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

7 Oct 13

Colonel Heather L. Buono
Commander, 27 SOMSG
110 E Alison Avenue Suite 1098
Cannon AFB NM 88103

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NMED
Hazardous Waste Bureau

Mr. Daniel Comeau
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East Bldg 1
Santa Fe NM 87505-6063

Dear Mr. Comeau

Attached is the *"Corrective Action Complete Proposals for Two Solid Waste Management Units and One Area of Concern, Cannon Air Force Base"*. If you have any questions regarding this submittal, please contact Mr. Ron Lancaster, Chief, Installation Management at (575) 784-1146.

Sincerely,

Heather L. Buono

HEATHER L. BUONO, Colonel, USAF

Attachment:
Corrective Action Complete Proposals Two Solid Waste Management Units and One Area of Concern Cannon Air Force Base

cc:
Environmental Protection Agency, Region VI, Ms. Wendy Jacques w/o Attachment

Corrective Action Complete Proposals Two Solid Waste Management Units And One Area of Concern
(SWMU 91, SWMU 103, and AOC A)

CANNON AIR FORCE BASE
NEW MEXICO

September 2013

Air Force Special Operations Command

27th Special Operations Mission Support Group

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List of Acronyms

µg/kg	microgram per kilogram
AFB	Air Force Base
AOC	Area of Concern
AST	aboveground storage tank
bgs	below ground surface
BRA	Baseline Risk Assessment
CAC	Corrective Action Complete
DAF	Dilution Attenuation Factor
DRO	diesel range organic
EPA	U.S. Environmental Protection Agency
ERA	Ecological Risk Assessment
ESV	Ecological Screening Value
ft	feet/foot
GRO	gasoline range organic
HQ	Hazard quotient
ID	Identification
HSWA	Hazardous and Solid Waste Amendments
IRP	Installation Restoration Program
JP-4	jet propellant grade 4
LANL	Los Alamos National Laboratories
MCL	Maximum Contaminant Level
MEK	methyl ethyl ketone
mg/kg	milligram per kilogram
mg/L	milligram per liter
MOGAS	Motor Gasoline
msl	mean sea level
NFA	No Further Action
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NMWQCC	New Mexico Water Quality Control Commission

No.	number
NOD	Notice of Deficiency
NPDES	National Pollution Discharge Elimination System
ORO	oil range organic
OWS	oil/water separator
PCB	polychlorinated biphenyl
PID	photoionization detector
PR/VSI	Preliminary Review/Visual Site Inspection
Radian	Radian Corporation, LLC
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
RL	Reporting Limit
SSL	soil screening level
SVOC	semivolatile organic compound
SWMU	Solid Waste Management Unit
TAL	target analyte list
TEQ	Toxic Equivalents
TPH	total petroleum hydrocarbon
TRPH	total recoverable petroleum hydrocarbon
U.S.	United States
URS	URS Group, Inc.
VOC	volatile organic compound
Woodward-Clyde	Woodward-Clyde Consultants, Inc.
WQS	Water Quality Standard
WWTP	Wastewater Treatment Plant

CORRECTIVE ACTION COMPLETE PROPOSALS

Introduction

This Corrective Action Complete (CAC) Proposal has been prepared by Shaw Environmental & Infrastructure, Inc., a CB&I Company, for the U.S. Air Force Civil Engineer Center and Cannon Air Force Base (AFB) under Contract FA8903-09-D-8580, Task Order 0013, Modification 01. Information presented in this CAC Proposal are compiled from previous investigations performed on three Defense Environmental Restoration Program, Installation Restoration Program (IRP) sites, located on Cannon AFB, New Mexico.

The United States (U.S.) Air Force and Cannon AFB (Permittee) is requesting a change in status from Corrective Action Required to CAC for two Solid Waste Management Units (SWMUs) and one Area of Concern (AOC) from the New Mexico Environment Department (NMED) in accordance with New Mexico Hazardous Waste Act (Section 74-4-1 et seq., New Mexico Statutes Annotated 1978, as amended, 1992) and the New Mexico Hazardous Waste Regulations 20.4.1 New Mexico Administrative Code (NMAC). These two SWMUs and one AOC are listed in the Permittee's Resource Conservation and Recovery Act (RCRA) Part B Permit (NMED, 2003), pursuant to Title 40 Code of Federal Regulations 270.42(c) of the Hazardous and Solid Waste Amendments (HSWA) of 1984 and incorporated by reference into 20.4.1.901 NMAC.

If approved, the Permittee requests NMED to initiate a Class 3 Permit Modification to the Cannon AFB RCRA Permit (Permit) (NMED, 2003). The modification would revise the content of Tables 1 and 2 in Permit Attachment I (NMED, 2003). Permit Attachment I, Table 1 lists the SWMUs and AOCs Requiring Corrective Action; sites for which corrective action may be necessary to characterize and/or remediate past releases of hazardous wastes or hazardous constituents. Permit Attachment I, Table 2 lists SWMUs and AOCs Not Currently Requiring Corrective Action.

The proposed Class 3 Permit Modification would grant CAC without Controls for two SWMUs and one AOC. The following SWMU and AOC would move from Table 1 to Table 2:

- AOC A – Motor Gasoline (MOGAS) Spill Site
- SWMU 91 – Recovered Fuel Tank Number (No.) 5114
- SWMU 103 – Wastewater Playa Lake

The SWMUs 91 and 103 and AOC A are shown on Figure 1. The sites addressed by this document are listed in the following table:

Section C Sub-Section	SWMU/AOC	Description
1	AOC A	MOGAS Spill Site
2	SWMU 91	Recovered Fuel Tank No. 5114
3	SWMU 103	Wastewater Playa Lake

AOC = Area of Concern
MOGAS = Motor Gasoline
No. = Number
SWMU = Solid Waste Management Unit

A. Facility Descriptions

Cannon AFB is located in Curry County, New Mexico, approximately 7 miles west of the city of Clovis (Figure 1). Cannon AFB occupies 4,320 acres, primarily consisting of the airfield and associated operations, maintenance, and support facilities that are located northwest of the airfield. Base support facilities, such as the munitions storage area and current fire department training area, are located south and east of the airfield.

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 [ft] per mile) to the east and southeast. Elevations in the eastern New Mexico portion of the Llano Estacado exceed 4,000 ft above mean sea level (msl). In the vicinity of Cannon AFB, elevations range from 4,250 ft to 4,350 ft above msl.

B. History of Investigation

The United States Environmental Protection Agency (EPA) issued the HSWA Module IV to Cannon AFB's RCRA Operating Permit effective December 17, 1989. The HSWA module required investigation of approximately 130 environmental restoration sites, referred to as "SWMUs" in the permit. In January 1996, NMED received authorization for corrective action under the HSWA and became the administrative authority for this action.

Section C of this document describes the location and history of each SWMU, presents a summary of relevant information from previous site investigations, and provides the basis for determination for proposing CAC without Controls for each unit. Detailed descriptions of the investigative results for each SWMU appear in the original investigative reports and/or administrative records. In some cases, reports and original data were not available for investigations conducted prior to 1996.

References for sources cited in this document are provided in **Section D**.

C. SWMU and AOC Descriptions

The following sections describe the location, history, and land use conditions for each SWMU and AOC. A summary of relevant information from previous investigations and a basis for CAC determination for the three sites are also presented in this section. Historical analytical data has also been compared with 2012 NMED residential and industrial soil screening levels (SSLs), updated in June 2012 (NMED, 2012a). These comparisons can be found in the text, as well as in Tables 1 through 4. Historical analytical results are also compared with the screening levels that were used at the time of the original study, when possible. A site map showing the two SWMUs and one AOC is presented as Figure 1.

C.1 AOC A—MOGAS Spill Site

Location and Description – AOC A

AOC A is located in the northwest portion of Cannon AFB, as shown in Figure 1 and is also known as SS-19. AOC A measures approximately 400 ft by 200 ft. The site is relatively flat and much of it is asphalt-paved with a small drainage swale running to the southeast through a grassy area in the southern portion of the site (Radian, 1986).

