80E-03	U	<	5.70E-03	U	<	5.80E-03	U	<	6.00E-03	U	<	5.90E-03	U
Toluene	5.23E+03	1.80E-02	<	5.80E-03	U	<	5.80E-03	U	<	5.80E-03	U	<	5.70E-03	U	<	5.80E-03	U	<	6.00E-03	U	<	5.90E-03	U
1,1,1-Tricholorethane	1.44E+04	1.80E-03	<	5.80E-03	U	<	5.80E-03	U	<	5.80E-03	U	<	5.70E-03	U	<	5.80E-03	U	<	6.00E-03	U	<	5.90E-03	U
Trichlorethene	6.77E+00	2.30E-03	<	5.80E-03	U	<	5.80E-03	U	<	5.80E-03	U	<	5.70E-03	U	<	5.80E-03	U	<	6.00E-03	U	<	5.90E-03	U
Xylenes (total)	8.71E+02	1.20E-02	<	5.80E-03	U	<	5.80E-03	U	<	5.80E-03	U	<	5.70E-03	U	<	5.80E-03	U	<	6.00E-03	U	<	5.90E-03	U
Semivolatile Organics (mg/kg)																								
Acenaphthene	3.48E+03	1.50E-01	<	3.80E-01	U	NS			<	3.80E-01	U	NS			<	3.80E-01	U	<	4.00E-01	U	NS		
Anthracene	1.74E+04	4.80E-02	<	3.80E-01	U	NS			<	3.80E-01	U	NS			<	3.80E-01	U	<	4.00E-01	U	NS		
Benzo(a)anthracene	1.53E+00	8.00E+00	<	3.80E-01	U	NS			<	3.80E-01	U	NS			<	3.80E-01	U	<	4.00E-01	U	NS		
Benzo(a)pyrene	1.53E-01	8.60E+00	<	3.80E-01	U	NS			<	3.80E-01	U	NS			<	3.80E-01	U	<	4.00E-01	U	NS		
Benzo(b)fluoranthene	1.53E+00	1.70E+01	<	3.80E-01	U	NS			<	3.80E-01	U	NS			<	3.80E-01	U	<	4.00E-01	U	NS		
Benzo(g,h,i)perylene	--	5.10E+00	<	3.80E-01	U	NS			<	3.80E-01	U	NS			<	3.80E-01	U	<	4.00E-01	U	NS		
Butyl benzyl phtalate[1]	2.90E+02	1.10E-01	<	3.80E-01	U	NS			1.10E-01	3.80E-01	J	NS			<	3.80E-01	U	<	4.00E-01	U	NS		
Carbazole	--	1.50E+00	<	3.80E-01	U	NS			<	3.80E-01	U	NS			<	3.80E-01	U	<	4.00E-01	U	NS		
Chrysene	1.53E+02	1.40E+01	<	3.80E-01	U	NS			<	3.80E-01	U	NS			<	3.80E-01	U	<	4.00E-01	U	NS		
Di-n-butyl phthalate	6.16E+03	1.30E-01	<	3.80E-01	U	NS			1.30E-01	3.80E-01	J	NS			<	3.80E-01	U	<	4.00E-01	U	NS		
Fluoranthene	2.32E+03	1.70E+01	<	3.80E-01	U	NS			<	3.80E-01	U	NS			<	3.80E-01	U	<	4.00E-01	U	NS		
Fluorene	2.32E+03	2.90E-01	<	3.80E-01	U	NS			<	3.80E-01	U	NS			<	3.80E-01	U	<	4.00E-01	U	NS		
Indeno(1,2,3-cd)pyrene	1.53E+00	5.10E+00	<	3.80E-01	U	NS			<	3.80E-01	U	NS			<	3.80E-01	U	<	4.00E-01	U	NS		
2-Methylnaphthalene[1]	2.40E+02	2.50E-01	<	3.80E-01	U	NS			<	3.80E-01	U	NS			<	3.80E-01	U	<	4.00E-01	U	NS		
Phenanthrene	1.74E+03	8.10E+00	<	3.80E-01	U	NS			<	3.80E-01	U	NS			<	3.80E-01	U	<	4.00E-01	U	NS		
Pyrene	1.74E+03	1.70E+01	<	3.80E-01	U	NS			<	3.80E-01	U	NS			<	3.80E-01	U	<	4.00E-01	U	NS		

TABLE 3-1
1993 PHASE I RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-1271-0000 0313740003SA 09/23/93			CAN127-1271-0002 0313740004SA 09/23/93			CAN127-1271-0004 0313740005SA 09/23/93			CAN127-1271-0008 0313740006SA 09/23/93			CAN127-1272-0000 0313740007SA 09/23/93			CAN127-1272-0002 0313740008SA 09/23/93			CAN127-1272-0004 0313740009SA 09/23/93		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																						
Aluminum	7.80E+04	1.16E+04	9.27E+03	1.15E+01		3.83E+03	2.31E+01		5.37E+03	2.31E+01	J	4.00E+03	2.28E+01		7.22E+03	1.16E+01		3.11E+03	6.05E+01		4.24E+03	5.88E+01	
Antimony	3.13E+01	7.80E+00	<	6.90E+00	U	<	1.38E+01	U	<	1.39E+01	U	<	1.37E+01	U	<	6.90E+00	U	<	3.63E+01	U	<	3.53E+01	U
Arsenic	4.25E+00	2.90E+00	2.00E+00	5.80E-01		2.10E+00	5.80E-01		2.20E+00	5.80E-01	J	1.10E+00	5.70E-01		1.90E+00	5.80E-01		1.60E+00	6.00E-01		1.30E+00	5.90E-01	
Barium	1.56E+04	9.71E+02	9.17E+01	1.20E+00		9.71E+02	2.30E+00		2.85E+02	2.30E+00		1.63E+02	2.30E+00		9.19E+01	1.20E+00		2.06E+02	6.00E+00		4.35E+02	5.90E+00	
Beryllium	1.56E+02	8.30E-01	6.70E-01	2.30E-01		3.30E-01	4.60E-01	J	4.60E-01	4.60E-01		2.80E-01	4.60E-01	J	5.30E-01	2.30E-01		<	1.20E+00	U	<	1.20E+00	U
Cadmium	7.05E+01	4.20E+00	<	5.80E-01	UJ	3.00E+00	1.20E+00		2.10E+00	1.20E+00		2.00E+00	1.10E+00		1.10E+00	5.80E-01		4.20E+00	3.00E+00		2.90E+00	2.90E+00	
Calcium	1.30E+07	2.48E+05	1.92E+04	2.31E+01	J	1.91E+05	4.61E+01		1.37E+05	4.62E+01		1.32E+05	4.57E+01		5.69E+04	2.31E+01		2.47E+05	1.21E+02		2.48E+05	1.18E+02	
Chromium	9.66E+01	1.69E+01	9.90E+00	1.20E+00		4.50E+00	2.30E+00		6.00E+00	2.30E+00	J	3.50E+00	2.30E+00		7.30E+00	1.20E+00		7.00E+00	6.00E+00		<	5.90E+00	U
Cobalt[1]	2.30E+01	5.30E+00	4.50E+00	1.20E+00		2.50E+00	2.30E+00		2.90E+00	2.30E+00	J	1.80E+00	2.30E+00	J	3.70E+00	1.20E+00		<	6.00E+00	U	<	5.90E+00	U
Copper	3.13E+03	5.49E+01	8.90E+00	2.30E+00		2.80E+00	4.60E+00	J	5.00E+00	4.60E+00	J	2.20E+00	4.60E+00	J	7.30E+00	2.30E+00		2.60E+00	1.21E+01	J	1.90E+00	1.18E+01	J
Iron	5.48E+04	3.36E+04	8.61E+03	1.15E+01		3.35E+03	2.31E+01		4.94E+03	2.31E+01	J	3.36E+04	2.28E+01		6.38E+03	1.16E+01		2.76E+03	6.05E+01		3.18E+03	5.88E+01	
Lead	4.00E+02	4.82E+01	7.30E+00	5.80E-01		2.70E+00	2.90E+00	J	3.20E+00	1.20E+00		2.50E+00	2.90E+00	J	4.40E+00	2.90E+00		1.60E+00	6.00E+00	J	2.40E+00	2.90E+00	J
Magnesium	3.39E+05	1.19E+04	2.03E+03	2.31E+01		2.69E+03	4.61E+01		2.83E+03	4.62E+01		3.33E+03	4.57E+01		1.89E+03	2.31E+01		2.93E+03	1.21E+02		4.11E+03	1.18E+02	
Manganese	1.05E+04	3.32E+02	1.79E+02	1.20E+00		4.69E+01	2.30E+00		6.96E+01	2.30E+00	J	4.11E+01	2.30E+00		1.38E+02	1.20E+00		3.74E+01	6.00E+00		4.39E+01	5.90E+00	
Mercury	2.38E+01	1.10E-01	<	1.20E-01	U	<	1.20E-01	U	<	1.20E-01	U	<	1.10E-01	U	<	1.20E-01	U	<	1.20E-01	U	<	1.20E-01	U
Nickel	1.56E+03	4.60E+01	1.04E+01	4.60E+00		5.80E+00	9.20E+00	J	7.40E+00	9.20E+00	J	5.20E+00	9.10E+00	J	8.00E+00	4.60E+00		5.10E+00	2.42E+01	J	<	2.35E+01	U
Potassium	1.56E+07	2.52E+03	1.68E+03	5.77E+02		7.44E+02	1.15E+03	J	1.01E+03	1.16E+04	J	9.99E+02	1.14E+03	J	1.41E+03	5.79E+02		4.68E+02	3.02E+03	J	6.95E+02	2.94E+03	J
Selenium	3.91E+02	2.70E-01	<	1.20E+00	UJ	<	1.20E+00	UJ	<	2.30E+00	U	<	1.10E+00	UJ	<	1.20E+00	UJ	<	1.20E+00	UJ	<	1.20E+00	UJ
Silver	3.91E+02	3.60E+00	6.90E-01	1.20E+00	J	1.10E+00	2.30E+00	J	1.20E+00	2.30E+00	J	8.40E-01	2.30E+00	J	6.80E-01	1.20E+00	J	3.60E+00	6.00E+00	J	2.60E+00	5.90E+00	J
Thallium	7.82E-01	1.40E-01	<	2.30E+00	U	<	1.20E+00	UJ	<	1.20E+00	UJ	<	1.10E+00	UJ	<	1.20E+00	UJ	<	1.20E+00	UJ	<	1.20E+00	UJ
Vanadium	3.94E+02	2.30E+01	1.79E+01	1.20E+00		1.48E+01	2.30E+00		1.98E+01	2.30E+00	J	1.18E+01	2.30E+00		1.42E+01	1.20E+00		1.24E+01	6.00E+00		1.13E+01	5.90E+00	
Zinc	2.35E+04	3.85E+01	2.19E+01	2.30E+00		1.23E+01	4.60E+00		1.18E+01	4.60E+00	J	1.00E+01	4.60E+00		1.74E+01	2.30E+00		6.30E+00	1.21E+01	J	1.12E+01	1.18E+01	J
TPH (mg/kg)																						
Total Petroleum Hydrocarbons	1.00E+03	3.44E+02	<	4.61E+01	U	<	4.61E+01	U	4.66E+01	4.62E+01		4.86E+01	4.57E+01		9.32E+01	4.63E+01		4.87E+01	4.84E+01		5.01E+01	4.71E+01	

Notes:

5.50E-01 = value exceeds NMED residential soil screening levels

-- = no screening level established

[1] = Screening value based on USEPA 2015 regional screening levels

< = not detected

AFB = Air Force Base

J = Estimated value below reporting limit

mg/kg = milligrams per kilogram

NMED = New Mexico Environment Department

NS = not sampled

Qual = Qualification

RL = Reporting Limit

SSL = soil screening level

TPH = total petroleum hydrocarbons

U = Not detected

UJ = Estimated Nondetect

USEPA = United States Environmental Protection Agency

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CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-1272-0008 0313740010SA 09/23/93			CAN127-1273-0000 0312160001SA 09/13/93			CAN127-1273-0002 0312160002SA 09/13/93			CAN127-1273-0004 0312160004SA 09/13/93			CAN127-1273-0008 0312160003SA 09/13/93			CAN127-1273-0018 0312160005SA 09/13/93			CAN127-1273-0028 0312160006SA 09/13/93		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (mg/kg)																								
Benzene	1.78E+01	1.20E-03	<	5.90E-03	U	<	5.20E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.50E-03	U
2-Butanone (MEK)	3.74E+04	7.10E-03	<	1.20E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Carbon tetracholride	1.07E+01	2.70E-03	<	5.90E-03	U	<	5.20E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.50E-03	U
Chlorobenzene	3.78E+02	1.30E-03	<	5.90E-03	U	<	5.20E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.50E-03	U
1,2-Dichloroethane	8.32E+00	1.90E-03	<	5.90E-03	U	<	5.20E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.50E-03	U
1,2-Dichloroethane (total)	8.32E+00	1.30E-03	<	5.90E-03	U	<	5.20E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.50E-03	U
1,2-Dichloropropane	1.78E+01	1.30E-02	<	5.90E-03	U	<	5.20E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.50E-03	U
Ethylbenzene	7.51E+01	1.30E-03	<	5.90E-03	U	<	5.20E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.50E-03	U
Tetrachloroethene	1.11E+02	2.90E-03	<	5.90E-03	U	<	5.20E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.50E-03	U
Toluene	5.23E+03	1.80E-02	<	5.90E-03	U	1.20E-02	5.20E-03		<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	3.50E-03	5.60E-03	J	<	5.50E-03	U
1,1,1-Tricholorethane	1.44E+04	1.80E-03	<	5.90E-03	U	<	5.20E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.50E-03	U
Trichlorethene	6.77E+00	2.30E-03	<	5.90E-03	U	<	5.20E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.50E-03	U
Xylenes (total)	8.71E+02	1.20E-02	<	5.90E-03	U	3.40E-03	5.20E-03	J	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.50E-03	U
Semivolatile Organics (mg/kg)																								
Acenaphthene	3.48E+03	1.50E-01	NS			<	3.50E-01	U	NS			NS			<	3.60E-01	U	NS			NS		
Anthracene	1.74E+04	4.80E-02	NS			4.80E-02	3.50E-01	J	NS			NS			<	3.60E-01	U	NS			NS		
Benzo(a)anthracene	1.53E+00	8.00E+00	NS			5.10E-01	3.50E-01		NS			NS			<	3.60E-01	U	NS			NS		
Benzo(a)pyrene	1.53E-01	8.60E+00	NS			**5.50E-01**	3.50E-01		NS			NS			<	3.60E-01	U	NS			NS		
Benzo(b)fluoranthene	1.53E+00	1.70E+01	NS			9.60E-01	3.50E-01		NS			NS			<	3.60E-01	U	NS			NS		
Benzo(g,h,i)perylene	--	5.10E+00	NS			4.70E-01	3.50E-01		NS			NS			<	3.60E-01	U	NS			NS		
Butyl benzyl phtalate[1]	2.90E+02	1.10E-01	NS			<	3.50E-01	U	NS			NS			<	3.60E-01	U	NS			NS		
Carbazole	--	1.50E+00	NS			4.60E-02	3.50E-01	J	NS			NS			<	3.60E-01	U	NS			NS		
Chrysene	1.53E+02	1.40E+01	NS			7.20E-01	3.50E-01		NS			NS			<	3.60E-01	U	NS			NS		
Di-n-butyl phthalate	6.16E+03	1.30E-01	NS			<	3.50E-01	U	NS			NS			<	3.60E-01	U	NS			NS		
Fluoranthene	2.32E+03	1.70E+01	NS			1.50E+00	3.50E-01		NS			NS			<	3.60E-01	U	NS			NS		
Fluorene	2.32E+03	2.90E-01	NS			<	3.50E-01	U	NS			NS			<	3.60E-01	U	NS			NS		
Indeno(1,2,3-cd)pyrene	1.53E+00	5.10E+00	NS			3.90E-01	3.50E-01		NS			NS			<	3.60E-01	U	NS			NS		
2-Methylnaphthalene[1]	2.40E+02	2.50E-01	NS			<	3.50E-01	U	NS			NS			<	3.60E-01	U	NS			NS		
Phenanthrene	1.74E+03	8.10E+00	NS			5.70E-01	3.50E-01		NS			NS			<	3.60E-01	U	NS			NS		
Pyrene	1.74E+03	1.70E+01	NS			1.40E+00	3.50E-01		NS			NS			<	3.60E-01	U	NS			NS		

TABLE 3-1
1993 PHASE I RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-1272-0008 0313740010SA 09/23/93			CAN127-1273-0000 0312160001SA 09/13/93			CAN127-1273-0002 0312160002SA 09/13/93			CAN127-1273-0004 0312160004SA 09/13/93			CAN127-1273-0008 0312160003SA 09/13/93			CAN127-1273-0018 0312160005SA 09/13/93			CAN127-1273-0028 0312160006SA 09/13/93		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																								
Aluminum	7.80E+04	1.16E+04	4.18E+03	2.38E+01		7.65E+03	1.05E+01		1.16E+04	1.09E+01		7.78E+03	2.18E+01		4.42E+03	1.10E+01		5.74E+03	2.24E+01		6.02E+03	1.11E+01	
Antimony	3.13E+01	7.80E+00	<	1.43E+01	U	<	6.30E+00	U	<	6.50E+00	U	<	1.31E+01	U	<	6.60E+00	U	<	1.35E+01	U	<	6.60E+00	U
Arsenic	4.25E+00	2.90E+00	1.10E+00	5.90E-01		2.20E+00	5.20E-01		2.40E+00	5.50E-01		2.30E+00	5.50E-01		1.50E+00	5.50E-01		1.20E+00	5.60E-01		1.30E+00	5.50E-01	
Barium	1.56E+04	9.71E+02	9.84E+01	2.40E+00		1.15E+02	1.00E+00		9.90E+01	1.10E+00		2.55E+02	2.20E+00		9.39E+01	1.10E+00		1.10E+02	2.20E+00		1.37E+02	1.10E+00	
Beryllium	1.56E+02	8.30E-01	3.40E-01	4.80E-01	J	4.60E-01	2.10E-01		7.00E-01	2.20E-01		3.50E-01	4.40E-01	J	3.00E-01	2.20E-01		2.40E-01	4.50E-01	J	2.30E-01	2.20E-01	
Cadmium	7.05E+01	4.20E+00	1.80E+00	1.20E+00		<	5.20E-01	U	<	5.50E-01	U	<	1.10E+00	U	<	5.50E-01	U	<	1.10E+00	U	<	5.50E-01	U
Calcium	1.30E+07	2.48E+05	1.48E+05	4.75E+01		1.03E+04	2.09E+01		1.40E+04	2.18E+01		1.35E+05	4.37E+01		8.52E+04	2.20E+01		1.35E+05	4.48E+01		7.75E+04	2.21E+01	
Chromium	9.66E+01	1.69E+01	3.90E+00	2.40E+00		1.69E+01	1.00E+00		1.03E+01	1.10E+00		4.00E+00	2.20E+00		3.40E+00	1.10E+00		2.80E+00	2.20E+00		2.90E+00	1.10E+00	
Cobalt[1]	2.30E+01	5.30E+00	1.30E+00	2.40E+00	J	3.40E+00	1.00E+00		4.80E+00	1.10E+00		3.60E+00	2.20E+00		2.00E+00	1.10E+00		1.40E+00	2.20E+00		1.20E+00	1.10E+00	
Copper	3.13E+03	5.49E+01	2.20E+00	4.80E+00	J	6.80E+00	2.10E+00		7.90E+00	2.20E+00		5.20E+00	4.40E+00		2.60E+00	2.20E+00		2.30E+00	4.50E+00	J	2.00E+00	2.20E+00	J
Iron	5.48E+04	3.36E+04	3.21E+03	2.38E+01		7.77E+03	1.05E+01		1.05E+04	1.09E+01		6.37E+03	2.18E+01		3.36E+03	1.10E+01		4.29E+03	2.24E+01		3.31E+03	1.11E+01	
Lead	4.00E+02	4.82E+01	2.40E+00	3.00E+00		3.08E+01	1.05E+01		8.00E+00	1.10E+00		4.20E+00	5.50E-01		3.20E+00	5.50E-01		4.00E+00	5.60E-01		3.40E+00	2.80E+00	
Magnesium	3.39E+05	1.19E+04	3.37E+03	4.75E+01		1.57E+03	2.09E+01		2.36E+03	2.18E+01		3.27E+03	4.37E+01		2.57E+03	2.20E+01		5.25E+03	4.48E+01		6.82E+03	1.10E+00	
Manganese	1.05E+04	3.32E+02	4.25E+01	2.40E+00		1.66E+02	1.00E+00		2.06E+02	1.10E+00		9.30E+01	2.20E+00		5.58E+01	1.10E+00		6.09E+01	2.20E+00		3.05E+01		
Mercury	2.38E+01	1.10E-01	<	1.20E-01	UJ	<	1.00E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U
Nickel	1.56E+03	4.60E+01	5.20E+00	9.50E+00	J	7.00E+00	4.20E+00		1.14E+01	4.40E+00		8.30E+00	8.70E+00	J	4.50E+00	4.40E+00		5.20E+00	9.00E+00	J	3.60E+00	4.40E+00	J
Potassium	1.56E+07	2.52E+03	1.06E+03	1.19E+03	J	1.91E+03	5.23E+02		2.40E+03	5.45E+02		1.74E+03	1.09E+03		1.27E+03	5.49E+02		1.91E+03	1.12E+03		1.53E+03	5.53E+02	
Selenium	3.91E+02	2.70E-01	<	1.20E+00	UJ	<	5.20E-01	UJ	<	1.10E+00	J	<	1.10E+00	J	<	1.10E+00	J	<	1.10E+00	J	<	1.10E+00	J
Silver	3.91E+02	3.60E+00	1.40E+00	2.40E+00	J	<	1.00E+00	U	<	1.10E+00		<	2.20E+00	U	<	1.10E+00	U	<	2.20E+00	U	<	1.10E+00	U
Thallium	7.82E-01	1.40E-01	<	1.20E+00	UJ	<	5.20E-01	U	1.30E-01	5.50E-01	J	<	1.10E+00	J	<	1.10E+00	J	<	1.10E+00	J	<	1.10E+00	J
Vanadium	3.94E+02	2.30E+01	1.12E+01	2.40E+00		1.76E+01	1.00E+00		2.14E+01	1.10E+00		1.79E+01	2.20E+00		1.24E+01	1.10E+00		1.12E+01	2.20E+00		1.37E+01	1.10E+00	
Zinc	2.35E+04	3.85E+01	9.90E+00	4.80E+00		2.54E+01	2.10E+00		2.44E+01	2.20E+00		1.58E+01	4.40E+00		9.00E+00	2.20E+00		1.12E+01	4.50E+00		9.80E+00	2.20E+00	
TPH (mg/kg)																								
Total Petroleum Hydrocarbons	1.00E+03	3.44E+02	<	4.75E+01	U	6.68E+01	4.19E+01		<	4.36E+01	U	<	4.37E+01	U	<	4.39E+01	U	<	4.48E+01	U	<	4.42E+01	U

Notes:

5.50E-01 = value exceeds NMED residential soil screening levels

-- = no screening level established

[1] = Screening value based on USEPA 2015 regional screening levels

< = not detected

AFB = Air Force Base

J = Estimated value below reporting limit

mg/kg = milligrams per kilogram

NMED = New Mexico Environment Department

NS = not sampled

Qual = Qualification

RL = Reporting Limit

SSL = soil screening level

TPH = total petroleum hydrocarbons

U = Not detected

UJ = Estimated Nondetect

USEPA = United States Environmental Protection Agency

TABLE 3-1
1993 PHASE I RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-1273-0038 0312160007SA 09/13/93			CAN127-1273-0048 0312160008SA 09/13/93			CAN127-1273-0058 0312160009SA 09/13/93			CAN127-1274-0000 0312770001SA 09/14/93			CAN127-1274-0002 0312770002SA 09/14/93			CAN127-1274-0004 0312770003SA 09/14/93			CAN127-1274-0008 0312770004SA 09/14/93		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (mg/kg)																								
Benzene	1.78E+01	1.20E-03	<	5.50E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.70E-03	U
2-Butanone (MEK)	3.74E+04	7.10E-03	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Carbon tetracholride	1.07E+01	2.70E-03	<	5.50E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.70E-03	U
Chlorobenzene	3.78E+02	1.30E-03	<	5.50E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.70E-03	U
1,2-Dichloroethane	8.32E+00	1.90E-03	<	5.50E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.70E-03	U
1,2-Dichloroethane (total)	8.32E+00	1.30E-03	<	5.50E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.70E-03	U
1,2-Dichloropropane	1.78E+01	1.30E-02	<	5.50E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.70E-03	U
Ethylbenzene	7.51E+01	1.30E-03	<	5.50E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.70E-03	U
Tetrachloroethene	1.11E+02	2.90E-03	<	5.50E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.70E-03	U
Toluene	5.23E+03	1.80E-02	<	5.50E-03	U	<	5.50E-03	U	<	5.40E-03	J	2.30E-03	5.50E-03	J	2.80E-03	5.50E-03	J	<	5.50E-03	U	<	5.70E-03	U
1,1,1-Tricholorethane	1.44E+04	1.80E-03	<	5.50E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.70E-03	U
Trichlorethene	6.77E+00	2.30E-03	<	5.50E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.70E-03	U
Xylenes (total)	8.71E+02	1.20E-02	<	5.50E-03	U	<	5.50E-03	U	<	5.40E-03	U	1.50E-03	5.50E-03	J	<	5.50E-03	U	<	5.50E-03	U	<	5.70E-03	U
Semivolatile Organics (mg/kg)																								
Acenaphthene	3.48E+03	1.50E-01	NS			NS			NS			<	3.70E-01	U	NS			NS			NS			
Anthracene	1.74E+04	4.80E-02	NS			NS			NS			<	3.70E-01	U	NS			NS			NS			
Benzo(a)anthracene	1.53E+00	8.00E+00	NS			NS			NS			8.30E-02	3.70E-01	J	NS			NS			NS			
Benzo(a)pyrene	1.53E-01	8.60E+00	NS			NS			NS			1.20E-01	3.70E-01	J	NS			NS			NS			
Benzo(b)fluoranthene	1.53E+00	1.70E+01	NS			NS			NS			2.70E-01	3.70E-01	J	NS			NS			NS			
Benzo(g,h,i)perylene	--	5.10E+00	NS			NS			NS			7.20E-02	3.70E-01	J	NS			NS			NS			
Butyl benzyl phtalate[1]	2.90E+02	1.10E-01	NS			NS			NS			<	3.70E-01	U	NS			NS			NS			
Carbazole	--	1.50E+00	NS			NS			NS			<	3.70E-01	U	NS			NS			NS			
Chrysene	1.53E+02	1.40E+01	NS			NS			NS			2.10E-01	3.70E-01	J	NS			NS			NS			
Di-n-butyl phthalate	6.16E+03	1.30E-01	NS			NS			NS			<	3.70E-01	U	NS			NS			NS			
Fluoranthene	2.32E+03	1.70E+01	NS			NS			NS			3.00E-01	3.70E-01	J	NS			NS			NS			
Fluorene	2.32E+03	2.90E-01	NS			NS			NS			<	3.70E-01	U	NS			NS			NS			
Indeno(1,2,3-cd)pyrene	1.53E+00	5.10E+00	NS			NS			NS			6.80E-02	3.70E-01	J	NS			NS			NS			
2-Methylnaphthalene[1]	2.40E+02	2.50E-01	NS			NS			NS			<	3.70E-01	U	NS			NS			NS			
Phenanthrene	1.74E+03	8.10E+00	NS			NS			NS			1.20E-01	3.70E-01	J	NS			NS			NS			
Pyrene	1.74E+03	1.70E+01	NS			NS			NS			2.30E-01	3.70E-01	J	NS			NS			NS			

TABLE 3-1
1993 PHASE I RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-1273-0038 0312160007SA 09/13/93			CAN127-1273-0048 0312160008SA 09/13/93			CAN127-1273-0058 0312160009SA 09/13/93			CAN127-1274-0000 0312770001SA 09/14/93			CAN127-1274-0002 0312770002SA 09/14/93			CAN127-1274-0004 0312770003SA 09/14/93			CAN127-1274-0008 0312770004SA 09/14/93		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																								
Aluminum	7.80E+04	1.16E+04	6.61E+03	1.11E+01		5.83E+03	1.10E+01		3.84E+03	1.07E+01		7.49E+03	1.11E+01		9.56E+03	1.10E+01		3.65E+03	2.21E+01		3.73E+03	2.27E+01	
Antimony	3.13E+01	7.80E+00	<	6.60E+00	U	<	6.60E+00	U	<	6.40E+00	U	<	6.60E+00	U	<	6.60E+00	U	<	1.32E+01	U	<	1.36E+01	U
Arsenic	4.25E+00	2.90E+00	1.70E+00	5.50E-01		1.30E+00	5.50E-01		1.10E+00	5.40E-01		2.90E+00	5.50E-01		2.30E+00	5.50E-01		2.50E+00	5.50E-01		1.10E+00	5.70E-01	
Barium	1.56E+04	9.71E+02	6.19E+01	1.10E+00		1.06E+02	1.10E+00		1.29E+01	1.10E+00		1.25E+02	1.10E+00	J	7.57E+01	1.10E+00	J	5.17E+02	2.20E+00		1.00E+02	2.30E+00	J
Beryllium	1.56E+02	8.30E-01	2.90E-01	2.20E-01		1.70E-01	2.20E-01	J	1.60E-01	2.10E-01	J	8.20E-01	2.20E-01		8.30E-01	2.20E-01		4.00E-01	4.40E-01	J	3.50E-01	4.50E-01	J
Cadmium	7.05E+01	4.20E+00	<	5.50E-01	U	<	5.50E-01	U	<	5.40E-01	U	4.90E-01	5.50E-01	J	<	5.50E-01	U	<	1.10E+00	U	<	1.10E+00	U
Calcium	1.30E+07	2.48E+05	5.01E+04	2.21E+01		4.50E+04	2.19E+01		6.73E+03	2.14E+01		7.21E+03	2.22E+01		4.82E+03	2.20E+01		1.49E+05	4.41E+01		1.54E+05	4.53E+01	
Chromium	9.66E+01	1.69E+01	6.30E+00	1.10E+00		6.20E+00	1.10E+00		3.30E+00	1.10E+00		9.40E+00	1.10E+00		1.00E+01	1.10E+00		2.30E+00	2.20E+00		<	2.30E+00	U
Cobalt[1]	2.30E+01	5.30E+00	1.90E+00	1.10E+00		1.40E+00	1.10E+00		1.40E+00	1.10E+00		5.30E+00	1.10E+00		5.20E+00	1.10E+00		2.70E+00	2.20E+00		2.00E+00	2.30E+00	J
Copper	3.13E+03	5.49E+01	2.20E+00	2.00E-01		1.50E+00	2.20E+00	J	1.30E+00	2.10E+00	J	8.50E+00	2.20E+00		8.00E+00	2.20E+00		2.50E+00	4.40E+00	J	1.10E+00	4.50E+00	J
Iron	5.48E+04	3.36E+04	4.68E+03	1.11E+01		4.10E+03	1.10E+01		3.02E+03	1.07E+01		8.42E+03	1.11E+01		9.25E+03	1.10E+01		3.78E+03	2.21E+01		3.26E+03	2.27E+01	
Lead	4.00E+02	4.82E+01	2.90E+00	5.50E-01		2.30E+00	5.50E-01		1.60E+00	5.40E-01		1.26E+01	2.80E+00		8.40E+00	5.50E-01		4.60E+00	5.50E-01		3.20E+00	5.70E-01	
Magnesium	3.39E+05	1.19E+04	6.55E+03	2.21E+01		4.66E+03	2.16E+01		2.63E+03	2.14E+01		1.80E+03	2.22E+01		2.18E+03	2.20E+01		2.63E+03	4.41E+01		3.39E+03	4.53E+01	
Manganese	1.05E+04	3.32E+02	5.86E+01	1.10E+00		5.69E+01	1.10E+00		2.87E+01	1.10E+00		2.46E+02	1.10E+00		2.13E+02	1.10E+00		6.20E+01	2.20E+00		4.78E+01	2.30E+00	
Mercury	2.38E+01	1.10E-01	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U
Nickel	1.56E+03	4.60E+01	4.30E+00	4.40E+00	J	3.70E+00	4.40E+00	J	2.80E+00	4.30E+00	J	9.50E+00	4.40E+00		1.24E+01	4.40E+00		6.00E+00	8.80E+00	J	5.30E+00	9.10E+00	J
Potassium	1.56E+07	2.52E+03	1.73E+03	5.53E+02		1.47E+03	5.48E+02		9.57E+02	5.35E+02		1.39E+03	5.54E+02		1.76E+03	5.50E+02		7.41E+02	1.10E+03	J	8.74E+02	1.13E+03	J
Selenium	3.91E+02	2.70E-01	<	1.10E+00	J	<	1.10E+00	J	<	5.40E-01	U	2.70E-01	5.50E-01	J	<	5.50E-01	J	<	1.10E+00	UJ	<	1.10E+00	UJ
Silver	3.91E+02	3.60E+00	<	1.10E+00	U	<	1.10E+00	U	<	1.10E+00	U	<	1.10E+00	U	<	1.10E+00	U	<	2.20E+00	U	<	2.30E+00	U
Thallium	7.82E-01	1.40E-01	<	5.50E-01	U	<	5.50E-01	U	<	5.40E-01	U	<	5.50E-01	U	<	5.50E-01	U	<	1.10E+00	UJ	<	1.10E+00	UJ
Vanadium	3.94E+02	2.30E+01	1.78E+01	1.10E+00		1.46E+01	1.10E+00		1.30E+01	1.10E+00		2.30E+01	1.10E+00		1.92E+01	1.10E+00		1.58E+01	2.20E+00		1.04E+01	2.30E+00	
Zinc	2.35E+04	3.85E+01	1.13E+01	2.20E+00		9.30E+00	2.20E+00		6.80E+00	2.10E+00		2.04E+01	2.20E+00		2.17E+01	2.20E+00		8.70E+00	4.40E+00		7.20E+00	4.50E+00	
TPH (mg/kg)																								
Total Petroleum Hydrocarbons	1.00E+03	3.44E+02	<	4.42E+01	U	<	4.39E+01	U	<	4.28E+01	U	2.53E+02	4.43E+01	J	<	4.40E+01	U	<	4.41E+01	U	<	4.53E+01	U

Notes:

5.50E-01 = value exceeds NMED residential soil screening levels

-- = no screening level established

[1] = Screening value based on USEPA 2015 regional screening levels

< = not detected

AFB = Air Force Base

J = Estimated value below reporting limit

mg/kg = milligrams per kilogram

NMED = New Mexico Environment Department

NS = not sampled

Qual = Qualification

RL = Reporting Limit

SSL = soil screening level

TPH = total petroleum hydrocarbons

U = Not detected

UJ = Estimated Nondetect

USEPA = United States Environmental Protection Agency

TABLE 3-1
1993 PHASE I RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-1274-0018 0312770005SA 09/14/93			CAN127-1274-0028 0312160007SA 09/14/93			CAN127-1274-0038 0312770008SA 09/14/93			CAN127-1274-0048 0312770009SA 09/14/93			CAN127-1274-0058 0312770010SA 09/14/93			CAN127-1275-0000 0312770011SA 09/14/93			CAN127-1275-0002 0312770012SA 09/14/93		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (mg/kg)																								
Benzene	1.78E+01	1.20E-03	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.80E-03	U
2-Butanone (MEK)	3.74E+04	7.10E-03	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	1.20E-02	U
Carbon tetracholride	1.07E+01	2.70E-03	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.80E-03	U
Chlorobenzene	3.78E+02	1.30E-03	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.80E-03	U
1,2-Dichloroethane	8.32E+00	1.90E-03	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.80E-03	U
1,2-Dichloroethane (total)	8.32E+00	1.30E-03	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.80E-03	U
1,2-Dichloropropane	1.78E+01	1.30E-02	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U	5.70E-03	5.50E-03		1.30E-02	5.40E-03		4.60E-03	5.20E-03	J	<	5.80E-03	U
Ethylbenzene	7.51E+01	1.30E-03	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.80E-03	U
Tetrachloroethene	1.11E+02	2.90E-03	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.80E-03	U
Toluene	5.23E+03	1.80E-02	<	5.50E-03	U	<	5.60E-03	U	2.00E-03	5.60E-03	J	3.30E-03	5.50E-03	J	1.60E-03	5.40E-03	J	5.20E-03	5.20E-03	J	<	5.80E-03	U
1,1,1-Tricholorethane	1.44E+04	1.80E-03	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.80E-03	U
Trichlorethene	6.77E+00	2.30E-03	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.80E-03	U
Xylenes (total)	8.71E+02	1.20E-02	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.80E-03	U
Semivolatile Organics (mg/kg)																								
Acenaphthene	3.48E+03	1.50E-01	NS			NS			NS			<	3.60E-01	U	NS			1.50E-01	1.40E+00	J	<	3.80E-01	U
Anthracene	1.74E+04	4.80E-02	NS			NS			NS			<	3.60E-01	U	NS			<	1.40E+00	U	<	3.80E-01	U
Benzo(a)anthracene	1.53E+00	8.00E+00	NS			NS			NS			<	3.60E-01	U	NS			**8.00E+00**	1.40E+00		<	3.80E-01	U
Benzo(a)pyrene	1.53E-01	8.60E+00	NS			NS			NS			<	3.60E-01	U	NS			**8.60E+00**	1.40E+00		<	3.80E-01	U
Benzo(b)fluoranthene	1.53E+00	1.70E+01	NS			NS			NS			<	3.60E-01	U	NS			**1.70E+01**	1.40E+00		<	3.80E-01	U
Benzo(g,h,i)perylene	--	5.10E+00	NS			NS			NS			<	3.60E-01	U	NS			5.10E+00	1.40E+00		<	3.80E-01	U
Butyl benzyl phtalate[1]	2.90E+02	1.10E-01	NS			NS			NS			<	3.60E-01	U	NS			<	1.40E+00	U	<	3.80E-01	U
Carbazole	--	1.50E+00	NS			NS			NS			<	3.60E-01	U	NS			1.50E+00	1.40E+00		<	3.80E-01	U
Chrysene	1.53E+02	1.40E+01	NS			NS			NS			<	3.60E-01	U	NS			1.40E+01	1.40E+00		<	3.80E-01	U
Di-n-butyl phthalate	6.16E+03	1.30E-01	NS			NS			NS			<	3.60E-01	U	NS			<	1.40E+00	U	<	3.80E-01	U
Fluoranthene	2.32E+03	1.70E+01	NS			NS			NS			<	3.60E-01	U	NS			1.70E+01	1.40E+00		<	3.80E-01	U
Fluorene	2.32E+03	2.90E-01	NS			NS			NS			<	3.60E-01	U	NS			2.90E-01	1.40E+00	J	<	3.80E-01	U
Indeno(1,2,3-cd)pyrene	1.53E+00	5.10E+00	NS			NS			NS			<	3.60E-01	U	NS			**5.10E+00**	1.40E+00		<	3.80E-01	U
2-Methylnaphthalene[1]	2.40E+02	2.50E-01	NS			NS			NS			<	3.60E-01	U	NS			<	1.40E+00	U	<	3.80E-01	U
Phenanthrene	1.74E+03	8.10E+00	NS			NS			NS			<	3.60E-01	U	NS			8.10E+00	1.40E+00		<	3.80E-01	U
Pyrene	1.74E+03	1.70E+01	NS			NS			NS			<	3.60E-01	U	NS			1.70E+01	1.40E+00		<	3.80E-01	U

TABLE 3-1
1993 PHASE I RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-1274-0018 0312770005SA 09/14/93			CAN127-1274-0028 0312160007SA 09/14/93			CAN127-1274-0038 0312770008SA 09/14/93			CAN127-1274-0048 0312770009SA 09/14/93			CAN127-1274-0058 0312770010SA 09/14/93			CAN127-1275-0000 0312770011SA 09/14/93			CAN127-1275-0002 0312770012SA 09/14/93		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																								
Aluminum	7.80E+04	1.16E+04	6.27E+03	1.10E+01		4.71E+03	2.23E+01		4.73E+03	1.12E+01		4.87E+03	1.10E+01		3.31E+03	1.08E+01		6.53E+03	1.05E+01		8.57E+03	2.30E+01	
Antimony	3.13E+01	7.80E+00	<	6.60E+00	U	<	1.34E+01	U	<	6.70E+00	U	<	6.60E+00	U	<	6.50E+00	**U**	7.80E+00	6.30E+00		<	1.38E+01	U
Arsenic	4.25E+00	2.90E+00	2.10E+00	5.50E-01		1.30E+00	5.60E-01		1.10E+00	5.60E-01		1.30E+00	5.50E-01		1.00E+00	5.40E-01		2.10E+00	5.20E-01		2.10E+00	5.80E-01	
Barium	1.56E+04	9.71E+02	6.82E+01	1.10E+00	J	7.44E+01	2.20E+00	J	4.26E+01	1.10E+00	J	5.61E+01	1.10E+00	J	1.71E+01	1.10E+00	J	2.45E+02	1.00E+00	J	1.04E+02	2.30E+00	J
Beryllium	1.56E+02	8.30E-01	3.90E-01	2.20E-01		2.60E-01	4.50E-01	J	2.90E-01	2.20E-01		2.20E-01	2.20E-01		1.80E-01	2.20E-01	J	4.50E-01	2.10E-01		6.50E-01	4.60E-01	
Cadmium	7.05E+01	4.20E+00	<	5.50E-01	U	<	1.10E+00	U	<	5.60E-01	U	<	5.50E-01	U	<	5.40E-01	U	5.30E-01	5.20E-01		<	1.20E+00	U
Calcium	1.30E+07	2.48E+05	7.17E+04	2.20E+01		1.02E+05	4.47E+01		6.10E+04	2.24E+01		3.81E+04	2.20E+01		1.61E+04	2.16E+01		4.53E+04	2.10E+01		1.06E+05	4.61E+01	
Chromium	9.66E+01	1.69E+01	5.00E+00	1.10E+00		1.90E+00	2.20E+00	J	4.80E+00	1.10E+00		4.80E+00	1.10E+00		3.30E+00	1.10E+00		1.53E+01	1.00E+00		5.80E+00	2.30E+00	
Cobalt[1]	2.30E+01	5.30E+00	2.60E+00	1.10E+00		2.00E+00	2.20E+00	J	1.30E+00	1.10E+00		1.50E+00	1.10E+00		1.50E+00	1.10E+00		2.80E+00	1.00E+00		4.30E+00	2.30E+00	
Copper	3.13E+03	5.49E+01	3.00E+00	2.20E+00		1.30E+00	4.50E+00	J	1.30E+00	2.20E+00	J	1.20E+00	2.20E+00	J	1.10E+00	2.20E+00	J	2.59E+01	2.10E+00		5.90E+00	4.60E+00	
Iron	5.48E+04	3.36E+04	5.51E+03	1.10E+01		3.45E+03	2.23E+01		3.82E+03	1.12E+01		4.15E+03	1.10E+01		3.75E+03	1.08E+01		7.65E+03	1.05E+01		7.92E+03	2.30E+01	
Lead	4.00E+02	4.82E+01	4.40E+00	1.10E+00		2.90E+00	5.60E-01		2.40E+00	5.60E-01		2.30E+00	5.50E-01		2.00E+00	5.40E-01		2.92E+01	5.20E+00		6.70E+00	5.80E-01	
Magnesium	3.39E+05	1.19E+04	3.81E+03	2.20E+01		4.49E+03	4.47E+01		5.53E+03	2.24E+01		4.41E+03	2.20E+01		3.45E+03	2.16E+01		1.85E+03	2.10E+01		2.64E+03	4.61E+01	
Manganese	1.05E+04	3.32E+02	7.87E+01	1.10E+00		3.94E+01	2.20E+00		3.79E+01	1.10E+00		5.69E+01	1.10E+00		4.86E+01	1.10E+00		3.32E+02	1.00E+00		1.27E+02	2.30E+00	
Mercury	2.38E+01	1.10E-01	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.00E-01	U	<	1.20E-01	U
Nickel	1.56E+03	4.60E+01	5.70E+00	4.40E+00		5.60E+00	8.90E+00	J	4.00E+00	4.50E+00	J	3.70E+00	4.40E+00	J	3.50E+00	4.30E+00	J	6.80E+00	4.20E+00		1.01E+01	9.20E+00	
Potassium	1.56E+07	2.52E+03	1.74E+03	5.50E+02		9.10E+02	1.12E+03	J	8.56E+02	5.61E+02		9.51E+02	5.49E+02		5.62E+02	5.39E+02		1.18E+03	5.24E+02		1.55E+03	1.15E+03	
Selenium	3.91E+02	2.70E-01	<	1.10E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ	<	5.20E-01	UJ	<	1.20E+00	UJ
Silver	3.91E+02	3.60E+00	<	1.10E+00	U	<	2.20E+00	U	<	1.10E+00	U	<	1.10E+00	U	<	1.10E+00	U	<	1.10E+00	U	<	2.30E+00	U
Thallium	7.82E-01	1.40E-01	<	5.50E-01	UJ	<	5.60E-01	UJ	<	5.60E-01	UJ	<	5.50E-01	UJ	<	5.40E-01	UJ	<	5.20E-01	U	<	5.80E-01	UJ
Vanadium	3.94E+02	2.30E+01	2.01E+01	1.10E+00		1.58E+01	2.20E+00		1.83E+01	1.10E+00		1.73E+01	1.10E+00		1.62E+01	1.10E+00		1.65E+01	1.00E+00		1.58E+01	2.30E+00	
Zinc	2.35E+04	3.85E+01	1.11E+01	2.20E+00		7.10E+00	4.50E+00		8.60E+00	2.20E+00		9.20E+00	2.20E+00		6.10E+00	2.20E+00		3.85E+01	2.10E+00		1.80E+01	4.60E+00	
TPH (mg/kg)																								
Total Petroleum Hydrocarbons	1.00E+03	3.44E+02	<	4.40E+01	U	<	4.47E+01	U	<	4.49E+01	U	<	4.39E+01	U	<	4.31E+01	U	3.44E+02	8.39E+01		<	4.61E+01	U