History – AOC A

AOC A was the site of two separate spills of MOGAS from two overturned fuel trucks. Both spills occurred in the early 1960s, although an exact date is unknown. The fuel trucks spilled their contents at the present location of Argentia Avenue, across from Facility No. 379, and southeast of the Building 444 (gymnasium), as shown in Figure 1. AOC A was located in an area where fuel trucks leaving the vehicle refueling area adjacent to the vehicle maintenance shop (Facility No. 379) turned over into a ditch on the opposite side of Argentia Avenue. In making the required turn leaving the refueling area, the tractor-trailer fuel trucks attempted to cross the road. Due to a poor connection between the tractor and trailer, the trailers turned over on two separate occasions, spilling MOGAS into the ditch. It was estimated that between 2,000 and 3,000 gallons of MOGAS was spilled during these two instances. No attempts were made to recover the fuel or to excavate and replace contaminated soil at the time of the spill. The fire department reportedly washed down the area after the two spills (CH2M Hill, 1983).

The construction of the gymnasium in 1977 and associated pavement along Argentia Avenue changed the physical features of the spill area. Part of the ditch where the spills occurred is now located beneath pavement and a portion of the area exists as a small depression along the roadside (Radian, 1986).

Current and Anticipated Future Land Use – AOC A

Cannon AFB will remain active for the foreseeable future. Currently, land use at AOC A is classified as industrial. It is anticipated that land use classification will continue to remain industrial in nature at AOC A.

Evaluation of Relevant Information – AOC A

1982 Phase I IRP

In 1982, CH2M Hill performed a Phase I IRP evaluation. CH2M Hill conducted a records search and tour of the installation to identify and fully evaluate suspected problems associated with past hazardous material disposal sites on Cannon AFB. No evidence of significant environmental stress related to hazardous wastes or materials was noted during the site visit (CH2M Hill, 1983). Vegetative and animal species observed on Cannon AFB and in particular, around the spill site (AOC A), appeared healthy. It was determined that AOC A did not pose a significant concern for adverse effects on health or the environment; however, land use restrictions were recommended (CH2M Hill, 1983). No investigative activities were performed as part of the records search.

1985 Phase II, Stage I IRP

Radian conducted a Phase II IRP evaluation in 1985 to determine whether environmental contamination had resulted from waste disposal practices, fuel spills and/or leaks, and fire training activities conducted on Cannon AFB (Radian, 1986). Soil sampling was conducted at AOC A, despite no visual evidence of contaminated soil during the construction of the gymnasium in 1977.

Two boreholes (19A and 19B) were installed at AOC A to a depth of 60 ft below ground surface (bgs) to define the local hydrological setting and to evaluate the environmental impact of the two MOGAS spills (Radian, 1986). Borehole 19A was located in the center of the ditch, and borehole 19B was located on a grassy area approximately 60 ft northwest of 19A (Figure 2). Seven soil samples, 3 from each boring plus one field duplicate, were collected and analyzed for purgeable aromatic compounds (EPA Method 8020/602), purgeable halocarbon compounds (EPA Method 8010/601), oil and grease (EPA Method 413.2), and lead (EPA Method 239.2). Samples from borehole 19A were collected at the 3 to 4, 8 to 9, and 45 to 47 ft bgs depth intervals and samples from borehole 19B were collected at the 0 to 1, 9 to 10, and 57.5 to 59.5 ft bgs depth intervals.

Analytical results from the Phase I IRP are compared to 2012 NMED residential and industrial SSLs (NMED, 2012a) and applicable Cannon AFB background values (Woodward-Clyde, 1997). Table 1 presents a summary of detections for the analytical data generated during the Phase I IRP. Oil and grease were not detected above reporting limits in any of the samples collected as part of the Phase II, Stage I IRP. Lead was detected in all seven soil samples collected at AOC A, with a maximum concentration of 35 milligrams per kilogram (mg/kg) at a depth interval of 0 to 1 ft bgs (19B-1); the maximum lead concentration is less than the 2012 NMED residential SSL of 400 mg/kg. One purgeable organic compound, 1,2-dichloroethene (1,2-DCE), was detected in one sample (19A-1A, a field duplicate sample) with a concentration of 0.237 mg/kg at a depth of 3 to 4 ft bgs. The maximum concentration of 1,2-DCE is well below the 2012 NMED residential SSL of 156 mg/kg. Table B-1 in Appendix B contains reporting limits (RLs), results, and laboratory established qualifiers for all soil samples collected at AOC A, as provided in the report (Radian, 1986).

Soil sampling indicated the presence of lead and one organic compound (1,2-DCE); however, the maximum concentrations were below their respective NMED residential SSLs. The investigation

concluded that horizontal and vertical extent of contamination is small at AOC A, and likely restricted to the uppermost topsoil bounded by the drainage ditch. The investigation could not determine a source for 1,2-DCE because it is not a constituent of MOGAS. No further action (NFA) was recommended for AOC A (Radian, 1986).

1987 RFA

In 1987 a Preliminary Review (PR)/Visual Site Inspection (VSI) and RCRA Facility Assessment (RFA) were completed at AOC A by A.T Kearney to assess the potential for releases to the environment.

The PR/VSI and RFA concluded that the potential for release to soil was high due to the fact that the spill occurred on bare soil, and that the potential for release to groundwater is low, due to the presence of caliche layers possibly acting as an aquitard and inhibiting downward migration of hazardous constituents to the aquifer (depth to groundwater is greater than 200 ft bgs). The PR/VSI and RFA recommended NFA for AOC A (A.T. Kearney, 1987).

2005 Phase I Supplemental Assessment

The NMED requested an assessment of AOC A in a January 12, 2004 letter to Cannon AFB (NMED, 2004; Appendix A-2). The Supplemental Assessment was performed in 2005 by URS to obtain additional data and determine the presence or absence of contaminants at AOC A (URS, 2005). Previously, AOC A was included in a group of NFA proposals (URS, 2000), and was listed in the NMED Statement of Basis (NMED, 2003) as being appropriate for NFA. However, a subsequent letter from the NMED listed AOC A as a site that did not qualify for NFA approval (NMED, 2004).

Four soil borings were installed to depths of 9.8, 23.4, 23.2, and 24.5 ft bgs in the vicinity of the former spill site (Figure 2). Samples were selected for analysis based on volatile organic compound (VOC) headspace readings and field observations (URS, 2005); however, the results of this field screening was inconclusive. As a result, only the two deepest soil samples from each borehole were collected and submitted for laboratory analysis. A total of eight soil samples were collected and analyzed for VOCs (EPA Method 8260B), semivolatile organic compounds (SVOCs) (EPA Method 8270C), and lead (EPA Method 6010B).

Analytical results from the Phase I investigation are compared to 2012 NMED residential and industrial SSLs (NMED, 2012a) and applicable Cannon AFB background values (Woodward-Clyde, 1997). Table 1 presents a summary of detections for the analytical data generated during the Phase I investigation. Lead was detected in all eight samples with a maximum concentration of 5.9 mg/kg, less than the 2012 NMED residential SSL of 400 mg/kg (NMED, 2012a). The sample having the maximum concentration was numbered CAA-SB03-015 and collected from a depth of 13 to 14.7 ft bgs. All SVOCs were detected at concentrations below reporting limits. Eleven VOCs were detected in eight samples collected including, benzene; bromomethane; chloroform; cyclohexane; dibromochloromethane; ethylbenzene; methylcyclohexane; methyl acetate; toluene; m,p-xylene; and o-xylene. The eleven detected analytes were present in concentrations below or slightly above reporting limits in one or more samples. The resultant concentrations of the eleven detected analytes were well below 2012 NMED residential SSLs

(NMED, 2012a). Table B-1 in Appendix B contains RLs, results, and laboratory established qualifiers for all soil samples collected at AOC A.