Notes:

5.50E-01 = value exceeds NMED residential soil screening levels

-- = no screening level established

[1] = Screening value based on USEPA 2015 regional screening levels

< = not detected

AFB = Air Force Base

J = Estimated value below reporting limit

mg/kg = milligrams per kilogram

NMED = New Mexico Environment Department

NS = not sampled

Qual = Qualification

RL = Reporting Limit

SSL = soil screening level

TPH = total petroleum hydrocarbons

U = Not detected

UJ = Estimated Nondetect

USEPA = United States Environmental Protection Agency

TABLE 3-1
1993 PHASE I RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-1275-0004 0312770013SA 09/14/93			CAN127-1275-0008 0312770014SA 09/14/93			CAN127-1275-0018 0312770015SA 09/14/93			CAN127-1275-0028 0312770016SA 09/14/93			CAN127-1275-0038 0312770017SA 09/14/93			CAN127-1275-0048 0312770018SA 09/14/93			CAN127-1275-0058 0312770019SA 09/14/93		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (mg/kg)																								
Benzene	1.78E+01	1.20E-03	<	5.70E-03	U	<	5.80E-03	U	1.20E-03	5.80E-03	J	<	5.60E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U
2-Butanone (MEK)	3.74E+04	7.10E-03	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Carbon tetracholride	1.07E+01	2.70E-03	<	5.70E-03	U	<	5.80E-03	U	2.70E-03	5.80E-03	J	<	5.60E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U
Chlorobenzene	3.78E+02	1.30E-03	<	5.70E-03	U	<	5.80E-03	U	1.30E-03	5.80E-03	J	<	5.60E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U
1,2-Dichloroethane	8.32E+00	1.90E-03	<	5.70E-03	U	<	5.80E-03	U	1.90E-03	5.80E-03	J	<	5.60E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U
1,2-Dichloroethane (total)	8.32E+00	1.30E-03	<	5.70E-03	U	<	5.80E-03	U	1.30E-03	5.80E-03	J	<	5.60E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U
1,2-Dichloropropane	1.78E+01	1.30E-02	<	5.70E-03	U	<	5.80E-03	U	<	5.80E-03	U	<	5.60E-03	U	7.70E-03	5.50E-03		<	5.60E-03	U	<	5.60E-03	U
Ethylbenzene	7.51E+01	1.30E-03	<	5.70E-03	U	<	5.80E-03	U	1.30E-03	5.80E-03	J	<	5.60E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U
Tetrachloroethene	1.11E+02	2.90E-03	<	5.70E-03	U	<	5.80E-03	U	2.90E-03	5.80E-03	J	<	5.60E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U
Toluene	5.23E+03	1.80E-02	5.40E-03	5.70E-03	J	1.80E-02	5.80E-03		6.20E-03	5.80E-03		<	5.60E-03	U	7.20E-03	5.50E-03		1.20E-02	5.60E-03		<	5.60E-03	U
1,1,1-Tricholorethane	1.44E+04	1.80E-03	<	5.70E-03	U	<	5.80E-03	U	1.80E-03	5.80E-03	J	<	5.60E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U
Trichlorethene	6.77E+00	2.30E-03	<	5.70E-03	U	<	5.80E-03	U	2.30E-03	5.80E-03	J	<	5.60E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U
Xylenes (total)	8.71E+02	1.20E-02	<	5.70E-03	U	<	5.80E-03	U	2.40E-03	5.80E-03	J	<	5.60E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U
Semivolatile Organics (mg/kg)																								
Acenaphthene	3.48E+03	1.50E-01	NS			NS			NS			NS			NS			NS			NS		
Anthracene	1.74E+04	4.80E-02	NS			NS			NS			NS			NS			NS			NS		
Benzo(a)anthracene	1.53E+00	8.00E+00	NS			NS			NS			NS			NS			NS			NS		
Benzo(a)pyrene	1.53E-01	8.60E+00	NS			NS			NS			NS			NS			NS			NS		
Benzo(b)fluoranthene	1.53E+00	1.70E+01	NS			NS			NS			NS			NS			NS			NS		
Benzo(g,h,i)perylene	--	5.10E+00	NS			NS			NS			NS			NS			NS			NS		
Butyl benzyl phtalate[1]	2.90E+02	1.10E-01	NS			NS			NS			NS			NS			NS			NS		
Carbazole	--	1.50E+00	NS			NS			NS			NS			NS			NS			NS		
Chrysene	1.53E+02	1.40E+01	NS			NS			NS			NS			NS			NS			NS		
Di-n-butyl phthalate	6.16E+03	1.30E-01	NS			NS			NS			NS			NS			NS			NS		
Fluoranthene	2.32E+03	1.70E+01	NS			NS			NS			NS			NS			NS			NS		
Fluorene	2.32E+03	2.90E-01	NS			NS			NS			NS			NS			NS			NS		
Indeno(1,2,3-cd)pyrene	1.53E+00	5.10E+00	NS			NS			NS			NS			NS			NS			NS		
2-Methylnaphthalene[1]	2.40E+02	2.50E-01	NS			NS			NS			NS			NS			NS			NS		
Phenanthrene	1.74E+03	8.10E+00	NS			NS			NS			NS			NS			NS			NS		
Pyrene	1.74E+03	1.70E+01	NS			NS			NS			NS			NS			NS			NS		

TABLE 3-1
1993 PHASE I RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-1275-0004 0312770013SA 09/14/93			CAN127-1275-0008 0312770014SA 09/14/93			CAN127-1275-0018 0312770015SA 09/14/93			CAN127-1275-0028 0312770016SA 09/14/93			CAN127-1275-0038 0312770017SA 09/14/93			CAN127-1275-0048 0312770018SA 09/14/93			CAN127-1275-0058 0312770019SA 09/14/93		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																								
Aluminum	7.80E+04	1.16E+04	5.03E+03	5.72E+01		3.63E+03	2.33E+01		1.01E+04	5.77E+01		4.47E+03	2.25E+01		4.86E+03	1.11E+01		4.57E+03	1.11E+01		4.27E+03	1.12E+01	
Antimony	3.13E+01	7.80E+00	<	3.43E+01	U	<	1.40E+01	U	<	3.46E+01	U	<	1.35E+01	U	<	6.60E+00	U	<	6.70E+00	U	<	6.70E+00	U
Arsenic	4.25E+00	2.90E+00	1.50E+00	5.70E-01		1.30E+00	5.80E-01		1.70E+00	5.80E-01		1.00E+00	5.60E-01		1.00E+00	5.50E-01		1.10E+00	5.60E-01		1.20E+00	5.60E-01	
Barium	1.56E+04	9.71E+02	4.35E+02	5.70E+00	J	1.67E+02	2.30E+00	J	4.45E+02	5.80E+00	J	6.54E+01	2.20E+00	J	1.48E+02	1.10E+00	J	3.63E+01	1.10E+00	J	5.45E+02	1.10E+00	J
Beryllium	1.56E+02	8.30E-01	<	1.10E+00	U	2.80E-01	4.70E-01	J	<	1.20E+00	U	5.00E-01	4.50E-01	J	3.30E-01	2.20E-01		2.90E-01	2.20E-01		3.00E-01	2.20E-01	
Cadmium	7.05E+01	4.20E+00	<	2.90E+00	U	<	1.20E+00	U	<	2.90E+00	U	<	1.10E+00	U	<	5.50E-01	U	<	5.60E-01	U	<	5.60E-01	U
Calcium	1.30E+07	2.48E+05	2.38E+05	1.14E+02		1.81E+05	4.66E+01		2.38E+05	1.15E+02		1.50E+05	4.49E+01		5.89E+04	2.21E+01		7.63E+04	2.23E+01		7.38E+04	2.23E+01	
Chromium	9.66E+01	1.69E+01	<	5.70E+00	U	<	2.30E+00	U	<	5.80E+00	U	2.10E+00	2.20E+00	J	4.30E+00	1.10E+00		3.40E+00	1.10E+00		2.30E+00	1.10E+00	
Cobalt[1]	2.30E+01	5.30E+00	<	5.70E+00	U	2.40E+00	2.30E+00		<	5.80E+00	U	1.50E+00	2.20E+00	J	1.60E+00	1.10E+00		1.50E+00	1.10E+00		1.10E+00	1.10E+00	
Copper	3.13E+03	5.49E+01	<	1.14E+01	U	1.80E+00	4.70E+00	J	3.20E+01	1.15E+01	J	1.70E+00	4.50E+00	J	2.70E+00	2.20E+00		1.90E+00	2.20E+00	J	1.50E+00	2.20E+00	J
Iron	5.48E+04	3.36E+04	4.21E+03	5.72E+01		3.30E+03	2.33E+01		5.96E+03	5.77E+01		3.20E+03	2.25E+01		3.90E+03	1.11E+01		3.77E+03	1.11E+01		3.02E+03	1.12E+01	
Lead	4.00E+02	4.82E+01	3.00E+00	5.70E-01		2.70E+00	5.80E-01		3.10E+00	5.80E-01		1.70E+00	5.60E-01		1.90E+00	5.50E-01		2.20E+00	5.60E-01		2.50E+00	5.60E-01	
Magnesium	3.39E+05	1.19E+04	3.94E+03	1.14E+02		3.59E+03	4.66E+01		1.19E+04	1.15E+02		4.84E+03	4.49E+01		5.59E+03	2.21E+01		5.47E+03	2.23E+01		4.49E+03	2.23E+01	
Manganese	1.05E+04	3.32E+02	5.14E+01	5.70E+00		3.40E+01	2.30E+00		4.64E+01	5.80E+00		2.80E+01	2.20E+00		4.21E+01	1.10E+00		4.31E+01	1.10E+00		4.32E+01	1.10E+00	
Mercury	2.38E+01	1.10E-01	<	1.10E-01	U	<	1.20E-01	U	<	1.20E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U
Nickel	1.56E+03	4.60E+01	<	2.29E+01	U	6.10E+00	9.30E+00	J	7.90E+00	2.31E+01	J	3.50E+00	9.00E+00	J	4.70E+00	4.40E+00		3.30E+00	4.50E+00	J	2.90E+00	4.50E+00	J
Potassium	1.56E+07	2.52E+03	6.12E+02	2.86E+04	J	8.54E+02	1.16E+03	J	2.08E+03	2.88E+03	J	7.00E+02	1.12E+03	J	9.16E+02	5.54E+02		8.10E+02	5.56E+02		4.87E+02	5.59E+02	
Selenium	3.91E+02	2.70E-01	<	1.10E+00	UJ	<	1.20E+00	UJ	<	1.20E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ
Silver	3.91E+02	3.60E+00	<	5.70E+00	U	<	2.30E+00	U	<	5.80E+00	U	<	2.20E+00	U	<	1.10E+00	U	<	1.10E+00	U	<	1.10E+00	U
Thallium	7.82E-01	1.40E-01	<	1.10E+00	UJ	<	1.20E+00	UJ	<	1.20E+00	UJ	<	1.10E+00	UJ	<	5.50E-01	UJ	<	5.60E-01	UJ	<	1.10E+00	UJ
Vanadium	3.94E+02	2.30E+01	1.12E+01	5.70E+00		1.11E+01	2.30E+00		1.82E+01	5.80E+00		1.44E+01	2.20E+00		1.72E+01	1.10E+00		1.90E+01	1.10E+00		1.75E+01	1.10E+00	
Zinc	2.35E+04	3.85E+01	5.20E+00	1.14E+01	J	7.30E+00	4.70E+00		<	1.15E+01	U	6.40E+00	4.50E+00		8.20E+00	2.20E+00		8.50E+00	2.20E+00		7.90E+00	2.20E+00	
TPH (mg/kg)																								
Total Petroleum Hydrocarbons	1.00E+03	3.44E+02	<	4.58E+01	U	<	4.66E+01	U	<	4.61E+01	U	<	4.49E+01	U	<	4.43E+01	U	<	4.45E+01	U	<	4.47E+01	U

Notes:

5.50E-01 = value exceeds NMED residential soil screening levels

-- = no screening level established

[1] = Screening value based on USEPA 2015 regional screening levels

< = not detected

AFB = Air Force Base

J = Estimated value below reporting limit

mg/kg = milligrams per kilogram

NMED = New Mexico Environment Department

NS = not sampled

Qual = Qualification

RL = Reporting Limit

SSL = soil screening level

TPH = total petroleum hydrocarbons

U = Not detected

UJ = Estimated Nondetect

USEPA = United States Environmental Protection Agency

TABLE 3-1
1993 PHASE I RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-1276-0000 0312160012SA 09/13/93			CAN127-1276-0002 0312160013SA 09/13/93			CAN127-1276-0004 0312150009SA 09/14/93			CAN127-1276-0008 0312150010SA 09/14/93			CAN127-1276-0018 0312150011SA 09/14/93			CAN127-1276-0028 0312150012SA 09/14/93			CAN127-1276-0038 0312150013SA 09/14/93		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (mg/kg)																								
Benzene	1.78E+01	1.20E-03	<	5.20E-03	U	<	5.40E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U
2-Butanone (MEK)	3.74E+04	7.10E-03	<	1.00E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Carbon tetracholride	1.07E+01	2.70E-03	<	5.20E-03	U	<	5.40E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U
Chlorobenzene	3.78E+02	1.30E-03	<	5.20E-03	U	<	5.40E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U
1,2-Dichloroethane	8.32E+00	1.90E-03	1.90E-03	5.20E-03	J	<	5.40E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U
1,2-Dichloroethane (total)	8.32E+00	1.30E-03	<	5.20E-03	U	<	5.40E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U
1,2-Dichloropropane	1.78E+01	1.30E-02	<	5.20E-03	U	<	5.40E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U
Ethylbenzene	7.51E+01	1.30E-03	<	5.20E-03	U	<	5.40E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U
Tetrachloroethene	1.11E+02	2.90E-03	<	5.20E-03	U	<	5.40E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U
Toluene	5.23E+03	1.80E-02	1.50E-02	5.20E-03		<	5.40E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U
1,1,1-Tricholorethane	1.44E+04	1.80E-03	<	5.20E-03	U	<	5.40E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U
Trichlorethene	6.77E+00	2.30E-03	<	5.20E-03	U	<	5.40E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U
Xylenes (total)	8.71E+02	1.20E-02	1.20E-02	5.20E-03		<	5.40E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U
Semivolatile Organics (mg/kg)																								
Acenaphthene	3.48E+03	1.50E-01	<	3.40E-01	U	NS			NS			NS			<	3.60E-01	U	NS			NS		
Anthracene	1.74E+04	4.80E-02	<	3.40E-01	U	NS			NS			NS			<	3.60E-01	U	NS			NS		
Benzo(a)anthracene	1.53E+00	8.00E+00	1.60E-01	3.40E-01	J	NS			NS			NS			<	3.60E-01	U	NS			NS		
Benzo(a)pyrene	1.53E-01	8.60E+00	**2.30E-01**	3.40E-01	J	NS			NS			NS			<	3.60E-01	U	NS			NS		
Benzo(b)fluoranthene	1.53E+00	1.70E+01	4.10E-01	3.40E-01		NS			NS			NS			<	3.60E-01	U	NS			NS		
Benzo(g,h,i)perylene	--	5.10E+00	1.90E-01	3.40E-01	J	NS			NS			NS			<	3.60E-01	U	NS			NS		
Butyl benzyl phtalate[1]	2.90E+02	1.10E-01	<	3.40E-01	U	NS			NS			NS			<	3.60E-01	U	NS			NS		
Carbazole	--	1.50E+00	<	3.40E-01	U	NS			NS			NS			<	3.60E-01	U	NS			NS		
Chrysene	1.53E+02	1.40E+01	3.00E-01	3.40E-01	J	NS			NS			NS			<	3.60E-01	U	NS			NS		
Di-n-butyl phthalate	6.16E+03	1.30E-01	<	3.40E-01	U	NS			NS			NS			<	3.60E-01	U	NS			NS		
Fluoranthene	2.32E+03	1.70E+01	5.70E-01	3.40E-01		NS			NS			NS			<	3.60E-01	U	NS			NS		
Fluorene	2.32E+03	2.90E-01	<	3.40E-01	U	NS			NS			NS			<	3.60E-01	U	NS			NS		
Indeno(1,2,3-cd)pyrene	1.53E+00	5.10E+00	1.60E-01	3.40E-01	J	NS			NS			NS			<	3.60E-01	U	NS			NS		
2-Methylnaphthalene[1]	2.40E+02	2.50E-01	<	3.40E-01	U	NS			NS			NS			<	3.60E-01	U	NS			NS		
Phenanthrene	1.74E+03	8.10E+00	2.10E-01	3.40E-01	J	NS			NS			NS			<	3.60E-01	U	NS			NS		
Pyrene	1.74E+03	1.70E+01	5.50E-01	3.40E-01		NS			NS			NS			<	3.60E-01	U	NS			NS		

TABLE 3-1
1993 PHASE I RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-1276-0000 0312160012SA 09/13/93			CAN127-1276-0002 0312160013SA 09/13/93			CAN127-1276-0004 0312150009SA 09/14/93			CAN127-1276-0008 0312150010SA 09/14/93			CAN127-1276-0018 0312150011SA 09/14/93			CAN127-1276-0028 0312150012SA 09/14/93			CAN127-1276-0038 0312150013SA 09/14/93		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																								
Aluminum	7.80E+04	1.16E+04	7.17E+03	1.04E+01		1.14E+04	1.08E+01		6.67E+03	2.16E+01		3.64E+03	2.21E+01		4.53E+03	1.10E+01		4.37E+03	1.09E+01		4.50E+03	1.10E+01	
Antimony	3.13E+01	7.80E+00	<	6.20E+00	U	<	6.50E+00	U	<	1.30E+01	U	<	1.32E+01	U	<	6.60E+00	U	<	6.50E+00	U	<	6.60E+00	U
Arsenic	4.25E+00	2.90E+00	2.00E+00	5.20E-01		2.40E+00	5.40E-01		2.50E+00	5.40E-01		1.10E+00	5.50E-01		1.80E+00	5.50E-01		1.90E+00	5.50E-01		1.30E+00	5.50E-01	
Barium	1.56E+04	9.71E+02	7.43E+01	1.00E+00		1.05E+02	1.10E+00		1.07E+02	2.20E+00		9.57E+01	2.20E+00		3.02E+02	1.10E+00		9.64E+01	1.10E+00		2.37E+01	1.10E+00	
Beryllium	1.56E+02	8.30E-01	4.30E-01	2.10E-01		7.00E-01	2.20E-01		2.90E-01	4.30E-01	J	<	4.40E-01	U	4.70E-01	2.20E-01		3.00E-01	2.20E-01		2.30E-01	2.20E-01	
Cadmium	7.05E+01	4.20E+00	<	5.20E-01	U	<	5.40E-01	U	<	1.10E+00	U	<	1.10E+00	U	<	5.50E-01	U	<	5.50E-01	U	<	5.50E-01	U
Calcium	1.30E+07	2.48E+05	6.63E+03	2.08E+01		4.74E+03	2.16E+01		1.13E+05	4.33E+01		1.52E+05	4.41E+01		6.85E+04	2.19E+01		7.65E+04	2.18E+01		3.93E+04	2.21E+01	
Chromium	9.66E+01	1.69E+01	9.90E+00	1.00E+00		9.30E+00	1.10E+00		3.90E+00	2.20E+00		<	2.20E+00	U	2.90E+00	1.10E+00		3.00E+00	1.10E+00		3.40E+00	1.10E+00	
Cobalt[1]	2.30E+01	5.30E+00	2.90E+00	1.00E+00		4.90E+00	1.10E+00		3.30E+00	2.20E+00		2.10E+00	2.20E+00	J	1.90E+00	1.10E+00		1.70E+00	1.10E+00		1.20E+00	1.10E+00	
Copper	3.13E+03	5.49E+01	6.30E+00	2.10E+00		8.40E+00	2.20E+00		4.80E+00	4.30E+00		1.50E+00	2.40E+00	J	2.70E+00	2.20E+00		2.80E+00	2.20E+00		1.80E+00	2.20E+00	J
Iron	5.48E+04	3.36E+04	5.99E+03			8.99E+03	1.08E+01		6.14E+03	2.16E+01		3.05E+03	2.21E+01		3.62E+03	1.10E+01		3.25E+03	1.09E+01		3.28E+03	1.10E+01	
Lead	4.00E+02	4.82E+01	4.82E+01			9.20E+00	1.10E+00		5.80E+00	1.10E+00		3.40E+00	1.10E+00		4.50E+00	1.10E+00		3.10E+00	5.50E-01		2.50E+00	1.10E+00	
Magnesium	3.39E+05	1.19E+04	1.30E+03			2.51E+03	2.16E+01		3.02E+03	4.33E+01		2.71E+03	4.41E+01		3.32E+03	2.19E+01		5.10E+03	2.18E+01		6.94E+03	2.21E+01	
Manganese	1.05E+04	3.32E+02	1.41E+02			2.18E+02	1.10E+00		9.85E+01	2.20E+00		3.71E+01	2.20E+00		4.72E+01	1.10E+00		4.25E+01	1.10E+00		3.26E+01	1.10E+00	
Mercury	2.38E+01	1.10E-01	<	1.00E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U
Nickel	1.56E+03	4.60E+01	6.20E+00			1.05E+01	4.30E+00		9.70E+00	8.70E+00		5.80E+00	8.80E+00	J	4.40E+00	4.40E+00		3.90E+00	4.40E+00	J	3.90E+00	4.40E+00	J
Potassium	1.56E+07	2.52E+03	2.06E+03			2.52E+03	5.40E+02		1.54E+03	1.08E+03		1.15E+03	1.10E+03		1.51E+03	5.49E+02		1.13E+03	5.46E+02		9.67E+02	5.52E+02	
Selenium	3.91E+02	2.70E-01	<	5.20E-01	U	<	5.40E-01	UJ	<	1.10E+00	J	<	1.10E+00	J	<	1.10E+00	J	<	1.10E+00	J	<	1.10E+00	J
Silver	3.91E+02	3.60E+00	<			<	1.10E+00	U	<	2.20E+00	U	<	2.20E+00	U	<	1.10E+00	U	<	1.10E+00	U	<	1.10E+00	U
Thallium	7.82E-01	1.40E-01	<	5.20E-01	U	1.40E-01	5.40E-01	J	<	1.10E+00	J	<	1.10E+00	J	<	1.10E+00	J	<	1.10E+00	J	<	5.50E-01	U
Vanadium	3.94E+02	2.30E+01	1.29E+01			1.77E+01	1.10E+00		1.64E+01	2.20E+00		1.00E+01	2.20E+00		1.26E+01	1.10E+00		1.28E+01	1.10E+00		1.60E+01	1.10E+00	
Zinc	2.35E+04	3.85E+01	2.53E+01			2.40E+01	2.20E+00		1.45E+01	4.30E+00		6.80E+00	4.40E+00		7.80E+00	2.20E+00		7.10E+00	2.20E+00		8.30E+00	2.20E+00	
TPH (mg/kg)																								
Total Petroleum Hydrocarbons	1.00E+03	3.44E+02	8.05E+01	4.16E+01		<	4.32E+01	U	<	4.33E+01	U	<	4.41E+01	U	<	4.39E+01	U	<	4.37E+01	U	<	4.41E+01	U

Notes:

5.50E-01 = value exceeds NMED residential soil screening levels

-- = no screening level established

[1] = Screening value based on USEPA 2015 regional screening levels

< = not detected

AFB = Air Force Base

J = Estimated value below reporting limit

mg/kg = milligrams per kilogram

NMED = New Mexico Environment Department

NS = not sampled

Qual = Qualification

RL = Reporting Limit

SSL = soil screening level

TPH = total petroleum hydrocarbons

U = Not detected

UJ = Estimated Nondetect

USEPA = United States Environmental Protection Agency

TABLE 3-1
1993 PHASE I RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-1276-0048 0312150014SA 09/13/93			CAN127-1276-0058 0312150015SA 09/13/93			CAN127-1277-0000 0311840009SA 09/12/93			CAN127-1277-0002 0311840010SA 09/12/93			CAN127-1277-0004 0311840011SA 09/12/93			CAN127-1277-0008 0311840012SA 09/12/93			CAN127-1277-0018 0311840013SA 09/12/93		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (mg/kg)																								
Benzene	1.78E+01	1.20E-03	<	5.50E-03	U	<	5.40E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.70E-03	U
2-Butanone (MEK)	3.74E+04	7.10E-03	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Carbon tetracholride	1.07E+01	2.70E-03	<	5.50E-03	U	<	5.40E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.70E-03	U
Chlorobenzene	3.78E+02	1.30E-03	<	5.50E-03	U	<	5.40E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.70E-03	U
1,2-Dichloroethane	8.32E+00	1.90E-03	<	5.50E-03	U	<	5.40E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.70E-03	U
1,2-Dichloroethane (total)	8.32E+00	1.30E-03	<	5.50E-03	U	<	5.40E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.70E-03	U
1,2-Dichloropropane	1.78E+01	1.30E-02	<	5.50E-03	U	<	5.40E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.70E-03	U
Ethylbenzene	7.51E+01	1.30E-03	<	5.50E-03	U	<	5.40E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.70E-03	U
Tetrachloroethene	1.11E+02	2.90E-03	<	5.50E-03	U	<	5.40E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.70E-03	U
Toluene	5.23E+03	1.80E-02	<	5.50E-03	U	2.50E-03	5.40E-03	J	5.50E-03	5.30E-03	J	3.80E-03	5.40E-03	J	2.10E-03	5.50E-03	J	<	5.50E-03	U	<	5.70E-03	U
1,1,1-Tricholorethane	1.44E+04	1.80E-03	<	5.50E-03	U	<	5.40E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.70E-03	U
Trichlorethene	6.77E+00	2.30E-03	<	5.50E-03	U	<	5.40E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.70E-03	U
Xylenes (total)	8.71E+02	1.20E-02	<	5.50E-03	U	<	5.40E-03	U	5.90E-03	5.30E-03		1.50E-03	5.40E-03	J	<	5.50E-03	U	<	5.50E-03	U	<	5.70E-03	U
Semivolatile Organics (mg/kg)																								
Acenaphthene	3.48E+03	1.50E-01	NS			NS			<	3.50E-01	U	NS			NS			<	3.60E-01	U	NS		
Anthracene	1.74E+04	4.80E-02	NS			NS			<	3.50E-01	U	NS			NS			<	3.60E-01	U	NS		
Benzo(a)anthracene	1.53E+00	8.00E+00	NS			NS			1.90E-01	3.50E-01	J	NS			NS			<	3.60E-01	U	NS		
Benzo(a)pyrene	1.53E-01	8.60E+00	NS			NS			**1.80E-01**	3.50E-01	J	NS			NS			<	3.60E-01	U	NS		
Benzo(b)fluoranthene	1.53E+00	1.70E+01	NS			NS			3.90E-01	3.50E-01		NS			NS			<	3.60E-01	U	NS		
Benzo(g,h,i)perylene	--	5.10E+00	NS			NS			9.10E-02	3.50E-01	J	NS			NS			<	3.60E-01	U	NS		
Butyl benzyl phtalate[1]	2.90E+02	1.10E-01	NS			NS			<	3.50E-01	U	NS			NS			<	3.60E-01	U	NS		
Carbazole	--	1.50E+00	NS			NS			<	3.50E-01	U	NS			NS			<	3.60E-01	U	NS		
Chrysene	1.53E+02	1.40E+01	NS			NS			2.40E-01	3.50E-01	J	NS			NS			<	3.60E-01	U	NS		
Di-n-butyl phthalate	6.16E+03	1.30E-01	NS			NS			<	3.50E-01	U	NS			NS			<	3.60E-01	U	NS		
Fluoranthene	2.32E+03	1.70E+01	NS			NS			4.70E-01	3.50E-01		NS			NS			<	3.60E-01	U	NS		
Fluorene	2.32E+03	2.90E-01	NS			NS			<	3.50E-01	U	NS			NS			<	3.60E-01	U	NS		
Indeno(1,2,3-cd)pyrene	1.53E+00	5.10E+00	NS			NS			9.30E-02	3.50E-01	J	NS			NS			<	3.60E-01	U	NS		
2-Methylnaphthalene[1]	2.40E+02	2.50E-01	NS			NS			2.50E-01	3.50E-01	J	NS			NS			<	3.60E-01	U	NS		
Phenanthrene	1.74E+03	8.10E+00	NS			NS			1.90E-01	3.50E-01	J	NS			NS			<	3.60E-01	U	NS		
Pyrene	1.74E+03	1.70E+01	NS			NS			4.40E-01	3.50E-01		NS			NS			<	3.60E-01	U	NS		

TABLE 3-1
1993 PHASE I RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-1276-0048 0312150014SA 09/13/93			CAN127-1276-0058 0312150015SA 09/13/93			CAN127-1277-0000 0311840009SA 09/12/93			CAN127-1277-0002 0311840010SA 09/12/93			CAN127-1277-0004 0311840011SA 09/12/93			CAN127-1277-0008 0311840012SA 09/12/93			CAN127-1277-0018 0311840013SA 09/12/93		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																						
Aluminum	7.80E+04	1.16E+04	4.66E+03	1.10E+01		3.63E+03	1.08E+01		5.64E+03	1.05E+01		8.80E+03	1.08E+01		6.13E+03	1.09E+01		3.78E+03	1.10E+01		6.25E+03	1.13E+01	
Antimony	3.13E+01	7.80E+00	<	6.60E+00	U	<	6.50E+00	U	<	6.30E+00	U	<	6.50E+00	U	<	6.50E+00	U	<	6.60E+00	U	<	6.80E+00	U
Arsenic	4.25E+00	2.90E+00	1.50E+00	5.50E-01		1.10E+00	5.40E-01		2.20E+00	5.30E-01		2.80E+00	5.40E-01		2.80E+00	5.50E-01		1.50E+00	5.50E-01		2.40E+00	5.70E-01	
Barium	1.56E+04	9.71E+02	2.78E+01	1.10E+00		2.06E+01	1.10E+00		8.41E+01	1.10E+00		1.02E+02	1.10E+00		7.29E+01	1.10E+00		9.84E+01	1.10E+00		1.01E+02	1.10E+00	
Beryllium	1.56E+02	8.30E-01	2.20E-01	2.20E-01		1.60E-01	2.20E-01	J	4.90E-01	2.10E-01		7.20E-01	2.20E-01		4.90E-01	2.20E-01		3.70E-01	2.20E-01		7.10E-01	2.30E-01	
Cadmium	7.05E+01	4.20E+00	<	5.50E-01	U	<	5.40E-01	U	<	5.30E-01	U	<	5.40E-01	U	1.50E+00	5.50E-01		9.20E-01	5.50E-01		1.10E+00	5.70E-01	
Calcium	1.30E+07	2.48E+05	3.70E+04	2.20E+01		8.97E+03	2.16E+01		1.82E+04	2.10E+01		1.67E+04	2.16E+01		1.03E+05	2.18E+01		1.04E+05	2.21E+01		9.10E+04	2.27E+01	
Chromium	9.66E+01	1.69E+01	3.10E+00	1.10E+00		3.60E+00	1.10E+00		9.90E+00	1.10E+00		9.50E+00	1.10E+00		6.10E+00	1.10E+00		4.20E+00	1.10E+00	U	5.20E+00	1.10E+00	U
Cobalt[1]	2.30E+01	5.30E+00	2.90E+00	1.10E+00		1.40E+00	1.10E+00		3.40E+00	1.10E+00		4.80E+00	1.10E+00		3.20E+00	1.10E+00		2.30E+00	1.10E+00		3.30E+00	1.10E+00	
Copper	3.13E+03	5.49E+01	2.00E+00	2.20E+00	J	2.70E+00	2.20E+00		7.10E+00	2.10E+00		9.90E+00	2.20E+00		5.40E+00	2.20E+00		2.80E+00	2.20E+00		5.50E+00	2.30E+00	
Iron	5.48E+04	3.36E+04	3.76E+03	1.10E+01		3.43E+03	1.08E+01		6.26E+03	1.05E+01		8.96E+03	1.08E+01		5.80E+03	1.09E+01		3.54E+03	1.10E+01		5.20E+03	1.13E+01	
Lead	4.00E+02	4.82E+01	2.60E+00	1.10E+00		2.60E+00	1.10E+00		4.32E+01	5.30E+00		9.20E+00	1.10E+00		6.10E+00	2.70E+00		4.60E+00	5.50E-01		7.40E+00	1.10E+00	
Magnesium	3.39E+05	1.19E+04	5.24E+03	2.20E+01		3.76E+03	2.16E+01		1.34E+03	2.10E+01		2.27E+03	2.16E+01		2.63E+03	2.18E+01		2.37E+03	2.21E+01		3.97E+03	2.27E+01	
Manganese	1.05E+04	3.32E+02	1.11E+02	1.10E+00		3.06E+01	1.10E+00		1.54E+02	1.10E+00		1.89E+02	1.10E+00		7.85E+01	1.10E+00		5.83E+01	1.10E+00		9.30E+01	1.10E+00	
Mercury	2.38E+01	1.10E-01	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U
Nickel	1.56E+03	4.60E+01	4.60E+00	4.40E+00		3.80E+00	4.30E+00	J	6.60E+00	4.20E+00		1.04E+01	4.30E+00		7.80E+00	4.40E+00		5.20E+00	4.40E+00		6.70E+00	4.50E+00	
Potassium	1.56E+07	2.52E+03	1.01E+03	5.49E+02		8.16E+02	5.40E+02	J	1.54E+03	5.26E+02		1.76E+03	5.39E+02		1.31E+03	5.45E+02		1.05E+03	5.52E+02		2.01E+03	5.67E+02	
Selenium	3.91E+02	2.70E-01	<	1.10E+00	J	<	1.10E+00	J	<	5.30E-01	U	<	1.10E+00	UJ	<	1.10E+00	J	<	1.10E+00	J	<	1.10E+00	J
Silver	3.91E+02	3.60E+00	<	1.10E+00	U	<	1.10E+00	U	4.30E-01	1.10E+00	J	4.70E-01	1.10E+00	J	4.70E-01	1.10E+00	J	5.40E-01	1.10E+00	J	<	1.10E+00	U
Thallium	7.82E-01	1.40E-01	<	5.50E-01	U	<	5.40E-01	U	<	5.30E-01	U	<	5.40E-01	U	<	1.10E+00	J	<	1.10E+00	J	<	5.70E-01	U
Vanadium	3.94E+02	2.30E+01	1.82E+01	1.10E+00		1.63E+01	1.10E+00		1.46E+01	1.10E+00		1.86E+01	1.10E+00		1.87E+01	1.10E+00		1.21E+01	1.10E+00		1.62E+01	1.10E+00	
Zinc	2.35E+04	3.85E+01	8.80E+00	2.20E+00		6.40E+00	2.20E+00		2.41E+01	2.10E+00		2.10E+01	2.20E+00		1.44E+01	2.20E+00		9.40E+00	2.20E+00		1.28E+01	2.30E+00	
TPH (mg/kg)																						
Total Petroleum Hydrocarbons	1.00E+03	3.44E+02	<	4.39E+01	U	<	4.32E+01	U	4.41E+01	4.21E+01	U	<	4.31E+01	U	<	4.36E+01	U	<	4.42E+01	U	<	4.54E+01	U

Notes:

5.50E-01 = value exceeds NMED residential soil screening levels

-- = no screening level established

[1] = Screening value based on USEPA 2015 regional screening levels

< = not detected

AFB = Air Force Base

J = Estimated value below reporting limit

mg/kg = milligrams per kilogram

NMED = New Mexico Environment Department

NS = not sampled

Qual = Qualification

RL = Reporting Limit

SSL = soil screening level

TPH = total petroleum hydrocarbons

U = Not detected

UJ = Estimated Nondetect

USEPA = United States Environmental Protection Agency

TABLE 3-1
1993 PHASE I RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-1277-0028 0311840014SA 09/12/93			CAN127-1277-0038 0311840015SA 09/12/93			CAN127-1277-0048 0311840016SA 09/12/93			CAN127-1277-0058 0311840017SA 09/12/93			CAN127-1278-0000 0311840001SA 09/12/93			CAN127-1278-0002 0311840002SA 09/12/93			CAN127-1278-0004 0311840004SA 09/12/93		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Results	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (mg/kg)																								
Benzene	1.78E+01	1.20E-03	<	5.60E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	5.50E-03	U
2-Butanone (MEK)	3.74E+04	7.10E-03	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Carbon tetracholride	1.07E+01	2.70E-03	<	5.60E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	5.50E-03	U
Chlorobenzene	3.78E+02	1.30E-03	<	5.60E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	5.50E-03	U
1,2-Dichloroethane	8.32E+00	1.90E-03	<	5.60E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	5.50E-03	U
1,2-Dichloroethane (total)	8.32E+00	1.30E-03	<	5.60E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	5.50E-03	U
1,2-Dichloropropane	1.78E+01	1.30E-02	<	5.60E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	5.50E-03	U
Ethylbenzene	7.51E+01	1.30E-03	<	5.60E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	5.50E-03	U
Tetrachloroethene	1.11E+02	2.90E-03	<	5.60E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	5.50E-03	U
Toluene	5.23E+03	1.80E-02	<	5.60E-03	U	1.70E-03	5.50E-03	J	2.00E-03	5.50E-03	J	2.60E-03	5.50E-03	J	<	5.30E-03	U	<	5.40E-03	U	<	5.50E-03	U
1,1,1-Tricholorethane	1.44E+04	1.80E-03	<	5.60E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	5.50E-03	U
Trichlorethene	6.77E+00	2.30E-03	<	5.60E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	5.50E-03	U
Xylenes (total)	8.71E+02	1.20E-02	<	5.60E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	5.50E-03	U
Semivolatile Organics (mg/kg)																								
Acenaphthene	3.48E+03	1.50E-01	NS			NS			NS			NS			<	1.40E+00	U	NS			NS		
Anthracene	1.74E+04	4.80E-02	NS			NS			NS			NS			<	1.40E+00	U	NS			NS		
Benzo(a)anthracene	1.53E+00	8.00E+00	NS			NS			NS			NS			1.50E-01	1.40E+00	J	NS			NS		
Benzo(a)pyrene	1.53E-01	8.60E+00	NS			NS			NS			NS			**1.80E-01**	1.40E+00	J	NS			NS		
Benzo(b)fluoranthene	1.53E+00	1.70E+01	NS			NS			NS			NS			3.80E-01	1.40E+00	J	NS			NS		
Benzo(g,h,i)perylene	--	5.10E+00	NS			NS			NS			NS			<	1.40E+00	U	NS			NS		
Butyl benzyl phtalate[1]	2.90E+02	1.10E-01	NS			NS			NS			NS			<	1.40E+00	U	NS			NS		
Carbazole	--	1.50E+00	NS			NS			NS			NS			<	1.40E+00	U	NS			NS		
Chrysene	1.53E+02	1.40E+01	NS			NS			NS			NS			2.60E-01	1.40E+00	J	NS			NS		
Di-n-butyl phthalate	6.16E+03	1.30E-01	NS			NS			NS			NS			<	1.40E+00	U	NS			NS		
Fluoranthene	2.32E+03	1.70E+01	NS			NS			NS			NS			4.40E-01	1.40E+00	J	NS			NS		
Fluorene	2.32E+03	2.90E-01	NS			NS			NS			NS			<	1.40E+00	U	NS			NS		
Indeno(1,2,3-cd)pyrene	1.53E+00	5.10E+00	NS			NS			NS			NS			<	1.40E+00	U	NS			NS		
2-Methylnaphthalene[1]	2.40E+02	2.50E-01	NS			NS			NS			NS			<	1.40E+00	U	NS			NS		
Phenanthrene	1.74E+03	8.10E+00	NS			NS			NS			NS			1.90E-01	1.40E+00	J	NS			NS		
Pyrene	1.74E+03	1.70E+01	NS			NS			NS			NS			3.60E-01	1.40E+00	J	NS			NS		