The Phase I Supplemental Assessment calculated a site-specific migration to groundwater pathway SSL for chloroform because seven out of eight chloroform concentrations identified in samples from AOC A exceeded the generic NMED risk-based SSL for a DAF of 20, despite being present in concentrations near the reporting limits and well below the 2012 NMED residential SSL (URS, 2005). NMED guidance allows for the development of site-specific DAFs when a result exceeds the generic NMED DAF. The site-specific DAF for chloroform was calculated using NMED's Dilution/Attenuation Factor Equation (Equation 17, NMED, 2005; Equation 33, NMED,2012b); the calculation yielded a site-specific DAF of 30.2 (URS, 2005). The site-specific DAF was multiplied by the generic chloroform SSL for a DAF of 1 (URS, 2005) to determine the site-specific chloroform SSL for the migration to groundwater pathway. The 2005 calculated site-specific SSL for chloroform was 12.5 micrograms per kilogram (µg/kg), which was above the maximum detected concentration of chloroform identified at AOC A (12 µg/kg). The 2012 generic chloroform SSL for a DAF of 1 is 0.459 µg/kg (NMED, 2012a). After adjusting with the site-specific DAF of 30.2, the site-specific migration to groundwater pathway SSL for chloroform is 13.9 µg/kg, which is above the maximum detected chloroform concentration. The Phase I report concluded that no further risk screening was warranted for AOC A because soil sampling results were all below NMED residential SSLs and chloroform did not exceed the calculated site-specific migration to groundwater SSL, indicating that site conditions are protective of groundwater (URS, 2005).

NMED approved the report in a letter dated March 30, 2009 (NMED, 2009a; Appendix A-3). In the approval letter, NMED stated that based on the information provided in the report, AOC A had been investigated and all detected soil contaminants were reported at concentrations below residential SSLs (NMED, 2009a; Appendix A-2). At this point, NMED continued their review of the permit modification request that was submitted in 2008.

2008 CAC Petition

In July 2008, Cannon AFB submitted a CAC Petition to the NMED with the intent of changing the status of AOC A from Corrective Action Required to CAC without Controls. After approval of the Phase I Supplemental Assessment, the NMED reviewed the 2008 CAC Petition, and determined that AOC A was not eligible for a change in status to CAC without Controls status. In a September 14, 2009 letter, NMED summarized the need for further soil sampling, an ecological risk assessment (ERA), and calculation of a site-specific DAF for chloroform before the site could be considered for CAC status (NMED, 2009b; Appendix A-4). The NMED stated the following three reasons:

- The NMED compared the maximum concentrations of detected lead and VOCs to the Los Alamos National Laboratory (LANL) Ecorisk Database (Version 2.3, October 2008) and determined that lead detected in surface soil as reported in the 1985 Phase I IRP investigation exceeded the risk-based ecological screening range (14 to 21 mg/kg). The soil sample with the elevated lead concentration was collected from the drainage swale that runs alongside Argentia Avenue and is not covered by asphalt (NMED, 2009b).

- NMED stated that previous investigation had not adequately defined the lateral extent of lead contamination for surface soil and noted the absence of surface soil samples in the 2005 Phase I Supplemental Assessment (URS, 2005).

- NMED noted that the maximum chloroform concentration exceeded the New Mexico generic Migration to Groundwater SSL with a DAF of 20. The NMED indicated that Cannon AFB could use the generic SSL for a DAF of 20 for comparison or calculate a site-specific DAF for comparison. The site-specific value would better represent site conditions (NMED, 2009b).

NMED concluded that until the time in which surface soil is shown not to exhibit concentrations of lead exceeding the risk-based ecological screening level, and comparison of chloroform concentrations to a site-specific DAF indicated that site conditions are protective of groundwater, AOC A will not be considered for CAC status (NMED, 2009b; Appendix A-3).

2012 Phase II Supplemental Assessment

In 2012, a Phase II Supplemental Assessment was conducted by the URS Group, Inc. (URS) to define the lateral extent of potential lead contamination in surface soil within the drainage swale along Argentia Avenue. Surface samples were not collected for lead in the Phase I investigation, so it was unclear whether possible lead contaminated soil was removed during construction of the gymnasium in 1977.

Five soil borings were installed to a depth of 0.5 ft bgs in the drainage swale along the southwest side of Kermit Evans Avenue to determine if lead contamination exists in surface soils. A total of five surface soil samples were analyzed for lead (Method 6010B) only. Sample locations for the Phase II Supplemental Assessment are shown on Figure 2.

Analytical results from the Phase II investigation are compared to the 2012 NMED residential and industrial SSLs (NMED, 2012a) and the Cannon AFB background value for lead (Woodward-Clyde, 1997). Table 1 presents a summary of detections for the analytical data generated during the Phase II investigation. Lead was detected in all surface soil samples with a maximum concentration of 112 mg/kg, less than the 2012 NMED residential SSL of 400 mg/kg (NMED, 2012a), but exceeding the Cannon AFB background concentration of 12 mg/kg for lead. The sample having the maximum concentration was numbered CAA-SS05 and was collected from a depth of 0 to 0.5 ft bgs. Table B-1 in Appendix B contains RLs, results, and laboratory established qualifiers for all soil samples collected at AOC A.

The Phase II Supplemental Assessment calculated the site risk and a site hazard index using the detected lead concentrations identified in the surface soil samples. Site risk was calculated using NMED calculations (NMED, 2012b) to be 5.93E-06 and the site hazard index was calculated to be 0.593. Lead concentrations present in surface soil are unlikely to result in adverse health impacts at AOC A (URS, 2013). Five of the six surface soil samples were above the LANL ESLs for American robin (14 mg/kg, 16 mg/kg, and 21 mg/kg for Avian insectivore, Avian omnivore, and Avian herbivore respectively) and Montane shrew (72 mg/kg for Mammalian insectivore).

The site-specific DAF of 30.2 was calculated in the Phase I Supplement Assessment (URS, 2005).

A baseline ERA was also conducted at AOC A in accordance with NMED guidance (NMED, 2008b) and to satisfy the requirement as noted in the September 14, 2009 NMED letter (NMED, 2009b). The Phase II Supplemental Assessment concluded that the area adjacent to AOC A does not contain any sensitive areas, or areas that could be considered viable ecological habitat as the majority of the site is paved while the unpaved areas are maintained as lawns. There are no water bodies located on the site. The Phase II investigation determined that no further risk screening was warranted for AOC A (URS, 2013).

The Phase II Supplemental Assessment recommended that AOC A be petitioned for CAC without controls (URS, 2013). In a letter dated October 25, 2012, NMED issued approval with modifications to the Phase II Supplemental Assessment at AOC A Report; however no response to the letter and its comments were necessary. Five of the six surface soil samples in which lead was detected during the Phase II Supplemental Assessment were above LANL Ecological Screening Values (ESVs) for American robin and Montane shrew. Since the initial screening resulted in slightly elevated hazard quotients (HQs), NMED conducted a refined ecological risk assessment (ERA). The ERA determined that the calculated ecological HQs would be well below target levels for both the America robin and Montane shrew receptors and populations based on a more refined assessment, indicating that lead in soil at AOC A would not likely pose ecological risk. NMED determined that the conclusion of the baseline ERA presented in the Phase II Supplemental Assessment Report, as clarified with the NMED assessment, was adequate and would meet NMED requirements for approval (NMED, 2012b; Appendix A-1).

Basis of Determination – AOC A

Based on previous investigations and assessments, a determination of CAC without Controls is recommended for AOC A. Cannon AFB submitted an ERA as requested by the NMED in its requirement for further action letter (NMED, 2009b; Appendix A-4). The calculated site-specific migration to groundwater pathway SSL calculated for chloroform (12.5 µg/kg) was higher than the maximum detected concentration identified at AOC A (12.0 ug.kg) during the Phase I Supplemental Assessment (URS, 2005). The Phase I Supplemental Assessment was approved by NMED in a letter dated March 30, 2009 (NMED, 2009a; Appendix A-3).

Lead did not exceed the 2012 NMED residential SSL of 400 mg/kg in surface or subsurface samples collected at AOC A (NMED, 2012a). All other analytes were detected below 2012 NMED residential SSLs (NMED, 2012a). NMED conducted a refined ERA and determined that lead present in soil at AOC A would not pose ecological risk. NMED approved the ERA conducted as part of the Phase II Supplemental Assessment, with clarification from the refined ERA in which NMED conducted in a letter dated October 25, 2012 (NMED, 2012c; Appendix A-1).

AOC A is proposed for CAC without Controls because it has been adequately characterized in accordance with applicable regulations and requirements, and the available data indicate that

contaminants do not pose either a human health or ecological level of risk under current and projected land use.