TABLE 3-1
1993 PHASE I RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-1277-0028 0311840014SA 09/12/93			CAN127-1277-0038 0311840015SA 09/12/93			CAN127-1277-0048 0311840016SA 09/12/93			CAN127-1277-0058 0311840017SA 09/12/93			CAN127-1278-0000 0311840001SA 09/12/93			CAN127-1278-0002 0311840002SA 09/12/93			CAN127-1278-0004 0311840004SA 09/12/93		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Results	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																							
Aluminum	7.80E+04	1.16E+04	5.36E+03	1.11E+01		4.47E+03	1.10E+01		4.58E+03	1.10E+01		4.37E+03	1.11E+01		6.79E+03	1.05E+01		8.05E+03	1.09E+01		4.27E+03	2.18E+01	
Antimony	3.13E+01	7.80E+00	<	6.70E+00	U	<	6.60E+00	U	<	6.60E+00	U	<	6.60E+00	U	<	6.30E+00	U	<	6.50E+00	U	<	1.31E+01	U
Arsenic	4.25E+00	2.90E+00	1.40E+00	5.60E-01		1.30E+00	5.50E-01		1.10E+00	5.50E-01		1.20E+00	5.50E-01		2.30E+00	5.30E-01		2.60E+00	1.10E+00		2.00E+00	5.50E-01	
Barium	1.56E+04	9.71E+02	1.57E+00	1.10E+00		1.58E+02	1.10E+00		4.17E+01	1.10E+00		8.46E+01	1.10E+00		8.38E+01	1.10E+00		7.94E+01	1.10E+00		2.27E+02	2.20E+00	
Beryllium	1.56E+02	8.30E-01	3.80E-01	2.20E-01		3.10E-01	2.20E-01		2.80E-01	2.20E-01		2.70E-01	2.20E-01		4.50E-01	2.10E-01		6.80E-01	2.20E-01		4.20E-01	4.40E-01	J
Cadmium	7.05E+01	4.20E+00	1.20E+00	5.60E-01		8.60E-01	5.50E-01		<	5.50E-01	U	1.10E+00	5.50E-01		<	5.30E-01	U	<	5.40E-01	U	2.60E+00	1.10E+00	
Calcium	1.30E+07	2.48E+05	7.63E+04	2.23E+01		7.78E+04	2.20E+01		5.82E+04	2.20E+01		6.84E+04	2.21E+01		5.73E+03	2.11E+01		4.35E+04	2.18E+01		1.66E+05	4.36E+01	
Chromium	9.66E+01	1.69E+01	5.60E+00	1.10E+00		6.10E+00	1.10E+00		4.90E+00	1.10E+00	U	6.30E+00	1.10E+00		1.13E+01	1.10E+00		8.80E+00	1.10E+00		4.00E+00	2.20E+00	U
Cobalt[1]	2.30E+01	5.30E+00	1.40E+00	1.10E+00		1.50E+00	1.10E+00		1.20E+00	1.10E+00		1.70E+00	1.10E+00		3.30E+00	1.10E+00		4.40E+00	1.10E+00		2.60E+00	2.20E+00	
Copper	3.13E+03	5.49E+01	2.40E+00	2.20E+00		2.20E+00	2.20E+00		2.10E+00	2.20E+00	J	5.49E+01	2.20E+00		7.30E+00	2.10E+00		9.10E+00	2.20E+00		4.10E+00	4.40E+00	J
Iron	5.48E+04	3.36E+04	3.78E+03	1.11E+01		3.43E+03	1.10E+01			1.10E+01		3.37E+03	1.11E+01		7.06E+03	1.05E+01		7.80E+03	1.09E+01		4.17E+03	2.18E+01	
Lead	4.00E+02	4.82E+01	3.10E+00	5.60E-01		3.40E+00	5.50E-01		3.00E+00	5.50E-01		3.90E+00	5.50E-01		4.24E+01	5.30E+00		7.50E+00	5.40E-01		4.90E+00	5.50E-01	
Magnesium	3.39E+05	1.19E+04	6.17E+03	2.23E+01		4.87E+03	2.20E+01		5.89E+03	2.20E+01		5.92E+03	2.21E+01		1.22E+03	2.11E+01		2.30E+03	2.18E+01		2.46E+03	4.36E+01	
Manganese	1.05E+04	3.32E+02	3.50E+01	1.10E+00		4.03E+01	1.10E+00		4.75E+01	1.10E+00		4.13E+01	1.10E+00		1.51E+02	1.10E+00		1.68E+02	1.10E+00		5.71E+01	2.20E+00	
Mercury	2.38E+01	1.10E-01	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	1.10E-01	1.10E-01		<	1.10E-01	U	<	1.10E-01	U
Nickel	1.56E+03	4.60E+01	4.60E+01	4.50E+00		4.30E+00	4.40E+00	J	4.00E+00	4.40E+00	J	4.60E+00	4.40E+00		6.90E+00	4.20E+00		9.80E+00	4.40E+00		6.40E+00	8.70E+00	J
Potassium	1.56E+07	2.52E+03	1.05E+03	5.57E+02		8.91E+02	5.51E+02		9.17E+02	5.50E+02		8.12E+02	5.53E+02		1.63E+03	5.27E+02		1.65E+03	5.45E+02		8.40E+02	1.09E+03	J
Selenium	3.91E+02	2.70E-01	<	1.10E+00	J	<	1.10E+00	J	<	1.10E+00	J	<	1.10E+00	J	<	5.30E-01	U	<	1.10E+00	J	<	1.10E+00	J
Silver	3.91E+02	3.60E+00	4.30E-01	1.10E+00	J	5.10E-01	1.10E+00	J	4.80E-01	1.10E+00	J	3.50E-01	1.10E+00	J	5.30E-01	1.10E+00	J	4.50E-01	1.10E+00		1.20E+00	2.20E+00	J
Thallium	7.82E-01	1.40E-01	<	5.60E-01	U	<	1.10E+00	J	<	5.50E-01	U	<	5.50E-01	U	<	5.30E-01	U	<	5.40E-01	U	<	1.10E+00	J
Vanadium	3.94E+02	2.30E+01	1.50E+01	1.10E+00		1.49E+01	1.10E+00		1.82E+01	1.10E+00		2.09E+01	1.10E+00		1.46E+01	1.10E+00		1.69E+01	1.10E+00		1.54E+01	2.20E+00	
Zinc	2.35E+04	3.85E+01	9.00E+00	2.20E+00		7.90E+00	2.20E+00		8.80E+00	2.20E+00		1.10E+01	2.20E+00		2.21E+01	2.10E+00		1.94E+01	2.20E+00		1.11E+01	4.40E+00	
TPH (mg/kg)																							
Total Petroleum Hydrocarbons	1.00E+03	3.44E+02	<	4.46E+01	U	<	4.41E+01	U	<	4.40E+01	U	<	4.42E+01	U	<	4.22E+01	U	<	4.36E+01	U	<	4.36E+01	U

Notes:

5.50E-01 = value exceeds NMED residential soil screening levels

-- = no screening level established

[1] = Screening value based on USEPA 2015 regional screening levels

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NS = not sampled

Qual = Qualification

RL = Reporting Limit

SSL = soil screening level

TPH = total petroleum hydrocarbons

U = Not detected

UJ = Estimated Nondetect

USEPA = United States Environmental Protection Agency

TABLE 3-1
1993 PHASE I RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-1278-0008 0311840005SA 09/12/93			CAN127-1278-0018 0311840006SA 09/12/93			CAN127-1278-0028 0311840007SA 09/12/93			CAN127-1278-0038 0311840008SA 09/12/93			CAN127-1278-0048 0312160010SA 09/12/93			CAN127-1278-0058 0312160011SA 09/12/93		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (mg/kg)																					
Benzene	1.78E+01	1.20E-03	<	5.60E-03	U	<	5.70E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U
2-Butanone (MEK)	3.74E+04	7.10E-03	6.60E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	7.10E-03	1.10E-02	J
Carbon tetracholride	1.07E+01	2.70E-03	<	5.60E-03	U	<	5.70E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U
Chlorobenzene	3.78E+02	1.30E-03	<	5.60E-03	U	<	5.70E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U
1,2-Dichloroethane	8.32E+00	1.90E-03	<	5.60E-03	U	<	5.70E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U
1,2-Dichloroethane (total)	8.32E+00	1.30E-03	<	5.60E-03	U	<	5.70E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U
1,2-Dichloropropane	1.78E+01	1.30E-02	<	5.60E-03	U	<	5.70E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U
Ethylbenzene	7.51E+01	1.30E-03	<	5.60E-03	U	<	5.70E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U
Tetrachloroethene	1.11E+02	2.90E-03	<	5.60E-03	U	<	5.70E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U
Toluene	5.23E+03	1.80E-02	<	5.60E-03	U	<	5.70E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U
1,1,1-Tricholorethane	1.44E+04	1.80E-03	<	5.60E-03	U	<	5.70E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U
Trichlorethene	6.77E+00	2.30E-03	<	5.60E-03	U	<	5.70E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U
Xylenes (total)	8.71E+02	1.20E-02	<	5.60E-03	U	<	5.70E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U
Semivolatile Organics (mg/kg)																					
Acenaphthene	3.48E+03	1.50E-01	<	3.70E-01	U	NS			NS			NS			NS			NS		
Anthracene	1.74E+04	4.80E-02	<	3.70E-01	U	NS			NS			NS			NS			NS		
Benzo(a)anthracene	1.53E+00	8.00E+00	<	3.70E-01	U	NS			NS			NS			NS			NS		
Benzo(a)pyrene	1.53E-01	8.60E+00	<	3.70E-01	U	NS			NS			NS			NS			NS		
Benzo(b)fluoranthene	1.53E+00	1.70E+01	<	3.70E-01	U	NS			NS			NS			NS			NS		
Benzo(g,h,i)perylene	--	5.10E+00	<	3.70E-01	U	NS			NS			NS			NS			NS		
Butyl benzyl phtalate[1]	2.90E+02	1.10E-01	<	3.70E-01	U	NS			NS			NS			NS			NS		
Carbazole	--	1.50E+00	<	3.70E-01	U	NS			NS			NS			NS			NS		
Chrysene	1.53E+02	1.40E+01	<	3.70E-01	U	NS			NS			NS			NS			NS		
Di-n-butyl phthalate	6.16E+03	1.30E-01	<	3.70E-01	U	NS			NS			NS			NS			NS		
Fluoranthene	2.32E+03	1.70E+01	<	3.70E-01	U	NS			NS			NS			NS			NS		
Fluorene	2.32E+03	2.90E-01	<	3.70E-01	U	NS			NS			NS			NS			NS		
Indeno(1,2,3-cd)pyrene	1.53E+00	5.10E+00	<	3.70E-01	U	NS			NS			NS			NS			NS		
2-Methylnaphthalene[1]	2.40E+02	2.50E-01	<	3.70E-01	U	NS			NS			NS			NS			NS		
Phenanthrene	1.74E+03	8.10E+00	<	3.70E-01	U	NS			NS			NS			NS			NS		
Pyrene	1.74E+03	1.70E+01	<	3.70E-01	U	NS			NS			NS			NS			NS		

TABLE 3-1
1993 PHASE I RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-1278-0008 0311840005SA 09/12/93			CAN127-1278-0018 0311840006SA 09/12/93			CAN127-1278-0028 0311840007SA 09/12/93			CAN127-1278-0038 0311840008SA 09/12/93			CAN127-1278-0048 0312160010SA 09/12/93			CAN127-1278-0058 0312160011SA 09/12/93		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																					
Aluminum	7.80E+04	1.16E+04	4.50E+03	1.11E+01		5.73E+03	2.29E+01		7.38E+03	1.12E+01		4.53E+03	1.11E+01		4.49E+03	1.11E+01		4.43E+03	1.13E+01	
Antimony	3.13E+01	7.80E+00	<	6.70E+00	U	<	1.37E+01	U	<	6.70E+00	U	<	6.60E+00	U	<	6.70E+00	U	<	6.80E+00	U
Arsenic	4.25E+00	2.90E+00	1.70E+00	5.60E-01		2.20E+00	5.70E-01		1.90E+00	5.60E-01		1.30E+00	5.50E-01		1.10E+00	5.60E-01		1.20E+00	5.60E-01	
Barium	1.56E+04	9.71E+02	2.04E+02	1.10E+00		2.42E+02	2.30E+00		1.89E+02	1.10E+00		7.44E+01	1.10E+00		1.13E+02	1.10E+00		3.16E+01	1.10E+00	
Beryllium	1.56E+02	8.30E-01	4.60E-01	2.20E-01		4.40E-01	4.60E-01	J	4.60E-01	2.20E-01		3.10E-01	2.20E-01		<	2.20E-01	U	1.70E-01	2.30E-01	J
Cadmium	7.05E+01	4.20E+00	1.20E+00	5.60E-01		2.40E+00	1.10E+00		7.10E-01	5.60E-01		8.80E-01	5.50E-01		<	5.60E-01	U	<	5.60E-01	U
Calcium	1.30E+07	2.48E+05	8.31E+04	2.22E+01		1.54E+05	4.57E+01		8.96E+04	2.25E+01		6.42E+04	2.21E+01		5.89E+04	2.22E+01		3.08E+04	2.26E+01	
Chromium	9.66E+01	1.69E+01	4.90E+00	1.10E+00	U	6.70E+00	2.30E+00	U	5.60E+00	1.10E+00		4.70E+00	1.10E+00	U	3.20E+00	1.10E+00		2.70E+00	1.10E+00	
Cobalt[1]	2.30E+01	5.30E+00	2.20E+00	1.10E+00	J	2.70E+00	2.30E+00		2.40E+00	1.10E+00		1.60E+00	1.10E+00		1.50E+00	1.10E+00		1.50E+00	1.10E+00	
Copper	3.13E+03	5.49E+01	4.00E+00	2.20E+00		3.70E+00	4.60E+00	J	3.10E+00	2.20E+00		2.00E+00	2.20E+00	J	1.60E+00	2.20E+00	J	1.80E+00	2.30E+00	J
Iron	5.48E+04	3.36E+04	4.57E+03	1.11E+01		4.78E+03	2.29E+01		5.23E+03	1.12E+01		3.43E+03	1.11E+01		2.99E+03	1.11E+01		2.84E+03	1.13E+01	
Lead	4.00E+02	4.82E+01	5.80E+00	5.60E-01		5.10E+00	5.70E-01		4.00E+00	5.60E-01		4.20E+00	5.50E-01		2.10E+00	5.60E-01		2.30E+00	5.60E-01	
Magnesium	3.39E+05	1.19E+04	2.50E+03	2.22E+01		4.94E+03	4.57E+01		4.85E+03	2.25E+01		3.73E+03	2.21E+01		4.96E+03	2.22E+01		4.40E+03	2.26E+01	
Manganese	1.05E+04	3.32E+02	7.16E+01	1.10E+00		7.11E+01	2.30E+00		6.85E+01	1.10E+00		3.74E+01	1.10E+00		3.70E+01	1.10E+00		3.95E+01	1.10E+00	
Mercury	2.38E+01	1.10E-01	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U
Nickel	1.56E+03	4.60E+01	6.00E+00	4.40E+00		7.60E+00	9.10E+00	J	6.60E+00	4.50E+00		4.50E+00	4.40E+00		3.70E+00	4.40E+00	J	3.30E+00	4.50E+00	J
Potassium	1.56E+07	2.52E+03	1.13E+03	5.55E+02		1.54E+03	1.14E+03		1.58E+03	5.61E+02		9.25E+02	5.53E+02		9.87E+02	5.55E+02		1.00E+03	5.64E+02	
Selenium	3.91E+02	2.70E-01	<	1.10E+00	J	<	1.10E+00	J	<	1.10E+00	J	<	1.10E+00	J	<	1.10E+00	J	<	1.10E+00	J
Silver	3.91E+02	3.60E+00	8.00E-01	1.10E+00	J	1.60E+00	2.30E+00	J	4.80E-01	1.10E+00	J	6.20E-01	1.10E+00	J	<	1.10E+00	U	<	1.10E+00	U
Thallium	7.82E-01	1.40E-01	<	5.60E-01	U	<	1.10E+00	J	<	1.10E+00	J	<	5.50E-01	U	<	5.60E-01	J	<	5.60E-01	J
Vanadium	3.94E+02	2.30E+01	1.52E+01	1.10E+00		1.70E+01	2.30E+00		1.98E+01	1.10E+00		1.45E+01	1.10E+00		1.63E+01	1.10E+00		1.57E+01	1.10E+00	
Zinc	2.35E+04	3.85E+01	1.11E+01	2.20E+00		1.04E+01	4.60E+00		1.17E+01	2.20E+00		7.30E+00	2.20E+00		7.20E+00	2.20E+00		7.30E+00	2.30E+00	
TPH (mg/kg)																					
Total Petroleum Hydrocarbons	1.00E+03	3.44E+02	1.70E+02	4.44E+01		5.59E+01	4.57E+01		<	4.49E+01	U	<	4.42E+01	U	<	4.44E+01	U	<	4.51E+01	U

Notes:

5.50E-01 = value exceeds NMED residential soil screening levels

-- = no screening level established

[1] = Screening value based on USEPA 2015 regional screening levels

< = not detected

AFB = Air Force Base

J = Estimated value below reporting limit

mg/kg = milligrams per kilogram

NMED = New Mexico Environment Department

NS = not sampled

Qual = Qualification

RL = Reporting Limit

SSL = soil screening level

TPH = total petroleum hydrocarbons

U = Not detected

UJ = Estimated Nondetect

USEPA = United States Environmental Protection Agency

TABLE 3-2
1994 PHASE II RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-2709-0000 0398710011SA 12/13/94			CAN127-2709-0005 0398710009SA 12/13/94			CAN127-2709-0010 0398710008SA 12/13/94			CAN127-2710-0000 0398710005SA 12/13/94			CAN127-2710-0005 0398710003SA 12/13/94			CAN127-2710-0010 0398710007SA 12/13/94			CAN127-2711-0000 0397370007SA 12/09/94		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (mg/kg)																						
Acetone	6.63E+04	7.50E+00	5.00E+00	1.40E+01	J	7.30E-03	1.20E-02	J	1.10E-02	1.10E-02		7.50E+00	1.40E+01	J	1.20E-02	1.20E-02		1.10E-02	1.10E-02		<	1.10E-02	U
Benzene	1.78E+01	3.80E+00	<	7.00E+00	U	<	5.80E-03	U	<	5.70E-03	U	3.80E+00	7.20E+00	J	<	5.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
2-Butanone (MEK)	3.74E+04	6.20E-03	<	1.40E+01	U	<	1.20E-02	U	<	1.10E-02	U	<	1.40E+01	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Ethylbenzene	7.51E+01	5.40E+01	3.90E+00	7.00E+00	J	<	5.80E-03	U	<	5.70E-03	U	5.40E+01	7.20E+00		<	5.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
Methylene chloride	4.09E+02	6.70E-03	<	7.00E+00	U	<	5.80E-03	U	<	5.70E-03	U	<	7.20E+00	U	<	5.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
Toluene	5.23E+03	8.20E+01	1.40E+01	7.00E+00		<	5.80E-03	U	<	5.70E-03	U	8.20E+01	7.20E+00		<	5.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
Xylenes (total)	8.71E+02	2.60E+02	3.30E+01	7.00E+00		<	5.80E-03	U	<	5.70E-03	U	2.60E+02	7.20E+00		<	5.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
Semivolatile Organics (mg/kg)																						
Anthracene	1.74E+04	6.80E-02	<	3.70E+01	U	<	3.80E-01	U	<	3.80E-01	U	<	3.80E+01	U	<	3.90E-01	U	<	3.60E-01	U	6.80E-02	3.60E-01	J
Benzo(a)anthracene	1.53E+00	9.10E-01	<	3.70E+01	U	<	3.80E-01	U	<	3.80E-01	U	<	3.80E+01	U	<	3.90E-01	U	<	3.60E-01	U	9.10E-01	3.60E-01	
Benzo(a)pyrene	1.53E-01	1.10E+00	<	3.70E+01	U	<	3.80E-01	U	<	3.80E-01	U	<	3.80E+01	U	<	3.90E-01	U	<	3.60E-01	U	**1.10E+00**	3.60E-01	
Benzo(b)fluoranthene	1.53E+00	1.60E+00	<	3.70E+01	U	<	3.80E-01	U	<	3.80E-01	U	<	3.80E+01	U	<	3.90E-01	U	<	3.60E-01	U	1.10E+00	3.60E-01	J
Benzo(g,h,i)perylene	--	7.00E-01	<	3.70E+01	U	<	3.80E-01	U	<	3.80E-01	U	<	3.80E+01	U	<	3.90E-01	U	<	3.60E-01	U	7.00E-01	3.60E-01	
Benzo(k)fluroanthene	1.53E+01	1.60E+00	<	3.70E+01	U	<	3.80E-01	U	<	3.80E-01	U	<	3.80E+01	U	<	3.90E-01	U	<	3.60E-01	U	1.60E+00	3.60E-01	
Benzoic acid	2.50E+05	4.80E-02	<	1.80E+02	U	<	1.80E+00	U	<	1.80E+00	U	<	1.80E+02	U	<	1.90E+00	U	<	1.80E+00	U	<	1.70E+00	U
bis(2-Ethylehexyl)phthalate	3.80E+02	4.70E+00	<	3.70E+01	U	<	3.80E-01	U	<	3.80E-01	U	<	3.80E+01	U	<	3.90E-01	U	<	3.60E-01	U	<	3.60E-01	U
Butyl benzyl phtalate [1]	2.90E+02	9.00E-02	<	3.70E+01	U	<	3.80E-01	U	<	3.80E-01	U	<	3.80E+01	U	<	3.90E-01	U	<	3.60E-01	U	<	3.60E-01	U
Carbazole	--	1.70E-01	<	3.70E+01	U	<	3.80E-01	U	<	3.80E-01	U	<	3.80E+01	U	<	3.90E-01	U	<	3.60E-01	U	1.70E-01	3.60E-01	J
Chrysene	1.53E+02	1.50E+00	<	3.70E+01	U	<	3.80E-01	U	<	3.80E-01	U	<	3.80E+01	U	<	3.90E-01	U	<	3.60E-01	U	1.50E+00	3.60E-01	
Di-n-butyl phthalate	6.16E+03	1.90E-01	<	3.70E+01	U	<	3.80E-01	U	<	3.80E-01	U	<	3.80E+01	U	<	3.90E-01	U	<	3.60E-01	U	<	3.60E-01	U
Di-n-octyl phthalate	--	3.10E-01	<	3.70E+01	U	<	3.80E-01	U	<	3.80E-01	U	<	3.80E+01	U	<	3.90E-01	U	<	3.60E-01	U	<	3.60E-01	U
Dibenz(a,h)anthracene	1.53E-01	2.80E-01	<	3.70E+01	U	<	3.80E-01	U	<	3.80E-01	U	<	3.80E+01	U	<	3.90E-01	U	<	3.60E-01	U	**2.80E-01**	3.60E-01	J
Diethyl phthalate	4.93E+04	4.60E-02	<	3.70E+01	U	<	3.80E-01	U	<	3.80E-01	U	<	3.80E+01	U	<	3.90E-01	U	<	3.60E-01	U	<	3.60E-01	U
Fluoranthene	2.32E+03	2.80E+00	<	3.70E+01	U	<	3.80E-01	U	<	3.80E-01	U	<	3.80E+01	U	<	3.90E-01	U	<	3.60E-01	U	2.80E+00	3.60E-01	
Indeno(1,2,3-cd)pyrene	1.53E+00	7.00E-01	<	3.70E+01	U	<	3.80E-01	U	<	3.80E-01	U	<	3.80E+01	U	<	3.90E-01	U	<	3.60E-01	U	7.00E-01	3.60E-01	
2-Methylnaphthalene [1]	2.40E+02	4.00E+01	4.90E+00	3.70E+01	J	<	3.80E-01	U	<	3.80E-01	U	4.00E+01	3.80E+01		<	3.90E-01	U	<	3.60E-01	U	<	3.60E-01	U
Naphthalene	4.97E+01	2.10E+01	<	3.70E+01	U	<	3.80E-01	U	<	3.80E-01	U	2.10E+01	3.80E+01	J	<	3.90E-01	U	<	3.60E-01	U	<	3.60E-01	U
Phenanthrene	1.74E+03	1.10E+00	<	3.70E+01	U	<	3.80E-01	U	<	3.80E-01	U	<	3.80E+01	U	<	3.90E-01	U	<	3.60E-01	U	1.10E+00	3.60E-01	
Pyrene	1.74E+03	2.30E+00	<	3.70E+01	U	<	3.80E-01	U	<	3.80E-01	U	<	3.80E+01	U	<	3.90E-01	U	<	3.60E-01	U	2.30E+00	3.60E-01	

TABLE 3-2
1994 PHASE II RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-2709-0000 0398710011SA 12/13/94			CAN127-2709-0005 0398710009SA 12/13/94			CAN127-2709-0010 0398710008SA 12/13/94			CAN127-2710-0000 0398710005SA 12/13/94			CAN127-2710-0005 0398710003SA 12/13/94			CAN127-2710-0010 0398710007SA 12/13/94			CAN127-2711-0000 0397370007SA 12/09/94		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																						
Aluminum	7.80E+04	1.47E+04	9.24E+03	1.12E+01		7.35E+03	2.31E+01		6.95E+03	2.28E+01		1.11E+04	1.15E+01		4.53E+03	5.88E+01		4.90E+03	1.10E+01		1.10E+04	1.08E+01	J
Antimony	3.13E+01	4.60E+00	<	6.70E+00	UJ	<	1.38E+01	UJ	<	1.37E+01	UJ	<	6.90E+00	UJ	<	3.53E+01	UJ	<	6.60E+00	UJ	<	6.50E+00	UJ
Arsenic	4.25E+00	3.00E+00	3.00E+00	5.60E-01		2.30E+00	5.80E-01		1.30E+00	5.70E-01		2.40E+00	5.80E-01		1.60E+00	5.90E-01		8.80E-01	5.50E-01		2.40E+00	5.40E-01	
Barium	1.56E+04	1.54E+03	6.39E+02	1.10E+00	J	8.66E+02	2.30E+00	J	1.54E+03	2.30E+00	J	2.05E+02	1.20E+00	J	3.29E+02	5.90E+00	J	1.80E+00	1.10E+00	J	1.05E+02	1.10E+00	J
Beryllium	1.56E+02	7.60E-01	4.30E-01	2.20E-01		4.30E-01	4.60E-01	J	4.00E-01	4.60E-01	J	5.50E-01	2.30E-01		<	1.20E+00	U	3.40E-01	2.20E-01		5.00E-01	2.20E-01	
Cadmium	7.05E+01	7.70E-01	6.40E-01	5.60E-01		<	1.20E+00	U	<	1.10E+00	U	<	5.80E-01	U	<	2.90E+00	U	<	5.50E-01	U	<	5.40E-01	U
Calcium	1.30E+07	2.54E+05	5.35E+04	2.24E+01		2.04E+04	4.62E+01		1.35E+05	4.55E+01		2.05E+04	2.30E+01		2.54E+05	1.18E+02		7.57E+04	2.20E+01		1.93E+04	2.16E+01	
Chromium	9.66E+01	2.14E+01	1.13E+01	1.10E+00		4.40E+00	2.30E+00		4.60E+00	2.30E+00		1.05E+01	1.20E+00		<	5.90E+00	U	3.90E+00	1.10E+00		1.55E+01	1.10E+00	
Cobalt [1]	2.30E+01	8.00E+00	8.00E+00	1.10E+00		3.20E+00	2.30E+00		<	2.30E+00	U	5.30E+00	1.20E+00		3.00E+00	5.90E+00	J	2.50E+00	1.10E+00		3.40E+00	1.10E+00	
Copper	3.13E+03	4.58E+01	8.50E+00	2.20E+00		4.50E+00	4.60E+00	J	3.00E+00	4.60E+00	J	8.80E+00	2.30E+00		<	1.18E+01	U	2.10E+00	2.20E+00	J	7.50E+00	2.20E+00	
Iron	5.48E+04	1.15E+04	1.08E+04	1.12E+01		5.78E+03	2.31E+01		5.30E+03	2.28E+01		1.04E+04	1.15E+01		3.56E+03	5.88E+01		4.12E+03	1.10E+01		9.76E+03	1.08E+01	J
Lead	4.00E+02	8.39E+01	6.40E+00	5.60E-01	J	3.90E+00	5.80E-01	J	3.50E+00	5.70E-01	J	7.60E+00	5.80E-01	J	3.10E+00	5.90E-01	J	3.30E+00	5.50E-01	J	8.39E+01	5.40E+00	
Magnesium	3.39E+05	1.50E+04	2.22E+03	2.24E+01		3.48E+03	4.62E+01		3.49E+03	4.55E+01		2.00E+03	2.30E+01		3.60E+03	1.18E+02		2.52E+03	2.20E+01		1.98E+03	2.16E+01	
Manganese	1.05E+04	3.40E+02	3.40E+02	1.10E+00		8.01E+01	2.30E+00		4.70E+01	2.30E+00		1.74E+02	1.20E+00		3.65E+01	5.90E+00		6.08E+01	1.10E+00		1.83E+02	1.10E+00	J
Mercury	2.38E+01	5.70E+00	<	1.10E-01	U	<	1.20E-01	U	<	1.10E-01	U	<	1.20E-01	U	<	1.20E-01	U	<	1.10E-01	U	<	1.10E-01	U
Nickel	1.56E+03	1.05E+01	1.05E+01	4.50E+00		6.90E+00	9.20E+00	J	4.90E+00	9.10E+00	J	9.00E+00	4.60E+00		6.50E+00	2.35E+01	J	5.50E+00	4.40E+00		8.10E+00	4.30E+00	
Potassium	1.56E+07	3.23E+03	1.33E+03	5.60E+02		1.33E+03	1.15E+03		1.73E+03	1.14E+03		1.92E+03	5.76E+02		7.35E+02	2.94E+03	J	1.30E+03	5.50E+02		2.03E+03	5.41E+02	
Selenium	3.91E+02	2.50E-01	<	2.20E+00	UJ	<	2.30E+00	UJ	<	1.10E+00	UJ	<	5.80E+00	UJ	<	2.40E+00	UJ	<	2.70E+00	UJ	<	1.10E+00	UJ
Sodium	7.82E+06	5.21E+02	<	5.60E+02	U	<	1.15E+03	U	<	1.14E+03	U	<	5.76E+02	U	<	2.94E+03	UJ	<	5.50E+02	UJ	<	5.41E+02	U
Thallium	7.82E-01	3.80E-01	<	1.10E+00	UJ	<	1.20E+00	UJ	<	2.30E+00	UJ	<	1.20E+00	UJ	<	2.40E+00	UJ	<	1.10E+00	UJ	<	5.40E-01	U
Vanadium	3.94E+02	2.32E+01	1.85E+01	1.10E+00		1.53E+01	2.30E+00		1.29E+01	2.30E+00		1.98E+01	1.20E+00		1.11E+01	5.90E+00		1.17E+01	1.10E+00		1.78E+01	1.10E+00	
Zinc	2.35E+04	4.11E+01	2.52E+01	2.20E+00		1.42E+01	4.60E+00		1.20E+01	4.60E+01		2.54E+01	2.30E+00		9.80E+00	1.18E+01	J	1.00E+01	2.20E+00		3.47E+01	2.20E+00	
TPH (mg/kg)																						
Total Petroleum Hydrocarbons	1.00E+03	1.16E+04	<	4.48E+01	U	<	4.62E+01	U	<	4.55E+01	U	**1.16E+04**	1.15E+03		<	4.70E+01	U	<	4.40E+01	U	1.30E+02	4.33E+01	

Notes:

5.50E-01 = value exceeds NMED residential soil screening levels

-- = no screening level established

[1] = Screening value based on USEPA 2015 regional screening levels

< = not detected

AFB = Air Force Base

J = Estimated value below reporting limit

mg/kg = milligrams per kilogram

NA = not applicable

NMED = New Mexico Environment Department

Qual = Qualification

R = rejected

RFI = RCRA Facility Investigation

RL = Reporting Limit

SSL = soil screening level

TPH = total petroleum hydrocarbons

U = Not detected

UJ = Estimated Nondetect

USEPA = United States Environmental Protection Agency

TABLE 3-2
1994 PHASE II RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-2711-0005 0397370008SA 12/09/94			CAN127-2711-0010 0397370009SA 12/09/94			CAN127-2711-0015 0397370010SA 12/09/94			CAN127-2711-0020 0397370011SA 12/09/94			CAN127-2711-0025 0397370012SA 12/09/94			CAN127-2711-0030 0397370013SA 12/09/94			CAN127-2711-0035 0397740013SA 12/09/94		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (mg/kg)																								
Acetone	6.63E+04	7.50E+00	4.60E-03	1.10E+01	J	5.30E-03	1.10E-02	J	7.00E-03	1.10E-02	J	5.00E-03	1.10E-02	J	8.60E-03	1.10E-02	J	<	1.10E-02	U	1.30E-03	1.10E-02	J
Benzene	1.78E+01	3.80E+00	<	5.30E+00	U	<	5.70E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.60E-03	U
2-Butanone (MEK)	3.74E+04	6.20E-03	<	1.10E+01	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Ethylbenzene	7.51E+01	5.40E+01	<	5.30E+00	U	<	5.70E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.60E-03	U
Methylene chloride	4.09E+02	6.70E-03	<	5.30E+00	U	1.30E-03	5.70E-03	J	<	5.50E-03	U	1.20E-03	5.60E-03	J	<	5.60E-03	U	<	5.60E-03	U	1.60E-03	5.60E-03	UJ
Toluene	5.23E+03	8.20E+01	<	5.30E+00	U	<	5.70E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.60E-03	U
Xylenes (total)	8.71E+02	2.60E+02	<	5.30E+00	U	<	5.70E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.60E-03	U
Semivolatile Organics (mg/kg)																								
Anthracene	1.74E+04	6.80E-02	<	3.50E+02	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Benzo(a)anthracene	1.53E+00	9.10E-01	<	3.50E+02	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Benzo(a)pyrene	1.53E-01	1.10E+00	<	3.50E+02	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Benzo(b)fluoranthene	1.53E+00	1.60E+00	<	3.50E+02	UJ	<	3.70E-01	UJ	<	3.70E-01	UJ	<	3.70E-01	UJ	<	3.70E-01	UJ	<	3.70E-01	UJ	<	3.70E-01	U
Benzo(g,h,i)perylene	--	7.00E-01	<	3.50E+02	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Benzo(k)fluroanthene	1.53E+01	1.60E+00	<	3.50E+02	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Benzoic acid	2.50E+05	4.80E-02	<	1.70E+03	U	<	1.80E+00	U	<	1.80E+00	U	<	1.80E+00	U	<	1.80E+00	U	<	1.80E+00	U	<	1.80E+00	U
bis(2-Ethylehexyl)phthalate	3.80E+02	4.70E+00	<	3.50E+02	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Butyl benzyl phtalate [1]	2.90E+02	9.00E-02	<	3.50E+02	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Carbazole	--	1.70E-01	<	3.50E+02	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Chrysene	1.53E+02	1.50E+00	<	3.50E+02	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Di-n-butyl phthalate	6.16E+03	1.90E-01	<	3.50E+02	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Di-n-octyl phthalate	--	3.10E-01	<	3.50E+02	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Dibenz(a,h)anthracene	1.53E-01	2.80E-01	<	3.50E+02	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Diethyl phthalate	4.93E+04	4.60E-02	<	3.50E+02	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Fluoranthene	2.32E+03	2.80E+00	<	3.50E+02	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Indeno(1,2,3-cd)pyrene	1.53E+00	7.00E-01	<	3.50E+02	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
2-Methylnaphthalene [1]	2.40E+02	4.00E+01	<	3.50E+02	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Naphthalene	4.97E+01	2.10E+01	<	3.50E+02	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Phenanthrene	1.74E+03	1.10E+00	<	3.50E+02	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Pyrene	1.74E+03	2.30E+00	<	3.50E+02	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U

TABLE 3-2
1994 PHASE II RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-2711-0005 0397370008SA 12/09/94			CAN127-2711-0010 0397370009SA 12/09/94			CAN127-2711-0015 0397370010SA 12/09/94			CAN127-2711-0020 0397370011SA 12/09/94			CAN127-2711-0025 0397370012SA 12/09/94			CAN127-2711-0030 0397370013SA 12/09/94			CAN127-2711-0035 0397740013SA 12/09/94		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																								
Aluminum	7.80E+04	1.47E+04	7.00E+03	1.06E+01	J	6.94E+03	2.27E+01	J	1.02E+04	1.11E+01	J	6.39E+03	1.12E+01	J	2.88E+03	2.23E+01	J	7.12E+03	1.13E+01	J	7.04E+03	1.12E+01	
Antimony	3.13E+01	4.60E+00	<	6.30E+00	UJ	<	1.36E+01	UJ	<	6.60E+00	UJ	<	6.70E+00	UJ	<	1.34E+01	UJ	<	6.80E+00	UJ	<	6.70E+00	UJ
Arsenic	4.25E+00	3.00E+00	1.60E+00	5.30E-01		1.50E+00	5.70E-01		2.00E+00	5.50E-01		1.90E+00	5.60E-01		1.70E+00	5.60E-01		1.40E+00	5.60E-01		1.30E+00	5.60E-01	
Barium	1.56E+04	1.54E+03	8.62E+01	1.10E+00	J	2.32E+02	2.30E+00	J	2.41E+02	1.10E+00	J	5.49E+01	1.10E+00	J	1.09E+02	2.20E+00	J	1.44E+02	1.10E+00	J	2.70E+01	1.10E+00	
Beryllium	1.56E+02	7.60E-01	3.00E-01	2.10E-01		4.70E-01	4.50E-01		5.00E-01	2.20E-01		5.80E-01	2.20E-01		2.90E-01	4.50E-01	J	2.10E-01	2.30E-01	J	2.70E-01	2.20E-01	
Cadmium	7.05E+01	7.70E-01	<	5.30E-01	U	<	1.10E+00	U	<	5.50E-01	U	<	5.60E-01	U	<	1.10E+00	U	<	5.60E-01	U	<	5.60E-01	U
Calcium	1.30E+07	2.54E+05	6.33E+04	2.11E+01		1.61E+05	4.53E+01		6.35E+04	2.22E+01		5.74E+04	2.24E+01		1.90E+05	4.46E+01		8.13E+04	2.26E+01		3.07E+04	2.23E+01	
Chromium	9.66E+01	2.14E+01	6.40E+00	1.10E+00		4.70E+00	2.30E+00		7.40E+00	1.10E+00		5.30E+00	1.10E+00		2.70E+00	2.20E+00		5.40E+00	1.10E+00		6.40E+00	1.10E+00	
Cobalt [1]	2.30E+01	8.00E+00	2.10E+00	1.10E+00		2.50E+00	2.30E+00		3.00E+00	1.10E+00		3.30E+00	1.10E+00		<	2.20E+00	U	1.10E+00	1.10E+00		1.30E+00	1.10E+00	
Copper	3.13E+03	4.58E+01	4.50E+00	2.10E+00		2.60E+00	4.50E+00	J	4.80E+00	2.20E+00		4.70E+00	2.20E+00		1.60E+00	4.50E+00	J	1.80E+00	2.30E+00	J	2.10E+00	2.20E+00	J
Iron	5.48E+04	1.15E+04	6.14E+03	1.06E+01	J	5.56E+03	2.27E+01	J	7.64E+03	1.11E+01	J	5.61E+03	1.12E+01	J	2.19E+03	2.23E+01	J	4.59E+03	1.13E+01	J	5.20E+03	1.12E+01	
Lead	4.00E+02	8.39E+01	4.50E+00	5.30E-01		4.10E+00	5.70E-01		6.90E+00	5.50E-01		6.20E+00	5.60E-01		3.00E+00	5.60E-01		3.30E+00	5.60E-01		2.80E+00	5.60E-01	J
Magnesium	3.39E+05	1.50E+04	2.07E+03	2.11E+01		4.69E+03	4.53E+01		4.60E+03	2.22E+01		3.89E+03	2.24E+01		5.44E+03	4.46E+01		6.76E+03	2.26E+01		6.81E+03	2.23E+01	J
Manganese	1.05E+04	3.40E+02	8.39E+01	1.10E+00	J	5.59E+01	2.30E+00	J	1.11E+02	1.10E+00	J	1.11E+02	1.10E+00	J	1.57E+01	2.20E+00	J	3.65E+01	1.10E+00	J	4.07E+01	1.10E+00	
Mercury	2.38E+01	5.70E+00	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	3.30E+00	8.90E+00	J	5.70E+00	4.50E+00		4.60E+00	4.50E+00	
Nickel	1.56E+03	1.05E+01	6.30E+00	4.20E+00		8.50E+00	9.10E+00	J	8.00E+00	4.40E+00		7.20E+00	4.50E+00		3.30E+00	8.90E+00	J	5.70E+00	4.50E+00		4.60E+00	4.50E+00	
Potassium	1.56E+07	3.23E+03	1.31E+03	5.28E+02		1.60E+03	1.13E+03		2.62E+03	5.54E+02		2.04E+03	5.59E+02		8.42E+02	1.12E+03	J	1.25E+03	5.64E+02		1.31E+03	5.58E+02	
Selenium	3.91E+02	2.50E-01	<	1.10E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ
Sodium	7.82E+06	5.21E+02	<	5.28E+02	U	<	1.13E+03	U	2.48E+02	5.54E+02	J	<	5.59E+02	U	<	1.12E+03	U	<	5.64E+02	U	<	5.58E+02	U
Thallium	7.82E-01	3.80E-01	<	5.30E-01	U	<	1.10E+00	UJ	<	1.10E+00	UJ	<	5.60E-01	U	<	1.10E+00	UJ	1.60E-01	5.60E-01	J	<	1.10E+00	UJ
Vanadium	3.94E+02	2.32E+01	1.25E+01	1.10E+00		1.35E+01	2.30E+00		1.54E+01	1.10E+00		1.56E+01	1.10E+00		1.18E+01	2.20E+00		1.71E+01	1.10E+00		2.32E+01	1.10E+00	
Zinc	2.35E+04	4.11E+01	1.51E+01	2.10E+00		1.33E+01	4.50E+00		2.08E+01	2.20E+00		1.37E+01	2.20E+00		5.60E+00	4.50E+00		1.07E+01	2.30E+00		1.08E+01	2.20E+00	
TPH (mg/kg)																								
Total Petroleum Hydrocarbons	1.00E+03	1.16E+04	<	4.22E+01	U	<	4.53E+01	U	<	4.43E+01	U	<	4.47E+01	U	<	4.46E+01	U	<	4.51E+01	U	<	4.47E+01	UJ

Notes:

5.50E-01 = value exceeds NMED residential soil screening levels

-- = no screening level established

[1] = Screening value based on USEPA 2015 regional screening levels

< = not detected

AFB = Air Force Base

J = Estimated value below reporting limit

mg/kg = milligrams per kilogram

NA = not applicable

NMED = New Mexico Environment Department

Qual = Qualification

R = rejected

RFI = RCRA Facility Investigation

RL = Reporting Limit

SSL = soil screening level

TPH = total petroleum hydrocarbons

U = Not detected

UJ = Estimated Nondetect

USEPA = United States Environmental Protection Agency

TABLE 3-2
1994 PHASE II RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-2711-0040 0397740014SA 12/09/94			CAN127-2711-0050 0397740015SA 12/09/94			CAN127-2711-0060 0397740016SA 12/09/94			CAN127-2712-0000 0397130001SA 12/08/94			CAN127-2712-0005 0397130002SA 12/08/94			CAN127-2712-0010 0397130003SA 12/08/94			CAN127-2712-0015 0397130004SA 12/08/94		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (mg/kg)																								
Acetone	6.63E+04	7.50E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.40E-02	1.10E-02		<	1.10E-02	U
Benzene	1.78E+01	3.80E+00	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.50E-03	U
2-Butanone (MEK)	3.74E+04	6.20E-03	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Ethylbenzene	7.51E+01	5.40E+01	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.50E-03	U
Methylene chloride	4.09E+02	6.70E-03	1.20E-03	5.50E-03	UJ	1.50E-03	5.60E-03	UJ	1.60E-03	5.60E-03	UJ	<	6.00E-03	U	<	6.10E-03	U	<	5.70E-03	U	<	5.50E-03	U
Toluene	5.23E+03	8.20E+01	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.50E-03	U
Xylenes (total)	8.71E+02	2.60E+02	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.50E-03	U
Semivolatile Organics (mg/kg)																								
Anthracene	1.74E+04	6.80E-02	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	5.60E-02	3.60E-01	J	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Benzo(a)anthracene	1.53E+00	9.10E-01	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	6.60E-01	3.60E-01		<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Benzo(a)pyrene	1.53E-01	1.10E+00	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	**8.00E-01**	3.60E-01		<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Benzo(b)fluoranthene	1.53E+00	1.60E+00	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	**1.60E+00**	3.60E-01		<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Benzo(g,h,i)perylene	--	7.00E-01	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	6.40E-01	3.60E-01		<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Benzo(k)fluroanthene	1.53E+01	1.60E+00	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Benzoic acid	2.50E+05	4.80E-02	<	1.80E+00	U	<	1.80E+00	U	<	1.80E+00	U	<	1.80E+00	U	<	1.80E+00	U	<	1.70E+00	U	<	1.80E+00	U
bis(2-Ethylehexyl)phthalate	3.80E+02	4.70E+00	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	6.80E-02	3.60E-01	J	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Butyl benzyl phtalate [1]	2.90E+02	9.00E-02	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Carbazole	--	1.70E-01	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	1.20E-01	3.60E-01	J	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Chrysene	1.53E+02	1.50E+00	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	1.00E+00	3.60E-01		<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Di-n-butyl phthalate	6.16E+03	1.90E-01	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Di-n-octyl phthalate	--	3.10E-01	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Dibenz(a,h)anthracene	1.53E-01	2.80E-01	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	1.20E-01	3.60E-01	J	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Diethyl phthalate	4.93E+04	4.60E-02	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Fluoranthene	2.32E+03	2.80E+00	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	1.80E+00	3.60E-01		<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Indeno(1,2,3-cd)pyrene	1.53E+00	7.00E-01	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	5.70E-01	3.60E-01		<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
2-Methylnaphthalene [1]	2.40E+02	4.00E+01	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Naphthalene	4.97E+01	2.10E+01	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Phenanthrene	1.74E+03	1.10E+00	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	8.80E-01	3.60E-01		<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Pyrene	1.74E+03	2.30E+00	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	1.90E+00	3.60E-01		<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U

TABLE 3-2
1994 PHASE II RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-2711-0040 0397740014SA 12/09/94			CAN127-2711-0050 0397740015SA 12/09/94			CAN127-2711-0060 0397740016SA 12/09/94			CAN127-2712-0000 0397130001SA 12/08/94			CAN127-2712-0005 0397130002SA 12/08/94			CAN127-2712-0010 0397130003SA 12/08/94			CAN127-2712-0015 0397130004SA 12/08/94		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																						
Aluminum	7.80E+04	1.47E+04	5.41E+03	1.09E+01		4.77E+03	1.11E+01		3.59E+03	1.11E+01		1.18E+04	1.10E+01	J	6.97E+03	2.21E+01	J	4.56E+03	1.09E+01	J	4.27E+03	1.10E+01	J
Antimony	3.13E+01	4.60E+00	<	6.60E+00	U	<	6.70E+00	UJ	<	6.70E+00	UJ	<	6.60E+00	UJ	<	1.33E+01	UJ	<	6.50E+00	UJ	<	6.60E+00	UJ
Arsenic	4.25E+00	3.00E+00	2.20E+00	5.50E-01		1.60E+00	5.60E-01		1.80E+00	5.60E-01		2.40E+00	5.50E-01		2.30E+00	5.50E-01		1.50E+00	5.40E-01		1.70E+00	5.50E-01	
Barium	1.56E+04	1.54E+03	2.25E+01	1.10E+00		4.27E+01	1.10E+00		2.45E+01	1.10E+00		1.08E+02	1.10E+00		1.97E+02	2.20E+00		1.69E+02	1.10E+00		3.60E+02	1.10E+00	
Beryllium	1.56E+02	7.60E-01	2.70E-01	2.20E-01		2.40E-01	2.20E-01		1.90E-01	2.20E-01	J	4.30E-01	2.20E-01		5.70E-01	4.40E-01		2.70E-01	2.20E-01		2.90E-01	2.20E-01	
Cadmium	7.05E+01	7.70E-01	<	5.50E-01	U	<	5.60E-01	U	<	5.60E-01	U	<	5.50E-01	U	<	1.10E+00	U	<	5.40E+00	U	<	5.50E-01	U
Calcium	1.30E+07	2.54E+05	3.04E+04	2.19E+01		6.44E+04	2.23E+01		3.24E+04	2.22E+01		1.22E+04	2.19E+01	J	1.73E+05	4.43E+01	J	9.62E+04	2.17E+01	J	8.05E+04	2.20E+01	J
Chromium	9.66E+01	2.14E+01	4.50E+00	1.10E+00		5.50E+00	1.10E+00		3.20E+00	1.10E+00		2.14E+01	1.10E+00	J	6.00E+00	2.20E+00	J	3.80E+00	1.10E+00	J	4.00E+00	1.10E+00	J
Cobalt [1]	2.30E+01	8.00E+00	1.70E+00	1.10E+00		2.30E+00	1.10E+00		1.40E+00	1.10E+00		3.70E+00	1.10E+00		3.40E+00	2.20E+00		2.10E+00	1.10E+00		2.40E+00	1.10E+00	
Copper	3.13E+03	4.58E+01	2.10E+00	2.20E+00	J	2.20E+00	2.20E+00		2.10E+00	2.20E+00	J	7.40E+00	2.20E+00		5.70E+00	4.40E+00		2.50E+00	2.20E+00		2.10E+00	2.20E+00	J
Iron	5.48E+04	1.15E+04	4.69E+03	1.09E+01		3.93E+03	1.11E+01		3.45E+03	1.11E+01		9.55E+03	1.10E+01	J	6.38E+03	2.21E+01	J	3.87E+03	1.09E+01	J	3.70E+03	1.10E+01	J
Lead	4.00E+02	8.39E+01	3.50E+00	5.50E-01	J	2.30E+00	5.60E-01	J	1.90E+00	5.60E-01	J	6.09E+01	5.50E+00	J	6.40E+00	1.10E+00	J	3.90E+00	5.40E-01	J	4.20E+00	5.50E-01	J
Magnesium	3.39E+05	1.50E+04	3.67E+03	2.19E+01		5.35E+03	2.23E+01	J	3.52E+03	2.22E+01	J	1.88E+03	2.19E+01		3.29E+03	4.43E+01		2.64E+03	2.17E+01		2.69E+03	2.20E+01	
Manganese	1.05E+04	3.40E+02	5.09E+01	1.10E+00		4.63E+01	1.10E+00		3.58E+01	1.10E+00		1.67E+02	1.10E+00	J	9.92E+01	2.20E+00	J	6.29E+01	1.10E+00	J	6.58E+01	1.10E+00	J
Mercury	2.38E+01	5.70E+00	4.00E+00	4.40E+00	J	4.20E+00	4.50E+00	J	2.00E+00	4.40E+00	J	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U
Nickel	1.56E+03	1.05E+01	4.00E+00	4.40E+00	J	4.20E+00	4.50E+00	J	2.00E+00	4.40E+00	J	7.50E+00	4.40E+00		8.80E+00	8.90E+00	J	5.30E+00	4.30E+00		5.30E+00	4.40E+00	
Potassium	1.56E+07	3.23E+03	1.18E+03	5.47E+02		9.36E+02	5.57E+02		6.65E+02	5.56E+02		2.09E+03	5.48E+02		1.41E+03	1.11E+03		1.20E+03	5.43E+02		1.23E+03	5.51E+02	
Selenium	3.91E+02	2.50E-01	<	1.10E+00	UJ	<	1.10E+00	U	<	1.10E+00	U	<	1.10E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ
Sodium	7.82E+06	5.21E+02	<	5.47E+02	U	<	5.57E+02	U	<	5.56E+02	U	<	5.48E+02	U	<	1.11E+03	U	<	5.43E+02	U	<	5.51E+02	U
Thallium	7.82E-01	3.80E-01	<	1.10E+00	UJ	<	5.60E-01	UJ	<	5.60E-01	UJ	1.60E-01	5.50E-01	J	1.20E-01	1.10E+00	J	1.20E-01	1.10E+00	J	1.10E-01	1.10E+00	J
Vanadium	3.94E+02	2.32E+01	1.70E+01	1.10E+00		1.98E+01	1.10E+00		1.51E+01	1.10E+00		1.75E+01	1.10E+00	J	1.70E+01	2.20E+00	J	1.25E+01	1.10E+00	J	1.09E+01	1.10E+00	J
Zinc	2.35E+04	4.11E+01	1.06E+01	2.20E+00		8.80E+00	2.20E+00		7.80E+00	2.20E+00		4.11E+01	2.20E+00		1.83E+01	4.40E+00		9.60E+00	2.20E+00		9.90E+00	2.20E+00	
TPH (mg/kg)																						
Total Petroleum Hydrocarbons	1.00E+03	1.16E+04	<	4.38E+01	UJ	<	4.46E+01	UJ	<	4.44E+01	UJ	1.68E+02	4.39E+01		<	4.43E+01	U	<	4.34E+01	U	4.80E+01	4.41E+01	

Notes:

5.50E-01 = value exceeds NMED residential soil screening levels

-- = no screening level established

[1] = Screening value based on USEPA 2015 regional screening levels

< = not detected

AFB = Air Force Base

J = Estimated value below reporting limit

mg/kg = milligrams per kilogram

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RFI = RCRA Facility Investigation

RL = Reporting Limit

SSL = soil screening level

TPH = total petroleum hydrocarbons

U = Not detected

UJ = Estimated Nondetect

USEPA = United States Environmental Protection Agency

TABLE 3-2
1994 PHASE II RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-2712-0020 0397130005SA 12/08/94			CAN127-2712-0025 0397130006SA 12/08/94			CAN127-2712-0030 0397130007SA 12/08/94			CAN127-2712-0035 0397130008SA 12/08/94			CAN127-2712-0040 0397130009SA 12/08/94			CAN127-2712-0050 0397130010SA 12/08/94			CAN127-2712-0060 0397130011SA 12/08/94		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (mg/kg)																								
Acetone	6.63E+04	7.50E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzene	1.78E+01	3.80E+00	<	5.60E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.80E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.60E-03	U
2-Butanone (MEK)	3.74E+04	6.20E-03	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Ethylbenzene	7.51E+01	5.40E+01	<	5.60E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.80E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.60E-03	U
Methylene chloride	4.09E+02	6.70E-03	<	6.90E-03	U	<	6.00E-03	U	<	6.70E-03	U	<	5.80E-03	U	<	6.00E-03	U	<	6.00E-03	U	<	5.60E-03	U
Toluene	5.23E+03	8.20E+01	<	5.60E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.80E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.60E-03	U
Xylenes (total)	8.71E+02	2.60E+02	<	5.60E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.80E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.60E-03	U
Semivolatile Organics (mg/kg)																								
Anthracene	1.74E+04	6.80E-02	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Benzo(a)anthracene	1.53E+00	9.10E-01	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Benzo(a)pyrene	1.53E-01	1.10E+00	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Benzo(b)fluoranthene	1.53E+00	1.60E+00	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Benzo(g,h,i)perylene	--	7.00E-01	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Benzo(k)fluroanthene	1.53E+01	1.60E+00	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Benzoic acid	2.50E+05	4.80E-02	<	1.80E+00	U	<	1.80E+00	U	<	1.80E+00	U	<	1.80E+00	U	<	1.80E+00	U	<	1.80E+00	U	<	1.80E+00	U
bis(2-Ethylehexyl)phthalate	3.80E+02	4.70E+00	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Butyl benzyl phtalate [1]	2.90E+02	9.00E-02	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Carbazole	--	1.70E-01	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Chrysene	1.53E+02	1.50E+00	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Di-n-butyl phthalate	6.16E+03	1.90E-01	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Di-n-octyl phthalate	--	3.10E-01	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Dibenz(a,h)anthracene	1.53E-01	2.80E-01	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Diethyl phthalate	4.93E+04	4.60E-02	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Fluoranthene	2.32E+03	2.80E+00	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Indeno(1,2,3-cd)pyrene	1.53E+00	7.00E-01	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
2-Methylnaphthalene [1]	2.40E+02	4.00E+01	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Naphthalene	4.97E+01	2.10E+01	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Phenanthrene	1.74E+03	1.10E+00	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U
Pyrene	1.74E+03	2.30E+00	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U

TABLE 3-2
1994 PHASE II RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-2712-0020 0397130005SA 12/08/94			CAN127-2712-0025 0397130006SA 12/08/94			CAN127-2712-0030 0397130007SA 12/08/94			CAN127-2712-0035 0397130008SA 12/08/94			CAN127-2712-0040 0397130009SA 12/08/94			CAN127-2712-0050 0397130010SA 12/08/94			CAN127-2712-0060 0397130011SA 12/08/94		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																								
Aluminum	7.80E+04	1.47E+04	9.52E+03	2.26E+01	J	6.10E+03	1.11E+01	J	6.87E+03	1.13E+01	J	5.21E+03	1.15E+01	J	5.33E+03	1.11E+01	J	5.48E+03	1.13E+01	J	4.60E+03	1.12E+01	J
Antimony	3.13E+01	4.60E+00	<	1.35E+01	UJ	<	6.70E+00	UJ	<	6.80E+00	UJ	<	6.90E+00	J	<	6.70E+00	UJ	<	6.80E+00	UJ	<	6.70E+00	UJ
Arsenic	4.25E+00	3.00E+00	1.80E+00	5.60E-01		2.00E+00	5.60E-01		1.80E+00	5.60E-01		1.30E+00	5.80E-01		1.10E+00	5.60E-01		1.40E+00	5.60E-01		1.80E+00	5.60E-01	
Barium	1.56E+04	1.54E+03	3.37E+02	2.30E+00		1.08E+02	1.10E+00		9.14E+01	1.10E+00		2.86E+01	1.20E+00		2.40E+01	1.10E+00		5.99E+01	1.10E+00		2.84E+01	1.10E+00	
Beryllium	1.56E+02	7.60E-01	6.40E-01	4.50E-01		2.10E-01	2.20E-01	J	3.20E-01	2.30E-01		1.50E-01	2.30E-01	J	1.70E-01	2.20E-01	J	1.90E-01	2.30E-01	J	1.50E-01	2.20E-01	J
Cadmium	7.05E+01	7.70E-01	<	1.10E+00	U	<	5.60E-01	U	<	5.60E-01	U	<	5.80E-01	U	<	5.60E-01	U	<	5.60E-01	U	<	5.60E-01	U
Calcium	1.30E+07	2.54E+05	1.95E+05	4.51E+01	J	8.84E+04	2.22E+01	J	6.60E+04	2.26E+01	J	6.67E+04	2.30E+01	J	3.55E+04	2.22E+01	J	5.11E+04	2.25E+01	J	2.69E+04	2.23E+01	J
Chromium	9.66E+01	2.14E+01	7.00E+00	2.30E+00	J	4.80E+00	1.10E+00	J	5.40E+00	1.10E+00	J	4.20E+00	1.20E+00	J	5.80E+00	1.10E+00	J	6.10E+00	1.10E+00	J	5.20E+00	1.10E+00	J
Cobalt [1]	2.30E+01	8.00E+00	<	2.30E+00	U	2.00E+00	1.10E+00		2.20E+00	1.10E+00		1.50E+00	1.20E+00		1.50E+00	1.10E+00		2.70E+00	1.10E+00		1.20E+00	1.10E+00	
Copper	3.13E+03	4.58E+01	3.90E+00	4.50E+00	J	2.80E+00	2.20E+00		2.70E+00	2.30E+00		1.80E+00	2.30E+00	J	3.60E+00	2.20E+00		2.70E+00	2.30E+00		2.30E+00	2.20E+00	
Iron	5.48E+04	1.15E+04	6.72E+03	2.26E+01	J	4.35E+03	1.11E+01	J	5.08E+03	1.13E+01	J	3.52E+03	1.15E+01	J	3.69E+03	1.11E+01	J	4.05E+03	1.13E+01	J	3.70E+03	1.12E+01	J
Lead	4.00E+02	8.39E+01	3.80E+00	5.60E-01	J	3.80E+00	5.60E-01	J	3.30E+00	5.60E-01	J	2.30E+00	5.80E-01	J	1.90E+00	5.60E-01	J	2.50E+00	5.60E-01	J	2.00E+00	2.80E+00	J
Magnesium	3.39E+05	1.50E+04	7.85E+03	4.51E+01		6.09E+03	2.22E+01		5.90E+03	2.26E+01		6.92E+03	2.30E+01		9.07E+03	2.22E+01		1.50E+04	2.25E+01		1.00E+04	2.23E+01	
Manganese	1.05E+04	3.40E+02	6.15E+01	2.30E+00	J	5.65E+01	1.10E+00	J	5.78E+01	1.10E+00	J	3.42E+01	1.20E+00	J	4.84E+01	1.10E+00	J	8.08E+01	1.10E+00	J	3.71E+01	1.10E+00	J
Mercury	2.38E+01	5.70E+00	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.20E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U
Nickel	1.56E+03	1.05E+01	4.80E+00	9.00E+00	J	5.70E+00	4.40E+00		5.90E+00	4.50E+00		3.90E+00	4.60E+00	J	4.50E+00	4.40E+00		4.30E+00	4.50E+00	J	3.80E+00	4.50E+00	J
Potassium	1.56E+07	3.23E+03	2.47E+03	1.13E+03		1.64E+03	5.56E+02		1.63E+03	5.65E+02		1.04E+03	5.76E+02		1.04E+03	5.55E+02		1.07E+03	5.63E+02		9.36E+02	5.58E+02	
Selenium	3.91E+02	2.50E-01	<	1.10E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ
Sodium	7.82E+06	5.21E+02	<	1.13E+03	U	<	5.56E+02	U	<	5.65E+02	U	<	5.76E+02	U	<	5.55E+02	U	<	5.63E+02	U	<	5.58E+02	U
Thallium	7.82E-01	3.80E-01	1.10E-01	1.10E+00	J	<	5.60E-01	U	<	5.60E-01	U	1.20E-01	5.80E-01	J	<	5.60E-01	U	<	5.60E-01	U	<	5.60E-01	U
Vanadium	3.94E+02	2.32E+01	1.57E+01	2.30E+00	J	1.33E+01	1.10E+00	J	2.05E+01	1.10E+00	J	1.61E+01	1.20E+00	J	1.86E+01	1.10E+00	J	2.15E+01	1.10E+00	J	1.60E+01	1.10E+00	J
Zinc	2.35E+04	4.11E+01	1.64E+01	4.50E+00		1.05E+01	2.20E+00		1.20E+01	2.30E+00		8.10E+00	2.30E+00		9.80E+00	2.20E+00		9.50E+00	2.30E+00		1.40E+01	2.20E+00	
TPH (mg/kg)																								
Total Petroleum Hydrocarbons	1.00E+03	1.16E+04	2.93E+02	4.51E+01		<	4.45E+01	U	<	4.52E+01	U	<	4.60E+01	U	6.74E+01	4.44E+01		<	4.51E+01	U	<	4.46E+01	U

Notes:

5.50E-01 = value exceeds NMED residential soil screening levels

-- = no screening level established

[1] = Screening value based on USEPA 2015 regional screening levels

< = not detected

AFB = Air Force Base

J = Estimated value below reporting limit

mg/kg = milligrams per kilogram

NA = not applicable

NMED = New Mexico Environment Department

Qual = Qualification

R = rejected

RFI = RCRA Facility Investigation

RL = Reporting Limit

SSL = soil screening level

TPH = total petroleum hydrocarbons

U = Not detected

UJ = Estimated Nondetect

USEPA = United States Environmental Protection Agency

TABLE 3-2
1994 PHASE II RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-2713-0000 0397380001SA 12/09/94			CAN127-2713-0000 0397380013SA 12/09/94			CAN127-2713-0005 0397380002SA 12/09/94			CAN127-2713-0010 0397380003RA 12/09/94			CAN127-2713-0010 0397380003SA 12/09/94			CAN127-2713-0015 0397380004RA 12/09/94			CAN127-2713-0015 0397380004SA 12/09/94		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (mg/kg)																								
Acetone	6.63E+04	7.50E+00	<	1.10E-02	U	NA			<	1.10E-02	U	NA			<	1.10E-02	U	NA			<	1.10E-02	U
Benzene	1.78E+01	3.80E+00	<	5.50E-03	U	NA			<	5.50E-03	U	NA			<	5.60E-03	U	NA			<	5.70E-03	U
2-Butanone (MEK)	3.74E+04	6.20E-03	<	1.10E-02	U	NA			<	1.10E-02	U	NA			<	1.10E-02	U	NA			<	1.10E-02	U
Ethylbenzene	7.51E+01	5.40E+01	<	5.50E-03	U	NA			<	5.50E-03	U	NA			<	5.60E-03	U	NA			<	5.70E-03	U
Methylene chloride	4.09E+02	6.70E-03	6.70E-03	6.70E-03		NA			<	6.50E-03	U	NA			<	7.00E-03	U	NA			<	6.30E-03	U
Toluene	5.23E+03	8.20E+01	1.30E-03	5.50E-03	J	NA			<	5.50E-03	U	NA			1.20E-03	5.60E-03	J	NA			<	5.70E-03	U
Xylenes (total)	8.71E+02	2.60E+02	<	5.50E-03	U	NA			<	5.50E-03	U	NA			<	5.60E-03	U	NA			<	5.70E-03	U
Semivolatile Organics (mg/kg)																								
Anthracene	1.74E+04	6.80E-02	<	3.60E-01	U	<	3.60E-01	UJ	<	3.60E-01	UJ	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ	<	3.80E-01	U
Benzo(a)anthracene	1.53E+00	9.10E-01	9.50E-02	3.60E-01	J	8.90E-02	3.60E-01	J	9.10E-02	3.60E-01	J	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ	<	3.80E-01	U
Benzo(a)pyrene	1.53E-01	1.10E+00	1.30E-01	3.60E-01	J	1.10E-01	3.60E-01	J	1.00E-01	3.60E-01	J	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ	<	3.80E-01	U
Benzo(b)fluoranthene	1.53E+00	1.60E+00	3.10E-01	3.60E-01	J	2.30E-01	3.60E-01	J	2.50E-01	3.60E-01	J	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ	<	3.80E-01	U
Benzo(g,h,i)perylene	--	7.00E-01	1.00E-01	3.60E-01	J	<	3.60E-01	UJ	<	3.60E-01	UJ	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ	<	3.80E-01	U
Benzo(k)fluroanthene	1.53E+01	1.60E+00	<	3.60E-01	U	<	3.60E-01	UJ	<	3.60E-01	UJ	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ	<	3.80E-01	U
Benzoic acid	2.50E+05	4.80E-02	<	1.80E+00	U	<	1.80E+00	U	<	1.80E+00	U	<	1.80E+00	U	<	1.80E+00	U	<	1.80E+00	U	<	1.80E+00	U
bis(2-Ethylehexyl)phthalate	3.80E+02	4.70E+00	<	7.80E-01	U	<	3.60E-01	UJ	<	3.60E-01	UJ	<	3.70E-01	UJ	<	4.10E-01	U	<	3.80E-01	UJ	<	3.80E-01	U
Butyl benzyl phtalate [1]	2.90E+02	9.00E-02	<	3.60E-01	U	<	3.60E-01	UJ	<	3.60E-01	UJ	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ	<	3.80E-01	U
Carbazole	--	1.70E-01	<	3.60E-01	U	<	3.60E-01	UJ	<	3.60E-01	UJ	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ	<	3.80E-01	U
Chrysene	1.53E+02	1.50E+00	1.90E-01	3.60E-01	J	1.60E-01	3.60E-01	J	1.50E-01	3.60E-01	J	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ	<	3.80E-01	U
Di-n-butyl phthalate	6.16E+03	1.90E-01	<	3.60E-01	U	<	3.60E-01	UJ	<	3.60E-01	UJ	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ	<	3.80E-01	U
Di-n-octyl phthalate	--	3.10E-01	<	3.60E-01	U	<	3.60E-01	UJ	<	3.60E-01	UJ	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ	<	3.80E-01	U
Dibenz(a,h)anthracene	1.53E-01	2.80E-01	4.30E-02	3.60E-01	J	<	3.60E-01	UJ	<	3.60E-01	UJ	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ	<	3.80E-01	U
Diethyl phthalate	4.93E+04	4.60E-02	<	3.60E-01	U	<	3.60E-01	UJ	<	3.60E-01	UJ	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ	<	3.80E-01	U
Fluoranthene	2.32E+03	2.80E+00	3.10E-01	3.60E-01	J	3.10E-01	3.60E-01	J	3.10E-01	3.60E-01	J	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ	<	3.80E-01	U
Indeno(1,2,3-cd)pyrene	1.53E+00	7.00E-01	8.80E-02	3.60E-01	J	<	3.60E-01	UJ	<	3.60E-01	UJ	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ	<	3.80E-01	U
2-Methylnaphthalene [1]	2.40E+02	4.00E+01	<	3.60E-01	U	<	3.60E-01	UJ	<	3.60E-01	UJ	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ	<	3.80E-01	U
Naphthalene	4.97E+01	2.10E+01	<	3.60E-01	U	<	3.60E-01	UJ	<	3.60E-01	UJ	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ	<	3.80E-01	U
Phenanthrene	1.74E+03	1.10E+00	1.10E-01	3.60E-01	J	1.00E-01	3.60E-01	J	1.00E-01	3.60E-01	J	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ	<	3.80E-01	U
Pyrene	1.74E+03	2.30E+00	2.60E-01	3.60E-01	J	2.60E-01	3.60E-01	J	2.50E-01	3.60E-01	J	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ	<	3.80E-01	U

TABLE 3-2
1994 PHASE II RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-2713-0000 0397380001SA 12/09/94			CAN127-2713-0000 0397380013SA 12/09/94			CAN127-2713-0005 0397380002SA 12/09/94			CAN127-2713-0010 0397380003RA 12/09/94			CAN127-2713-0010 0397380003SA 12/09/94			CAN127-2713-0015 0397380004RA 12/09/94			CAN127-2713-0015 0397380004SA 12/09/94		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																								
Aluminum	7.80E+04	1.47E+04	1.45E+04	1.10E+01	J	NA			1.17E+04	1.09E+01	J	NA			6.93E+03	2.24E+01	J	NA			4.60E+03	2.28E+01	J
Antimony	3.13E+01	4.60E+00	<	6.60E+00	UJ	NA			<	6.60E+00	UJ	NA			<	6.60E+00	UJ	NA			<	1.44E+02	UJ
Arsenic	4.25E+00	3.00E+00	2.60E+00	5.50E-01		NA			2.60E+00	5.50E-01		NA			2.50E+00	5.60E-01		NA			1.80E+00	5.70E-01	
Barium	1.56E+04	1.54E+03	1.70E+02	1.10E+00	J	NA			1.76E+02	1.10E+00	J	NA			2.53E+02	2.20E+00	J	NA			4.04E+02	2.30E+00	J
Beryllium	1.56E+02	7.60E-01	7.10E-01	2.20E-01	J	NA			7.60E-01	2.20E-01	J	NA			<	4.50E-01	UJ	NA			3.90E-01	4.60E-01	J
Cadmium	7.05E+01	7.70E-01	<	5.50E-01	U	NA			<	5.50E-01	U	NA			<	1.10E+00	U	NA			<	1.10E+00	U
Calcium	1.30E+07	2.54E+05	4.14E+04	2.19E+01	J	NA			4.01E+04	2.19E+01	J	NA			1.35E+05	4.48E+01	J	NA			2.18E+05	4.56E+01	J
Chromium	9.66E+01	2.14E+01	1.29E+01	1.10E+00	J	NA			1.16E+01	1.10E+00	J	NA			1.17E+01	2.20E+00	J	NA			3.20E+00	2.30E+00	J
Cobalt [1]	2.30E+01	8.00E+00	4.60E+00	1.10E+00	J	NA			4.70E+00	1.10E+00	J	NA			3.00E+00	2.20E+00	J	NA			2.10E+00	2.30E+00	J
Copper	3.13E+03	4.58E+01	8.50E+00	2.20E+00	J	NA			8.60E+00	2.20E+00	J	NA			5.60E+00	4.50E+00	J	NA			2.30E+00	4.60E+00	J
Iron	5.48E+04	1.15E+04	1.15E+04	1.10E+01	J	NA			1.09E+04	1.09E+01	J	NA			6.41E+03	2.24E+01	J	NA			3.72E+03	2.28E+01	J
Lead	4.00E+02	8.39E+01	1.34E+01	2.70E+00	J	NA			1.25E+01	2.70E+00	J	NA			4.90E+00	5.60E-01	J	NA			3.80E+00	5.70E-01	J
Magnesium	3.39E+05	1.50E+04	2.76E+03	2.19E+01		NA			2.56E+03	2.19E+01		NA			2.96E+03	4.48E+01		NA			4.30E+03	4.56E+01	
Manganese	1.05E+04	3.40E+02	1.87E+02	1.10E+00	J	NA			2.00E+02	1.10E+00	J	NA			8.46E+01	2.20E+00	J	NA			4.65E+01	2.30E+00	J
Mercury	2.38E+01	5.70E+00	<	1.10E-01	U	NA			<	1.10E-01	U	NA			<	1.10E-01	U	NA			<	1.10E-01	U
Nickel	1.56E+03	1.05E+01	1.04E+01	4.40E+00		NA			9.40E+00	4.40E+00		NA			7.00E+00	9.00E+00	J	NA			6.50E+00	9.10E+00	J
Potassium	1.56E+07	3.23E+03	2.39E+03	5.48E+02	J	NA			2.08E+03	5.47E+02	J	NA			1.36E+03	1.12E+03	J	NA			1.23E+03	1.14E+03	J
Selenium	3.91E+02	2.50E-01	<	1.10E+00	UJ	NA			<	1.10E+00	UJ	NA			<	1.10E+00	UJ	NA			<	2.30E+00	UJ
Sodium	7.82E+06	5.21E+02	<	5.48E+02	U	NA			<	5.47E+02	U	NA			<	1.12E+03	U	NA			<	1.14E+03	U
Thallium	7.82E-01	3.80E-01	1.20E-01	5.50E-01	J	NA			<	5.50E-01	U	NA			<	5.60E-01	U	NA			<	1.10E+00	UJ
Vanadium	3.94E+02	2.32E+01	2.08E+01	1.10E+00		NA			2.20E+01	1.10E+00		NA			1.61E+01	2.20E+00		NA			1.25E+01	2.30E+00	
Zinc	2.35E+04	4.11E+01	3.03E+01	2.20E+00	J	NA			2.64E+01	2.20E+00	J	NA			1.58E+01	4.50E+00	J	NA			1.00E+01	4.60E+00	J
TPH (mg/kg)																								
Total Petroleum Hydrocarbons	1.00E+03	1.16E+04	6.85E+01	4.39E+01					5.23E+01	4.38E+01					<	4.48E+01	U				<	4.56E+01	U

Notes:

5.50E-01 = value exceeds NMED residential soil screening levels

-- = no screening level established

[1] = Screening value based on USEPA 2015 regional screening levels

< = not detected

AFB = Air Force Base

J = Estimated value below reporting limit

mg/kg = milligrams per kilogram

NA = not applicable

NMED = New Mexico Environment Department

Qual = Qualification

R = rejected

RFI = RCRA Facility Investigation

RL = Reporting Limit

SSL = soil screening level

TPH = total petroleum hydrocarbons

U = Not detected

UJ = Estimated Nondetect

USEPA = United States Environmental Protection Agency

TABLE 3-2
1994 PHASE II RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-2713-0020 0397380005RA 12/09/94			CAN127-2713-0020 0397380005SA 12/09/94			CAN127-2713-0025 0397380006RA 12/09/94			CAN127-2713-0025 0397380006SA 12/09/94			CAN127-2713-0030 0397380007RA 12/09/94			CAN127-2713-0030 0397380007SA 12/09/94			CAN127-2713-0035 0397380008RA 12/09/94		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (mg/kg)																						
Acetone	6.63E+04	7.50E+00	NA			<	1.10E-02	U	NA			<	1.20E-02	U	NA			<	1.10E-02	U	NA		
Benzene	1.78E+01	3.80E+00	NA			<	5.50E-03	U	NA			<	5.80E-03	U	NA			<	5.60E-03	U	NA		
2-Butanone (MEK)	3.74E+04	6.20E-03	NA			<	1.10E-02	U	NA			<	1.20E-02	U	NA			<	1.10E-02	U	NA		
Ethylbenzene	7.51E+01	5.40E+01	NA			<	5.50E-03	U	NA			<	5.80E-03	U	NA			<	5.60E-03	U	NA		
Methylene chloride	4.09E+02	6.70E-03	NA			<	5.50E-03	U	NA			<	6.30E-03	U	NA			<	5.70E-03	U	NA		
Toluene	5.23E+03	8.20E+01	NA			<	5.50E-03	U	NA			<	5.80E-03	U	NA			1.60E-03	5.60E-03	J	NA		
Xylenes (total)	8.71E+02	2.60E+02	NA			<	5.50E-03	U	NA			<	5.80E-03	U	NA			<	5.60E-03	U	NA		
Semivolatile Organics (mg/kg)																						
Anthracene	1.74E+04	6.80E-02	<	3.60E-01	UJ	<	3.60E-01	U	<	3.80E-01	UJ	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ
Benzo(a)anthracene	1.53E+00	9.10E-01	<	3.60E-01	UJ	<	3.60E-01	U	<	3.80E-01	UJ	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ
Benzo(a)pyrene	1.53E-01	1.10E+00	<	3.60E-01	UJ	<	3.60E-01	U	<	3.80E-01	UJ	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ
Benzo(b)fluoranthene	1.53E+00	1.60E+00	<	3.60E-01	UJ	<	3.60E-01	U	<	3.80E-01	UJ	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ
Benzo(g,h,i)perylene	--	7.00E-01	<	3.60E-01	UJ	<	3.60E-01	U	<	3.80E-01	UJ	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ
Benzo(k)fluroanthene	1.53E+01	1.60E+00	<	3.60E-01	UJ	<	3.60E-01	U	<	3.80E-01	UJ	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ
Benzoic acid	2.50E+05	4.80E-02	<	1.80E+00	UJ	<	1.80E+00	U	<	1.90E+00	UJ	<	1.90E+00	U	<	1.80E+00	UJ	<	1.80E+00	U	<	1.80E+00	UJ
bis(2-Ethylehexyl)phthalate	3.80E+02	4.70E+00	<	3.60E-01	UJ	<	3.60E-01	U	<	3.80E-01	UJ	<	3.80E-01	U	<	3.70E-01	UJ	<	9.50E-01	U	<	3.80E-01	UJ
Butyl benzyl phtalate [1]	2.90E+02	9.00E-02	<	3.60E-01	UJ	<	3.60E-01	U	<	3.80E-01	UJ	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ
Carbazole	--	1.70E-01	<	3.60E-01	UJ	<	3.60E-01	U	<	3.80E-01	UJ	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ
Chrysene	1.53E+02	1.50E+00	<	3.60E-01	UJ	<	3.60E-01	U	<	3.80E-01	UJ	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ
Di-n-butyl phthalate	6.16E+03	1.90E-01	<	3.60E-01	UJ	<	3.60E-01	U	<	3.80E-01	UJ	<	3.80E-01	U	<	3.70E-01	UJ	7.70E-02	3.70E-01	J	<	3.80E-01	UJ
Di-n-octyl phthalate	--	3.10E-01	<	3.60E-01	UJ	<	3.60E-01	U	<	3.80E-01	UJ	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ
Dibenz(a,h)anthracene	1.53E-01	2.80E-01	<	3.60E-01	UJ	<	3.60E-01	U	<	3.80E-01	UJ	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ
Diethyl phthalate	4.93E+04	4.60E-02	<	3.60E-01	UJ	<	3.60E-01	U	<	3.80E-01	UJ	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ
Fluoranthene	2.32E+03	2.80E+00	<	3.60E-01	UJ	<	3.60E-01	U	<	3.80E-01	UJ	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ
Indeno(1,2,3-cd)pyrene	1.53E+00	7.00E-01	<	3.60E-01	UJ	<	3.60E-01	U	<	3.80E-01	UJ	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ
2-Methylnaphthalene [1]	2.40E+02	4.00E+01	<	3.60E-01	UJ	<	3.60E-01	U	<	3.80E-01	UJ	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ
Naphthalene	4.97E+01	2.10E+01	<	3.60E-01	UJ	<	3.60E-01	U	<	3.80E-01	UJ	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ
Phenanthrene	1.74E+03	1.10E+00	<	3.60E-01	UJ	<	3.60E-01	U	<	3.80E-01	UJ	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ
Pyrene	1.74E+03	2.30E+00	<	3.60E-01	UJ	<	3.60E-01	U	<	3.80E-01	UJ	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.80E-01	UJ

TABLE 3-2
1994 PHASE II RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-2713-0020 0397380005RA 12/09/94			CAN127-2713-0020 0397380005SA 12/09/94			CAN127-2713-0025 0397380006RA 12/09/94			CAN127-2713-0025 0397380006SA 12/09/94			CAN127-2713-0030 0397380007RA 12/09/94			CAN127-2713-0030 0397380007SA 12/09/94			CAN127-2713-0035 0397380008RA 12/09/94		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																						
Aluminum	7.80E+04	1.47E+04	NA			7.19E+03	2.21E+01	J	NA			1.47E+04	2.33E+01	J	NA			8.55E+03	2.24E+01	J	NA		
Antimony	3.13E+01	4.60E+00	NA			<	1.33E+01	UJ	NA			<	1.40E+01	UJ	NA			<	1.34E+01	UJ	NA		
Arsenic	4.25E+00	3.00E+00	NA			1.70E+00	5.50E-01		NA			2.30E+00	5.80E-01		NA			1.90E+00	5.60E-01		NA		
Barium	1.56E+04	1.54E+03	NA			2.38E+02	2.20E+00	J	NA			2.41E+02	2.30E+00	J	NA			2.90E+02	2.20E+00	J	NA		
Beryllium	1.56E+02	7.60E-01	NA			5.60E-01	4.40E-01	J	NA			5.10E-01	4.70E-01	J	NA			5.00E-01	4.50E-01	J	NA		
Cadmium	7.05E+01	7.70E-01	NA			<	1.10E+00	U	NA			<	1.20E+00	U	NA			<	1.10E+00	U	NA		
Calcium	1.30E+07	2.54E+05	NA			1.21E+05	4.42E+01	J	NA			1.80E+05	4.65E+01	J	NA			1.86E+05	4.48E+01	J	NA		
Chromium	9.66E+01	2.14E+01	NA			6.70E+00	2.20E+00	J	NA			7.10E+00	2.30E+00	J	NA			8.80E+00	2.20E+00	J	NA		
Cobalt [1]	2.30E+01	8.00E+00	NA			3.10E+00	2.20E+00	J	NA			2.10E+00	2.30E+00	J	NA			2.20E+00	2.20E+00	J	NA		
Copper	3.13E+03	4.58E+01	NA			4.10E+00	4.40E+00	J	NA			3.50E+00	4.70E+00	J	NA			4.60E+00	4.50E+00	J	NA		
Iron	5.48E+04	1.15E+04	NA			6.34E+03	2.21E+01	J	NA			8.01E+03	2.33E+01	J	NA			5.67E+03	2.24E+01	J	NA		
Lead	4.00E+02	8.39E+01	NA			4.90E+00	5.50E-01	J	NA			4.40E+00	5.80E-01	J	NA			3.00E+00	5.60E-01	J	NA		
Magnesium	3.39E+05	1.50E+04	NA			4.56E+03	4.42E+01		NA			1.26E+04	4.65E+01		NA			6.63E+03	4.48E+01		NA		
Manganese	1.05E+04	3.40E+02	NA			8.92E+01	2.20E+00	J	NA			4.97E+01	2.30E+00	J	NA			3.87E+01	2.20E+00	J	NA		
Mercury	2.38E+01	5.70E+00	NA			<	1.10E-01	U	NA			<	1.20E-01	U	NA			<	1.10E-01	U	NA		
Nickel	1.56E+03	1.05E+01	NA			5.40E+00	8.80E+00	J	NA			9.20E+00	9.30E+00	J	NA			6.90E+00	9.00E+00	J	NA		
Potassium	1.56E+07	3.23E+03	NA			1.99E+03	1.11E+03	J	NA			3.23E+03	1.16E+03	J	NA			1.73E+03	1.12E+03	J	NA		
Selenium	3.91E+02	2.50E-01	NA			<	1.10E+00	UJ	NA			<	2.30E+00	UJ	NA			<	1.10E+00	UJ	NA		
Sodium	7.82E+06	5.21E+02	NA			<	1.11E+03	U	NA			<	1.16E+03	U	NA			5.21E+02	1.12E+03	J	NA		
Thallium	7.82E-01	3.80E-01	NA			<	5.50E-01	U	NA			<	1.20E+00	UJ	NA			<	1.10E+00	UJ	NA		
Vanadium	3.94E+02	2.32E+01	NA			1.63E+01	2.20E+00		NA			2.22E+01	2.30E+00		NA			1.93E+01	2.20E+00		NA		
Zinc	2.35E+04	4.11E+01	NA			1.62E+01	4.40E+00	J	NA			1.94E+01	4.70E+00	J	NA			1.31E+01	4.50E+00	J	NA		
TPH (mg/kg)			NA						NA														
Total Petroleum Hydrocarbons	1.00E+03	1.16E+04	NA			<	4.42E+01	U	NA			<	4.65E+01	U	NA			4.71E+01	4.48E+01		NA		

Notes:

5.50E-01 = value exceeds NMED residential soil screening levels

-- = no screening level established

[1] = Screening value based on USEPA 2015 regional screening levels

< = not detected

AFB = Air Force Base

J = Estimated value below reporting limit

mg/kg = milligrams per kilogram

NA = not applicable

NMED = New Mexico Environment Department

Qual = Qualification

R = rejected

RFI = RCRA Facility Investigation

RL = Reporting Limit

SSL = soil screening level

TPH = total petroleum hydrocarbons

U = Not detected

UJ = Estimated Nondetect

USEPA = United States Environmental Protection Agency

TABLE 3-2
1994 PHASE II RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-2713-0035 0397380008SA 12/09/94			CAN127-2713-0040 0397380009RA 12/09/94			CAN127-2713-0040 0397380009SA 12/09/94			CAN127-2713-0050 0397380010RA 12/09/94			CAN127-2713-0050 0397380010SA 12/09/94			CAN127-2713-0060 0397380011RA 12/09/94			CAN127-2713-0060 0397380011SA 12/09/94		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (mg/kg)																								
Acetone	6.63E+04	7.50E+00	<	1.10E-02	U	NA			5.60E-03	1.10E-02	J	NA			3.10E-03	1.10E-02	J	NA			2.50E-02	1.10E-02		
Benzene	1.78E+01	3.80E+00	<	5.70E-03	U	NA			<	5.60E-03	U	NA			<	5.70E-03	U	NA			<	5.60E-03	U
2-Butanone (MEK)	3.74E+04	6.20E-03	<	1.10E-02	U	NA			<	1.10E-02	U	NA			<	1.10E-02	U	NA			6.20E-03	1.10E-02	J
Ethylbenzene	7.51E+01	5.40E+01	<	5.70E-03	U	NA			<	5.60E-03	U	NA			<	5.70E-03	U	NA			<	5.60E-03	U
Methylene chloride	4.09E+02	6.70E-03	<	5.70E-03	U	NA			<	5.60E-03	U	NA			<	5.70E-03	U	NA			<	5.60E-03	U
Toluene	5.23E+03	8.20E+01	9.00E-03	5.70E-03		NA			<	5.60E-03	U	NA			<	5.70E-03	U	NA			<	5.60E-03	U
Xylenes (total)	8.71E+02	2.60E+02	<	5.70E-03	U	NA			<	5.60E-03	U	NA			<	5.70E-03	U	NA			<	5.60E-03	U
Semivolatile Organics (mg/kg)																								
Anthracene	1.74E+04	6.80E-02	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U
Benzo(a)anthracene	1.53E+00	9.10E-01	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U
Benzo(a)pyrene	1.53E-01	1.10E+00	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U
Benzo(b)fluoranthene	1.53E+00	1.60E+00	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U
Benzo(g,h,i)perylene	--	7.00E-01	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U
Benzo(k)fluroanthene	1.53E+01	1.60E+00	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U
Benzoic acid	2.50E+05	4.80E-02	<	1.80E+00	U	<	1.80E+00	UJ	<	1.80E+00	U	<	1.80E+00	UJ	<	1.80E+00	U	<	1.80E+00	UJ	<	1.80E+00	U
bis(2-Ethylehexyl)phthalate	3.80E+02	4.70E+00	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	6.00E-01	U	<	3.70E-01	UJ	<	5.90E-01	U
Butyl benzyl phtalate [1]	2.90E+02	9.00E-02	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U
Carbazole	--	1.70E-01	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U
Chrysene	1.53E+02	1.50E+00	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U
Di-n-butyl phthalate	6.16E+03	1.90E-01	5.80E-02	3.80E-01	J	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U
Di-n-octyl phthalate	--	3.10E-01	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U
Dibenz(a,h)anthracene	1.53E-01	2.80E-01	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U
Diethyl phthalate	4.93E+04	4.60E-02	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U
Fluoranthene	2.32E+03	2.80E+00	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U
Indeno(1,2,3-cd)pyrene	1.53E+00	7.00E-01	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U
2-Methylnaphthalene [1]	2.40E+02	4.00E+01	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U
Naphthalene	4.97E+01	2.10E+01	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U
Phenanthrene	1.74E+03	1.10E+00	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U
Pyrene	1.74E+03	2.30E+00	<	3.80E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U	<	3.70E-01	UJ	<	3.70E-01	U