C.2 SWMU 91—Recovered Fuel Tank No. 5114

Location and Description – SWMU 91

SWMU 91 is located in the southeast portion of Cannon AFB, as shown in Figure 1. SWMU 91 covers a small area around the footprint of a former 5,000-gallon aboveground storage tank (AST) immediately north of Building 2332 and was associated with the adjacent Test Stand No. 5114. The tank was used to store new jet propellant grade 4 (JP-4 fuel) (A.T. Kearney, 1987).

History – SWMU 91

The AST was installed in 1967 (A.T. Kearney, 1987). In 1988, the AST was removed following the demolition of the test stand. Aerial photos from the early 2000s still showed the tank support saddles in place at SWMU 91 as well as the concrete diked containment area where the AST was located. Current satellite images (Figure 3) show a dirt and gravel surface at the site of the former AST; the concrete pad, dike and tank saddles appear to have been removed. The construction activity at SWMU 91 is referred to briefly in the 2009 RCRA Facility Investigation (RFI)Addendum Report, but there is no Cannon AFB record available documenting the construction activity.

There are no records of spills or accidental releases associated with the AST at SWMU 91. (URS, 2009)

Current and Anticipated Future Land Use – SWMU 91

Cannon AFB will remain active for the foreseeable future. Currently, land use at SWMU 91 is classified as industrial. It is anticipated that the land use classification will continue to remain industrial in nature at SWMU 91.

Evaluation of Relevant Information – SWMU 91

1987 RFA

In 1987, A.T Kearney completed a PR/VSI and RFA to identify and evaluate SWMUs and AOCs and to assess the potential for releases to the environment from those SWMUs and AOCs (A.T. Kearney, 1987). The PR/VSI and RFA mistakenly identified SWMU 91 as a tank in which recovered JP-4 fuel was stored after being processed by Oil/Water Separator (OWS) No. 5114 (A.T. Kearney, 1987). However, the AST was actually a storage tank for “new” JP-4 fuel which was used for experiments at Test Stand 5114. The PR/VSI and RFA stated that there were no reported releases from this unit. No sampling was completed or recommended for SWMU 91 during the RFA.

1988 Tank Removal

The AST at SWMU 91 was removed in 1988 when Test Stand 5114 was demolished (URS, 2007). There is no closure report or record of removal activities at SWMU 91. It is unknown if sampling activities were completed at the time of tank removal.

2007 RFI

In 2007, an RFI was conducted and included a visual inspection of SWMU 91 (URS, 2007). No visible signs of staining or cracking were evident in the diked concrete containment area where the former AST was located (URS, 2007). No soil samples were collected at SWMU 91 during the RFI, but samples were collected at adjacent SWMUs 86 through 90. The RFI recommended further investigation and collection of surface and near-surface soil samples to characterize the site for potential total petroleum hydrocarbon (TPH) contamination (URS, 2007).

The NMED reviewed the RFI, and concluded that soil samples from adjacent SWMUs do not accurately characterize potential contamination at SWMU 91. NMED approved the RFI Report via a letter dated May 14, 2008, and required sampling to characterize the site (NMED, 2008a; Appendix A-5).

2009 RFI Addendum

In 2009, an RFI Addendum was performed (URS, 2009). Three soil borings were drilled to a depth of 15 ft bgs at the site of the former AST. One boring was located immediately north and two borings were located approximately 15 ft to the east and west of the former tank (Figure 3). Figure 3 also shows the location of the former tank saddles for reference.

According to the report, the diked containment area and tank saddles were removed from the former AST area (URS, 2009). SWMU 91 was in the process of being re-graded with 12 inches of fill material at the time of sampling activities for the RFI Addendum. The report does not state whether sampling activities occurred before, during, or after regrading of the former AST site. However, the concrete diked containment area and tank saddles are visible in Figure 9-1 of the RFI Addendum (URS, 2009).

Three samples were collected from each of the three soil borings and the collection depths were 0-4, 8-12, and 12-16 ft bgs. No visible staining or odors were evident in any of the soil samples and no elevated photoionization detector (PID) readings were encountered. All soil samples were submitted to an analytical laboratory for analysis of TPH-diesel range organics (DRO) and TPH-gasoline range organics (GRO) in compliance with the Work Plan (URS, 2008).

TPH-DRO and TPH-GRO were not detected in any soil samples, the results are summarized in Table 2. Table B-2 is provided in Appendix B and contains RLs, results, and laboratory-established qualifiers. All TPH-DRO and TPH-GRO results were compared to the 2012 NMED TPH residential direct exposure screening value for kerosene and jet fuel, which is 1,000 mg/kg (NMED, 2012d). URS recommended CAC without Controls for SWMU 91 based on the soil sample results. NMED approved the RFI Addendum Report in a June 7, 2010 letter (NMED, 2010; Appendix A-6).

Basis of Determination – SWMU 91

SWMU 91 has been characterized in compliance with the NMED request (NMED, 2008a; Appendix A-5); and the resultant investigation report was approved, which recommended CAC without controls (NMED, 2010; Appendix A-6).

SWMU 91 is proposed for CAC without Controls because it has been adequately characterized in accordance with applicable regulations and requirements, and the available data indicate that contaminants do not pose a human health risk under current and projected land use.

C.3 SWMU 103—Wastewater Playa Lake

Location and Description – SWMU 103

Wastewater Playa Lake (SWMU 103) occupies approximately 13 acres near the munitions storage area at the east-central edge of Cannon AFB (Figure 1). SWMU 103 is approximately 1,000 ft across at its widest point, and is estimated to be a maximum of 5 ft deep, with a gradually sloping bottom. SWMU 103 is maintained at approximately two-thirds total capacity by inflow from the wastewater treatment lagoons located to the west (Woodward-Clyde 1994). A site map is presented as Figure 4.

History – SWMU 103

SWMU 103 received all of Cannon AFB sanitary and industrial wastewater from 1943 to 1966; moreover, a portion of the wastewater was treated with an Imhoff unit prior to discharge to the lake (CH2M Hill, 1983 and URS, 2011). In 1966, personnel installed and operated wastewater treatment lagoons (SWMU 101) to provide aeration treatment of the wastewater prior to discharging treated effluent to SWMU 103. The lake received treated sanitary and industrial wastewater effluent from the wastewater treatment lagoons (SWMU 101) from 1966 to 1998. During that time period, wastewater was piped from the wastewater treatment lagoons to SWMU 103 via an effluent discharge pipe, which consisted of inlet chamber equipped with two slide gates. At that time, the wastewater treatment system did not have an associated National Pollution Discharge Elimination System (NPDES) permit, because the lagoons did not discharge into navigable waters.

In 1998, a new wastewater treatment plant (WWTP) was built and put into use. The lagoons were decommissioned in 2003. Currently, a portion of the treated effluent discharges to a golf course pond where it is used for irrigation. The remainder of the effluent discharges to SWMU 103. SMWU 103 continues to receive treated effluent directly from the WWTP.

The wastewater treatment plant is regulated by a NPDES permit issued by the EPA. The NPDES Individual Permit NM0030236 was originally issued in April 2000 and renewed in July 2011 (EPA, 2011) and allows for discharge to North Playa Lake (Outfall 001) and Golf Course Pond (Outfall 002) based on discharge limitations outlined in the NPDES permit (EPA, 2011). There are no streams or water bodies entering or exiting the lake. The surface water from SWMU 103 is not currently being used for irrigation of nearby agricultural fields. Any water loss from the lake likely occur via evaporation and via infiltration; the amount of water loss is unknown.

Limited vegetation surrounds the lake; weeds and annuals are found seasonally in the wet zones of the shoreline (URS, 2011).

Current and Anticipated Future Land Use – SWMU 103

Cannon AFB will remain active for the foreseeable future. Currently, land use at SWMU 103 is classified as industrial. It is anticipated that the land use is expected to remain industrial in nature at SWMU 103.

Evaluation of Relevant Information – SWMU 103

1987 RFA

A PR/VSI and RFA was completed at SWMU 103 by A.T Kearney to assess the potential for releases to the environment (A.T. Kearney, 1987). At the time of the PR/VSI and RFA, SWMU 103 was currently active. Annual analyses of surface water samples collected at SWMU 103 showed concentrations of nitrate, chloride, sulfate, total phosphorus, chemical oxygen demand, oil, grease, and metals below regulatory screening criteria (A.T. Kearney, 1987); however, the data were unavailable during the Cannon AFB records search. Historical documentation indicated that SWMU 103 received waste solvents from the Aircraft Washrack (SWMU 9) and runoff from the runway (A.T. Kearney, 1987).