TABLE 3-2
1994 PHASE II RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-2713-0035 0397380008SA 12/09/94			CAN127-2713-0040 0397380009RA 12/09/94			CAN127-2713-0040 0397380009SA 12/09/94			CAN127-2713-0050 0397380010RA 12/09/94			CAN127-2713-0050 0397380010SA 12/09/94			CAN127-2713-0060 0397380011RA 12/09/94			CAN127-2713-0060 0397380011SA 12/09/94		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																								
Aluminum	7.80E+04	1.47E+04	7.01E+03	2.30E+01	J	NA			6.71E+03	1.11E+01	J	NA			5.55E+03	1.13E+01	J	NA			5.45E+03	1.11E+01	J
Antimony	3.13E+01	4.60E+00	<	1.38E+01	UJ	NA			<	6.70E+00	UJ	NA			<	6.80E+00	UJ	NA			<	6.70E+00	UJ
Arsenic	4.25E+00	3.00E+00	1.40E+00	5.70E-01		NA			1.40E+00	5.60E-01		NA			1.90E+00	5.70E-01		NA			1.80E+00	5.60E-01	
Barium	1.56E+04	1.54E+03	4.45E+02	2.30E+00	J	NA			6.23E+01	1.10E+00	J	NA			2.38E+01	1.10E+00	J	NA			1.32E+02	1.10E+00	J
Beryllium	1.56E+02	7.60E-01	2.50E-01	4.60E-01	J	NA			3.20E-01	2.20E-01	J	NA			2.90E-01	2.30E-01	J	NA			2.80E-01	2.20E-01	J
Cadmium	7.05E+01	7.70E-01	<	1.10E+00	U	NA			<	5.60E-01	U	NA			<	5.70E-01	U	NA			<	5.60E-01	U
Calcium	1.30E+07	2.54E+05	1.49E+05	4.59E+01	J	NA			3.09E+04	2.22E+01	J	NA			3.98E+04	2.27E+01	J	NA			5.36E+04	2.22E+01	J
Chromium	9.66E+01	2.14E+01	4.40E+00	2.30E+00	J	NA			7.20E+00	1.10E+00	J	NA			6.10E+00	1.10E+00	J	NA			1.34E+01	1.10E+00	J
Cobalt [1]	2.30E+01	8.00E+00	1.20E+00	2.30E+00	J	NA			1.90E+00	1.10E+00	J	NA			1.40E+00	1.10E+00	J	NA			2.20E+00	1.10E+00	J
Copper	3.13E+03	4.58E+01	2.00E+00	4.60E+00	J	NA			2.10E+00	2.20E+00	J	NA			2.70E+00	2.30E+00	J	NA			9.30E+00	2.20E+00	J
Iron	5.48E+04	1.15E+04	4.51E+03	2.30E+01	J	NA			5.29E+03	1.11E+01	J	NA			4.39E+03	1.13E+01	J	NA			6.11E+03	1.11E+01	J
Lead	4.00E+02	8.39E+01	3.00E+00	5.70E-01	J	NA			2.90E+00	5.60E-01	J	NA			3.20E+00	5.70E-01	J	NA			3.10E+00	5.60E-01	J
Magnesium	3.39E+05	1.50E+04	6.52E+03	4.59E+01		NA			4.54E+03	2.22E+01		NA			6.50E+03	2.27E+01		NA			4.91E+03	2.22E+01	
Manganese	1.05E+04	3.40E+02	3.63E+01	2.30E+00	J	NA			4.72E+01	1.10E+00	J	NA			4.82E+01	1.10E+00	J	NA			7.54E+01	1.10E+00	J
Mercury	2.38E+01	5.70E+00	<	1.10E-01	U	NA			<	1.10E-01	U	NA			<	1.10E-01	U	NA			<	1.10E-01	U
Nickel	1.56E+03	1.05E+01	3.70E+00	9.20E+00	J	NA			4.30E+00	4.40E+00	J	NA			4.20E+00	4.50E+00	J	NA			6.10E+00	4.40E+00	
Potassium	1.56E+07	3.23E+03	1.25E+03	1.15E+03	J	NA			1.27E+03	5.56E+02	J	NA			1.11E+03	5.66E+02	J	NA			1.11E+03	5.55E+02	J
Selenium	3.91E+02	2.50E-01	<	1.10E+00	UJ	NA			<	1.10E+00	UJ	NA			<	1.10E+00	UJ	NA			<	1.10E+00	UJ
Sodium	7.82E+06	5.21E+02	<	1.15E+03	U	NA			<	5.56E+02	U	NA			<	5.66E+02	U	NA			<	5.55E+02	U
Thallium	7.82E-01	3.80E-01	<	5.70E-01	U	NA			<	5.60E-01	U	NA			<	5.70E-01	U	NA			<	5.60E-01	U
Vanadium	3.94E+02	2.32E+01	1.80E+01	2.30E+00		NA			1.89E+01	1.10E+00		NA			2.16E+01	1.10E+00		NA			2.02E+01	1.10E+00	
Zinc	2.35E+04	4.11E+01	1.01E+01	4.60E+00	J	NA			1.11E+01	2.20E+00	J	NA			9.90E+00	2.30E+00	J	NA			9.60E+00	2.20E+00	J
TPH (mg/kg)																								
Total Petroleum Hydrocarbons	1.00E+03	1.16E+04	<	4.59E+01	U	NA			<	4.45E+01	U	NA			4.79E+01	4.53E+01		NA			<	4.44E+01	U

Notes:

5.50E-01 = value exceeds NMED residential soil screening levels

-- = no screening level established

[1] = Screening value based on USEPA 2015 regional screening levels

< = not detected

AFB = Air Force Base

J = Estimated value below reporting limit

mg/kg = milligrams per kilogram

NA = not applicable

NMED = New Mexico Environment Department

Qual = Qualification

R = rejected

RFI = RCRA Facility Investigation

RL = Reporting Limit

SSL = soil screening level

TPH = total petroleum hydrocarbons

U = Not detected

UJ = Estimated Nondetect

USEPA = United States Environmental Protection Agency

TABLE 3-2
1994 PHASE II RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-2714-0000 0396880006SA 12/07/94			CAN127-2714-0005 0396880008SA 12/07/94			CAN127-2714-0010 0396880009SA 12/07/94			CAN127-2714-0015 0396880010SA 12/07/94			CAN127-2714-0020 0396880011SA 12/07/94			CAN127-2714-0025 0396880012SA 12/07/94			CAN127-2714-0030 0396880013SA 12/07/94		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (mg/kg)																								
Acetone	6.63E+04	7.50E+00	<		U	<	1.10E+01	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzene	1.78E+01	3.80E+00	<	5.60E-03	U	<	5.40E+00	U	<	5.40E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U
2-Butanone (MEK)	3.74E+04	6.20E-03	<	1.10E-02	U	<	1.10E+01	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.30E-03	1.10E-02	J	<	1.10E-02	U
Ethylbenzene	7.51E+01	5.40E+01	<	5.60E-03	U	<	5.40E+00	U	<	5.40E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U
Methylene chloride	4.09E+02	6.70E-03	<	5.60E-03	U	4.40E-03	5.40E+00		<	8.00E-03	U	4.20E-03	5.40E-03	J	<	5.50E-03	U	<	5.50E-03	J	<	5.50E-03	U
Toluene	5.23E+03	8.20E+01	<	5.60E-03	U	<	5.40E+00	U	<	5.40E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U
Xylenes (total)	8.71E+02	2.60E+02	<	5.60E-03	U	<	5.40E+00	U	<	5.40E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.50E-03	U
Semivolatile Organics (mg/kg)																								
Anthracene	1.74E+04	6.80E-02	5.20E-02	3.70E-01	J	<	3.60E+02	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Benzo(a)anthracene	1.53E+00	9.10E-01	4.50E-01	3.70E-01		9.60E-02	3.60E+02	J	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Benzo(a)pyrene	1.53E-01	1.10E+00	**6.40E-01**	3.70E-01		1.40E-01	3.60E+02	J	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Benzo(b)fluoranthene	1.53E+00	1.60E+00	7.50E-01	3.70E-01		1.50E-01	3.60E+02	J	3.70E-02	3.60E-01	J	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Benzo(g,h,i)perylene	--	7.00E-01	3.40E-01	3.70E-01	J	9.00E-02	3.60E+02	J	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Benzo(k)fluroanthene	1.53E+01	1.60E+00	8.00E-01	3.70E-01		1.70E-01	3.60E+02	J	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Benzoic acid	2.50E+05	4.80E-02	<	1.80E+00	U	<	1.70E+03	U	<	1.70E+00	U	<	1.70E+00	U	<	1.80E+00	U	<	1.80E+00	U	<	1.80E+00	U
bis(2-Ethylehexyl)phthalate	3.80E+02	4.70E+00	4.50E-01	3.70E-01		3.00E-01	3.60E+02	J	2.90E-01	3.60E-01	J	2.90E-01	3.60E-01	J	3.10E-01	3.60E-01	J	5.50E-01	3.60E-01		2.70E-01	3.60E-01	J
Butyl benzyl phtalate [1]	2.90E+02	9.00E-02	<	3.70E-01	U	<	3.60E+02	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Carbazole	--	1.70E-01	1.00E-01	3.70E-01	J	<	3.60E+02	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Chrysene	1.53E+02	1.50E+00	8.20E-01	3.70E-01		1.70E-01	3.60E+02	J	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Di-n-butyl phthalate	6.16E+03	1.90E-01	<	3.70E-01	U	<	3.60E+02	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Di-n-octyl phthalate	--	3.10E-01	<	3.70E-01	U	<	3.60E+02	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Dibenz(a,h)anthracene	1.53E-01	2.80E-01	1.50E-01	3.70E-01	J	4.30E-02	3.60E+02	J	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Diethyl phthalate	4.93E+04	4.60E-02	<	3.70E-01	U	<	3.60E+02	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Fluoranthene	2.32E+03	2.80E+00	1.40E+00	3.70E-01		3.30E-01	3.60E+02	J	5.00E-02	3.60E-01	J	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Indeno(1,2,3-cd)pyrene	1.53E+00	7.00E-01	3.60E-01	3.70E-01	J	9.40E-02	3.60E+02	J	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
2-Methylnaphthalene [1]	2.40E+02	4.00E+01	<	3.70E-01	U	<	3.60E+02	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Naphthalene	4.97E+01	2.10E+01	<	3.70E-01	U	<	3.60E+02	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Phenanthrene	1.74E+03	1.10E+00	5.70E-01	3.70E-01		1.60E-01	3.60E+02	J	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Pyrene	1.74E+03	2.30E+00	1.30E+00	3.70E-01		2.90E-01	3.60E+02	J	4.10E-02	3.60E-01	J	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U

TABLE 3-2
1994 PHASE II RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-2714-0000 0396880006SA 12/07/94			CAN127-2714-0005 0396880008SA 12/07/94			CAN127-2714-0010 0396880009SA 12/07/94			CAN127-2714-0015 0396880010SA 12/07/94			CAN127-2714-0020 0396880011SA 12/07/94			CAN127-2714-0025 0396880012SA 12/07/94			CAN127-2714-0030 0396880013SA 12/07/94		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																								
Aluminum	7.80E+04	1.47E+04	7.05E+03	1.12E+01		9.21E+03	1.09E+01		6.20E+03	2.18E+01		6.23E+03	1.08E+01		7.84E+03	1.10E+01		4.61E+03	2.21E+01		6.23E+03	1.10E+01	
Antimony	3.13E+01	4.60E+00	<	6.70E+00	UJ	<	6.50E+00	UJ	<	1.31E+01	UJ	<	6.50E+00	UJ	4.60E+00	6.60E+00	UJ	<	1.33E+01	UJ	<	6.60E+00	UJ
Arsenic	4.25E+00	3.00E+00	1.90E+00	5.60E-01		2.00E+00	5.40E-01	J	1.30E+00	5.40E-01		1.30E+00	5.40E-01	J	1.40E+00	5.50E-01	J	8.40E-01	5.50E-01	J	1.10E+00	5.50E-01	J
Barium	1.56E+04	1.54E+03	9.24E+01	1.10E+00	J	9.61E+01	1.10E+00	J	1.61E+02	2.20E+00	J	1.15E+02	1.10E+00	J	7.85E+01	1.10E+00	J	1.19E+02	2.20E+00	J	9.22E+01	1.10E+00	J
Beryllium	1.56E+02	7.60E-01	3.90E-01	2.20E-01		5.10E-01	2.20E-01		3.50E-01	4.40E-01	J	3.50E-01	2.20E-01		5.00E-01	2.20E-01		<	4.40E-01	U	2.00E-01	2.20E-01	J
Cadmium	7.05E+01	7.70E-01	<	5.60E-01	U	<	5.40E-01	U	<	1.10E+00	U	<	5.40E-01	U	<	5.50E-01	U	<	1.10E+00	U	<	5.50E-01	U
Calcium	1.30E+07	2.54E+05	1.81E+04	2.24E+01		2.36E+04	2.17E+01		1.35E+05	4.36E+01		5.26E+04	2.16E+01		6.92E+04	2.21E+01		2.06E+05	4.42E+01		1.04E+05	2.21E+01	
Chromium	9.66E+01	2.14E+01	9.20E+00	1.10E+00		1.19E+01	1.10E+00		3.70E+00	2.20E+00		5.50E+00	1.10E+00		6.40E+00	1.10E+00		5.80E+00	2.20E+00		5.20E+00	1.10E+00	
Cobalt [1]	2.30E+01	8.00E+00	2.90E+00	1.10E+00		3.60E+00	1.10E+00		<	2.20E+00	U	2.20E+00	1.10E+00		3.10E+00	1.10E+00		<	2.20E+00	U	1.30E+00	1.10E+00	
Copper	3.13E+03	4.58E+01	6.80E+00	2.20E+00		8.30E+00	2.20E+00		3.70E+00	4.40E+00	J	2.80E+00	2.20E+00		5.00E+00	2.20E+00		8.80E+00	4.40E+00		2.60E+00	2.20E+00	
Iron	5.48E+04	1.15E+04	7.13E+03	1.12E+01		8.55E+03	1.09E+01		4.45E+03	2.18E+01		5.64E+03	1.08E+01		6.51E+03	1.10E+01		4.21E+03	2.21E+01		4.08E+03	1.10E+01	
Lead	4.00E+02	8.39E+01	<		R	<		R	<		R	<		R	<		R	<		R	<		R
Magnesium	3.39E+05	1.50E+04	1.47E+03	2.24E+01		1.95E+03	2.17E+01		2.78E+03	4.36E+01		2.79E+03	2.16E+01		3.84E+03	2.21E+01		5.03E+03	4.42E+01		8.13E+03	2.21E+01	
Manganese	1.05E+04	3.40E+02	1.60E+02	1.10E+00		1.72E+02	1.10E+00		6.17E+01	2.20E+00		9.43E+01	1.10E+00		1.17E+02	1.10E+00		3.08E+01	2.20E+00		3.37E+01	1.10E+00	
Mercury	2.38E+01	5.70E+00	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U
Nickel	1.56E+03	1.05E+01	6.70E+00	4.50E+00		8.60E+00	4.30E+00		4.70E+00	8.70E+00	J	5.70E+00	4.30E+00		7.00E+00	4.40E+00		3.90E+00	8.80E+00	J	4.40E+00	4.40E+00	
Potassium	1.56E+07	3.23E+03	1.79E+03	5.60E+02		1.83E+03	5.43E+02		1.14E+03	1.09E+03		1.63E+03	5.40E+02		2.04E+03	5.52E+02		9.59E+02	1.11E+03	J	1.11E+03	5.52E+02	
Selenium	3.91E+02	2.50E-01	<	1.10E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ
Sodium	7.82E+06	5.21E+02	<	5.60E+02	U	<	5.43E+02	U	<	1.09E+03	U	<	5.40E+02	U	<	5.52E+02	U	<	1.11E+03	U	<	5.52E+02	U
Thallium	7.82E-01	3.80E-01	<	5.60E-01	U	1.10E-01	5.40E-01	J	<	5.40E-01	U	<	5.40E-01	U	<	5.50E-01	U	3.80E-01	5.50E-01	J	2.10E-01	5.50E-01	J
Vanadium	3.94E+02	2.32E+01	1.34E+01	1.10E+00		1.51E+01	1.10E+00		9.40E+00	2.20E+00		1.45E+01	1.10E+00		1.44E+01	1.10E+00		9.30E+00	2.20E+00		1.39E+01	1.10E+00	
Zinc	2.35E+04	4.11E+01	3.15E+01	2.20E+00		2.55E+01	2.20E+00		1.19E+01	4.40E+00		1.35E+01	2.20E+00		1.67E+01	2.20E+00		1.03E+01	4.40E+00		9.90E+00	2.20E+00	
TPH (mg/kg)																								
Total Petroleum Hydrocarbons	1.00E+03	1.16E+04	<	4.48E+01	U	6.94E+01	4.34E+01		<	4.36E+01	U	<	4.32E+01	U	<	4.42E+01	U	<	4.42E+01	U	<	4.42E+01	U

Notes:

5.50E-01 = value exceeds NMED residential soil screening levels

-- = no screening level established

[1] = Screening value based on USEPA 2015 regional screening levels

< = not detected

AFB = Air Force Base

J = Estimated value below reporting limit

mg/kg = milligrams per kilogram

NA = not applicable

NMED = New Mexico Environment Department

Qual = Qualification

R = rejected

RFI = RCRA Facility Investigation

RL = Reporting Limit

SSL = soil screening level

TPH = total petroleum hydrocarbons

U = Not detected

UJ = Estimated Nondetect

USEPA = United States Environmental Protection Agency

TABLE 3-2
1994 PHASE II RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-2714-0035 0396880014SA 12/07/94			CAN127-2714-0040 0396880015SA 12/07/94			CAN127-2714-0050 0396880016SA 12/07/94			CAN127-2714-0060 0396880017SA 12/07/94			CAN127-2715-0000 0396860001SA 12/07/94			CAN127-2715-0005 0396860002SA 12/07/94			CAN127-2715-0010 0396860003SA 12/07/94		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (mg/kg)																								
Acetone	6.63E+04	7.50E+00	<	1.30E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzene	1.78E+01	3.80E+00	<	5.50E-03	U	<	5.40E-03	U	<	5.40E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.30E-03	U	<	5.50E-03	U
2-Butanone (MEK)	3.74E+04	6.20E-03	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Ethylbenzene	7.51E+01	5.40E+01	<	5.50E-03	U	<	5.40E-03	U	<	5.40E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.30E-03	U	<	5.50E-03	U
Methylene chloride	4.09E+02	6.70E-03	<	5.50E-03	U	<	5.40E-03		<	5.40E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.30E-03	U	<	5.50E-03	U
Toluene	5.23E+03	8.20E+01	<	5.50E-03	U	<	5.40E-03	U	<	5.40E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.30E-03	U	<	5.50E-03	U
Xylenes (total)	8.71E+02	2.60E+02	<	5.50E-03	U	<	5.40E-03	U	<	5.40E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.30E-03	U	<	5.50E-03	U
Semivolatile Organics (mg/kg)																								
Anthracene	1.74E+04	6.80E-02	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
Benzo(a)anthracene	1.53E+00	9.10E-01	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U	2.60E-01	3.60E-01	J	<	3.50E-01	U	<	3.60E-01	U
Benzo(a)pyrene	1.53E-01	1.10E+00	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U	**4.00E-01**	3.60E-01		4.30E-02	3.50E-01	J	<	3.60E-01	U
Benzo(b)fluoranthene	1.53E+00	1.60E+00	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U	4.20E-01	3.60E-01		7.40E-02	3.50E-01	J	<	3.60E-01	U
Benzo(g,h,i)perylene	--	7.00E-01	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U	2.70E-01	3.60E-01	J	<	3.50E-01	U	<	3.60E-01	U
Benzo(k)fluroanthene	1.53E+01	1.60E+00	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U	4.70E-01	3.60E-01		<	3.50E-01	U	<	3.60E-01	U
Benzoic acid	2.50E+05	4.80E-02	<	1.80E+00	U	<	1.70E+00	U	<	1.70E+00	U	<	1.70E+00	U	4.80E-02	1.80E+00	J	<	1.70E+00	U	<	1.70E+00	U
bis(2-Ethylehexyl)phthalate	3.80E+02	4.70E+00	7.10E-01	3.60E-01		5.50E-01	3.60E-01		8.30E-01	3.60E-01		6.40E-01	3.50E-01		4.40E-02	3.60E-01	J	<	3.50E-01	U	<	3.60E-01	U
Butyl benzyl phtalate [1]	2.90E+02	9.00E-02	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
Carbazole	--	1.70E-01	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U	4.50E-02	3.60E-01	J	<	3.50E-01	U	<	3.60E-01	U
Chrysene	1.53E+02	1.50E+00	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U	4.60E-02	3.60E-01	J	5.90E-02	3.50E-01	J	<	3.60E-01	U
Di-n-butyl phthalate	6.16E+03	1.90E-01	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
Di-n-octyl phthalate	--	3.10E-01	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U	6.40E-02	3.50E-01	J	<	3.60E-01	U
Dibenz(a,h)anthracene	1.53E-01	2.80E-01	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
Diethyl phthalate	4.93E+04	4.60E-02	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
Fluoranthene	2.32E+03	2.80E+00	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U	8.60E-01	3.60E-01		1.10E-01	3.50E-01	J	<	3.60E-01	U
Indeno(1,2,3-cd)pyrene	1.53E+00	7.00E-01	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U	2.60E-01	3.60E-01	J	<	3.50E-01	U	<	3.60E-01	U
2-Methylnaphthalene [1]	2.40E+02	4.00E+01	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
Naphthalene	4.97E+01	2.10E+01	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
Phenanthrene	1.74E+03	1.10E+00	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U	3.80E-01	3.60E-01		5.30E-02	3.50E-01	J	<	3.60E-01	U
Pyrene	1.74E+03	2.30E+00	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U	7.10E-01	3.60E-01		7.70E-02	3.50E-01	J	<	3.60E-01	U

TABLE 3-2
1994 PHASE II RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-2714-0035 0396880014SA 12/07/94			CAN127-2714-0040 0396880015SA 12/07/94			CAN127-2714-0050 0396880016SA 12/07/94			CAN127-2714-0060 0396880017SA 12/07/94			CAN127-2715-0000 0396860001SA 12/07/94			CAN127-2715-0005 0396860002SA 12/07/94			CAN127-2715-0010 0396860003SA 12/07/94		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																						
Aluminum	7.80E+04	1.47E+04	6.00E+03	1.10E+01		5.46E+03	1.09E+01		4.98E+03	1.09E+01		4.50E+03	1.07E+01		7.73E+03	1.10E+01		7.50E+03	2.12E+01		7.09E+03	1.09E+01	
Antimony	3.13E+01	4.60E+00	<	6.60E+00	UJ	<	6.50E+00	U	<	6.50E+00	UJ	<	6.40E+00	UJ	<	6.60E+00	UJ	<	1.27E+01	UJ	<	6.50E+00	UJ
Arsenic	4.25E+00	3.00E+00	7.70E-01	5.50E-01	J	9.80E-01	5.40E-01	J	9.00E-01	5.40E-01	J	1.30E+00	5.40E-01	J	2.10E+00	5.50E-01	J	1.70E+00	5.30E-01	J	2.20E+00	5.50E-01	J
Barium	1.56E+04	1.54E+03	9.03E+01	1.10E+00	J	2.67E+01	1.10E+00		9.78E+01	1.10E+00	J	2.38E+01	1.10E+00	J	9.30E+01	1.10E+00	J	1.52E+02	2.10E+00	J	1.48E+02	1.10E+00	J
Beryllium	1.56E+02	7.60E-01	1.70E-01	2.20E-01	J	1.60E-01	2.20E-01	J	1.70E-01	2.20E-01	J	1.90E-01	2.10E-01	J	4.40E-01	2.20E-01		3.40E-01	4.20E-01	J	3.80E-01	2.20E-01	
Cadmium	7.05E+01	7.70E-01	<	5.50E-01	U	<	5.40E-01	U	<	5.40E-01	U	<	5.40E-01	U	<	5.50E-01	U	7.70E-01	1.10E+00	J	<	5.50E-01	U
Calcium	1.30E+07	2.54E+05	5.03E+04	2.21E+01		4.93E+04	2.18E+01		3.84E+04	2.18E+01		1.83E+04	2.15E+01		1.78E+04	2.20E+01		1.41E+05	4.25E+01		7.36E+04	2.18E+01	
Chromium	9.66E+01	2.14E+01	7.40E+00	1.10E+00		6.60E+00	1.10E+00		6.30E+00	1.10E+00		4.50E+00	1.10E+00		9.20E+00	1.10E+00	J	6.90E+00	2.10E+00	J	6.40E+00	1.10E+00	J
Cobalt [1]	2.30E+01	8.00E+00	1.00E+00	1.10E+00	J	1.30E+00	1.10E+00		1.60E+00	1.10E+00		2.20E+00	1.10E+00		3.00E+00	1.10E+00		2.10E+00	2.10E+00		2.80E+00	1.10E+00	
Copper	3.13E+03	4.58E+01	7.40E+00	2.20E+00		6.50E+00	2.20E+00		3.30E+00	2.20E+00		1.70E+00	2.10E+00	J	7.10E+00	2.20E+00		5.10E+00	4.20E+00		4.10E+00	2.20E+00	
Iron	5.48E+04	1.15E+04	4.69E+03	1.10E+01		4.50E+03	1.09E+01		4.26E+03	1.09E+01		4.15E+03	1.07E+01		7.84E+03	1.10E+01		6.14E+03	2.12E+01		5.72E+03	1.09E+01	
Lead	4.00E+02	8.39E+01	3.10E+00	1.10E+00	R	<		R	<		R	<		R	3.64E+01	5.50E+00		7.60E+00	5.30E+00		5.10E+00	5.50E-01	
Magnesium	3.39E+05	1.50E+04	7.92E+03	2.21E+01		7.53E+03	2.18E+01		5.31E+03	2.18E+01		3.61E+03	2.15E+01		1.55E+03	2.20E+01	J	2.42E+03	4.25E+01	J	2.94E+03	2.18E+01	J
Manganese	1.05E+04	3.40E+02	3.70E+01	1.10E+00		4.95E+01	1.10E+00		5.05E+01	1.10E+00		5.82E+01	1.10E+00		1.75E+02	1.10E+00		7.76E+01	2.10E+00		8.56E+01	1.10E+00	
Mercury	2.38E+01	5.70E+00	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U
Nickel	1.56E+03	1.05E+01	4.80E+00	4.40E+00		5.10E+00	4.40E+00		3.10E+00	4.40E+00	J	3.30E+00	4.30E+00	J	7.20E+00	4.40E+00		5.60E+00	8.50E+00	J	6.20E+00	4.40E+00	
Potassium	1.56E+07	3.23E+03	1.11E+03	5.52E+02		1.03E+03	5.45E+02		9.49E+02	5.45E+02		9.08E+02	5.37E+02		1.83E+03	5.50E+02		1.31E+03	1.06E+03		1.54E+03	5.46E+02	
Selenium	3.91E+02	2.50E-01	<	1.10E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	U	<	1.10E+00	UJ	2.50E-01	1.10E+00	J	<		R	<		R
Sodium	7.82E+06	5.21E+02	<	5.52E+02	U	<	5.45E+02	U	<	5.45E+02	U	<	5.37E+02	U	<	5.50E+02	U	<	1.06E+03	U	<	5.46E+02	
Thallium	7.82E-01	3.80E-01	1.80E-01	1.10E+00	J	<	5.40E-01	U	<	1.10E+00	J	<	5.40E-01	U	3.00E-01	5.50E-01	J	2.00E-01	5.30E-01	J	1.30E-01	5.50E-01	J
Vanadium	3.94E+02	2.32E+01	1.67E+01	1.10E+00		1.67E+01	1.10E+00		1.89E+01	1.10E+00		1.59E+01	1.10E+00		1.45E+01	1.10E+00		1.37E+01	2.10E+00		1.52E+01	1.10E+00	
Zinc	2.35E+04	4.11E+01	1.06E+01	2.20E+00		1.04E+01	2.20E+00		1.05E+01	2.20E+00		8.90E+00	2.10E+00		3.00E+01	2.20E+00		1.70E+01	4.20E+00		1.48E+01	2.20E+00	
TPH (mg/kg)																						
Total Petroleum Hydrocarbons	1.00E+03	1.16E+04	1.82E+02	4.42E+01		5.09E+01	4.36E+01		8.36E+01	4.36E+01		<	4.30E+01	U	8.08E+01	4.40E+01		<	4.25E+01	U	<	4.36E+01	U

Notes:

5.50E-01 = value exceeds NMED residential soil screening levels

-- = no screening level established

[1] = Screening value based on USEPA 2015 regional screening levels

< = not detected

AFB = Air Force Base

J = Estimated value below reporting limit

mg/kg = milligrams per kilogram

NA = not applicable

NMED = New Mexico Environment Department

Qual = Qualification

R = rejected

RFI = RCRA Facility Investigation

RL = Reporting Limit

SSL = soil screening level

TPH = total petroleum hydrocarbons

U = Not detected

UJ = Estimated Nondetect

USEPA = United States Environmental Protection Agency

TABLE 3-2
1994 PHASE II RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-2715-2762 0396860011SA 12/07/94			CAN127-2715-0015 0396860004SA 12/07/94			CAN127-2715-0020 0396860005SA 12/07/94			CAN127-2715-0025 0396860006SA 12/07/94			CAN127-2715-0030 0396860007SA 12/07/94			CAN127-2715-0035 0396860008SA 12/07/94			CAN127-2715-0040 0396860009SA 12/07/94		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (mg/kg)																								
Acetone	6.63E+04	7.50E+00	<	1.60E-02	U	<	1.90E-02	U	<	1.10E-02	U	9.50E-03	1.10E-02	J	8.50E-03	1.10E-02	J	2.60E-02	1.10E-02		<	1.10E-02	U
Benzene	1.78E+01	3.80E+00	<	5.40E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.50E-03	U
2-Butanone (MEK)	3.74E+04	6.20E-03	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Ethylbenzene	7.51E+01	5.40E+01	<	5.40E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.50E-03	U
Methylene chloride	4.09E+02	6.70E-03	<	5.40E-03	U	4.40E-03	5.50E-03	J	<	5.60E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.50E-03	U
Toluene	5.23E+03	8.20E+01	<	5.40E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.50E-03	U
Xylenes (total)	8.71E+02	2.60E+02	<	5.40E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	5.50E-03	U	<	5.50E-03	U
Semivolatile Organics (mg/kg)																								
Anthracene	1.74E+04	6.80E-02	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Benzo(a)anthracene	1.53E+00	9.10E-01	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Benzo(a)pyrene	1.53E-01	1.10E+00	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Benzo(b)fluoranthene	1.53E+00	1.60E+00	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Benzo(g,h,i)perylene	--	7.00E-01	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Benzo(k)fluroanthene	1.53E+01	1.60E+00	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Benzoic acid	2.50E+05	4.80E-02	<	1.70E+00	U	<	1.80E+00	U	<	1.80E+00	U	<	1.80E+00	U	<	1.80E+00	U	<	1.70E+00	U	<	1.70E+00	U
bis(2-Ethylehexyl)phthalate	3.80E+02	4.70E+00	4.40E-02	3.60E-01	J	<	3.60E-01	U	<	3.70E-01	U	1.70E-01	3.70E-01	J	4.00E-02	3.70E-01	J	<	3.60E-01	U	1.90E-01	3.60E-01	J
Butyl benzyl phtalate [1]	2.90E+02	9.00E-02	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Carbazole	--	1.70E-01	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Chrysene	1.53E+02	1.50E+00	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Di-n-butyl phthalate	6.16E+03	1.90E-01	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Di-n-octyl phthalate	--	3.10E-01	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Dibenz(a,h)anthracene	1.53E-01	2.80E-01	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Diethyl phthalate	4.93E+04	4.60E-02	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Fluoranthene	2.32E+03	2.80E+00	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Indeno(1,2,3-cd)pyrene	1.53E+00	7.00E-01	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
2-Methylnaphthalene [1]	2.40E+02	4.00E+01	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Naphthalene	4.97E+01	2.10E+01	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Phenanthrene	1.74E+03	1.10E+00	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Pyrene	1.74E+03	2.30E+00	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U

TABLE 3-2
1994 PHASE II RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-2715-2762 0396860011SA 12/07/94			CAN127-2715-0015 0396860004SA 12/07/94			CAN127-2715-0020 0396860005SA 12/07/94			CAN127-2715-0025 0396860006SA 12/07/94			CAN127-2715-0030 0396860007SA 12/07/94			CAN127-2715-0035 0396860008SA 12/07/94			CAN127-2715-0040 0396860009SA 12/07/94		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																						
Aluminum	7.80E+04	1.47E+04	5.76E+03	1.08E+01		5.90E+03	1.10E+01		9.53E+03	1.12E+01		5.64E+03	2.22E+01		5.63E+03	1.12E+01		5.48E+03	1.09E+01		5.24E+03	1.09E+01	
Antimony	3.13E+01	4.60E+00	<	6.50E+00	UJ	<	6.60E+00	UJ	<	6.70E+00	UJ	<	1.33E+01	UJ	<	6.70E+00	UJ	<	6.50E+00	UJ	<	6.50E+00	UJ
Arsenic	4.25E+00	3.00E+00	1.60E+00	5.40E-01	J	1.20E+00	5.50E-01	J	2.40E+00	5.60E-01	J	1.40E+00	5.60E-01	J	1.10E+00	1.10E+00	J	1.00E+00	1.10E+00	J	1.20E+00	5.50E-01	J
Barium	1.56E+04	1.54E+03	1.62E+02	1.10E+00	J	1.46E+02	1.10E+00	J	1.46E+02	1.10E+00	J	8.86E+01	2.20E+00	J	2.65E+02	1.10E+00	J	2.46E+01	1.10E+00	J	3.38E+01	1.10E+00	J
Beryllium	1.56E+02	7.60E-01	3.00E-01	2.20E-01		3.40E-01	2.20E-01		6.50E-01	2.20E-01		2.40E-01	4.40E-01	J	2.10E-01	2.20E-01	J	2.00E-01	2.20E-01	J	2.30E-01	2.20E-01	
Cadmium	7.05E+01	7.70E-01	<	5.40E-01	U	<	5.50E-01	U	<	5.60E-01	U	<	1.10E+00	U	<	5.60E-01	U	<	5.50E-01	U	<	5.50E-01	U
Calcium	1.30E+07	2.54E+05	7.82E+04	2.16E+01		1.00E+05	2.21E+01		6.99E+04	2.25E+01		1.56E+05	4.44E+01		8.53E+04	2.23E+01		3.05E+04	2.18E+01		4.68E+04	2.18E+01	
Chromium	9.66E+01	2.14E+01	5.00E+00	1.10E+00	J	4.70E+00	1.10E+00	J	6.80E+00	1.10E+00	J	4.30E+00	2.20E+00	J	5.20E+00	1.10E+00	J	5.90E+00	1.10E+00	J	5.20E+00	1.10E+00	J
Cobalt [1]	2.30E+01	8.00E+00	2.40E+00	1.10E+00		1.70E+00	1.10E+00		3.00E+00	1.10E+00		2.10E+00	2.20E+00	J	<	1.10E+00	U	1.20E+00	1.10E+00		1.30E+00	1.10E+00	
Copper	3.13E+03	4.58E+01	3.40E+00	2.20E+00		2.50E+00	2.20E+00		5.50E+00	2.20E+00		2.80E+00	4.40E+00	J	2.10E+00	2.20E+00	J	2.30E+00	2.20E+00		1.90E+00	2.20E+00	J
Iron	5.48E+04	1.15E+04	4.73E+03	1.08E+01		4.80E+03	1.10E+01		7.71E+03	1.12E+01		3.97E+03	2.22E+01		3.79E+03	1.12E+01		4.49E+03	1.09E+01		4.25E+03	1.09E+01	
Lead	4.00E+02	8.39E+01	4.80E+00	5.40E-01		3.90E+00	5.50E-01		6.40E+00	5.60E-01		3.30E+00	5.60E-01		2.10E+00	1.10E+00		2.20E+00	1.10E+00		2.20E+00	5.50E-01	
Magnesium	3.39E+05	1.50E+04	2.58E+03	2.16E+01	J	3.08E+03	2.21E+01	J	4.88E+03	2.25E+01	J	4.12E+03	4.44E+01	J	5.29E+03	2.23E+01	J	4.59E+03	2.18E+01	J	5.38E+03	2.18E+01	J
Manganese	1.05E+04	3.40E+02	7.03E+01	1.10E+00		6.80E+01	1.10E+00		1.39E+02	1.10E+00		3.79E+01	2.20E+00		2.90E+01	1.10E+00		3.85E+01	1.10E+00		5.68E+01	1.10E+00	
Mercury	2.38E+01	5.70E+00	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U
Nickel	1.56E+03	1.05E+01	5.10E+00	4.30E+00		5.50E+00	4.40E+00		8.30E+00	4.50E+00		3.80E+00	8.90E+00	J	3.80E+00	4.50E+00	J	5.10E+00	4.40E+00		3.60E+00	4.40E+00	J
Potassium	1.56E+07	3.23E+03	1.22E+03	5.40E+02		1.46E+03	5.52E+02		2.51E+03	5.61E+02		1.22E+03	1.11E+03		1.00E+03	5.58E+02		1.02E+03	5.45E+02		1.02E+03	5.46E+02	
Selenium	3.91E+02	2.50E-01	<		R	<		R	1.60E-01	1.10E+00	J	<		R	<		R	<		R	<		R
Sodium	7.82E+06	5.21E+02	<	5.40E+02	U	<	5.52E+02	U	<	5.61E+02	U	<	1.11E+03	U	<	5.58E+02	U	<	5.45E+02	U	<	5.46E+02	U
Thallium	7.82E-01	3.80E-01	1.30E-01	5.40E-01	J	1.30E-01	5.50E-01	J	1.10E-01	5.60E-01	J	<	1.10E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ	<	5.50E-01	U
Vanadium	3.94E+02	2.32E+01	1.27E+01	1.10E+00		1.35E+01	1.10E+00		1.77E+01	1.10E+00		1.26E+01	2.20E+00		1.59E+01	1.10E+00		1.70E+01	1.10E+00		1.57E+01	1.10E+00	
Zinc	2.35E+04	4.11E+01	1.26E+01	2.20E+00		1.23E+01	2.20E+00		1.99E+01	2.20E+00		1.11E+01	4.40E+00		8.20E+00	2.20E+00		1.01E+01	2.20E+00		9.40E+00	2.20E+00	
TPH (mg/kg)																						
Total Petroleum Hydrocarbons	1.00E+03	1.16E+04	<	4.32E+01	U	<	4.42E+01	U	<	4.49E+01	U	<	4.44E+01	U	<	4.47E+01	U	1.71E+02	4.36E+01		<	4.37E+01	U

Notes:

5.50E-01 = value exceeds NMED residential soil screening levels

-- = no screening level established

[1] = Screening value based on USEPA 2015 regional screening levels

< = not detected

AFB = Air Force Base

J = Estimated value below reporting limit

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Qual = Qualification

R = rejected

RFI = RCRA Facility Investigation

RL = Reporting Limit

SSL = soil screening level

TPH = total petroleum hydrocarbons

U = Not detected

UJ = Estimated Nondetect

USEPA = United States Environmental Protection Agency

TABLE 3-2
1994 PHASE II RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-2715-0050 0396860010SA 12/07/94			CAN127-2715-0060 0397130012SA 12/07/94			CAN127-2716-0000 0396550007SA 12/06/94			CAN127-2716-0005 0396550008SA 12/06/94			CAN127-2716-0010 0396550009SA 12/06/94			CAN127-2716-0015 0396550010SA 12/06/94			CAN127-2716-0020 0396550011SA 12/06/94		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (mg/kg)																						
Acetone	6.63E+04	7.50E+00	1.50E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	6.00E-03	1.20E-02	J	4.60E-03	1.10E-02	J	<	1.40E-02	U	4.00E-03	1.10E-02	J
Benzene	1.78E+01	3.80E+00	<	5.50E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.80E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.60E-03	U
2-Butanone (MEK)	3.74E+04	6.20E-03	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Ethylbenzene	7.51E+01	5.40E+01	<	5.50E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.80E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.60E-03	U
Methylene chloride	4.09E+02	6.70E-03	<	5.50E-03	U	4.60E-03	5.50E-03	J	<	5.60E-03	U	<	5.80E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.60E-03	U
Toluene	5.23E+03	8.20E+01	<	5.50E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.80E-03	U	2.80E-03	5.50E-03	J	<	5.50E-03	U	<	5.60E-03	U
Xylenes (total)	8.71E+02	2.60E+02	<	5.50E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.80E-03	U	<	5.50E-03	U	<	5.50E-03	U	<	5.60E-03	U
Semivolatile Organics (mg/kg)																						
Anthracene	1.74E+04	6.80E-02	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U
Benzo(a)anthracene	1.53E+00	9.10E-01	<	3.60E-01	U	<	3.70E-01	U	8.40E-02	3.70E-01	J	<	3.80E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U
Benzo(a)pyrene	1.53E-01	1.10E+00	<	3.60E-01	U	<	3.70E-01	U	1.10E-01	3.70E-01	J	<	3.80E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U
Benzo(b)fluoranthene	1.53E+00	1.60E+00	<	3.60E-01	U	<	3.70E-01	U	1.00E-01	3.70E-01	J	<	3.80E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U
Benzo(g,h,i)perylene	--	7.00E-01	<	3.60E-01	U	<	3.70E-01	U	8.80E-02	3.70E-01	J	<	3.80E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U
Benzo(k)fluroanthene	1.53E+01	1.60E+00	<	3.60E-01	U	<	3.70E-01	U	1.90E-01	3.70E-01	J	<	3.80E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U
Benzoic acid	2.50E+05	4.80E-02	<	1.70E+00	U	<	1.80E+00	U	<	1.80E+00	U	<	1.80E+00	U	<	1.80E+00	U	<	1.80E+00	U	<	1.80E+00	U
bis(2-Ethylehexyl)phthalate	3.80E+02	4.70E+00	5.40E-02	3.60E-01	J	<	3.70E-01	U	4.10E-02	3.70E-01	J	<	3.80E-01	U	<	3.60E-01	U	<	3.60E-01	U	4.70E+00	3.70E-01	
Butyl benzyl phtalate [1]	2.90E+02	9.00E-02	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U
Carbazole	--	1.70E-01	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U
Chrysene	1.53E+02	1.50E+00	<	3.60E-01	U	<	3.70E-01	U	1.40E-01	3.70E-01	J	<	3.80E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U
Di-n-butyl phthalate	6.16E+03	1.90E-01	<	3.60E-01	U	<	3.70E-01	U	1.90E-01	3.70E-01	J	1.70E-01	3.80E-01	J	<	3.60E-01	U	1.70E-01	3.60E-01	J	1.30E-01	3.70E-01	J
Di-n-octyl phthalate	--	3.10E-01	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.60E-01	U	3.10E-01	3.70E-01	J
Dibenz(a,h)anthracene	1.53E-01	2.80E-01	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U
Diethyl phthalate	4.93E+04	4.60E-02	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U
Fluoranthene	2.32E+03	2.80E+00	<	3.60E-01	U	<	3.70E-01	U	2.70E-01	3.70E-01	J	<	3.80E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U
Indeno(1,2,3-cd)pyrene	1.53E+00	7.00E-01	<	3.60E-01	U	<	3.70E-01	U	8.30E-02	3.70E-01	J	<	3.80E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U
2-Methylnaphthalene [1]	2.40E+02	4.00E+01	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U
Naphthalene	4.97E+01	2.10E+01	<	3.60E-01	U	<	3.70E-01	U	<	3.70E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U
Phenanthrene	1.74E+03	1.10E+00	<	3.60E-01	U	<	3.70E-01	U	1.20E-01	3.70E-01	J	<	3.80E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U
Pyrene	1.74E+03	2.30E+00	<	3.60E-01	U	<	3.70E-01	U	2.60E-01	3.70E-01	J	<	3.80E-01	U	<	3.60E-01	U	<	3.60E-01	U	<	3.70E-01	U

TABLE 3-2
1994 PHASE II RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-2715-0050 0396860010SA 12/07/94			CAN127-2715-0060 0397130012SA 12/07/94			CAN127-2716-0000 0396550007SA 12/06/94			CAN127-2716-0005 0396550008SA 12/06/94			CAN127-2716-0010 0396550009SA 12/06/94			CAN127-2716-0015 0396550010SA 12/06/94			CAN127-2716-0020 0396550011SA 12/06/94		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																						
Aluminum	7.80E+04	1.47E+04	4.64E+03	1.09E+01		3.48E+03	1.11E+01		1.06E+04	1.13E+01	J	1.03E+04	2.31E+01	J	8.94E+03	1.10E+01	J	9.34E+03	1.10E+01	J	7.33E+03	2.25E+01	J
Antimony	3.13E+01	4.60E+00	<	6.60E+00	UJ	<	6.60E+00	U	<	6.80E+00	UJ	<	1.38E+01	UJ	<	6.60E+00	UJ	<	6.60E+00	UJ	<	1.35E+01	UJ
Arsenic	4.25E+00	3.00E+00	1.20E+00	5.50E-01	J	1.40E+00	1.10E+00		2.60E+00	5.60E-01		2.20E+00	5.80E-01		1.60E+00	5.50E-01		2.00E+00	5.50E-01		2.10E+00	5.60E-01	
Barium	1.56E+04	1.54E+03	6.31E+01	1.10E+00	J	1.18E+01	1.10E+00		9.30E+01	1.10E+00	J	2.03E+02	2.30E+00	J	8.12E+01	1.10E+00	J	3.96E+02	1.10E+00	J	3.06E+02	2.20E+00	J
Beryllium	1.56E+02	7.60E-01	1.70E-01	2.20E-01	J	<	2.20E-01	U	5.70E-01	2.30E-01		4.30E-01	4.60E-01	J	4.70E-01	2.20E-01		5.40E-01	2.20E-01		4.60E-01	4.50E-01	
Cadmium	7.05E+01	7.70E-01	<	5.50E-01	U	<	5.50E-01	U	<	5.60E-01	U	<	1.20E+00	U	<	5.50E-01	U	<	5.50E-01	U	<	1.10E+00	U
Calcium	1.30E+07	2.54E+05	4.07E+04	2.19E+01		2.49E+03	2.21E+01		9.17E+03	2.25E+01		1.30E+05	4.61E+01		7.95E+04	2.20E+01		4.38E+04	2.20E+01		1.26E+05	4.49E+01	
Chromium	9.66E+01	2.14E+01	5.70E+00	1.10E+00	J	4.10E+00	1.10E+00		1.17E+01	1.10E+00		8.60E+00	2.30E+00		6.60E+00	1.10E+00		7.70E+00	1.10E+00		5.40E+00	2.20E+00	
Cobalt [1]	2.30E+01	8.00E+00	8.70E-01	1.10E+00	J	8.40E-01	1.10E+00	J	4.00E+00	1.10E+00		2.60E+00	2.30E+00		2.60E+00	1.10E+00		3.20E+00	1.10E+00		1.90E+00	2.20E+00	J
Copper	3.13E+03	4.58E+01	2.00E+00	2.20E+00	J	1.20E+00	2.20E+00	J	8.30E+00	2.30E+00		6.30E+00	4.60E+00		4.40E+00	2.20E+00		4.90E+00	2.20E+00		5.60E+00	4.50E+00	
Iron	5.48E+04	1.15E+04	3.85E+03	1.09E+01		3.32E+03	1.11E+01		9.75E+03	1.13E+01		7.88E+03	2.31E+01		6.91E+03	1.10E+01		7.99E+03	1.10E+01		5.78E+03	2.25E+01	
Lead	4.00E+02	8.39E+01	2.10E+00	1.10E+00		2.00E+00	5.50E-01		2.08E+01	5.60E+00	J	7.40E+00	5.80E-01	J	4.80E+00	5.50E-01	J	5.40E+00	5.50E-01	J	4.30E+00	1.10E+00	J
Magnesium	3.39E+05	1.50E+04	4.66E+03	2.19E+01	J	3.59E+03	2.21E+01		1.82E+03	2.25E+01		2.84E+03	4.61E+01		3.43E+03	2.20E+01		3.34E+03	2.20E+01		4.18E+03	4.49E+01	
Manganese	1.05E+04	3.40E+02	5.03E+01	1.10E+00		2.28E+01	1.10E+00		2.07E+02	1.10E+00		1.00E+02	2.30E+00		9.91E+01	1.10E+00		1.44E+02	1.10E+00		8.99E+01	2.20E+00	
Mercury	2.38E+01	5.70E+00	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.20E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U
Nickel	1.56E+03	1.05E+01	2.90E+00	4.40E+00	J	2.60E+00	4.40E+00	J	9.60E+00	4.50E+00		9.90E+00	9.20E+00		7.50E+00	4.40E+00		7.60E+00	4.40E+00		5.90E+00	9.00E+00	J
Potassium	1.56E+07	3.23E+03	8.79E+02	5.47E+02		7.26E+02	5.53E+02		2.35E+03	5.63E+02		1.74E+03	1.15E+03		1.63E+03	5.49E+02		2.04E+03	5.50E+02		1.82E+03	1.12E+03	
Selenium	3.91E+02	2.50E-01	<		R	<	1.10E+00	U	<	1.10E+00	UJ	<	2.30E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ	<	2.20E+00	UJ
Sodium	7.82E+06	5.21E+02	<	5.47E+02	U	<	5.53E+02	U	<	5.63E+02	U	<	1.15E+03	U	<	5.49E+02	U	<	5.50E+02	U	<	1.12E+03	U
Thallium	7.82E-01	3.80E-01	<	5.50E-01	U	<	5.50E-01	U	<	5.60E-01	UJ	<	1.20E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ
Vanadium	3.94E+02	2.32E+01	1.68E+01	1.10E+00		1.67E+01	1.10E+00		1.68E+01	1.10E+00	J	1.55E+01	2.30E+00	J	1.74E+01	1.10E+00	J	1.97E+01	1.10E+00	J	1.48E+01	2.20E+00	J
Zinc	2.35E+04	4.11E+01	8.80E+00	2.20E+00		6.90E+00	2.20E+00		2.92E+01	2.30E+00		2.13E+01	4.60E+00		1.77E+01	2.20E+00		2.04E+01	2.20E+00		1.55E+01	4.50E+00	
TPH (mg/kg)																						
Total Petroleum Hydrocarbons	1.00E+03	1.16E+04	<	4.37E+01	U	<	4.43E+01	U	4.57E+01	4.50E+01		<	4.61E+01	U	<	4.39E+01	U	<	4.40E+01	U	6.07E+01	4.49E+01	

Notes:

5.50E-01 = value exceeds NMED residential soil screening levels

-- = no screening level established

[1] = Screening value based on USEPA 2015 regional screening levels

< = not detected

AFB = Air Force Base

J = Estimated value below reporting limit

mg/kg = milligrams per kilogram

NA = not applicable

NMED = New Mexico Environment Department

Qual = Qualification

R = rejected

RFI = RCRA Facility Investigation

RL = Reporting Limit

SSL = soil screening level

TPH = total petroleum hydrocarbons

U = Not detected

UJ = Estimated Nondetect

USEPA = United States Environmental Protection Agency

TABLE 3-2
1994 PHASE II RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-2716-0025 0396550012SA 12/06/94			CAN127-2716-0030 0396550013SA 12/06/94			CAN127-2716-0035 0396550003SA 12/06/94			CAN127-2716-0040 0396550004SA 12/06/94			CAN127-2716-0050 0396550005SA 12/06/94			CAN127-2716-0060 0396550006SA 12/06/94		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (mg/kg)																					
Acetone	6.63E+04	7.50E+00	<	1.30E-02	U	3.60E-03	1.10E-02	J	6.50E-03	1.10E-02	J	<	1.10E-02	U	5.30E-03	1.10E-02	J	4.80E-03	1.10E-02	J
Benzene	1.78E+01	3.80E+00	<	6.40E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U
2-Butanone (MEK)	3.74E+04	6.20E-03	<	1.30E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Ethylbenzene	7.51E+01	5.40E+01	<	6.40E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U
Methylene chloride	4.09E+02	6.70E-03	<	6.40E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U
Toluene	5.23E+03	8.20E+01	<	6.40E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U
Xylenes (total)	8.71E+02	2.60E+02	<	6.40E-03	U	<	5.50E-03	U	<	5.60E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.50E-03	U
Semivolatile Organics (mg/kg)																					
Anthracene	1.74E+04	6.80E-02	<	4.20E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.50E-01	U	<	3.60E-01	U	<	3.60E-01	U
Benzo(a)anthracene	1.53E+00	9.10E-01	<	4.20E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.50E-01	U	<	3.60E-01	U	<	3.60E-01	U
Benzo(a)pyrene	1.53E-01	1.10E+00	<	4.20E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.50E-01	U	<	3.60E-01	U	<	3.60E-01	U
Benzo(b)fluoranthene	1.53E+00	1.60E+00	<	4.20E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.50E-01	U	<	3.60E-01	U	<	3.60E-01	U
Benzo(g,h,i)perylene	--	7.00E-01	<	4.20E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.50E-01	U	<	3.60E-01	U	<	3.60E-01	U
Benzo(k)fluroanthene	1.53E+01	1.60E+00	<	4.20E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.50E-01	U	<	3.60E-01	U	<	3.60E-01	U
Benzoic acid	2.50E+05	4.80E-02	<	2.00E+00	U	<	1.70E+00	U	<	1.80E+00	U	<	1.70E+00	U	<	1.70E+00	U	<	1.80E+00	U
bis(2-Ethylehexyl)phthalate	3.80E+02	4.70E+00	<	2.00E+00	U	<	1.70E+00	U	<	1.80E+00	U	<	1.70E+00	U	<	1.70E+00	U	<	1.80E+00	U
Butyl benzyl phtalate [1]	2.90E+02	9.00E-02	<	4.20E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.50E-01	U	9.00E-02	3.60E-01	J	<	3.60E-01	U
Carbazole	--	1.70E-01	<	4.20E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.50E-01	U	<	3.60E-01	U	<	3.60E-01	U
Chrysene	1.53E+02	1.50E+00	<	4.20E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.50E-01	U	<	3.60E-01	U	<	3.60E-01	U
Di-n-butyl phthalate	6.16E+03	1.90E-01	<	4.20E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.50E-01	U	1.60E-01	3.60E-01	J	1.60E-01	3.60E-01	J
Di-n-octyl phthalate	--	3.10E-01	<	4.20E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.50E-01	U	<	3.60E-01	U	<	3.60E-01	U
Dibenz(a,h)anthracene	1.53E-01	2.80E-01	<	4.20E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.50E-01	U	<	3.60E-01	U	<	3.60E-01	U
Diethyl phthalate	4.93E+04	4.60E-02	<	4.20E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.50E-01	U	4.60E-02	3.60E-01	J	<	3.60E-01	U
Fluoranthene	2.32E+03	2.80E+00	<	4.20E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.50E-01	U	<	3.60E-01	U	<	3.60E-01	U
Indeno(1,2,3-cd)pyrene	1.53E+00	7.00E-01	<	4.20E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.50E-01	U	<	3.60E-01	U	<	3.60E-01	U
2-Methylnaphthalene [1]	2.40E+02	4.00E+01	<	4.20E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.50E-01	U	<	3.60E-01	U	<	3.60E-01	U
Naphthalene	4.97E+01	2.10E+01	<	4.20E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.50E-01	U	<	3.60E-01	U	<	3.60E-01	U
Phenanthrene	1.74E+03	1.10E+00	<	4.20E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.50E-01	U	<	3.60E-01	U	<	3.60E-01	U
Pyrene	1.74E+03	2.30E+00	<	4.20E-01	U	<	3.60E-01	U	<	3.70E-01	U	<	3.50E-01	U	<	3.60E-01	U	<	3.60E-01	U

TABLE 3-2
1994 PHASE II RFI SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR LAB SAMPLE NUMBER COLLECT DATE	2015 NMED Residential SSL	Maximum Detected Concentration	CAN127-2716-0025 0396550012SA 12/06/94			CAN127-2716-0030 0396550013SA 12/06/94			CAN127-2716-0035 0396550003SA 12/06/94			CAN127-2716-0040 0396550004SA 12/06/94			CAN127-2716-0050 0396550005SA 12/06/94			CAN127-2716-0060 0396550006SA 12/06/94		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																					
Aluminum	7.80E+04	1.47E+04	8.03E+03	2.55E+01	J	4.94E+03	1.09E+01	J	6.34E+03	1.11E+01	J	5.80E+03	1.08E+01	J	5.87E+03	1.09E+01	J	5.80E+03	1.10E+01	J
Antimony	3.13E+01	4.60E+00	<	1.53E+01	UJ	<	6.60E+00	UJ	<	6.70E+00	UJ	<	6.50E+00	UJ	<	6.50E+00	UJ	<	6.60E+00	UJ
Arsenic	4.25E+00	3.00E+00	1.70E+00	6.40E-01		2.10E+00	5.50E-01		2.10E+00	5.60E-01		1.40E+00	5.40E-01		1.40E+00	5.50E-01		1.40E+00	5.50E-01	
Barium	1.56E+04	1.54E+03	3.41E+02	2.60E+00	J	5.12E+01	1.10E+00	J	1.47E+02	1.10E+00	J	2.68E+01	1.10E+00	J	3.07E+01	1.10E+00	J	3.26E+01	1.10E+00	J
Beryllium	1.56E+02	7.60E-01	3.20E-01	5.10E-01	J	2.00E-01	2.20E-01	J	2.70E-01	2.20E-01		1.80E-01	2.20E-01	J	2.10E-01	2.20E-01	J	1.80E-01	2.20E-01	J
Cadmium	7.05E+01	7.70E-01	<	1.30E+00	U	<	5.50E-01	U	<	5.60E-01	U	<	5.40E-01	U	<	5.50E-01	U	<	5.50E-01	U
Calcium	1.30E+07	2.54E+05	1.38E+05	5.10E+01		7.64E+04	2.18E+01		8.90E+04	2.22E+01		1.42E+04	2.15E+01		2.65E+04	2.18E+01		1.42E+04	2.21E+01	
Chromium	9.66E+01	2.14E+01	6.00E+00	2.60E+00		3.80E+00	1.10E+00		5.10E+00	1.10E+00		5.80E+00	1.10E+00		1.01E+01	1.10E+00		7.20E+00	1.10E+00	
Cobalt [1]	2.30E+01	8.00E+00	<	2.60E+00	U	1.70E+00	1.10E+00		9.40E-01	1.10E+00	J	1.40E+00	1.10E+00		1.60E+00	1.10E+00		1.70E+00	1.10E+00	
Copper	3.13E+03	4.58E+01	2.90E+00	5.10E+00	J	2.30E+00	2.20E+00		2.40E+00	2.20E+00		2.20E+00	2.20E+00		4.58E+01	2.20E+00		2.00E+00	2.20E+00	J
Iron	5.48E+04	1.15E+04	5.60E+03	2.55E+01		4.02E+03	1.09E+01		4.46E+03	1.11E+01		4.95E+03	1.08E+01		5.25E+03	1.09E+01		5.16E+03	1.10E+01	
Lead	4.00E+02	8.39E+01	3.20E+00	6.40E-01		2.60E+00	5.50E-01	J	3.30E+00	5.60E-01	J	2.50E+00	5.40E-01	J	3.10E+00	5.50E-01	J	5.50E+00	5.50E-01	J
Magnesium	3.39E+05	1.50E+04	5.07E+03	5.10E+01		2.46E+03	2.18E+01		4.28E+03	2.22E+01		3.87E+03	2.15E+01		4.51E+03	2.18E+01		4.66E+03	2.21E+01	
Manganese	1.05E+04	3.40E+02	4.24E+01	2.60E+00		4.64E+01	1.10E+00		4.38E+01	1.10E+00		4.86E+01	1.10E+00		6.05E+01	1.10E+00		5.40E+01	1.10E+00	
Mercury	2.38E+01	5.70E+00	<	1.30E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U	<	1.10E-01	U
Nickel	1.56E+03	1.05E+01	5.40E+00	1.02E+01	J	4.10E+00	4.40E+00	J	3.10E+00	4.40E+00	J	4.70E+00	4.30E+00		5.70E+00	4.40E+00		4.60E+00	4.40E+00	
Potassium	1.56E+07	3.23E+03	1.68E+03	1.28E+03		1.07E+03	5.46E+02		1.24E+03	5.55E+02		1.18E+03	5.38E+02		1.18E+03	5.46E+02		1.10E+03	5.52E+02	
Selenium	3.91E+02	2.50E-01	<	1.30E+00	UJ	<	2.20E+00	UJ	<	1.10E+00	U	<	1.10E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ
Sodium	7.82E+06	5.21E+02	<	1.28E+03	U	<	5.46E+02	U	<	5.55E+02	U	<	5.38E+02	U	<	5.46E+02	U	<	5.52E+02	U
Thallium	7.82E-01	3.80E-01	<	1.30E+00	UJ	<	1.10E+00	UJ	<	1.10E+00	UJ	<	5.40E-01	UJ	<	1.10E+00	UJ	<	5.50E-01	U
Vanadium	3.94E+02	2.32E+01	1.42E+01	2.60E+00	J	1.36E+01	1.10E+00	J	1.62E+01	1.10E+00	J	1.65E+01	1.10E+00	J	1.73E+01	1.10E+00	J	1.79E+01	1.10E+00	J
Zinc	2.35E+04	4.11E+01	1.37E+01	5.10E+00		9.80E+00	2.20E+00		1.06E+01	2.20E+00		1.02E+01	2.20E+00		1.22E+01	2.20E+00		1.07E+01	2.20E+00	
TPH (mg/kg)																					
Total Petroleum Hydrocarbons	1.00E+03	1.16E+04	<	5.10E+01	U	<	4.37E+01	U	<	4.44E+01	U	5.39E+01	4.30E+01		**1.70E+03**	4.36E+02		<	4.42E+01	U

Notes:

5.50E-01 = value exceeds NMED residential soil screening levels

-- = no screening level established

[1] = Screening value based on USEPA 2015 regional screening levels

< = not detected

AFB = Air Force Base

J = Estimated value below reporting limit

mg/kg = milligrams per kilogram

NA = not applicable

NMED = New Mexico Environment Department

Qual = Qualification

R = rejected

RFI = RCRA Facility Investigation

RL = Reporting Limit

SSL = soil screening level

TPH = total petroleum hydrocarbons

U = Not detected

UJ = Estimated Nondetect

USEPA = United States Environmental Protection Agency

TABLE 3-3
2008 VOLUNTARY CORRECTIVE ACTION SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR	2015 NMED	Maximum	127SB0100			127SB0200			127SB0300			127SB0400			127SB0500			127SB0600			127SB0700		
LAB SAMPLE NUMBER	Residential	Detected	B141-01			B141-02			B141-03			B141-04			B141-05			B141-06			B141-07		
COLLECT DATE	SSL	Concentration	02/13/08			02/13/08			02/13/08			02/13/08			02/13/08			02/13/08			02/13/08		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PAHs (mg/kg)																							
Acenaphthylene	3.48E+03	7.80E-02	<	2.30E-01	U	<	2.40E-01	U	<	2.30E-01	U	<	2.30E-01	U	<	2.30E-01	U	<	2.30E-01	U	<	2.30E-01	U
Anthracene	1.74E+04	3.60E+00	<	1.20E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)anthracene	1.53E+00	1.20E-01	2.00E-03	1.20E-02	J	7.00E-03	1.20E-02	J	2.40E-03	1.10E-02	J	<	1.20E-02	U	<	1.10E-02	U	6.30E-03	1.10E-02	J	<	1.20E-02	U
Benzo(a)pyrene	1.53E-01	1.90E-01	3.70E-03	1.20E-02	J	2.50E-02	1.20E-02		7.30E-03	1.10E-02	J	<	1.20E-02	U	<	1.10E-02	U	5.00E-03	1.10E-02	J	<	1.20E-02	U
Benzo(b)fluoranthene	1.53E+00	2.30E-01	<	2.30E-02	U	4.20E-02	2.40E-02		<	2.30E-02	U	<	2.30E-02	U	<	2.30E-02	U	<	2.30E-02	U	<	2.30E-02	U
Benzo(g,h,i)perylene	--	2.30E-01	2.50E-03	2.30E-02	J	6.50E-02	2.40E-02		9.00E-03	2.30E-02	J	<	2.30E-02	U	<	2.30E-02	U	3.40E-03	2.30E-02	J	<	2.30E-02	U
Benzo(k)fluroanthene	1.53E+01	8.80E-02	2.30E-03	1.20E-02	J	1.80E-02	1.20E-02		4.10E-03	1.10E-02	J	<	1.20E-02	U	<	1.10E-02	U	3.30E-03	1.10E-02	J	<	1.20E-02	U
Chrysene	1.53E+02	2.10E-01	3.30E-03	1.20E-02	J	2.90E-02	1.20E-02		4.00E-03	1.10E-02	J	<	1.20E-02	U	1.70E-03	1.10E-02	J	8.40E-03	1.10E-02	J	<	1.20E-02	U
Dibenz(a,h)anthracene	1.53E-01	1.40E-01	<	2.30E-02	U	4.10E-02	2.40E-02		<	2.30E-02	U	<	2.30E-02	U	<	2.30E-02	U	<	2.30E-02	U	<	2.30E-02	U
Fluoranthene	2.32E+03	6.50E-01	<	2.30E-02	U	5.80E-02	2.40E-02		<	2.30E-02	U	<	2.30E-02	U	<	2.30E-02	U	3.30E-02	2.30E-02		<	2.30E-02	U
Indeno(1,2,3-cd)pyrene	1.53E+00	2.20E-01	3.10E-03	1.20E-02	J	6.20E-02	1.20E-02		9.90E-03	1.10E-02	J	<	1.20E-02	U	<	1.10E-02	U	4.20E-03	1.10E-02	J	<	1.20E-02	U
Phenanthrene	1.74E+03	1.20E-01	<	1.20E-02	U	9.60E-03	1.20E-02	J	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	1.60E-02	1.10E-02		<	1.20E-02	U
Pyrene	1.74E+03	4.50E-01	<	1.20E-02	U	5.70E-02	1.20E-02		5.40E-03	1.10E-02	J	<	1.20E-02	U	<	1.10E-02	U	2.50E-02	1.10E-02		<	1.20E-02	U
TPH (mg/kg)																							
TPH-DRO	1.00E+03	2.60E+01	<	1.20E+01	U	2.60E+01	1.20E+01		<	1.10E+01	U	<	1.20E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.20E+01	U
TPH-ORO	1.00E+03	1.70E+01	<	2.30E+01	U	1.70E+01	2.40E+01	J	<	2.30E+01	U	<	2.30E+01	U	<	2.30E+01	U	<	2.30E+01	U	<	2.30E+01	U

Notes:

5.50E-01 = value exceeds NMED residential soil screening levels

-- = no screening level established

< = not detected

AFB = Air Force Base

DRO = diesel range organics

J = Estimated value below reporting limit

mg/kg = milligrams per kilogram

NMED = New Mexico Environment Department

ORO = oil range organics

PAH = polynuclear aromatic hydrocarbon

Qual = Qualification

RL = Reporting Limit

SSL = soil screening level

TPH = total petroleum hydrocarbon

U = Not detected

TABLE 3-3
2008 VOLUNTARY CORRECTIVE ACTION SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR	2015 NMED	Maximum	127SB0800			127SB0900			127SB1000			127SB1100			127SB1200			127SB1300			127SB1300M		
LAB SAMPLE NUMBER	Residential	Detected	B175-01			B175-02			B175-03			B175-04			B175-05			B175-06			B175-07		
COLLECT DATE	SSL	Concentration	02/14/08			02/14/08			02/14/08			02/14/08			02/14/08			02/14/08			02/14/08		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PAHs (mg/kg)																							
Acenaphthylene	3.48E+03	7.80E-02	<	2.30E-01	U	<	2.40E-01	U	<	2.30E-01	U	2.50E-02	2.20E-01	J	3.60E-02	2.20E-01	J	<	2.20E-01	U	<	2.10E-01	U
Anthracene	1.74E+04	3.60E+00	<	1.20E-02	U	<	1.20E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.53E+00	1.20E-01	<	1.20E-02	U	6.30E-03	1.20E-02	J	9.50E-03	1.20E-02	J	5.30E-02	1.10E-02		2.60E-03	1.10E-02	J	8.20E-02	1.10E-02		1.10E-01	1.10E-02	
Benzo(a)pyrene	1.53E-01	1.90E-01	<	1.20E-02	U	6.70E-03	1.20E-02	J	9.50E-03	1.20E-02	J	6.80E-02	1.10E-02		3.60E-03	1.10E-02	J	1.30E-01	1.10E-02		1.40E-01	1.10E-02	
Benzo(b)fluoranthene	1.53E+00	2.30E-01	<	2.30E-02	U	8.60E-03	2.40E-02	J	1.30E-02	2.30E-02	J	8.40E-02	2.20E-02		<	2.20E-02	U	1.70E-01	2.20E-02		1.70E-01	2.10E-02	
Benzo(g,h,i)perylene	--	2.30E-01	<	2.30E-02	U	5.00E-03	2.40E-02	J	7.50E-03	2.30E-02	J	8.30E-02	2.20E-02		4.00E-03	2.20E-02	J	1.70E-01	2.20E-02		1.70E-01	2.10E-02	
Benzo(k)fluroanthene	1.53E+01	8.80E-02	<	1.20E-02	U	3.40E-03	1.20E-02	J	5.00E-03	1.20E-02	J	3.30E-02	1.10E-02		2.20E-03	1.10E-02	J	7.80E-02	1.10E-02		6.50E-02	1.10E-02	
Chrysene	1.53E+02	2.10E-01	<	1.20E-02	U	8.60E-03	1.20E-02	J	1.50E-02	1.20E-02		8.90E-02	1.10E-02		5.00E-03	1.10E-02	J	1.50E-01	1.10E-02		1.80E-01	1.10E-02	
Dibenz(a,h)anthracene	1.53E-01	1.40E-01	<	2.30E-02	U	<	2.40E-02	U	<	2.30E-02	U	4.50E-02	2.20E-02		<	2.20E-02	U	9.80E-02	2.20E-02		9.40E-02	2.10E-02	
Fluoranthene	2.32E+03	6.50E-01	<	2.30E-02	U	3.20E-02	2.40E-02		4.20E-02	2.30E-02		2.50E-01	2.20E-02		1.40E-02	2.20E-02	J	4.70E-01	2.20E-02		5.10E-01	2.10E-02	
Indeno(1,2,3-cd)pyrene	1.53E+00	2.20E-01	<	1.20E-02	U	6.20E-03	1.20E-02	J	1.20E-02	1.20E-02		7.80E-02	1.10E-02		4.30E-03	1.10E-02	J	1.60E-01	1.10E-02		1.60E-01	1.10E-02	
Phenanthrene	1.74E+03	1.20E-01	2.90E-03	1.20E-02	J	8.80E-03	1.20E-02	J	8.90E-03	1.20E-02	J	5.20E-02	1.10E-02		<	1.10E-02	U	9.10E-02	1.10E-02		1.20E-01	1.10E-02	
Pyrene	1.74E+03	4.50E-01	<	1.20E-02	U	1.70E-02	1.20E-02		3.20E-02	1.20E-02		1.70E-01	1.10E-02		6.80E-03	1.10E-02	J	3.30E-01	1.10E-02		3.50E-01	1.10E-02	
TPH (mg/kg)																							
TPH-DRO	1.00E+03	2.60E+01	<	1.20E+01	U	<	1.20E+01	U	<	1.20E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
TPH-ORO	1.00E+03	1.70E+01	<	2.30E+01	U	<	2.40E+01	U	<	2.30E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U	9.50E+00	2.10E+01	J

Notes:

5.50E-01 = value exceeds NMED residential soil screening levels

-- = no screening level established

< = not detected

AFB = Air Force Base

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ORO = oil range organics

PAH = polynuclear aromatic hydrocarbon

Qual = Qualification

RL = Reporting Limit

SSL = soil screening level

TPH = total petroleum hydrocarbon

U = Not detected

TABLE 3-3
2008 VOLUNTARY CORRECTIVE ACTION SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

LOCATOR	2015 NMED	Maximum	127SB1300D			127SB1400			127SB1500			127SB1600			127SB1700			127SB1800			127SB1810		
LAB SAMPLE NUMBER	Residential	Detected	B175-08			B175-09			B175-10			B175-11			B175-12			B175-13			B175-14		
COLLECT DATE	SSL	Concentration	02/14/08			02/14/08			02/14/08			02/14/08			02/14/08			02/14/08			02/14/08		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PAHs (mg/kg)																							
Acenaphthylene	3.48E+03	7.80E-02	<	2.20E-01	U	<	2.20E-01	U	2.70E-02	2.30E-01	J	4.70E-02	2.10E-01	J	<	2.10E-01	U	7.80E-02	2.20E-01	J	<	2.20E-01	U
Anthracene	1.74E+04	3.60E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	3.60E+00	1.10E-02	J	<	1.10E-02	U
Benzo(a)anthracene	1.53E+00	1.20E-01	1.20E-01	1.10E-02		5.80E-03	1.10E-02	J	2.90E-02	1.20E-02		4.00E-02	1.10E-02		2.80E-02	1.10E-02		6.10E-02	1.10E-02		<	1.10E-02	U
Benzo(a)pyrene	1.53E-01	1.90E-01	**1.90E-01**	1.10E-02		9.10E-03	1.10E-02	J	4.40E-02	1.20E-02		6.70E-02	1.10E-02		5.10E-02	1.10E-02		1.10E-01	1.10E-02		2.60E-03	1.10E-02	J
Benzo(b)fluoranthene	1.53E+00	2.30E-01	2.30E-01	2.20E-02		1.10E-02	2.20E-02	J	5.60E-02	2.30E-02		8.10E-02	2.10E-02		6.30E-02	2.10E-02		1.40E-01	2.20E-02		<	2.20E-02	U
Benzo(g,h,i)perylene	--	2.30E-01	2.30E-01	2.20E-02		<	2.20E-02	U	5.90E-02	2.30E-02		8.10E-02	2.10E-02		6.60E-02	2.10E-02		1.60E-01	2.20E-02		<	2.20E-02	U
Benzo(k)fluroanthene	1.53E+01	8.80E-02	8.80E-02	1.10E-02		4.50E-03	1.10E-02	J	3.10E-02	1.20E-02		3.10E-02	1.10E-02		3.90E-02	1.10E-02		4.70E-02	1.10E-02		2.00E-03	1.10E-02	J
Chrysene	1.53E+02	2.10E-01	2.10E-01	1.10E-02		1.00E-02	1.10E-02	J	5.40E-02	1.20E-02		7.70E-02	1.10E-02		5.30E-02	1.10E-02		1.10E-01	1.10E-02		3.00E-03	1.10E-02	J
Dibenz(a,h)anthracene	1.53E-01	1.40E-01	1.40E-01	2.20E-02		<	2.20E-02	U	3.10E-02	2.30E-02		4.70E-02	2.10E-02		3.60E-02	2.10E-02		1.10E-01	2.20E-02		<	2.20E-02	U
Fluoranthene	2.32E+03	6.50E-01	6.50E-01	2.20E-02		3.00E-02	2.20E-02		1.60E-01	2.30E-02		2.00E-01	2.10E-02		1.70E-01	2.10E-02		<	2.20E-02	U	<	2.20E-02	U
Indeno(1,2,3-cd)pyrene	1.53E+00	2.20E-01	2.20E-01	1.10E-02		1.10E-02	1.10E-02		5.20E-02	1.20E-02		7.90E-02	1.10E-02		6.00E-02	1.10E-02		1.60E-01	1.10E-02		7.00E-03	1.10E-02	J
Phenanthrene	1.74E+03	1.20E-01	1.20E-01	1.10E-02		9.20E-03	1.10E-02	J	4.00E-02	1.20E-02		6.20E-02	1.10E-02		3.90E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Pyrene	1.74E+03	4.50E-01	4.50E-01	1.10E-02		2.50E-02	1.10E-02		1.20E-01	1.20E-02		1.70E-01	1.10E-02		1.20E-01	1.10E-02		2.60E-01	1.10E-02		<	1.10E-02	U
TPH (mg/kg)																							
TPH-DRO	1.00E+03	2.60E+01	<	1.10E+01	U	<	1.10E+01	U	<	1.20E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
TPH-ORO	1.00E+03	1.70E+01	1.10E+01	2.20E+01	J	<	2.20E+01	U	<	2.30E+01	U	5.40E+00	2.10E+01	J	9.80E+00	2.10E+01	J	1.60E+01	2.20E+01	J	<	2.20E+01	U

Notes:

5.50E-01 = value exceeds NMED residential soil screening levels

-- = no screening level established

< = not detected

AFB = Air Force Base

DRO = diesel range organics

J = Estimated value below reporting limit

mg/kg = milligrams per kilogram

NMED = New Mexico Environment Department

ORO = oil range organics

PAH = polynuclear aromatic hydrocarbon

Qual = Qualification

RL = Reporting Limit

SSL = soil screening level

TPH = total petroleum hydrocarbon

U = Not detected

TABLE 3-4
2014 RISK SCREENING EVALUATION SOIL SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

Field Sample ID Sample Date Depth	2015 NMED Residential SSL	Maximum Detected Concentration	127-SB19-00 8/25/2014 0 - 0.5 FT		127-SB20-00 8/25/2014 0 - 0.5 FT		127-SB21-00 8/25/2014 0 - 0.5 FT		127-SB22-00 8/25/2014 0 - 0.5 FT		127-SB23-00 8/26/2014 1.5 - 2.5 FT	
			Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
PAHs (mg/kg)												
2-Methylnaphthalene [1]	2.40E+02	7.10E-02	7.10E-02	J	1.50E-03	U	2.90E-03		3.70E-02	J	NS	
Acenaphthene	3.48E+03	5.80E-01	5.80E-01		1.30E-03	J	7.70E-04	J	3.20E-01		NS	
Acenaphthylene	--	1.10E+00	1.10E+00		1.20E-03	J	1.10E-03	J	5.50E-01		NS	
Anthracene	1.74E+04	4.40E+00	4.40E+00		4.30E-03		4.50E-03		2.70E+00		NS	
Benzo(a)anthracene	1.53E+00	4.40E+01	**4.40E+01**		4.90E-02		4.40E-02		**2.40E+01**		NS	
Benzo(a)pyrene	1.53E-01	5.70E+01	**5.70E+01**		8.10E-02		7.40E-02		**3.10E+01**		NS	
Benzo(b)fluoranthene	1.53E+00	9.30E+01	**9.30E+01**		1.40E-01		1.30E-01		**5.00E+01**		NS	
Benzo(g,h,i)perylene	--	3.90E+01	3.90E+01		7.40E-02		6.20E-02		2.10E+01		NS	
Benzo(k)fluoranthene	1.53E+01	2.70E+01	2.70E+01		4.70E-02		4.50E-02		1.40E+01		NS	
Chrysene	1.53E+02	6.80E+01	6.80E+01		9.60E-02		9.00E-02		3.70E+01		NS	
Dibenz(a,h)anthracene	1.53E-01	1.00E+01	**1.00E+01**		1.30E-02		1.10E-02		**4.70E+00**		NS	
Fluoranthene	2.32E+03	1.20E+02	1.20E+02		1.50E-01		1.30E-01		6.50E+01		NS	
Fluorene	2.32E+03	7.70E-01	7.70E-01		1.20E-03	U	7.60E-04	U	4.60E-01		NS	
Indeno(1,2,3-c,d)pyrene	1.53E+00	5.10E+01	**5.10E+01**		9.00E-02		7.50E-02		**3.00E+01**		NS	
Naphthalene	4.97E+01	1.50E-01	1.50E-01		1.40E-03	J	2.00E-03	J	7.90E-02		NS	
Phenanthrene	1.74E+03	4.00E+01	4.00E+01		5.30E-02		4.30E-02		2.20E+01		NS	
Pyrene	1.74E+03	9.90E+01	9.90E+01		1.40E-01		1.10E-01		5.80E+01		NS	
Total Petroleum Hydrocarbons (mg/kg)												
Diesel Range Organics (TPH-DRO)	1.00E+03	6.10E+00	NS		NS		NS		NS		6.10E+00	J
Gasoline Range Organics (TPH-GRO)	1.00E+03	1.50E+00	NS		NS		NS		NS		1.50E+00	U
Residual Range Organics (TPH-RRO)	1.00E+03	6.60E+00	NS		NS		NS		NS		6.60E+00	U

Notes:

5.50E-01 = value exceeds NMED residential soil screening levels

-- = no screening level established

[1] = Screening value based on USEPA 2015 regional screening levels

AFB = Air Force Base

FT = feet

ID = identification

J = Estimated value below reporting limit

mg/kg = milligrams per kilogram

NMED = New Mexico Environment Department

NS = not sampled

PAH = polynuclear aromatic hydrocarbon

Qual = Qualification

SSL = soil screening level

U = Not detected

USEPA = United States Environmental Protection Agency

TABLE 3-5
2014 RISK SCREENING EVALUATION SOIL GAS SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

Station Name **Field Sample ID** **Sample Date** **Depth**	**2015 NMED VISLs**	**Maximum Identified Concentration**	127-SV01 127-SV01-05 8/25/2014 15:39 5 FT		127-SV01 127-SV01-10 8/25/2014 16:21 10 FT		127-SV02 127-SV02-05 8/26/2014 8:20 5 FT		127-SV02 127-SV02-10 8/26/2014 9:00 10 FT		127-SV03 127-SV03-05 8/26/2014 9:32 5 FT		127-SV03 127-SV03-10 8/26/2014 10:05 10 FT		127-SV04 127-SV04-05 8/26/2014 10:50 5 FT		127-SV04 127-SV04-10 8/26/2014 11:35 10 FT	
			Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual
VOCs (µg/m^3)																		
1,2-Dichloropropane	2.81E+00	1.10E+00	<	U	<	U	<	U	<	U	<	U	<	U	<	U	<	U
2-Hexanone	--	4.80E+00	4.80E+00		9.00E-01	J	9.20E-01	J	1.50E+00	J	2.90E+00		4.60E+00		1.70E+00	J	<	U
Acetone	3.23E+04	4.20E+02	4.20E+02		1.00E+02		8.60E+01		1.90E+02		2.60E+02		3.60E+02		2.00E+02		1.00E+02	
Benzene	3.60E+00	6.70E+00	1.70E+00	J	1.70E+00	J	9.40E-01	J	1.30E+00	J	1.10E+00	J	**6.70E+00**		2.00E+00	J	<	U
Carbon disulfide	7.30E+02	4.20E+00	3.80E+00	J	1.50E+00	J	9.80E-01	J	1.10E+00	J	2.80E+00	J	2.80E+00	J	4.20E+00	J	1.40E+00	J
Carbon tetrachloride	4.68E+00	7.60E-01	7.60E-01	J	6.30E-01	J	<	U	<	U	<	U	<	U	<	U	<	U
Chloroethane	--	1.00E+00	1.00E+00	J	<	U	<	U	<	U	<	U	<	U	<	U	<	U
Chloroform	1.22E+00	3.50E+00	7.80E-01	J	<	U	<	U	**1.30E+00**	J	<	U	1.10E+00	J	<	U	**2.30E+00**	J
Chloromethane	1.56E+01	1.60E+00	1.60E+00	J	<	U	<	U	<	U	<	U	<	U	<	U	<	U
Cis-1,2-dichloroethylene	1.56E+02	3.80E+00	<	U	<	U	<	U	<	U	<	U	<	U	<	U	<	U
Ethylbenzene	1.12E+01	6.70E+00	<	U	6.50E-01	J	<	U	<	U	<	U	7.30E-01	J	<	U	<	U
M,p-xylene (sum of isomers)	1.04E+02	2.50E+01	<	U	1.70E+00	J	<	U	<	U	<	U	1.40E+00	J	<	U	<	U
Methyl ethyl ketone (2-butanone)	5.21E+03	7.30E+01	3.30E+01		2.50E+01		1.90E+01	J	3.70E+01		5.20E+01		7.30E+01		4.30E+01		2.10E+01	J
Methyl isobutyl ketone (4-methyl-2-	3.13E+03	6.10E+00	6.10E+00		8.90E-01	J	7.70E-01	J	1.20E+00	J	2.00E+00	J	3.40E+00		1.30E+00	J	<	U
Methylene chloride	6.26E+02	5.10E+00	7.50E-01	J	3.60E+00		<	U	<	U	<	U	8.20E-01	J	1.20E+00	J	1.30E+00	J
O-xylene (1,2-dimethylbenzene)	1.04E+02	1.10E+01	<	U	8.90E-01	J	<	U	<	U	<	U	<	U	<	U	<	U
Styrene	1.04E+03	3.40E+00	8.00E-01	J	<	U	<	U	<	U	<	U	<	U	<	U	<	U
Tetrachloroethylene (PCE)	4.17E+01	3.40E+01	5.00E+00		6.00E+00		1.20E+01		8.80E+00		1.90E+00	J	9.80E+00		9.50E+00		2.40E+01	
Toluene	5.21E+03	3.80E+01	1.40E+00	J	6.90E+00		1.30E+00	J	1.70E+00	J	1.20E+00	J	6.30E+00		1.80E+00	J	<	U
Trichloroethylene (TCE)	2.09E+00	9.20E+02	**1.20E+02**		**1.80E+02**		**1.60E+02**		**2.90E+02**		**2.60E+01**		**3.10E+02**		**6.00E+01**		**5.20E+02**	
Vinyl acetate	2.09E+02	4.40E+01	1.80E+01	J	1.50E+01	J	9.00E+00	J	1.40E+01	J	1.40E+01	J	3.30E+01		2.10E+01	J	1.40E+01	J

Notes:

5.50E-01 = value exceeds NMED vapor intrusion screening levels

-- = no screening level established

< = not detected

AFB = Air Force Base

FT = feet

ID = identification

J = Estimated value below reporting limit

NMED = New Mexico Environment Department

Qual = Qualification

U = Not detected

µg/m^3 = micrograms per cubic meter

VISL = vapor intrusion screening level

VOC = volatile organic compound

TABLE 3-5
2014 RISK SCREENING EVALUATION SOIL GAS SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

Station Name	**2015 NMED VISLs**	**Maximum Identified Concentration**	127-SV05		127-SV05		127-SV06		127-SV06		127-SV07		127-SV07		127-SV08	
Field Sample ID			127-SV05-05		127-SV05-10		127-SV06-05		127-SV06-10		127-SV07-05		127-SV07-10		127-SV08-05	
Sample Date			8/26/2014 13:45		8/26/2014 14:11		8/26/2014 14:40		8/27/2014 7:17		8/27/2014 7:45		8/27/2014 8:25		8/27/2014 8:55	
Depth			5 FT		10 FT		5 FT		10 FT		5 FT		10 FT		5 FT	
			Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual
VOCs (µg/m^3)																
1,2-Dichloropropane	2.81E+00	1.10E+00	<	U	<	U	<	U	<	U	7.10E-01	J	1.00E+00	J	7.70E-01	J
2-Hexanone	--	4.80E+00	3.30E+00		1.80E+00	J	<	U	2.40E+00		2.80E+00		<	U	2.80E+00	
Acetone	3.23E+04	4.20E+02	1.80E+02		1.30E+02		6.40E+01		1.10E+02		1.60E+02		2.00E+02		2.40E+02	
Benzene	3.60E+00	6.70E+00	9.50E-01	J	9.60E-01	J	2.80E+00		1.10E+00	J	3.30E+00		2.00E+00	J	1.90E+00	J
Carbon disulfide	7.30E+02	4.20E+00	2.00E+00	J	8.10E-01	J	8.10E-01	J	1.00E+00	J	2.70E+00	J	1.30E+00	J	1.50E+00	J
Carbon tetrachloride	4.68E+00	7.60E-01	<	U	7.40E-01	J	<	U	<	U	<	U	<	U	<	U
Chloroethane	--	1.00E+00	<	U	<	U	<	U	<	U	<	U	<	U	<	U
Chloroform	1.22E+00	3.50E+00	<	U	**3.50E+00**		<	U	**1.60E+00**	J	<	U	<	U	<	U
Chloromethane	1.56E+01	1.60E+00	<	U	<	U	<	U	<	U	7.50E-01	J	7.80E-01	J	6.50E-01	J
Cis-1,2-dichloroethylene	1.56E+02	3.80E+00	<	U	<	U	<	U	<	U	<	U	<	U	<	U
Ethylbenzene	1.12E+01	6.70E+00	<	U	<	U	<	U	<	U	3.90E+00		6.60E+00		4.40E+00	
M,p-xylene (sum of isomers)	1.04E+02	2.50E+01	<	U	<	U	<	U	<	U	1.20E+01		2.20E+01		1.40E+01	
Methyl ethyl ketone (2-butanone)	5.21E+03	7.30E+01	4.10E+01		2.00E+01	J	1.60E+01	J	2.60E+01		4.00E+01		2.00E+01	J	3.10E+01	
Methyl isobutyl ketone (4-methyl-2-	3.13E+03	6.10E+00	1.90E+00	J	1.30E+00	J	7.70E-01	J	1.50E+00	J	1.60E+00	J	1.50E+00	J	1.70E+00	J
Methylene chloride	6.26E+02	5.10E+00	2.30E+00		2.90E+00		5.10E+00		4.40E+00		6.90E-01	J	<	U	<	U
O-xylene (1,2-dimethylbenzene)	1.04E+02	1.10E+01	<	U	<	U	<	U	<	U	4.80E+00		1.10E+01		4.80E+00	
Styrene	1.04E+03	3.40E+00	<	U	<	U	<	U	<	U	2.10E+00		2.40E+00		2.30E+00	
Tetrachloroethylene (PCE)	4.17E+01	3.40E+01	2.90E+01		3.40E+01		<	U	1.90E+01		9.60E-01	J	9.70E-01	J	7.40E-01	J
Toluene	5.21E+03	3.80E+01	1.00E+00	J	<	U	2.90E+00		2.20E+00		3.80E+01		3.30E+01		3.10E+01	
Trichloroethylene (TCE)	2.09E+00	9.20E+02	**2.80E+02**		**9.20E+02**		7.20E-01	J	**4.50E+02**		**5.60E+00**		1.60E+00	J	**4.40E+00**	
Vinyl acetate	2.09E+02	4.40E+01	3.90E+01		2.30E+01		1.10E+01	J	2.50E+01		2.40E+01		8.90E+00	J	2.20E+01	

Notes:

5.50E-01 = value exceeds NMED vapor intrusion screening levels

-- = no screening level established

< = not detected

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FT = feet

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NMED = New Mexico Environment Department

Qual = Qualification

U = Not detected

µg/m^3 = micrograms per cubic meter

VISL = vapor intrusion screening level

VOC = volatile organic compound

TABLE 3-5
2014 RISK SCREENING EVALUATION SOIL GAS SAMPLING ANALYTICAL RESULTS
CANNON AFB, NEW MEXICO

Station Name	**2015 NMED VISLs**	**Maximum Identified Concentration**	127-SV08		127-SV09		127-SV09		127-SV10		127-SV10		127-SV11		127-SV11	
Field Sample ID			127-SV08-10		127-SV09-05		127-SV09-10		127-SV10-05		127-SV10-10		127-SV11-05		127-SV11-10	
Sample Date			8/27/2014 9:20		8/27/2014 9:46		8/27/2014 10:15		8/27/2014 10:45		8/27/2014 11:20		8/27/2014 11:50		8/27/2014 12:15	
Depth			10 FT		5 FT		10 FT		5 FT		10 FT		5 FT		10 FT	
			Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual
VOCs (µg/m^3)																
1,2-Dichloropropane	2.81E+00	1.10E+00	1.00E+00	J	1.10E+00	J	8.90E-01	J	<	U	9.10E-01	J	8.50E-01	J	1.00E+00	J
2-Hexanone	--	4.80E+00	2.20E+00		<	U	<	U	<	U	1.30E+00	J	2.40E+00		<	U
Acetone	3.23E+04	4.20E+02	1.90E+02		1.40E+02		1.30E+02		1.80E+02		1.10E+02		1.60E+02		1.30E+02	
Benzene	3.60E+00	6.70E+00	1.60E+00	J	1.70E+00	J	1.40E+00	J	**3.90E+00**	J	1.10E+00	J	1.70E+00	J	2.40E+00	
Carbon disulfide	7.30E+02	4.20E+00	1.50E+00	J	2.00E+00	J	3.10E+00	J	2.10E+00	J	1.20E+00	J	1.80E+00	J	8.50E-01	J
Carbon tetrachloride	4.68E+00	7.60E-01	<	U	<	U	<	U	<	U	<	U	<	U	<	U
Chloroethane	--	1.00E+00	<	U	<	U	<	U	<	U	<	U	<	U	<	U
Chloroform	1.22E+00	3.50E+00	7.10E-01	J	<	U	<	U	<	U	<	U	<	U	<	U
Chloromethane	1.56E+01	1.60E+00	7.40E-01	J	<	U	<	U	<	U	<	U	<	U	8.70E-01	J
Cis-1,2-dichloroethylene	1.56E+02	3.80E+00	3.80E+00		<	U	<	U	<	U	<	U	<	U	<	U
Ethylbenzene	1.12E+01	6.70E+00	4.50E+00		4.40E+00		3.40E+00		6.70E+00		3.70E+00		3.50E+00		3.90E+00	
M,p-xylene (sum of isomers)	1.04E+02	2.50E+01	1.30E+01		1.30E+01		9.80E+00		2.50E+01		1.20E+01		1.10E+01		1.10E+01	
Methyl ethyl ketone (2-butanone)	5.21E+03	7.30E+01	1.80E+01	J	2.00E+01	J	1.90E+01	J	3.10E+01		1.20E+01	J	3.10E+01		1.60E+01	J
Methyl isobutyl ketone (4-methyl-2-	3.13E+03	6.10E+00	1.50E+00	J	1.40E+00	J	1.10E+00	J	1.50E+00	J	8.00E-01	J	1.50E+00	J	1.30E+00	J
Methylene chloride	6.26E+02	5.10E+00	<	U	<	U	2.90E+00		<	U	<	U	<	U	<	U
O-xylene (1,2-dimethylbenzene)	1.04E+02	1.10E+01	4.50E+00		4.10E+00		3.20E+00		1.00E+01		3.90E+00		3.60E+00		3.60E+00	
Styrene	1.04E+03	3.40E+00	2.20E+00		2.20E+00		1.90E+00	J	3.40E+00	J	2.10E+00		2.40E+00		2.70E+00	
Tetrachloroethylene (PCE)	4.17E+01	3.40E+01	4.10E+00		3.30E+00		1.40E+01		7.60E+00		1.60E+01		2.80E+01		<	U
Toluene	5.21E+03	3.80E+01	3.40E+01		3.40E+01		3.00E+01		2.60E+01		2.90E+01		2.80E+01		3.40E+01	
Trichloroethylene (TCE)	2.09E+00	9.20E+02	**3.30E+00**		**3.20E+01**		**3.90E+02**		**8.20E+01**		**4.40E+02**		**2.40E+02**		1.80E+00	J
Vinyl acetate	2.09E+02	4.40E+01	9.40E+00	J	4.40E+01		2.10E+01	J	1.50E+01	J	8.30E+00	J	1.80E+01	J	1.00E+01	J

Notes:

5.50E-01 = value exceeds NMED vapor intrusion screening levels

-- = no screening level established

< = not detected

AFB = Air Force Base

FT = feet

ID = identification

J = Estimated value below reporting limit

NMED = New Mexico Environment Department

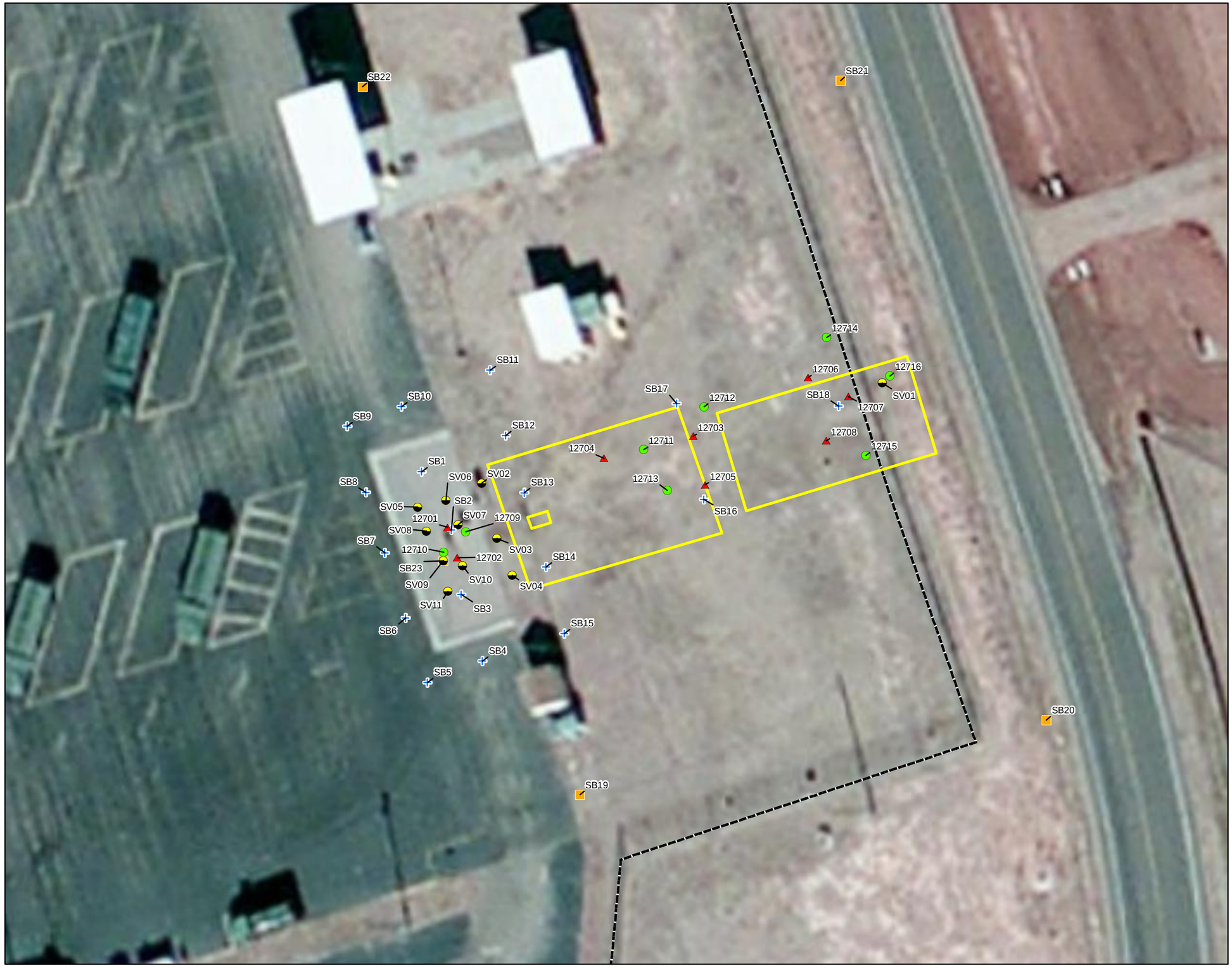
Qual = Qualification

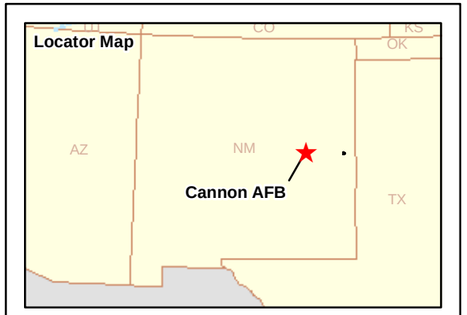
U = Not detected

µg/m^3 = micrograms per cubic meter

VISL = vapor intrusion screening level

VOC = volatile organic compound





Legend

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- Phase II RCRA Facility Investigation Soil Samples (Collected in 1994)
- Risk Screening Evaluation Soil Samples (Collected in 2008)
- Risk Screening Evaluation Soil Samples (Collected in 2014)
- Risk Screening Evaluation Soil Vaper Sampled (Collected in 2014)
- Fence Line
- SWMU 127 OWS and Leachfield Boundary
- Base Boundary

N

30 15 0 30 Feet

Historical Sample Locations
Cannon Air Force Base, New Mexico

Drawn By: DPG	Date: 4/19/2016	Project No. 23446539	Figure 3-1
Checked By: PW	Revision: 0		

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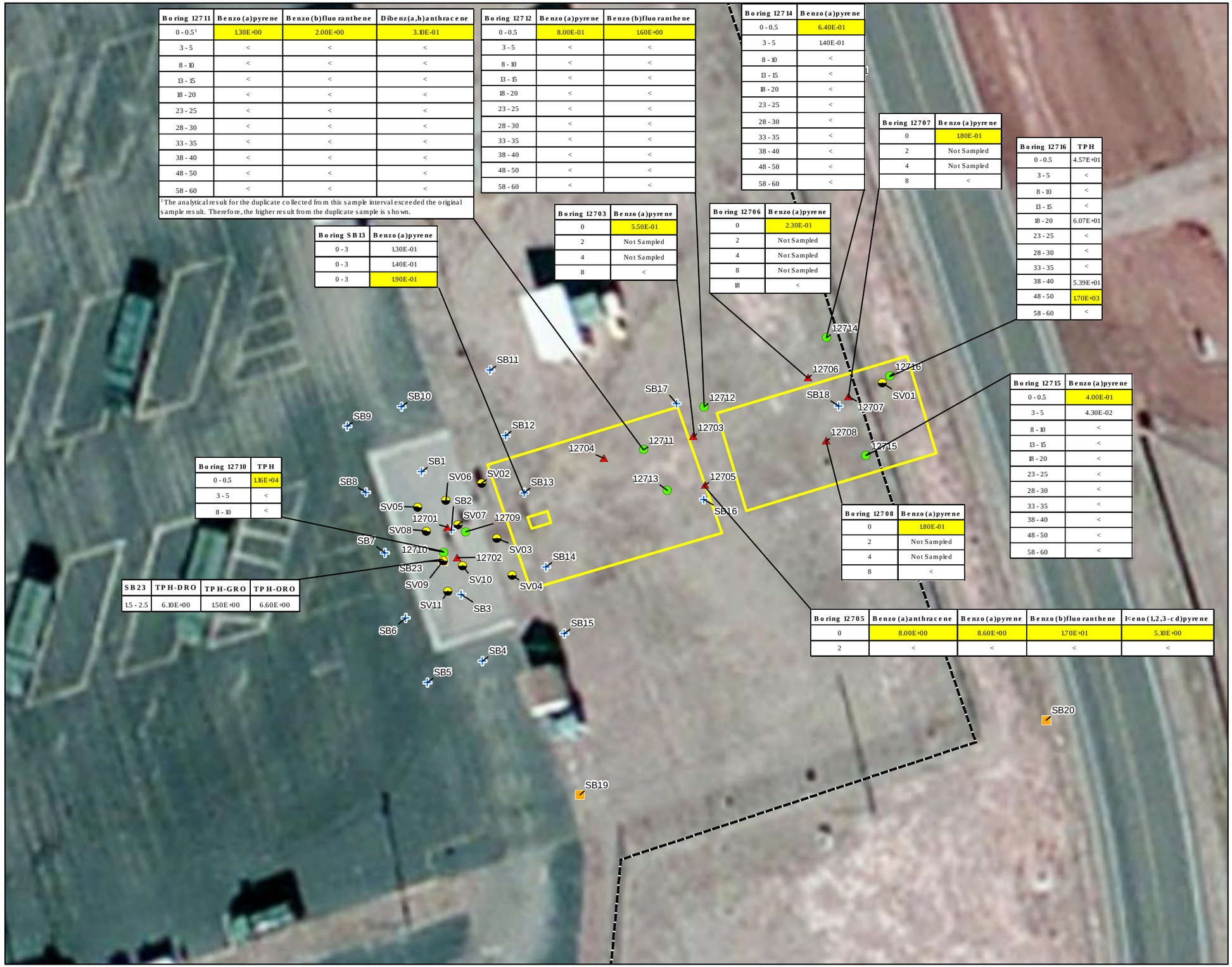


Boring 12711	Benzo(a)pyrene	Benzo(b)fluoranthene	Dibenz(a,h)anthracene
0 - 0.5[1]	1.30E+00	2.00E+00	3.10E-01
3 - 5	<	<	<
8 - 10	<	<	<
13 - 15	<	<	<
18 - 20	<	<	<
23 - 25	<	<	<
28 - 30	<	<	<
33 - 35	<	<	<
38 - 40	<	<	<
48 - 50	<	<	<
58 - 60	<	<	<

[1]The analytical result for the duplicate collected from this sample interval exceeded the original sample result. Therefore, the higher result from the duplicate sample is shown.

Boring 12712	Benzo(a)pyrene	Benzo(b)fluoranthene
0 - 0.5	8.00E-01	1.60E+00
3 - 5	<	<
8 - 10	<	<
13 - 15	<	<
18 - 20	<	<
23 - 25	<	<
28 - 30	<	<
33 - 35	<	<
38 - 40	<	<
48 - 50	<	<
58 - 60	<	<

Boring 12714	Benzo(a)pyrene
0 - 0.5	6.40E-01
3 - 5	1.40E-01
8 - 10	<
13 - 15	<
18 - 20	<
23 - 25	<
28 - 30	<
33 - 35	<
38 - 40	<
48 - 50	<
58 - 60	<

Boring 12707	Benzo(a)pyrene
0	1.80E-01
2	Not Sampled
4	Not Sampled
8	<

Boring 12716	TPH
0 - 0.5	4.57E+01
3 - 5	<
8 - 10	<
13 - 15	<
18 - 20	6.07E+01
23 - 25	<
28 - 30	<
33 - 35	<
38 - 40	5.39E+01
48 - 50	1.70E+03
58 - 60	<

Boring SB13	Benzo(a)pyrene
0 - 3	1.30E-01
0 - 3	1.40E-01
0 - 3	1.90E-01

Boring 12703	Benzo(a)pyrene
0	5.50E-01
2	Not Sampled
4	Not Sampled
8	<

Boring 12706	Benzo(a)pyrene
0	2.30E-01
2	Not Sampled
4	Not Sampled
8	Not Sampled
18	<

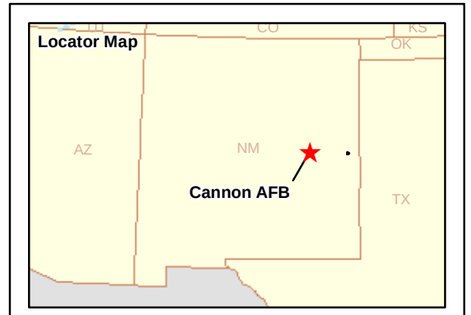
Boring 12710	TPH
0 - 0.5	1.16E+04
3 - 5	<
8 - 10	<

Boring 12715	Benzo(a)pyrene
0 - 0.5	4.00E-01
3 - 5	4.30E-02
8 - 10	<
13 - 15	<
18 - 20	<
23 - 25	<
28 - 30	<
33 - 35	<
38 - 40	<
48 - 50	<
58 - 60	<

Boring 12708	Benzo(a)pyrene
0	1.80E-01
2	Not Sampled
4	Not Sampled
8	<

SB23	TPH-DRO	TPH-GRO	TPH-ORO
1.5 - 2.5	6.10E+00	1.50E+00	6.60E+00

Boring 12705	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Ideno(1,2,3-cd)pyrene
0	8.00E+00	8.60E+00	1.70E+01	5.10E+00
2	<	<	<	<



Legend

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- Risk Screening Evaluation Soil Samples (Collected in 2014)
- Risk Screening Evaluation Soil Vaper Sampled (Collected in 2014)
- Fence Line
- SWMU 127 OWS and Leachfield Boundary
- Base Boundary

< = not detected
= Value exceeds NMED residential soil screening levels

N
30 15 0 30 Feet

Historical Soil Sampling Analytical Results
Cannon Air Force Base, New Mexico

Drawn By: DPG	Date: 4/19/2016	Project No. 23446539	Figure 3-2
Checked By: PW	Revision: 0		

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DQOs are qualitative and quantitative statements that specify the quality of data and define the level of certainty required to support remedial decisions. The steps of the DQO development process have been developed based on USEPA Guidance on Systematic Planning Using the Data Quality Objectives Process, EPA QA/G-4 (USEPA 2001, 2004).

4.1 STATE THE PROBLEM

Historical investigations identified PAH contamination in the surface soils and TPH contamination in the subsurface soils at SW127. Risk assessments completed identified the PAH contamination in the surface soils as the source of the contamination resulting in exceedance of cancer risks for residential use.

The data utilized in the risk assessment was collected in 1993 and 1994 as part of the Phase I and Phase II RFIs. If the historical surface soil samples were to be proven to have remediated via natural attenuation over time (22 years), the remaining contaminant concentrations would be below current (2015) NMED residential SSLs. Therefore, FPM/URS propose resampling the historical boring locations where exceedances of the NMED residential SSLs for TPH have been identified. The soils will be sampled from depths and locations equivalent to the identified exceedance as indicated in **Table 4-1** and **Figure 4-1**. The analytical results will be reviewed to determine if contamination remains at concentrations exceeding the NMED residential SSL. If concentrations are below the applicable SSL, the results will be presented in a status report and CAC without Controls will be recommended. If concentrations exceed the applicable SSL, the PAH contaminated soils will be removed in accordance with **Section 5** of this work plan.

4.2 IDENTIFY THE GOAL OF THE ACMWP

The goal of the ACMWP is to confirm the presence or absence of PAH contamination at SW127 and define how the excavation/backfill activities will be completed (if needed) to achieve the site objective of CAC without Controls. Soil samples will be collected to confirm the extent of surface soil contamination at SW127 prior to the completion of excavation activities.

4.3 IDENTIFY INFORMATION INPUTS

Chemical analytical data to be collected are described in **Section 6.3**. Existing site information, including descriptions of historical site activities, previous sampling results, topography, and geology will be obtained from applicable existing documents. Appropriate sampling and analysis methods are described in **Section 6.3.**

4.4 DEFINE THE BOUNDARIES OF THE REMOVAL ACTION

The planned extent of the area to excavate is discussed in **Section 5**. The final excavation boundaries are dependent upon the results of preliminary sampling to be completed prior to the excavation to confirm the presence of PAH-contaminated surface soils above the NMED residential SSLs.

4.5 DEVELOP THE ANALYTICAL APPROACH

Once the initial excavation of soil has been completed, confirmation soil samples will be collected from the sidewalls and base of the excavation. The soil samples will be submitted to an off-site laboratory for 24 hour analysis. The laboratory results will produce one of the following outcomes:

- If PAH concentrations in the soils exceed NMED residential SSLs, additional soils will be excavated in 1 foot increments and the soils will then be resampled.
- If the PAH concentrations in the soils are below the NMED residential SSL, the excavation will be backfilled with clean soil.

4.6 SPECIFY PERFORMANCE OR ACCEPTANCE CRITERIA

The acceptance criteria for this accelerated corrective measure will be successful excavation of soils with PAH concentrations above the NMED SSL based on laboratory analysis of confirmation samples. The probability of making an incorrect decision using the collected data, including possible sampling design or measurement errors, will be controlled by following field procedures listed in **Section 6.3.4**. The results of QA/QC efforts during sample collection and analysis will be used to evaluate the usability of chemical data for decision making.

4.7 DEVELOP THE DETAILED PLAN FOR OBTAINING DATA

This ACMWP presents the field activities and procedures to be followed to complete a removal action to excavate PAH-contaminated soils at SW127. The United States Air Force and NMED will have the opportunity to review and comment on this plan to make sure this approach is acceptable and will meet the performance objective of CAC without Controls.

TABLE 4-1
SUMMARY OF SOIL SAMPLES PROPOSED FOR CHEMICAL ANALYSIS
CANNON AFB, NEW MEXICO

Soil Boring Location	Soil Sample Number	Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical			Technical Rationale
					SVOCs (PAHs)[2]	Field Duplicate Samples[3]	MS/MSD Samples[4]	
12703	CA127-SB12703-0	0.0-1.0	TBD	TBD	X			Soil samples will be collected and analyzed to confirm or refute the presence of PAHs in excess of NMED residential SSLs at the indicated depth.
12705	CA127-SB12705-0	0.0-1.0	TBD	TBD	X	X		
12706	CA127-SB12706-0	0.0-1.0	TBD	TBD	X			
12707	CA127-SB12707-0	0.0-1.0	TBD	TBD	X		X	
12708	CA127-SB12708-0	0.0-1.0	TBD	TBD	X			
12711	CA127-SB12711-0	0.0-0.5	TBD	TBD	X	X		
12712	CA127-SB12712-0	0.0-0.5	TBD	TBD	X			
12714	CA127-SB12714-0	0.0-0.5	TBD	TBD	X			
12715	CA127-SB12715-0	0.0-0.5	TBD	TBD	X			
SB13	CA127-SB13-1	0.0-1.0	TBD	TBD	X			
	CA127-SB13-2	1.0-2.0	TBD	TBD	X			
	CA127-SB13-3	2.0-3.0	TBD	TBD	X			
				Totals	**12**	**2**	**1**	

Notes:

[1]Horizontal coordinates are in New Mexico East State Plane, North American Datum of 1983.

[2]SVOC analysis via USEPA Method 8270 SIM

[3]Field duplicate samples will be collected at a rate of 10% (1 per 10 samples collected) for laboratory analysis.

[4]MS/MSD samples will be collected at a rate of 5% (1 per 20 samples collected) for laboratory analysis.

Laboratory analysis completed by EMAX Laboratories, Torrance, California

bgs = below ground surface

MS/MSD = matrix spike/matrix spike duplicate

NMED = New Mexico Environment Department

PAH = polynuclear aromatic hydrocarbon

SIM = Selective Ion Monitoring

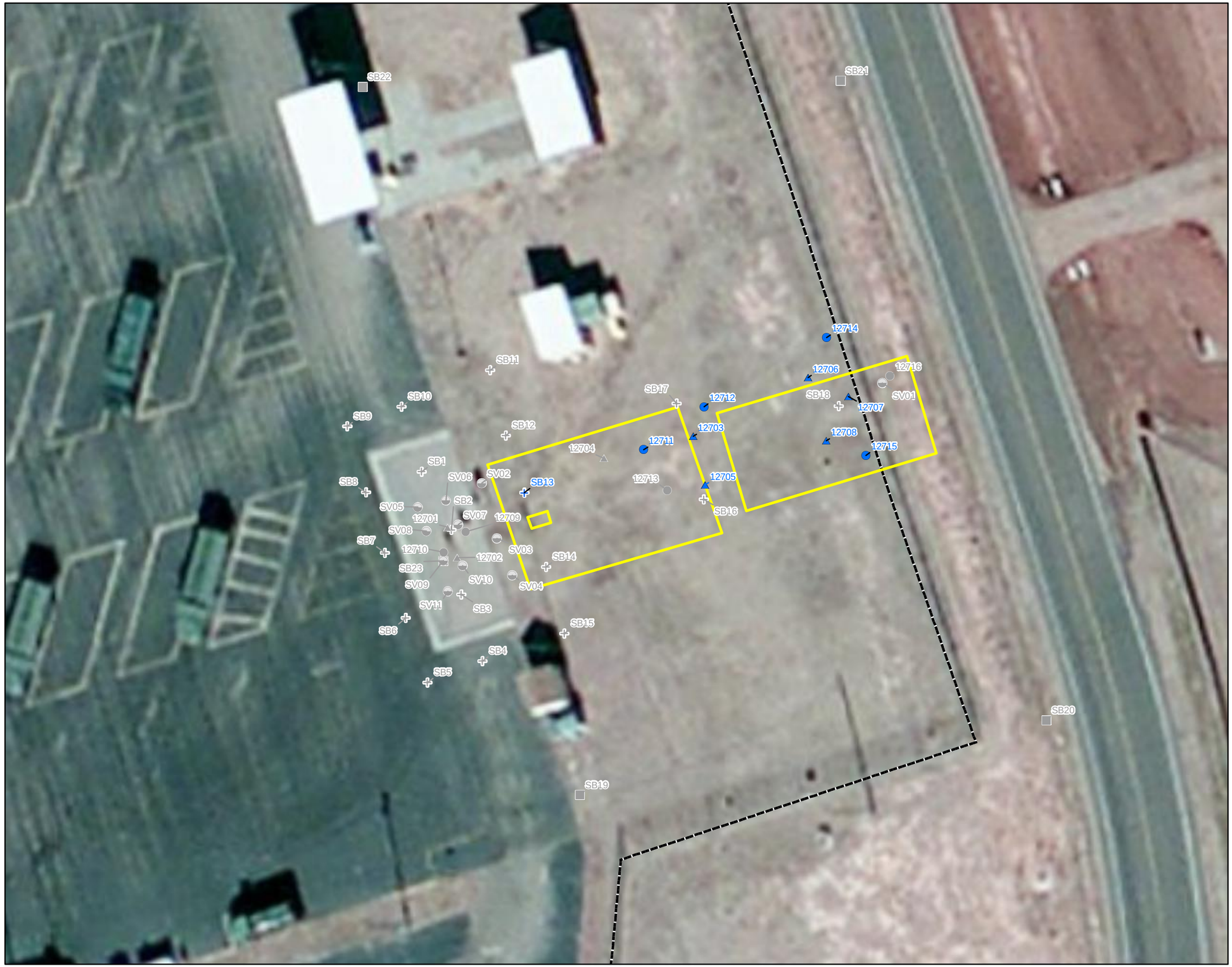
SSL = soil screening level

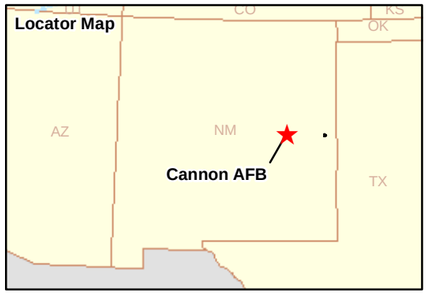
SVOC = semivolatile organic compound

TBD = to be determined

USEPA = United States Environmental Protection Agency

X = sample collected





Legend

- Phase I RCRA Facility Investigation Soil Samples (Collected in 1993)
- Phase II RCRA Facility Investigation Soil Samples (Collected in 1994)
- Risk Screening Evaluation Soil Samples (Collected in 2008)
- Risk Screening Evaluation Soil Samples (Collected in 2014)
- Risk Screening Evaluation Soil Vaper Sampled (Collected in 2014)
- Fence Line
- SWMU 127 OWS and Leachfield Boundary
- Base Boundary

Note:
Sample points shaded in blue are Planned Confirmation Sample Locations

N

30 15 0 30 Feet

Proposed Confirmation Sample Locations

Cannon Air Force Base, New Mexico

Drawn By: DPG	Date: 4/19/2016	Project No. 23446539	Figure 4-1
Checked By: PW	Revision: 0		

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5.1 SITE CONTROLS

The following sections describe the site controls that will be followed during completion of a soil removal action at SW127.

5.1.1 Site Safety

Warning signs and orange construction fencing will be placed at the public access points to the work area along western perimeter adjoining the paved parking lot. Open excavations (i.e., greater than 4 feet deep) and other potentially dangerous areas will be surrounded by orange construction fencing. Entrances to staging areas and decontamination areas, located in the grassy area south of SW127, will be blocked with orange construction fencing when not in use.

5.1.2 Site Access

Cannon AFB is a secure facility that is fenced on all sides. All public entry points are gated and manned by security personnel. Security patrols the base roads 24 hours per day. In addition to general base access security, additional access controls are in place for SW127. SW127 is located adjoining to a larger parking lot for Cannon AFB vehicles. The area surrounding the parking lot (including SW127) is fenced and access to the area is limited to approved personnel. Excavation equipment will be parked within a designated area each night (to be designated at the time of the field work) the keys will be removed, tools will be properly stored, and SW127 will be maintained in an organized manner.

5.1.3 Erosion Control

To minimize the migration of soil off-site, erosion control measures will be put in place at SW127. Temporary erosion control measures will be installed and maintained in areas where soil erosion could occur during a storm event. Erosional controls, such as sediment socks, will be placed down gradient of the planned excavation. Due to the small excavation area at SW127, and the minimal time it will take to complete the excavation, soil erosion due to wind is not considered viable.

5.1.4 Underground Utilities

Underground utilities could be present within and around the excavation area at SW127. Utility clearances will be obtained inside the boundary of the work zones prior to the initiation of all intrusive field activities as described in **Section 6.1.5** of this ACMWP.

5.2 EXCAVATION

5.2.1 Confirmation Sampling

Historical investigations identified PAH contamination in the surface soils at concentrations exceeding the NMED residential SSLs. Additionally, TPH contamination was in one subsurface soil sample at concentrations exceeding the NMED residential SSL. In order to confirm or refute

the presence of PAH contamination, the surface soils will be sampled at depths and locations equivalent to the identified exceedance as indicated in **Table 4-1**. The analytical results will be reviewed to determine if contamination remains at concentrations exceeding the NMED residential SSL. If concentrations are below the applicable SSL, the results will be presented in a status report and CAC without Controls will be recommended. If PAH concentrations exceed the applicable SSLs, the PAH contaminated soils will be removed in accordance with **Section 5** of this work plan.

The TPH exceedance in the subsurface of boring 12716 from 48 to 50 feet bgs is the only exceedance of TPH in the subsurface soils at SW127. NMED guidance indicates that TPH SSLs are based solely on human health considerations related to direct soil exposure, not ecological risk considerations, protection of surface or ground water, or potential indoor air impacts from soil vapor. Potential soil vapor impacts shall be evaluated for individual petroleum-related contaminants. Based on the depth of the contamination identified, a risk assessment will be completed to evaluate the cumulative risk of the individual petroleum-related contaminants at depth in boring 12716. The results of the risk assessment will be included in the status report or the Accelerated Corrective Measure Completion Report for SW127.

5.2.2 Waste Characterization Sampling

Prior to excavation, three composite waste characterization soil samples will be collected from within the planned limits of the excavation to confirm the presumed waste classification and allow for direct loading of excavated soil. The waste characterization samples will be collected by compositing soil from 0 to 2 feet bgs. The samples will be submitted to the laboratory for analysis as needed to meet the disposal facility requirements (**Section 6.3.1.1**).

5.2.3 Excavation Activities

A backhoe or similar type of excavation equipment will be used to remove surface debris from the planned excavation area at SW127. The planned excavation area is shown on **Figure 5-1**. Based on historical data, it is estimated that 106 cubic yards at SW127 will need to be removed. The estimated excavation depth will be approximately 0.5 to 2.0 feet bgs. However, if needed, excavation will continue beyond the planned excavation boundaries until soils at the site are determined, via confirmation samples, to contain PAHs at concentrations below the NMED residential SSL.

The integrity of the fence located in the western portion of the excavation area will be maintained at all times to ensure the area is secured. In order to maintain security at the site, the soils will be excavated up to the existing fence and the soils in the floor and wall will be sampled for PAHs as described in **Section 5.3**. If no PAHs are identified, the site will be surveyed and backfilled with clean soils. If PAHs are identified in the wall samples, the soils within the fenced area will be backfilled. The contaminated soils will be removed by excavating from outside the fenced area. By filling in the excavated area prior to moving to the exterior of the fenced area, the integrity of the fence will be maintained.

The anticipated transportation route for haul vehicles on the Cannon AFB installation is shown on **Figure 5-2**. Excavated soil will be transported to a Subtitle D landfill or Subtitle C landfill (if tested to be hazardous) per NMED requirements (**Section 6.3.1.1**).

5.3 CONFIRMATION SAMPLING AND ANALYSIS

Upon removal of contaminated soil from the planned excavation boundaries, soil samples will be collected from the excavation bottom and sidewalls. Confirmation soil samples will be collected in the unexcavated area of the perimeter sidewalls of the excavation at one per 20 linear feet or a minimum of 2 per excavation sidewall. Confirmation soil samples will be collected from the floor of the excavation at one per 400 square feet (which equates to approximately 20 feet by 20 feet). All confirmation samples will be analyzed for PAHs. Confirmation sample results will compared to NMED residential SSLs to ensure that all PAH contaminated soil has been removed from SW127.

5.4 BACKFILL

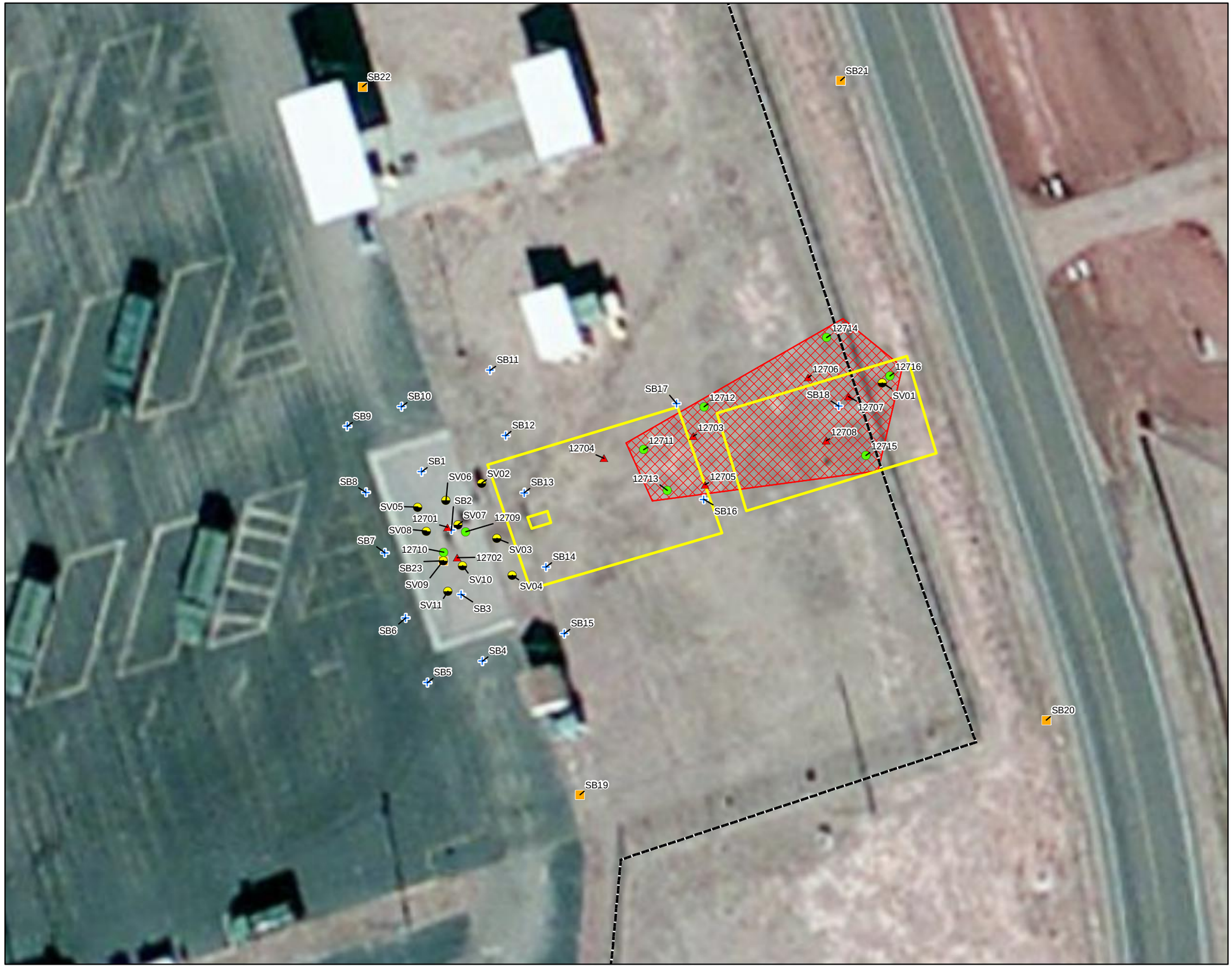
Backfilling of the excavation area will begin upon completion of excavation, confirmatory sampling, and receipt of analytical sample results indicating all confirmation samples are below NMED residential SSLs. Backfill material will consist of clean soil that has been tested for VOCs, SVOCs and metals and compared to NMED SSLs. Soil will be compacted using heavy equipment on-site.

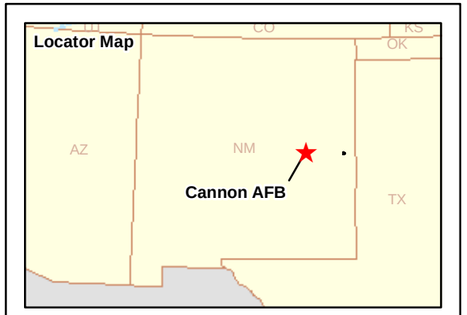
5.5 ACMCR

An ACMCR will be prepared at the completion of the field work proposed in the ACMWP. The ACMCR will include, but is not limited to, the following documentation:

- Copies of all permits obtained to complete the work (e.g. dig permit)
- Analytical data report package
- Field generated paperwork (sample collection field sheet [SCFS] and field log book entries)
- Photographic documentation
- Site drawings and figures
- Survey data

The ACMCR will summarize the work performed at the site, indicate that the soils remaining at the site can be utilized for UU/UE, and recommend CAC without Controls to the Air Force and NMED.





Legend

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- Risk Screening Evaluation Soil Samples (Collected in 2014)
- Risk Screening Evaluation Soil Vaper Sampled (Collected in 2014)
- Fence Line
- SWMU 127 OWS and Leachfield Boundary
- Estimated Excavation Boundaries
- Base Boundary

N

30 15 0 30 Feet

SW127 Planned Area of Excavation
Cannon Air Force Base, New Mexico

Drawn By: DPG	Date: 4/19/2016	Project No. 23446539	Figure 5-1
Checked By: PW	Revision: 0		

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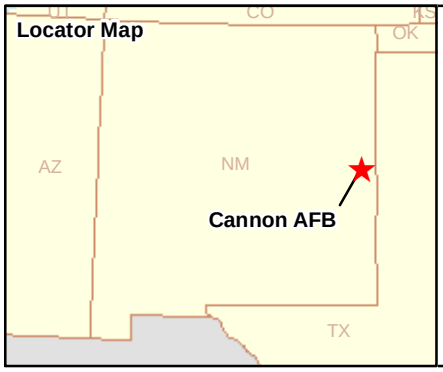

Legend

- Base Boundary
- SW127
- Planned Haul Route

Map projection: NAD83 State Plane Feet New Mexico East (FIPS 3001)

N

2,000 1,000 0 2,000 Feet

Planned Haul Route
Cannon Air Force Base, New Mexico

Drawn By: DPG	Date: 4/19/2016	Project No. 23446539	Figure 5-2
Checked By: MS	Revision: 0		

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This section describes the general field procedures that will be followed during the soil removal action.