The RFA report concluded that the potential for release to soil and groundwater was moderate. The caliche layer was thought to act as an aquitard, but the layer does not occur continuously beneath the site. Due to the unlined nature of SWMU 103t and the presence of a hydraulic head, the potential for downward migration of hazardous constituents is enhanced. The RFA report recommended that samples be collected from surface water and sediment for hazardous constituents (A.T. Kearney, 1987).

1993 Phase I RFI

Woodward-Clyde conducted a Phase I RFI was conducted in 1993 to evaluate whether a release of hazardous constituents had occurred as a result of wastewater treatment lagoon discharges which could pose risk to human health and the environment (Woodward-Clyde, 1994). Surface water and sediment samples were collected and analyzed for VOCs (8240), SVOCs (EPA Method 8270), target analyte list (TAL) metals (EPA Method 6010/7000), total recoverable petroleum hydrocarbons (TRPH) (EPA Method 9071/418.1), pesticides and polychlorinated biphenyls (PCBs) (EPA Method 8080), and herbicides (EPA Method 8150).

Sample locations for the Phase I RFI are shown on Figure 4 and include three surface water (sample locations 10305, 10306, and 10307) and four sediment samples (sample locations 10301, 10302, 10303, and 10304) at locations distributed around SWMU 103 and within the bermed area. It should be noted that in the 1993 investigation, the sample names listed in the tables did not necessarily match the sample location names provided in figures. For example, sample CAN103-1032-5001 was collected from sample location 10302. A “zero” was omitted during sample collection, possibly due to size/character limitations. Sample locations, along with

the individual, representative samples, have been identified in the all data tables located in Appendix B.

Surface water samples were collected using a 3-liter bailer from approximately 3 ft below the water surface. Sediment samples were collected from locations distributed around the lake bottom from a general depth interval of 0 to 3.5 ft bgs. Not all sediment samples were collected from a 3.5-ft interval, but rather a shorter interval located between 0 to 3.5 ft bgs. Sediment samples were collected with a ponar dredge and described as black, organic silt with a fetid, sulfurous odor (Woodward-Clyde, 1994).

Table 3 presents a summary of sediment detection results for the analytical data generated during the Phase I RFI. Arsenic was detected in all sediment samples with a maximum concentration of 10.8 mg/kg, collected from the depth interval of 1.5 to 3.5 ft bgs at location CAN103-1032-5001. The maximum detected concentration of arsenic exceeds both the 2012 NMED residential SSL of 3.9 mg/kg and the subsurface soil background concentration of 4.3 mg/kg for arsenic (Table 3). Arsenic exceedances are shown on Figure 5. Aluminum, arsenic, beryllium, cadmium, chromium, cobalt, copper, iron, lead, mercury, nickel, potassium, selenium, silver, vanadium, and zinc were all detected at concentrations that were higher than their respective background concentrations for surface and subsurface soil; none of these detected concentrations exceed the 2012 NMED residential SSLs (NMED, 2012a). Table B-3 in Appendix B contains RLs, results, and laboratory established qualifiers for all sediment samples collected at SWMU 103. Neither screening levels nor background concentrations have been established for sediment for comparison. Analytical results are compared to 2012 NMED residential and industrial SSLs (NMED, 2012a) and applicable Cannon AFB background values (Woodward-Clyde, 1997).

TRPH was detected in all four sediment samples with a maximum concentration of 5,890 mg/kg, which was collected from a depth interval of 1.5 to 3.5 ft bgs (CAN103-1032-5001). The data are summarized in Table 3. The maximum TRPH concentration exceeds the 2012 NMED TPH residential direct exposure screening value of 1,000 mg/kg for unknown oil (NMED, 2012d).

Four VOCs were detected above reporting limits in sediment samples were benzene, 2-butanone (also known as methyl ethyl ketone [MEK]), carbon disulfide, and chloromethane. The maximum concentrations are provided in Table 3, as are the 2012 NMED residential SSLs. As shown in Table 3, the maximum VOC concentrations are all well below their respective residential SSLs.

Arsenic, barium, copper, silver, vanadium, and zinc were detected in all surface water samples. Lead was detected in one surface water sample numbered CAN103-1036-3000. Barium, copper, lead, silver, vanadium, and zinc were all detected at concentrations below EPA Maximum Contaminant Levels (MCLs) and New Mexico Water Quality Control Commission (NMWQCC) water quality standards. Arsenic was detected with a maximum concentration of 0.0057 mg/L (milligram per liter), well below the NMWQCC water quality standard of 0.1 mg/L. Cyanide was detected in two surface water samples with a maximum concentration of 0.014 mg/L (CAN103-1035-3000), well below the NMWQCC water quality standards of 0.2 mg/L. The Table 4 presents a summary of surface water detections for the analytical data generated during the Phase I RFI. Table B-4 in Appendix B contains RLs, results, and laboratory established

qualifiers for all surface water samples collected at SWMU 103Analytical results from the Phase I RFI are compared to 2012 NMWQCC water quality standards and EPA MCLs (EPA, 2012).

Baseline Risk Assessment

The Phase I RFI included a Baseline Risk Assessment (BRA). Risk-based concentrations were calculated for SWMU 103 using methodology defined in RCRA Subpart S and human health impacts were evaluated by comparing maximum detected concentrations from SWMU 103 sediment and surface water samples to the calculated RBCs to determine if a BRA was required. The Phase I investigation determined that maximum detected concentrations of beryllium, silver, vanadium, and TPH exceeded applicable screening criteria in sediment samples; therefore a BRA was warranted (Woodward-Clyde, 1994). The Phase I RFI BRA identified occupational workers, hypothetical construction workers, hypothetical trespassers, and farm workers as potential sediment receptors through ingestion or dermal contact. The results indicated that no adverse human health risks were anticipated from potential exposure to concentrations of beryllium, silver, vanadium, or TPH in sediment with prolonged exposure. Incorporating the findings of the BRA, the Phase I RFI concluded that no significant human health risks were expected due to chemical exposure from water or sediment (Woodward-Clyde, 1994).

In a December 17, 1993 letter, the EPA summarized the need for additional sampling of both sediment and surface water to characterize the vertical and horizontal extent of potential contamination, and that a Phase II investigation was warranted (EPA, 1993).

1997 Phase II RFI

The Phase II RFI was conducted in 1996 and included the collection and analysis of surface and subsurface soil samples to further asses the vertical and horizontal extent of potential site-related contamination, as required in the December 17, 1993 EPA letter (EPA, 1993).

Five sediment (samples 10308 through 10312) were collected from depths of 3 and 5 ft bgs and six soil samples (samples 10313 through 10318) were collected from depth intervals of 0 to 0.5, 3 to 5, 8 to 10, 13 to 15, and 18 to 20 ft bgs. Sediment and soil samples were analyzed for VOCs, SVOCs, metals, TRPH, chlorinated herbicides, pesticides, and PCBs. Sample locations for the Phase II RFI are shown on Figure 4. Soil boring locations were installed around the perimeter of SWMU 103 and sediment samples were collected from within the lake and bermed area. Table 3 presents a summary of sediment and soil detections for the analytical data generated during the Phase II RFI. Table B-3 in Appendix B contains RLs, results, and laboratory established qualifiers for all sediment samples collected at SWMU 103. Neither screening levels nor background concentrations have been established for sediment for comparison. Results from the Phase II RFI are compared to 2012 NMED residential and industrial SSLs (NMED, 2012a) and applicable Cannon AFB background values (Woodward-Clyde, 1997).

Analytical results for sediment samples collected during the Phase II RFI indicated that arsenic exceeds the 2012 NMED residential SSL of 3.9 mg/kg in two sediment samples (CAN103-10310-003 and CAN103-10310-603 [field duplicate]). Arsenic was detected at a maximum concentration of 4.6 mg/kg at a depth of 3 ft bgs (CAN103-10310-003), exceeding both the

NMED residential SSL and the subsurface soil background value of 4.3 mg/kg (Figure 5). Arsenic was not detected above the 2012 NMED residential SSL in soil samples collected from the perimeter of SWMU 103. Aluminum, antimony, barium, beryllium, calcium, cobalt, copper, chromium, iron, lead, magnesium, manganese, nickel, potassium, silver, and zinc were detected at concentrations exceeding respective background values in sediment and soil samples to a depth of 15 ft bgs in one or more soil borings.

Low levels of VOCs, SVOCs, and pesticides were detected in sediment and soil samples to a depth of 20 ft bgs. Detected VOCs included acetone, 2-butanone (MEK), carbon disulfide, methylene chloride, and toluene. Detected SVOCs included benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, bis(2-ethylhexyl)phthalate, butyl benzyl phathalate, chrysene, di-n-octyl phthalate, and fluoranthene. Five pesticides compounds were detected in sediment and soil samples and include 4,4'-DDE, 4,4'-DDT, dieldrin, endrin, and gamma-chlordane. No herbicides were detected at concentrations above reporting limits. Only one PCB (Aroclor-1248) was detected in one soil sample at depths of 0 to 0.5 and 3 to 5 ft bgs, well below the 2012 NMED residential SSL of 2.22 mg/kg. TRPH was detected in six sediment samples with a maximum concentration of 734 mg/kg in one surface sediment sample (CAN103-1315-0000), below the 2012 NMED residential direct exposure screening value of 1,000 mg/kg for unknown oil (NMED, 2012d).

Based upon the results of the Phase I and II RFIs, the Phase II RFI recommended NFA for SWMU 103 (URS, 2011). NMED disapproved this recommendation in a September 19, 1997 letter regarding the Phase II RFI Report (NMED, 1997). NMED requested additional surface water sampling and collection of deeper sediment samples within the lake to adequately characterize the nature and extent of contamination, and requested a BRA and ERA. A NMED approval letter regarding the Phase II RFI was not identified in the records search.

2001 Discharge

The WWTP is regulated by a NPDES permit (NM0030236) issued by the EPA (EPA, 2011).. The NPDES permit states that Cannon AFB is authorized to discharge treated municipal wastewater to North Playa Lake (SWMU 103) from Outfall 001 as outlined in the discharge limitations section of the permit (EPA, 2011). The WWTP consistently meets its discharge requirements and Discharge Monitoring Reports are submitted quarterly to U.S. Fish and Wildlife Services, EPA, and NMED Surface Water Quality Bureau. The discharge monitoring reports contain results from biochemical oxygen demand, chlorine, E. coli, flow, total dissolved solids, and pH measurements.

In a letter dated May 5, 2001, Cannon AFB notified the EPA of a discharge to SWMU 103 involving a reportable quantity. Cannon AFB personnel learned of the release on March 23, 2001. Personnel identified a black, sticky petroleum product at the storm sewer pipe outfall that discharged to Playa Lake (SWMU 103). The source of the discharge was an asphalt emulsion used during an asphalt paving project (Cannon AFB, 2001). The paving contractor lined adjacent storm drain inlets with sandbags prior to paving. Heavy rains shortly after the application of the asphalt emulsion carried the petroleum to a storm drain several hundred feet from the project site. The estimated release was less than 20 gallons (Cannon AFB, 2001).

On March 27, 2001, the contractor, and local U.S. Army Corps of Engineers representatives surveyed the condition of the drainage ditch leading to SWMU 103. Following consultations with NMED, the contractor was directed to remove heavily stained soil from the drainage ditch (Cannon AFB, 2001).

2011 Phase III RFI

In 2011, a third RFI was performed to further evaluate the nature and extent of potential contamination in surface water and sediment at SWMU 103 in response to the September 19, 1997 NMED letter (NMED, 1997). The Phase III RFI also re-evaluated previously collected data from the Phase I (Woodward-Clyde, 1994) and Phase II RFI (Woodward-Clyde, 1997) for potential risks to human health and the environment.

The Phase III RFI collected a total of six surface water and 18 surface sediment samples. These eighteen surface sediment samples were collected from depth intervals of 0 to 0.5 ft bgs.

Six surface sediment and five surface water samples were collected from within the bermed area of North Playa Lake. Five of the samples were collocated surface sediment and surface water samples. The sixth surface sediment sample was collected from the middle of the bermed area, but did not have an associated surface water sample. The five collocated surface sediment samples from the bermed area (SD01 through SD04 andSD06) were analyzed for dioxins/furans (Method 8290), PCBs (Method 1668B), TPH-DRO, TPH-GRO, TPH-oil range organics (ORO) (Method 8015B), and total metals, which only included arsenic, selenium, silver, and vanadium (Method 6010B). The sixth surface sediment sample (SD07) was analyzed only for selenium, no organic analytes were included. The five collocated surface water samples (SW01 through SW04 and SW06) were collected from within the bermed area using immersion techniques and analyzed for dioxins/furans, PCBs, and both total and dissolved metals (only lead, selenium, and silver). Figure 4 shows the bermed area, SWMU 103, and sample locations.

Additionally, eleven sediment samples were collected from locations within North Playa Lake outside of the bermed area. The analytical suites for the additional samples varied. Five surface sediment samples (SD08 to SD12) were collected from areas that were accessible to a wide range of ecological receptors; the analytical suite was limited, consisting only of selenium. Although it was collected from within the bermed area, surface sediment sample SD07 is part of the six surface sediment samples collected to evaluate ecological risk. The remaining six surface sediment samples located outside of the bermed area (SD13 to SD18) were analyzed only for TPH-DRO, TPH-GRO, TPH-ORO, selenium, and silver. The bermed area, SWMU 103, and sample locations are shown on Figure 4.

One collocated surface water (SW05) and sediment sample (SD05) was collected in the central portion of SWMU 103, outside of the bermed area. The analytical suite for the collocated surface water sample (SW05) and sediment sample (SD05) is the same as the collocated samples collected from within the berm.

Surface sediment sample locations are shown in Figure 4. Table 3 presents a summary of sediment detections for the analytical data generated during the Phase III RFI. Table B-3 in Appendix B contains RLs, results, and laboratory established qualifiers for all sediment samples

collected at SWMU 103. Neither screening levels nor background concentrations have been established for sediment to use for comparison. Results from the Phase III RFI are compared to 2012 NMED residential and industrial SSLs (NMED, 2012a) and applicable Cannon AFB background values (Woodward-Clyde, 1997).

As shown in Table 3, the maximum concentrations of selenium, silver, and vanadium are well below their respective 2012 NMED residential SSLs. The maximum arsenic concentration was detected in six sediment samples with a maximum concentration of 3.9 mg/kg at a depth of 0 to 0.5 ft bgs (C103-SD04-0.5), which is the same concentration as the 2012 NMED residential SSL (3.9 mg/kg). Arsenic, selenium, silver, and vanadium were detected above their respective background values in sediment samples.

PCBs and dioxins/furans were detected well below respective NMED residential SSLs (NMED, 2012a) in sediment samples. Maximum concentrations for TPH-DRO/GRO/ORO were all detected well below the 2012 NMED TPH residential direct exposure screening value of 1,000 mg/kg for unknown oil (NMED, 2012d). Table 3 summarizes the sediment detections from samples collected during the Phase III RFI. Analytical results from the Phase III RFI are compared to 2012 NMED residential and industrial SSLs (NMED, 2012a) and applicable Cannon AFB background values (Woodward-Clyde, 1997).

Total lead, total silver, and dissolved lead were detected in several surface water samples. Total silver was detected in one surface water sample with a concentration of 1.2 µg/L, well below the NMWQCC water quality standard of 50 µg/L. Total and dissolved lead were detected in one surface water sample with a concentration of 2.1 µg/L and 4.6 µg/L respectively, well below the NMWQCC water quality standard of 50 µg/L. PCBs and dioxins/furans were detected well below EPA MCLs and NMWQCC water quality standards. Surface water sample locations are shown in Figure 4. Table 4 summarizes the surface water detections from samples collected during the Phase III RFI. Table B-4 in Appendix B contains RLs, results, and laboratory established qualifiers for all surface water samples collected at SWMU 103. Analytical results from the Phase III RFI are compared to 2012 NMWQCC water quality standard and EPA MCLs (EPA, 2012).

Human Health Risk Assessment

The Phase III RFI re-evaluated the Phase I and II RFI data for human health risk and ecological risk, in addition to evaluating the Phase III RFI data. The human health risk reassessment identified sediment and surface water as the media of concern for the Phase III RFI (URS, 2011).

The surface water and sediment data were screened against the 2012 NMED residential SSLs, NMWQCC water quality standards, EPA RSLs, and TPH screening guidelines. All surface water and sediment data fell below the applicable human health screening levels. In addition, the toxic equivalents (TEQs) for dioxins/furans in sediment were compared to and fell below the applicable NMED residential SSLs. Since all results and TEQs were below the screening levels, a complete risk assessment was not warranted. The screening concluded that no unacceptable risks to human health exist at SWMU 103 (URS, 2011).

Ecological Risk Assessment

Several Phase III RFI surface water and sediment results exceeded NMED ESVs (NMED, 2008b); consequently, an ERA was conducted using Phase II and III RFI data. Previous ERAs were completed by comparing Phase I and II data. The ERA conducted as a result of the Phase III RFI incorporated the new surface water data in the evaluation of potential environmental risks associated with SWMU 103. The new Phase III RFI data included the analysis of PCBs congeners, dioxin/furans, and petroleum hydrocarbons at the request of the NMED. The ERA was completed using procedures taken from the NMED Hazardous Waste Bureau Guidance document for Assessing Ecological Risks Posed by Chemicals: Screening-Level ERA (NMED, 2008b), EPA Ecological Risk Assessment Guidance for Superfund (EPA, 1997), and EPA Guidelines for Ecological Risk Assessment (EPA, 1998).

Chemicals of potential ecological concern were selected by comparing maximum concentrations of chemicals with NMED ESVs. No relevant surface water or sediment NMED ESVs were found for dioxins/furans (URS, 2011). Dissolved lead (4.6 µg/L) in surface water collected as part of the Phase III RFI exceeded the NMED ESV of 3.0 µg/L. Several selenium and silver sediment results exceeded their associated sediment ESVs. Selenium and silver are considered potentially bioaccumulative and was evaluated for both direct and indirect exposure. Sediment contaminants of potential ecological concern were determined to be arsenic, selenium, silver, PCBs, and dioxins/furans from comparisons to NMED ESVs.

The exposure analysis addressed two exposure routes: direct exposures for plant and benthic invertebrate community endpoints and ingestion exposures for higher trophic-level receptors that may be consuming contaminated prey and sediment. The NMED ERA indicated a low risk probability for the viability and function of both the benthic sediment and water column communities, and the survival, growth, and reproduction of omnivorous aquatic birds (URS, 2011).

In a letter from NMED to Cannon AFB, dated November 16, 2012, NMED approved the Revised Phase III RFI Report. The NMED stated that further site evaluation was not needed at the time (NMED, 2012e; Appendix A-7).

2013 Geochemical Evaluation of Arsenic

The Phase III RFI data indicated that arsenic was not present in surface sediment at concentrations exceeding the 2012 NMED residential SSL. Sediment data from the Phase I RFI report and sediment data from the Phase II RFI report measured arsenic at concentrations exceeding both the 2012 NMED residential SSL (NMED, 2012a) and Cannon AFB background value (Woodward-Clyde, 1997). Surface (0-0.5 ft bgs) sediment samples were collected during the Phase III RFI; however, samples were not analyzed for the full 23 TAL metals suite (samples were analyzed only for arsenic, selenium, silver, and vanadium). Arsenic data results were obtained for only six surface sediment samples and all were collected from within the bermed area. To evaluate these historical exceedances, a geochemical evaluation was performed in 2013 to determine whether concentrations observed in samples are representative of contamination, or

are naturally occurring. The geochemical evaluation is provided in Appendix C. A synopsis is provided below.

The geochemical evaluation is not a risk assessment, but is a unique and effective tool for analyzing metals data for the purpose of distinguishing background concentrations and potential contamination. Geochemically, trace element distributions in soil can naturally exceed the risk-based screening levels and single-point background concentrations because these calculated values do not consider natural site-specific distributions of trace element concentrations. Point-to-point comparisons of an analytical result to the residential screening level and the background concentration accounts only for an element's absolute concentration and neglects the geochemical interdependence of element concentrations and fails to account for the geochemical mechanisms controlling trace element behavior.

The geochemical evaluation consists of compilation and analysis of TAL metals data and construction of correlation plots with the detected concentrations of the trace element of interest, such as arsenic, plotted against the detected concentrations of the reference element, such as calcium. Samples that reflect natural concentration will lie within a common trend that has a positive slope, while samples that indicate the possibility of contamination will lie either above or below the common trend line. These geochemical evaluation methods were used to distinguish between arsenic contamination versus naturally high background concentrations in SWMU 103 samples.

The evaluated, historical data included chemical analyses of 15 sediment samples obtained at depths ranging from 0 to 5 ft bgs, and 33 soil samples obtained at depths from 0 to 20 ft bgs. Samples were allocated into sediment and soil samples for the evaluation and did not differentiate whether the sample was collected from the surface or subsurface. Samples analyzed as part of the geochemical evaluation were collected during Phase I and II RFIs. The Phase III RFI has been excluded because only four metals were analyzed during the Phase III sampling event (arsenic, selenium, silver, and vanadium). Each sample from the Phase I and II RFI was analyzed for the TAL of 23 elements. Analyses of 37 previously collected background samples were used for comparison in the evaluation. Descriptions of the background samples can be found in *Naturally Occurring Concentrations of Inorganics and Background concentrations of Pesticides at Cannon Air Force Base* (Woodward-Clyde, 1997).

The arsenic concentrations in three of the 15 sediment samples exceeded both the Cannon AFB background screening value of 4.3 mg/kg for subsurface soil and the NMED residential SSL of 3.9 mg/kg. These three samples had arsenic concentrations of 4.5, 4.6, and 10.8 mg/kg, and were collected at depths ranging from 0-3 ft bgs. One sediment sample exceeded the 2012 NMED residential SSL of 3.9 mg/kg, but the sample concentration (4.3 mg/kg) did not exceed the Cannon AFB background screening concentration of 4.3 mg/kg for subsurface soil. No other elements had concentrations that exceeded both the 2012 NMED residential SSLs and Cannon AFB background screening values.

Results of the geochemical evaluation indicate that all three types of samples (sediment, soil, and background) fall on the same trend in the plot, indicating that all of the samples have similar aluminum/iron (Al/Fe) ratios. It also shows that the sediment samples have higher concentrations

of iron and aluminum than the soil samples, even though the As/Fe ratios are similar. These higher concentrations and similar ratios imply that the sediment samples are finer grained and thus contain higher proportions of aluminum-bearing clay and iron oxide minerals relative to the site and background soil samples. The fact that the site and background samples have ratios that fall well within one order of magnitude indicates that the site samples do not contain excess aluminum or iron from a contaminant source and that their aluminum and iron concentrations are natural.

Arsenic is known to associate with iron oxide minerals as discussed above. A soil or sediment sample that is naturally enriched in iron oxides is expected to be naturally enriched in arsenic. The site and background samples fall on the same general trend, although this trend is less correlated than the iron versus aluminum trend. The sediment samples have higher arsenic as well as iron and aluminum concentrations, which is expected due to their finer grain size distributions.

The sediment samples have As/Fe ratios that fall within the range of the background ratios. The consistent As/Fe ratios in the site samples, and the agreement with the background ratios indicates that the observed arsenic concentrations are most likely natural, and that the elevated (above 2012 NMED residential SSL) arsenic concentrations are likely due to the finer-grained nature of the sediment samples. A complete discussion of the geochemical evaluation is provided in Appendix C.

Basis of Determination – SWMU 103

Based on previous investigations and evaluations, a determination of CAC without controls is proposed for SWMU 103. Arsenic is the only constituent of concern at the site that was detected above the 2012 NMED residential SSL (3.9 mg/kg) and Cannon AFB background value (3.6 mg/kg for surface soil and 4.3 mg/kg for subsurface soil) with a maximum concentration of 10.8 mg/kg. Phase III RFI surface sediment samples did not show arsenic concentrations exceeding 2012 NMED residential SSLs; however subsurface sediment samples collected during the Phase I and II RFIs showed arsenic exceeding both the NMED residential SSL and subsurface background value. Based on the results of the geochemical evaluation, it is likely that high concentrations of arsenic in soil and sediment samples collected at SWMU 103 are within the range of naturally occurring background levels.

TRPH concentrations detected during the Phase I RFI exceeding both the 2012 NMED residential and industrial SSL for unknown oil, were not observed in both the Phase II and III RFI samples.

SWMU 103 is proposed for CAC without Controls because it has been adequately characterized in accordance with applicable regulations and requirements, and available data indicated that contaminants do not pose either a human health or ecological level of risk under current and projected land use.

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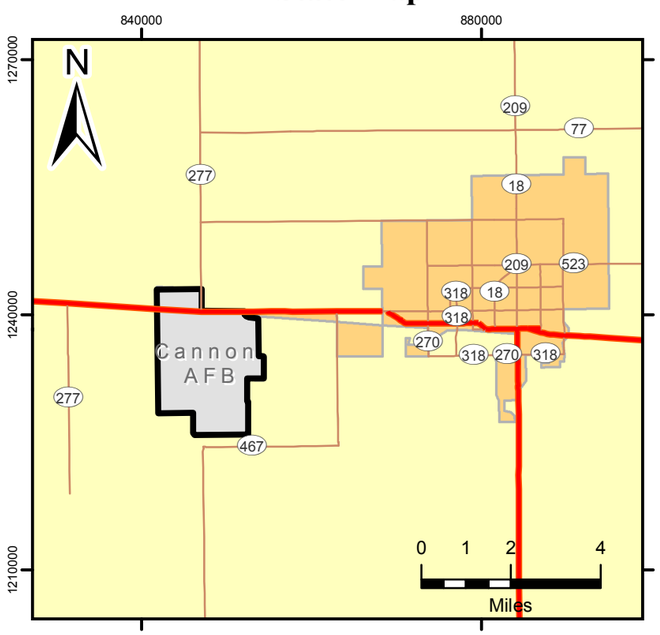
Figures

State Map



Local Area Map

Cannon AFB Area Map

LEGEND

- SWMU Boundary
- Cannon AFB
- Cannon AFB Boundary
- Interstate
- City of Clovis
- Highway
- States (State)
- Major Road
- SWMU 91 Site name

NOTES

AFB = Air Force Base
AOC = Area of Concern
CAC = Corrective Action Complete
MOGAS = Motor Gas
No. = Number
SWMU = Solid Waste Management Unit

AOC A	MOGAS Spill Site
SWMU 91	Recovered Fuel Tank No. 5114
SWMU 103	Wastewater Playa Lake

Revision Date: 05/08/13
Projection : NAD83 State Plane New Mexico East FIPS 3002 Feet

CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE PROPOSAL
TWO SWMUS AND ONE AOC

FIGURE 1

LOCATION MAP OF
SWMU 91, SWMU 103, AND AOC A

G:\Midwest_PBC\Cannon_AFB\GIS_Documents\Project_Maps\Cannon_CACP\MidwestPBC_EF30000_005_Figl-1_SiteLoc_Grp4.mxd 05/08/13

LEGEND

- Phase I Supplemental Assessment Soil Boring Location (URS, 2005)
- Phase II IRP Soil Boring Location (Radian, 1986)
- Phase II Supplemental Assessment Soil Boring Location (URS, 2013)
- Drainage Swale and Flow Direction
- Approximate Site Boundary

NOTES

AOC = Area of Concern
IRP = Installation Restoration Program
MOGAS = Motor Gasoline
Radian = Radian Corporation, LLC
SWMU = Solid Waste Management Unit
URS = URS Group, Inc.

0 50 100 200
Feet

Revision Date: 09/03/13
Projection : NAD83 State Plane New Mexico East FIPS 3002 Feet

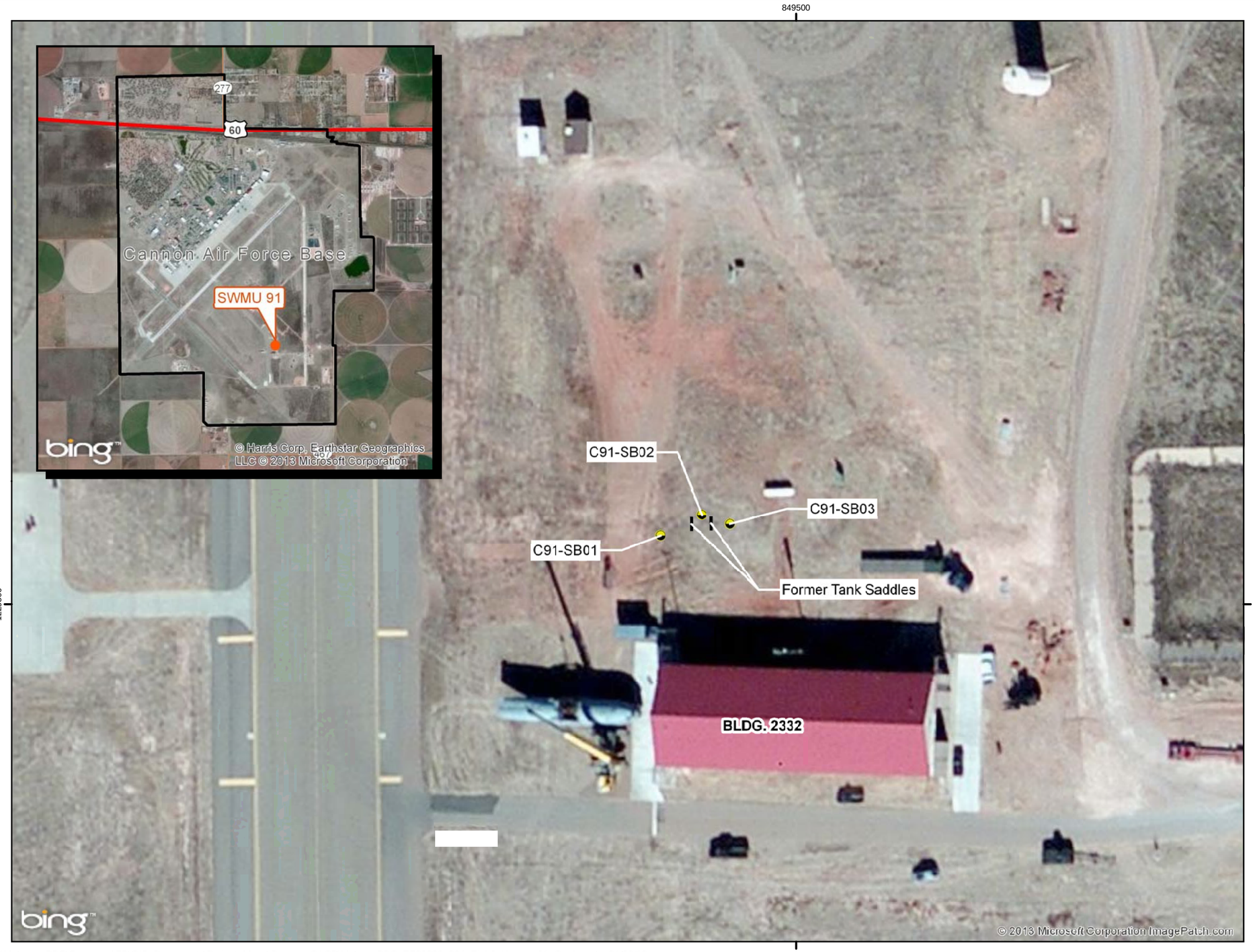
CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE PROPOSAL
TWO SWMUS AND ONE AOC

FIGURE 2

PREVIOUS INVESTIGATION SAMPLE LOCATIONS
AOC A
(MOGAS SPILL SITE)

G:\Midwest_PBC\Cannon_AFB\GIS_Documents\Project_Maps\Cannon_CACP\MidwestPBC_EF30000_003_Figl-2_Previous_AOCA_Grp4.mxd 09/03/13



LEGEND

- RFI Addendum Soil Boring Location
- Cannon AFB Boundary
- Highway
- Major Road

NOTES

SB = Soil Boring
SWMU = Solid Waste Management Unit

0 30 60 120
Feet

Revision Date: 04/29/13
Projection : NAD83 State Plane New Mexico East FIPS 3002 Feet