6.1 MOBILIZATION

Mobilization of equipment and personnel will be completed prior to the start of field activities. The mobilization activities will include, but are not limited to, the tasks described in the following sections. All activities included in mobilization will be recorded in the field logbook.

6.1.1 Acquire Base Passes

Field personnel and subcontractors will coordinate with the Cannon AFB RPM to acquire passes that will allow entry onto Cannon AFB to complete the planned activities.

6.1.1.1 Contractor Identification

Prior to the initiation of each field investigation, URS personnel and all subcontractors on-site will be identified to appropriate personnel within the 27th Special Operations Civil Engineering Squadron/Civil, Environmental and Infrastructure Engineering (27 SOCES/CEIE). 27 SOCES/CEIE will make all arrangements to notify base personnel and security of the pending field investigation. It is likely that on-site URS personnel and subcontractors will be issued base visitor passes, which they will be required to have with them at all times while on base. In addition, all URS personnel and URS subcontractors may be required to attend a safety briefing provided by the base.

6.1.1.2 Vehicle Passes

All vehicles that enter the base must be registered at the Main and/or Contractor Gate, and obtain and display a vehicle permit tag from base security. The vehicle registration applicant will need to furnish proof of insurance, rental agreement (if applicable), a valid driver’s license, and the contract number to register a vehicle. The tag shall be displayed in the lower driver's side corner of the windshield.

6.1.2 Facility Safety Requirements

URS will take preventative measures required for safe work activities at Cannon AFB. URS will follow all procedures necessary to ensure that the safe practices employed comply with Occupational Safety and Health Administration (OSHA), American National Standards Institute, and Cannon AFB regulations.

URS will provide a SSO at all times during completion of the investigations. The SSO, as well as all project personnel, will observe the safety procedures to provide a safe work environment.

Prior to the start of field activities, a site walk will be completed at each site to identify possible safety concerns. Possible safety concerns may include physical hazards (e.g., underground/overhead utilities, holes, or uneven terrain) or biological hazards.

6.1.3 Mobilization of Equipment

URS will mobilize a full crew and all associated materials and equipment for field activities. A combination of the following equipment will be mobilized:

- Cellular phones and/or portable communication radios
- First aid supplies/kits, eye wash kits, personal protective equipment (PPE), fire extinguishers
- Warning signs and/or orange construction safety fencing and cones for placement around open excavations, other potential dangerous areas, or work areas not in use
- Material for erosion and sediment control (e.g., silt fencing, hay bales, and wooden stakes)
- Excavation, hauling, and backfill equipment
- Site vehicles (e.g., pickup trucks, vans)
- Portable pressure washer with clean decontamination water tank
- Materials for building decontamination stations
- Pumps and hoses for transferring decontamination or waste water
- Various hand tools
- Spill kit

6.1.4 Establishment of Work Zones

Work zones will be established to minimize exposure to hazards associated with field activities, and to reduce the migration of contaminants from contaminated areas. Work zones will include intrusive and non-intrusive exclusion zones (EZ), a contaminant reduction zone (CRZ), and a support zone (SZ). The location of these zones will be coordinated with, and approved by, military Command. These zones will be identified during safety briefings and will be clearly identified using orange construction fencing and/or yellow caution tape and cones. The locations of the EZs, CRZ, and SZ will be adjusted based on the location of the excavations, terrain, and field conditions.

6.1.5 Locate Utilities

URS will obtain utility clearances prior to the start of any intrusive activities. Utility locates will be coordinated with Cannon AFB. The utility clearances will be requested sufficiently in advance and will be completed by the 27 SOCES/CEIE and New Mexico One-Call. All underground utilities identified will be marked with flagging, stakes, and/or paint. All utility

location tasks will be documented in the field logbook to aid in subsequent work. No intrusive work using heavy equipment will be completed within 5 feet of an active utility.

Digging permits will be obtained for all subsurface activities prior to initiating the work. Digging permits will be obtained through the appropriate United States Air Force (USAF) representative. When any intrusive work is being performed in the vicinity of utility and/or communication cables/lines, Civil Engineering and/or Communication monitoring personnel, as required, will be present. If a utility and/or communication line is damaged, the designated representative of the USAF shall be notified immediately for further directions.

Notice will be given to the monitoring personnel no later than 24 hours prior to work. No work shall start if the required monitoring personnel are not present.

6.1.6 Surveying of Excavation Boundary and Topography

The planned soil excavation boundaries will be located in the field using predetermined survey coordinates loaded into a global positioning system (GPS) unit. The horizontal survey coordinates will reference the North American Datum of 1983 State Plane Coordinate System (i.e., New Mexico East, Federal Information Processing Standard 3001 [in survey feet]).

The initial topography of the site will be surveyed prior to beginning excavation activities. The topography and excavation limits will be surveyed to determine the final excavation limits, depths, and soil volume removed. Upon completion of backfill and site restoration, the topography will again be surveyed to determine the backfill volume and to ensure proper drainage.

6.1.7 Required Personnel

During excavation activities, all URS and subcontractor personnel who are working in the intrusive EZ will, at a minimum, meet the Hazardous Waste Operations and Emergency Response training requirements.

6.1.8 Heavy Equipment Requirements

Heavy equipment will have enclosed cabs to minimize the potential for exposure to contaminated media. Haul vehicles will have all required placarding, licensing (including commercial driver's license), and insurance for the transport of excavated soil. Anticipated heavy equipment and haul vehicle descriptions are provided below:

- Excavators
- Front-end loaders
- Haul vehicles for transportation; may be 15- or 20-ton and may be end- or side-dump with tarp coverings.
- Water truck

6.1.9 Removal Area Traffic Control

Operation of heavy equipment and haul vehicles during field activities can present physical hazards to project personnel, base personnel, and the public that may be present in the vicinity of the work areas. Traffic control measures will be implemented to protect people from these hazards.

Work areas will be clearly established using highly visible barriers and/or signage. Nonessential project personnel, members of the public, and base personnel will not be allowed to enter the work areas when heavy equipment is in operation. All access and egress points will be clearly established where haul vehicles enter or leave the work areas. In areas of heavy traffic, additional control measures (e.g., signage and traffic cones) may be used to ensure traffic safety. All traffic control measures will be approved by military Command prior to implementation.

6.2 EXCAVATION, TRANSPORTATION, AND DISPOSAL ACTIVITIES

6.2.1 Excavation

Excavators or similar equipment will be used to remove soil with contaminant concentrations that exceed the NMED screening criteria. If temporary on-site stockpiling of excavated soil is required, stockpiles will be placed on plastic sheeting pending loading into trucks for off-site disposal.

Documentation of all excavation activities will include, but is not limited to:

- Completing the Daily Tail Gate Safety Brief forms and recording the information into the field logbook prior to the start of work activities
- The start and end times of any intrusive work completed
- Any site observations or the arrival of any visitors on site
- The approximate amount of soil removed will be recorded in the field logbook at the end of the work shift

6.2.2 Transportation

Transportation haul routes (**Figure 5-2**) will be approved by the Cannon AFB prior to the start of field activities. The anticipated haul routes specified will be provided to all equipment operators and truck drivers. Haul route conditions will be documented before waste transport begins and maintenance of the routes on Cannon AFB property will be the responsibility of URS throughout the duration of the project. Once the haul vehicles leave Cannon AFB, any spillage that may occur during transportation will be cleaned up immediately. Haul routes will be maintained for the duration of the project.

Haul vehicles will be properly placarded, licensed, and insured, for the transportation of soil. When transporting contaminated soil, transport vehicles will be fitted with a tarp or other covering device to prevent dispersal of material during transport. To prevent material from

spilling from the vehicle, each vehicle will be inspected prior to departure from Cannon AFB to ensure the material is properly contained within the vehicle. This will include inspecting around the end-dump gates, belly dump openings, and inspecting the tarp or other covering. Inspections will be recorded in the field logbook.

6.2.3 Off-Site Disposal

All excavated soil will be transported and disposed of at licensed solid waste landfill(s). Solid (nonhazardous) waste will be sent to a Subtitle D solid waste disposal facility (to be identified); if the soil is found to be hazardous, it will be sent to a Subtitle C solid waste disposal facility (to be identified).

6.2.4 Decontamination of Excavation Equipment and Haul Vehicles

During soil transportation activities, procedures will be implemented to minimize the need for decontamination of excavation equipment and haul vehicles. It is anticipated that all haul vehicle traffic will use, as much as possible, existing roads. This will help limit the amount of haul vehicle decontamination required. URS will visually inspect haul vehicles after loading and prior to exiting the CRZ. A decontamination area will be established in the vicinity of the site.

6.2.4.1 Dry Decontamination

Prior to leaving a site, each loaded haul vehicle will be “dry” decontaminated to remove visible soil accumulation from the vehicle body, undercarriage, and tires so that no soil is tracked onto roadways. To accommodate this, temporary dry decontamination pads will be constructed at each site for vehicle decontamination. Each pad will be contained in the CRZ, adjacent to the EZ. Dry decontamination will include the use of a broom and scraping device, or similar, to remove visible contamination. Contaminated material removed from vehicles will be swept up and placed into the haul vehicle. Dust masks may be worn by decontamination personnel should safety personnel deem it prudent based on observed conditions. Alternatively if exposure to excessive dust is observed at the dry decontamination station, personnel may utilize a wet decontamination method.

6.2.4.2 Wet Decontamination

If haul vehicles become caked with excess contaminated soil, then a “wet” method of decontamination will be employed. Wet decontamination activities will be performed within the CRZ. Source water will be obtained from a fire hydrant (potable water) located at Cannon AFB. Wet decontamination will include the use of a high-pressure washer and may include the use of stiff bristled brushes. Personnel performing wet decontamination will don the appropriate PPE (Tyvek, gloves, goggles, etc.) as specified in the SSHP. It is anticipated that haul vehicle tires will be the only portion of the vehicle that may require wet decontamination. Decontamination fluids will be containerized and disposed of in accordance with applicable regulations.

6.3 SOIL SAMPLING PLAN

Soil samples will be collected using clean stainless steel sampling equipment or single use TerraCore® samplers (VOCs only). Sampling equipment includes stainless steel hand trowels, spoons, and bowls. Vegetation or surface debris such as rock will be cleared away as necessary prior to sample collection. A clean, decontaminated hand trowel will be used to collect soil and place it in the stainless steel bowl. The stainless steel spoon will be used to homogenize the soil prior to filling the sample containers. If additional soil is needed to fill the samples containers, the sample area will be expanded without increasing depth.

6.3.1 Types of Soil Sampling

The following types of soil samples will be collected as part of the ACMWP field activities:

6.3.1.1 Waste Characterization

Prior to excavation, waste soil characterization sampling and off-site laboratory analysis will be used to determine the waste classification (federal hazardous [Subtitle C], or nonhazardous [Subtitle D]) of excavated soil. Sampling and analysis will be completed per the requirements of the RCRA Part 261 (40 Code of Federal Regulations 261) which establishes standards for generators of solid and hazardous waste. Waste characterization soil samples will be collected within the planned excavation areas and will be representative of the material being excavated. Final waste characterization soil sample depths and quantities will be determined based on the horizontal and vertical extent of soil to be removed as described in the site-specific field activities (**Section 5.2.2**).

6.3.1.2 Confirmation Sampling

Following the removal of contaminated soil, discrete soil samples will be collected from 0 to 0.5 feet bgs from the base of the excavation (one per 400 square feet) to confirm that soil concentrations exceeding NMED residential screening criteria have been removed. Additionally, discrete soil samples will be collected in the unexcavated area of the perimeter sidewalls of the excavation at one per 20 linear feet, assuming an irregular-shaped excavation.

Proposed confirmation sample locations will be marked with flags following confirmation sample collection and surveyed using GPS equipment or a licensed New Mexico surveying contractor.

Excavation areas will be backfilled with clean soil when confirmation soil concentrations are less than the NMED residential SSL. If confirmation soil concentrations are greater than the NMED residential SSL, additional soil removal and confirmation sampling will be completed until contaminant concentrations in remaining soil are below the NMED residential SSL.

6.3.1.3 Backfill Source Sampling

Upon receipt that the confirmation samples have not exceeded the NMED screening criteria, backfill of the excavated area will be completed using clean, imported soil. Imported soil will be sampled for VOCs, SVOCs, and metals prior to use. Analytical results for backfill soils will be compared to NMED residential SSLs. Soils that contain no VOCs, SVOCs, or metals above NMED residential SSLs will be considered clean and will be utilized as backfill at SW127.

6.3.2 Soil Analytical Sample Collection

Soil sample collection will begin by recording the sample location on a site map and in the field logbook. Once the sample has been collected at the specified depths the soil will be classified. The sample will be handled quickly, especially if it is loose or crumbling, to avoid losing volatile contaminants. VOCs (collected only for backfill soils) will be collected using TerraCore® samplers. The TerraCore® sampler is a single use device and cannot be cleaned and/or reused. The TerraCore® sampler is designed to sample and momentarily hold soil before dispensing soil into the sample container. Three separate 5-gram soil plugs from the TerraCore® sampler will be placed in three separate pre-weighed volatile organic analysis (VOA) vials. One VOA will contain methanol, and the other two VOA vials will contain organic-free water. VOC samples will be collected in place to minimize the potential for a disturbed sample. Soil to be analyzed for other parameters will be collected as a discrete (grab) sample. For VOC and SVOC analysis, laboratory samples will be placed on ice in a cooler immediately following collection, in order to attain a temperature of 4°C.

All soil samples will be submitted to EMAX, 1835 West 205th Street, Torrance, California via FedEx. Soil samples submitted to EMAX will be extracted and analyzed for analytical parameters within maximum hold times. A complete list of appropriate sample containers, preservation and holding times for each analyte is provided in the Uniform Federal Policy-Quality Assurance Project Plan (UFP–QAPP) (URS 2014b), Worksheets 19 and 30.

6.3.3 Sample Documentation, Identification, Labeling and Handling

The following sections briefly describe sample management procedures to be used for the work described in this plan. Documentation of observations and data acquired in the field will be of sufficient detail to provide information on the sample acquisition and provide a permanent record of field activities. The observations and data will be recorded with waterproof ink in a permanently bound, weatherproof field logbook with consecutively numbered pages.

6.3.3.1 Field Logbook Modifications and Signatures

Sufficient information will be recorded to allow the sampling event to be reconstructed without relying on the collector's memory. The person making the entry will sign each page in the field book at the end of the day. Changes or deletions in the field logbook will be lined out with a single strike mark and will remain legible. Changes/entries made in another person's field book will be signed and dated.

6.3.3.2 Sample Collection Field Sheets

As part of the field documentation, SCFSs will be generated for all soil samples collected for this project. The SCFS will summarize the sample collection data (i.e., parameters), sample identification, time and date collected, container type(s), QA/QC samples, physical description, and name of sampler(s). A copy of the soil SCFS for this project is provided in **Appendix A**.

6.3.3.3 Sample Chain of Custody

During field sampling activities, sample tracking will be maintained from the time the samples are collected until the time at which the laboratory data are issued. Initial information concerning collection of the sample(s) will be recorded in the field logbook as described above. Information on the custody, transfer, handling, and shipping of samples to an off-site laboratory will be recorded on a chain-of-custody (CoC) form.

The sampler will be responsible for initiating and filling out the CoC form. The person responsible for packaging samples for delivery to the off-site laboratory will sign the CoC form, retain the last copy of the three-part form, document the method of shipment, and send the original and the second copy of the CoC form with the samples. A custody seal will be placed on each sample cooler prior to transfer of the cooler to the delivery company (i.e., FedEx) or the laboratory. Upon receipt of the cooler by the laboratory, the person receiving the samples will sign the CoC form and return the second copy. A copy of the CoC for this project is provided in **Appendix A**.

6.3.3.4 Sample Identification

Samples collected during site activities will have discrete sample identification numbers. These numbers are necessary to identify and track each of the samples collected for analysis during this project. In addition, the sample identification numbers will be used to identify and retrieve the analytical results received from the laboratory.

Each sample will be identified by a unique code that generally indicates the site, sampling location, sample type, and either sampling event or sampling depth. The sample designation for each analytical and QA/QC sample is a three-letter and seven-digit/letter unique identification (CA###-YYYY-ZZZ). "CA-###" is the facility and site identifier, with "CA" for Cannon AFB and "###" representing the number identifying this site. The sample designation for SW127 will start as "CA127-."

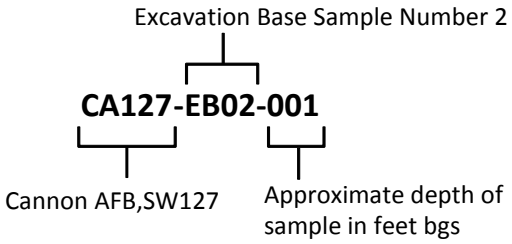
The next four characters (YYYY) identify the sampling method and specific sampled locations. The first two characters will present the method of sampling. "SW" for side wall or "EB" for excavation base will be used as the first two characters. The last two characters will identify the sample location. The second excavation base sample at SW127 would be identified as "SW127-EB02-."

The last set of three numbers (ZZZ) is the sample identifier. The first number indicates the type of sample:

- 0 for a soil (analytical) sample
- 1 for a soil Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- 2 for a field duplicate

The last two numbers correspond to the depth of the sample in feet bgs for all soil samples. Multiple soil samples may be collected from the same boring. The last two digits differentiate among these multiple samples and represent the approximate depth (rounded up to the nearest foot) at which the sample was collected.

The following is an example of an identification number:



6.3.3.5 Sample Labeling and Handling

All sample labels will be filled out using waterproof ink, and each label will contain the following information: sampler's initials, project name, sample identification, date and time of sample collection, method of preservation used, and sample matrix. The analytical laboratory will provide commercially cleaned containers. After collection, samples will be labeled as described above and placed into iced coolers. Coolers will be sealed with a custody seal and shipped to the contract laboratory. CoC forms will be maintained to document sample handling between the field and the laboratory. UFP-QAPP Worksheets 19 and 30 (URS 2014b) (included in **Appendix B**) summarize the appropriate sample containers, preservation, and holding times for the planned samples to be analyzed by the designated laboratory.

6.3.4 Quality Assurance/Quality Control Samples

QA/QC samples will be collected according to the following schedule, as presented in the project UFP-QAPP (URS 2014b):

- QC blind field duplicates will be collected at a frequency of about 10 percent of the total field samples. These samples will be submitted to the contract laboratory.
- MS/MSD field samples will be collected at a frequency of about 5 percent and will be submitted to the contract laboratory.

6.3.5 Sampling Equipment and Personnel Decontamination

The overall objective of a multimedia sampling program is to obtain samples that accurately depict the chemical, physical, and/or biological conditions at the sampling site. Extraneous contaminants can be brought onto the sampling location and/or introduced into the medium of interest during the sampling program (e.g. using sampling equipment that is not properly or fully decontaminated). Trace quantities of contaminants can consequently be captured in a sample and lead to false positive analytical results and, ultimately, to an incorrect assessment of the contaminant conditions associated with the site. Decontamination of sampling equipment (e.g., all non-disposable equipment that will come in direct contact with samples) and field support equipment (e.g., drill rigs, vehicles) is, therefore, required prior to, between, and after uses at Cannon AFB to ensure that sampling cross-contamination is prevented, and that on-site contaminants are not carried off-site. The following sections present decontamination procedures.

6.3.5.1 Sampling Equipment

The following steps will be used to decontaminate sampling equipment:

- Personnel will dress in suitable safety equipment to reduce personal exposure.
- Gross contamination on equipment will be scraped off at the sampling or construction site.
- Equipment that cannot be damaged by water will be placed in a wash tub containing Alconox or low-sudsing non-phosphate detergent along with potable water and scrubbed with a bristle brush or similar utensil. Equipment will be rinsed with tap water in a second wash tub followed by a de-ionized water rinse.
- Equipment that may be damaged by water will be carefully wiped clean using a sponge and detergent water and rinsed with de-ionized water. Care will be taken to prevent equipment damage.

Following decontamination, equipment will be placed in a clean area or on clean plastic sheeting to prevent contact with contaminated soil. If the equipment is not used immediately after decontamination, the equipment will be covered or wrapped in plastic sheeting, foil, or heavy-duty trash bags to minimize potential contact with contaminants.

6.3.5.2 Decontamination Solutions

A decontamination solution should be capable of removing, or converting to a harmless substance, the contaminant of concern without harming the object being decontaminated. The preferred solution is a mixture of detergent and water, which is a relatively safe option compared to chemical decontaminants. A solution recommended for decontaminating consists of 1 to 1.5 tablespoons of Alconox per gallon of warm water. Skin surfaces will be decontaminated by washing with hand soap and water. The decontamination solution will be changed when it no longer foams or when it becomes extremely dirty. Rinse water will be changed when it becomes discolored, begins to foam, or when the decontamination solution cannot be removed.

6.3.5.3 Responsible Authority

Decontamination operations at each hazardous waste site will be supervised by the SSO. The SSO is responsible for ensuring that all personnel follow decontamination procedures and that all contaminated equipment is adequately decontaminated. The SSO is also responsible for maintaining the decontamination zone and managing the wastes generated from the decontamination process.

Site activities will be conducted with the general goal of preventing the contamination of people and equipment. Using remote sampling techniques, bagging monitoring instruments, avoiding contact with obvious contamination, and employing dust suppression methods would reduce the probability of contamination and, therefore, reduce the need and extent of decontamination. However, some type of decontamination will always be required on site.

OSHA requires that proper PPE be worn when operating steam or pressure washing equipment. A rain suit, boots, hard hat, and a face shield are recommended. All personnel must be kept out of the path of steam or water spray.

6.3.5.4 Documentation

Sampling personnel will be responsible for documenting the decontamination of sampling equipment. The documentation will be recorded with waterproof ink in the sampler's field notebook with consecutively numbered pages. The information entered in the field book concerning decontamination should include the following:

- Decontamination personnel
- Date and start and end times
- Decontamination observations
- Weather conditions
- Investigation-derived waste handling

Personnel decontamination is not anticipated due to the nature of the planned excavation and soil sample collection activities. It is anticipated that field sampling members will don appropriate PPE during surface soil sampling activities. Level D PPE is anticipated during this investigation, which includes hard hat, safety glasses, steel-toed boots, ear protection, and work gloves and/or chemical-resistant gloves.

6.4 BACKFILL AND RESTORATION

This section describes the backfill and restoration activities for the corrective action, including backfill and compaction, final grading, and restoration. Documentation of each backfill and restoration activity will be recorded in the field logbook. Backfilling and compaction activities will be completed using the heavy equipment described in **Section 6.1.8**.

6.4.1 Backfill and Compaction

Soil to be used as backfill will be sampled as described in **Section 6.3.1.3** prior to being brought on site. The fill material will be placed in loose lifts no more than 12 inches in thickness. Each lift (except the top lift) will be compacted with multiple passes of heavy equipment before an overlaying lift is placed.

6.4.2 Final Grading

All removal areas will be uniformly smooth-graded. The finished surface will be reasonably smooth, compacted, and free from irregular surface changes. The degree of finish will be that ordinarily obtainable from a blade-grader. The final grades will provide positive drainage of surface water across the entire site with no closed drainage areas that allow surface water to pond.

6.4.3 Restoration

Following backfill and grading activities, the surfaces of the excavation area will be restored to preexisting conditions. Restoration activities will include re-vegetating the excavated area following the re-grading of the site. Documentation of restoration activities will be provided in the ACMCR.

6.5 DEMOBILIZATION

Demobilization activities will include, but not be limited to the following:

- Support facilities will be removed
- Temporary storm water and erosion control measures will be removed after upstream areas are stabilized.
- Temporary construction roads, ramps, and decontamination facilities will be removed.

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URS Corp.

CHAIN OF CUSTODY RECORD

12120 Shamrock Plaza, Suite 300, Omaha, NE 68154 (402) 334-8181 Fax (402) 334-1984

Project Name	Project No.
Project Location	Project Manager
Sampler(s)	

Analytical Parameters

Sample		Type		Sample Identification	Matrix	Containers		Remarks
Date	Time	Comp.	Grab			No.	Type	

Signatures	Date	Time	Shipping Details	Special Instructions
Relinquished by:			Method of Shipment	
Received by:			Airbill No.	
Relinquished by:			Lab Address	
Received for Laboratory by:				

Custody.frm/rrm

White copy - Laboratory Yellow copy - Laboratory Pink copy - URS

No. 150000

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: _____ PROJECT NO. _____

SAMPLE NO. _____ BORING NO. _____

DATE/TIME COLLECTED: _____ PERSONNEL: _____

SAMPLE METHOD / DEPTH: _____ _____

SAMPLE MEDIA: SOIL SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES NO SPLIT SAMPLE NO. _____

SAMPLE QC DUPLICATE: YES NO DUPLICATE SAMPLE NO. _____

MS/MSD REQUESTED: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

OVA MEASUREMENTS

Background _____

Breathing zone _____

Boring _____

Headspace _____

SAMPLE DESCRIPTION

DEPTH:	DESCRIPTION:

GENERAL COMMENTS

_____

_____

_____

QAPP Worksheet #15 (UFP-QAPP Manual Section 2.8.1) -- Reference Limits and Evaluation Table

Matrix: Soil
Analytical Group: SVOC
Concentration Level: Low

Analyte	CAS Number	Residential Human Health Project Action Limit (mg/kg)	Residential Human Health Project Action Limit Reference	Soil Project Quantitation Limit Goal (mg/kg)	Achievable Laboratory Limits[1]		
					Soil		
					DLs (mg/kg)	LODs (mg/kg)	LOQs (mg/kg)
1,2,4-Trichlorobenzene	120-82-1	7.30E+01	NMED	3.33E-01	2.37E-03	6.60E-03	3.33E-01
1,2-Dichlorobenzene	95-50-1	2.31E+03	NMED	3.33E-01	2.14E-03	6.60E-03	3.33E-01
1,3-Dichlorobenzene	541-73-1	--	--	3.33E-01	1.98E-03	6.60E-03	3.33E-01
1,4-Dichlorobenzene	106-46-7	3.17E+01	NMED	3.33E-01	2.11E-03	6.60E-03	3.33E-01
2,4,5-Trichlorophenol	95-95-4	6.11E+03	NMED	3.33E-01	3.25E-02	3.30E-02	3.33E-01
2,4,6-Trichlorophenol	88-06-2	6.11E+01	NMED	3.33E-01	1.96E-03	6.60E-03	3.33E-01
2,4-Dichlorophenol	120-83-2	1.83E+02	NMED	**3.33E-01**	2.40E-03	6.60E-03	3.33E-01
2,4-Dimethylphenol	105-67-9	1.22E+03	NMED	3.33E-01	3.52E-02	3.30E-02	3.33E-01
2,4-Dinitrophenol	51-28-5	1.22E+02	NMED	6.67E-01	3.78E-02	6.60E-02	3.33E-01
2,4-Dinitrotoluene	121-14-2	1.57E+01	NMED	3.33E-01	2.38E-03	6.60E-03	3.33E-01
2,6-Dinitrotoluene	606-20-2	6.11E+01	NMED	3.33E-01	2.11E-03	6.60E-03	3.33E-01
2-Chloronaphthalene	91-58-7	6.26E+03	NMED	3.30E-02	2.45E-03	6.60E-03	3.30E-02
2-Chlorophenol	95-57-8	3.91E+02	NMED	3.33E-01	1.84E-03	6.60E-03	3.33E-01
2-Methylnaphthalene	91-57-6	3.10E+02	RSL	3.30E-02	2.44E-03	6.60E-03	3.30E-02
2-Methylphenol	95-48-7	3.10E+03	RSL	3.33E-01	2.80E-03	6.60E-03	3.33E-01
2-Nitroaniline	88-74-4	6.10E+02	RSL	3.33E-01	2.73E-03	6.60E-03	3.33E-01
2-Nitrophenol	88-75-5	--	--	3.33E-01	2.03E-03	6.60E-03	3.33E-01
4-Nitrophenol	100-02-7	--	--	**6.67E-01**	3.24E-03	6.60E-03	3.33E-01
3 & 4-Methylphenol	106-44-5	3.10E+02	RSL	3.33E-01	2.37E-03	6.60E-03	3.33E-01

QAPP Worksheet #15 (UFP-QAPP Manual Section 2.8.1) -- Reference Limits and Evaluation Table

Matrix: Soil
Analytical Group: SVOC
Concentration Level: Low

Analyte	CAS Number	Residential Human Health Project Action Limit (mg/kg)	Residential Human Health Project Action Limit Reference	Soil Project Quantitation Limit Goal (mg/kg)	Achievable Laboratory Limits[1]		
					Soil		
					DLs (mg/kg)	LODs (mg/kg)	LOQs (mg/kg)
3-Nitroaniline	99-09-2	--	--	3.33E-01	2.80E-03	6.60E-03	3.33E-01
4,6-Dinitro-2-methylphenol	534-52-1	4.89E+00	NMED	**6.67E-01**	3.73E-02	3.30E-02	3.33E-01
4-Bromophenyl-phenyl ether	101-55-3	--	--	3.33E-01	2.23E-03	6.60E-03	3.33E-01
4-Chloro-3-methylphenol	59-50-7	6.10E+03	RSL	3.33E-01	2.37E-03	6.60E-03	3.33E-01
4-Chlorophenyl-phenyl ether	7005-72-3	--	--	3.33E-01	2.41E-03	6.60E-03	3.33E-01
4-Nitroaniline	100-01-6	2.40E+01	RSL	3.33E-01	3.24E-03	6.60E-03	3.33E-01
Acenaphthene	83-32-9	3.44E+03	NMED	3.30E-02	2.59E-03	6.60E-03	3.30E-02
Acenaphthylene	208-96-8	--	--	3.30E-02	1.99E-03	6.60E-03	3.30E-02
Anthracene	120-12-7	1.72E+04	NMED	3.30E-02	2.09E-03	6.60E-03	3.30E-02
Benzo(a)anthracene	56-55-3	1.48E+00	NMED	3.30E-02	2.21E-03	6.60E-03	3.30E-02
Benzo(a)pyrene	50-32-8	1.48E-01	NMED	3.30E-02	1.88E-03	6.60E-03	3.30E-02
Benzo(b)fluoranthene	205-99-2	1.48E+00	NMED	3.30E-02	2.12E-03	6.60E-03	3.30E-02
Benzo(g,h,i)perylene	191-24-2	--	--	3.30E-02	1.58E-03	6.60E-03	3.30E-02
Benzo(k)fluoranthene	207-08-9	1.48E+01	NMED	3.30E-02	2.18E-03	6.60E-03	3.30E-02
Benzyl alcohol	100-51-6	6.10E+03	RSL	3.33E-01	2.45E-03	6.60E-03	3.33E-01
Bis(2-chloroethoxy)methane	111-91-1	1.80E+02	RSL	3.33E-01	2.63E-03	6.60E-03	3.33E-01
Bis(2-chloroethyl)ether	111-44-4	2.68E+00	NMED	3.33E-01	2.52E-03	6.60E-03	3.33E-01
Bis(2-chloroisopropyl)ether	108-60-1	9.15E+01	NMED	3.33E-01	2.76E-03	6.60E-03	3.33E-01
Bis(2-ethylhexyl)phthalate	117-81-7	3.47E+02	NMED	3.33E-01	1.65E-03	6.60E-03	3.33E-01

QAPP Worksheet #15 (UFP-QAPP Manual Section 2.8.1) -- Reference Limits and Evaluation Table

Matrix: Soil
Analytical Group: SVOC
Concentration Level: Low

Analyte	CAS Number	Residential Human Health Project Action Limit (mg/kg)	Residential Human Health Project Action Limit Reference	Soil Project Quantitation Limit Goal (mg/kg)	Achievable Laboratory Limits[1]		
					Soil		
					DLs (mg/kg)	LODs (mg/kg)	LOQs (mg/kg)
Butylbenzylphthalate	85-68-7	2.60E+02	RSL	3.33E-01	2.00E-03	6.60E-03	3.33E-01
Carbazole	86-74-8	--	--	3.33E-01	2.13E-03	6.60E-03	3.33E-01
Chrysene	218-01-9	1.48E+02	NMED	3.30E-02	2.36E-03	6.60E-03	3.30E-02
Di-n-butylphthalate	84-74-2	6.11E+03	NMED	3.33E-01	2.75E-03	6.60E-03	3.33E-01
Di-n-octylphthalate	117-84-0	--	--	3.33E-01	3.06E-03	6.60E-03	3.33E-01
Dibenz(a,h)anthracene	53-70-3	1.48E-01	NMED	3.30E-02	1.79E-03	6.60E-03	3.30E-02
Dibenzofuran	132-64-9	7.80E+01	RSL	3.33E-01	1.98E-03	6.60E-03	3.33E-01
Diethylphthalate	84-66-2	4.89E+04	NMED	3.33E-01	1.78E-03	6.60E-03	3.33E-01
Dimethylphthalate	131-11-3	6.11E+05	NMED	3.33E-01	2.27E-03	6.60E-03	3.33E-01
Fluoranthene	206-44-0	2.29E+03	NMED	3.30E-02	1.78E-03	6.60E-03	3.30E-02
Fluorene	86-73-7	2.29E+03	NMED	3.30E-02	1.69E-03	6.60E-03	3.30E-02
Hexachlorobenzene	118-74-1	3.04E+00	NMED	3.33E-01	2.00E-03	6.60E-03	3.33E-01
Hexachlorobutadiene	87-68-3	6.20E+00	RSL	3.33E-01	4.21E-03	6.60E-03	3.33E-01
Hexachloroethane	67-72-1	4.28E+01	NMED	3.33E-01	3.47E-02	3.30E-02	3.33E-01
Indeno(1,2,3-cd)pyrene	193-39-5	1.48E+00	NMED	3.30E-02	1.58E-03	6.60E-03	3.30E-02
Isophorone	78-59-1	5.12E+03	NMED	3.33E-01	2.20E-03	6.60E-03	3.33E-01
N-Nitroso-di-n-propylamine	621-64-7	6.90E-02	RSL	3.33E-01	2.19E-03	6.60E-03	3.33E-01
N-Nitrosodimethylamine	62-75-9	2.26E-02	NMED	3.33E-01	2.42E-03	6.60E-03	3.33E-01
N-Nitrosodiphenylamine	86-30-6	9.93E+02	NMED	3.33E-01	2.84E-03	6.60E-03	3.33E-01

QAPP Worksheet #15 (UFP-QAPP Manual Section 2.8.1) -- Reference Limits and Evaluation Table

Matrix: Soil
Analytical Group: SVOC
Concentration Level: Low

Analyte	CAS Number	Residential Human Health Project Action Limit (mg/kg)	Residential Human Health Project Action Limit Reference	Soil Project Quantitation Limit Goal (mg/kg)	Achievable Laboratory Limits[1]		
					Soil		
					DLs (mg/kg)	LODs (mg/kg)	LOQs (mg/kg)
Naphthalene	91-20-3	4.30E+01	NMED	3.30E-02	1.92E-03	6.60E-03	3.30E-02
Nitrobenzene	98-95-3	5.35E+01	NMED	3.33E-01	2.42E-03	6.60E-03	3.33E-01
Pentachlorophenol	87-86-5	8.94E+00	NMED	**6.67E-01**	2.64E-02	3.30E-02	3.33E-01
Phenanthrene	85-01-8	1.83E+03	NMED	3.30E-02	1.80E-03	6.60E-03	3.30E-02
Phenol	108-95-2	1.83E+04	NMED	3.33E-01	1.86E-03	6.60E-03	3.33E-01
Pyrene	129-00-0	1.72E+03	NMED	3.30E-02	1.85E-03	6.60E-03	3.30E-02

[1] Achievable DLs, LODs and LOQs are limits that an individual laboratory can achieve when performing a specific analytical method.
NMED Hazardous Waste Bureau and Groundwater Quality Bureau Voluntary Remediation Program, Risk Assessment Guidance for Site Investigations and Remediation, Soil Screening Levels, Appendix A, June 2012.
The PQLs listed indicate the least conservative value between ESC and EMAX and PQLs in bold indicate those that are elevated from those listed in the Final UFP-QAPP.
--- = No NMED or RSL action level
CAS = Chemical Abstract Service
DL = Detection Limit
LOD = Limit of Detection
LOQ = Limit of Quantitation
mg/kg = milligram per kilogram
NMED = New Mexico Environment Department
RSL = United States Environmental Protection Agency Regional Screening Levels, November 2013
SVOC = semivolatile organic compound

QAPP Worksheet #19 & 30 (UFP-QAPP Manual Section 3.1.2.2) -- Sample Containers, Preservation, and Hold Times

Laboratory (Name, sample receipt address, POC, e-mail, and phone numbers): EMAX Laboratories Inc., 1835 W. 205th Street, Torrance, CA 90501/ Molly Nguyen / MNguyen@emaxlabs.com / (310) 618-8889 ext. 119

Air Analysis Laboratory (Name, sample receipt address, POC, e-mail, and phone numbers): Eurofins Air Toxics, Inc. 180 Blue Ravine Road, Suite B, Folsom, CA 95630 / Brian Whittaker / BrianWhittaker@eurofinsUS.com / (916) 985-1000

List any required accreditations/certifications: DoD ELAP certifications are listed below and are located in Attachment C.

Sample Delivery Method: Fed Ex

Matrix	Analytical Group	Method/SOP	Accreditation Expiration Date	Sample Volume	Containers	Preservation Requirements (chemical, temperature, light protected)	Maximum Holding Time (preparation, analysis)	Data Package Turnaround
Aqueous	VOCs	USEPA 5030C and 8260C	EMAX 10 Jan 2017 (ELAP)	40 mL	3 x 40 milliliter (mL) Volatile Organic Analysis (VOA) vial	4 C ± 2°C, three vials with HCl (pH < 2)	14 days	21 Days
Soil	VOCs	USEPA 5035 and 8260C	See above	5 gram	3 x 40 mL preweighed VOA vial	4 °C ± 2°C, two vials sodium bisulfate solution, one vial methanol	48 hours until frozen by laboratory (<7°C), 14 days to analysis	21 Days
Soil	SVOCs	USEPA 3550B and 8270D	See above	8 ounce (oz)	1 x 8oz glass jar	4°C ± 2°C	14 days to extraction, 40 days to analysis.	21 Days
Aqueous	TPH GRO	USEPA 5030C and 8015C	See above	40 mL	3 x 40 mL VOA vial	4 °C ± 2°C, three vials with HCl (pH < 2)	14 days	21 Days
Soil	TPH GRO	USEPA 5035 and 8015C	See above	5 gram	2 x 40 mL preweighed VOA vial	4 °C ± 2°C, two vials methanol	48 hours until frozen by laboratory (<7°C), 14 days to analysis	21 Days

QAPP Worksheet #19 & 30 (UFP-QAPP Manual Section 3.1.2.2) -- Sample Containers, Preservation, and Hold Times

Laboratory (Name, sample receipt address, POC, e-mail, and phone numbers): EMAX Laboratories Inc., 1835 W. 205th Street, Torrance, CA 90501/ Molly Nguyen / MNguyen@emaxlabs.com / (310) 618-8889 ext. 119

Air Analysis Laboratory (Name, sample receipt address, POC, e-mail, and phone numbers): Eurofins Air Toxics, Inc. 180 Blue Ravine Road, Suite B, Folsom, CA 95630 / Brian Whittaker / BrianWhittaker@eurofinsUS.com / (916) 985-1000

List any required accreditations/certifications: DoD ELAP certifications are listed below and are located in Attachment C.

Sample Delivery Method: Fed Ex

Matrix	Analytical Group	Method/SOP	Accreditation Expiration Date	Sample Volume	Containers	Preservation Requirements (chemical, temperature, light protected)	Maximum Holding Time (preparation, analysis)	Data Package Turnaround
Aqueous	TPH DRO/ORO	USEPA 3520C and 8015C	See above	1 L	2 x 1L Amber bottle	4°C ± 2°C	7 days to extraction, 40 days to analysis.	21 Days
Soil	TPH DRO/ORO	USEPA 3550B and 8015C	See above	8 oz	1 x 8oz glass jar	4°C ± 2°C	14 days to extraction, 40 days to analysis.	21 Days
Soil	PCBs	USEPA 3550B and 8082A	See above	8 oz	1 x 8oz glass jar	4°C ± 2°C	14 days to extraction, 40 days to analysis.	21 Days
Soil	Organochlorine Pesticides	USEPA 3550B and 8081A	See above	8 oz	1 x 8oz glass jar	4°C ± 2°C	14 days to extraction, 40 days to analysis.	21 Days
Soil	RCRA 8 Metals	USEPA 3050B, 6010C, and 7471B	See above	8 oz	1 x 8oz glass jar	None (4°C ± 2°C for mercury)	6 months (28 days for mercury)	21 Days
Aqueous	TAL metals	USEPA 3010A, 6010C, and 7470A	See above	500 mL	1 x 500 mL HDPE	4°C ± 2°C, nitric acid, pH<2	6 months (28 days for mercury)	21 Days
Aqueous	Hexavalent chromium	USEPA 7199	See above	250 mL	1 x 250 mL HDPE	4°C ± 2°C, ammonium sulfate solution	28 days	21 Days
Aqueous	Perchlorate	USEPA 6860	See above	125 mL	1 x 125 mL HDPE	4°C ± 2°C	28 days	21 Days

QAPP Worksheet #19 & 30 (UFP-QAPP Manual Section 3.1.2.2) -- Sample Containers, Preservation, and Hold Times

Laboratory (Name, sample receipt address, POC, e-mail, and phone numbers): EMAX Laboratories Inc., 1835 W. 205th Street, Torrance, CA 90501/ Molly Nguyen / MNguyen@emaxlabs.com / (310) 618-8889 ext. 119

Air Analysis Laboratory (Name, sample receipt address, POC, e-mail, and phone numbers): Eurofins Air Toxics, Inc. 180 Blue Ravine Road, Suite B, Folsom, CA 95630 / Brian Whittaker / BrianWhittaker@eurofinsUS.com / (916) 985-1000

List any required accreditations/certifications: DoD ELAP certifications are listed below and are located in Attachment C.

Sample Delivery Method: Fed Ex

Matrix	Analytical Group	Method/SOP	Accreditation Expiration Date	Sample Volume	Containers	Preservation Requirements (chemical, temperature, light protected)	Maximum Holding Time (preparation, analysis)	Data Package Turnaround
Aqueous	Chloride, Sulfate, Nitrate, and Nitrite	USEPA 9056	See above	250 mL	1 x 250 mL HDPE	4°C ± 2°C	28 days, 48 hours for nitrate	21 Days
Aqueous	Ammonia	SM 4500 NH3	See above	250mL	2 x 250mL Amber	4°C ± 2°C, sulfuric acid (H_2SO_4) pH<2	28 days	21 Days
Aqueous	TOC	USEPA 9060A	See above	250mL	2 x 250mL Amber	4°C ± 2°C, sulfuric acid (H_2SO_4) pH<2	28 days	21 Days
Soil	TOC	Walkley Black	See above	8 oz	1 x 8oz glass jar	4°C ± 2°C	28 days	21 days
Air	VOCs and GRO	TO-15 and TO-3	Eurofins 30 Nov 2014 (ELAP)	6 L	Summa canister	N/A	28 days	21 days

°C = degrees Celsius
DoD ELAP = Department of Defense Environmental Laboratory Accreditation Program
HCL = hydrochloric acid
HDPE = high density polyethylene
L = liter
mL = milliliter
N/A = not applicable
DRO = diesel range organics
oz = ounces
ORO = oil range organics
PCB = polychlorinated biphenyls
RCRA = Resource Conservation and Recovery Act
SOP = Standard Operating Procedure
TAL = Target Analyte List
TOC = total organic carbon
TPH = total petroleum hydrocarbons
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound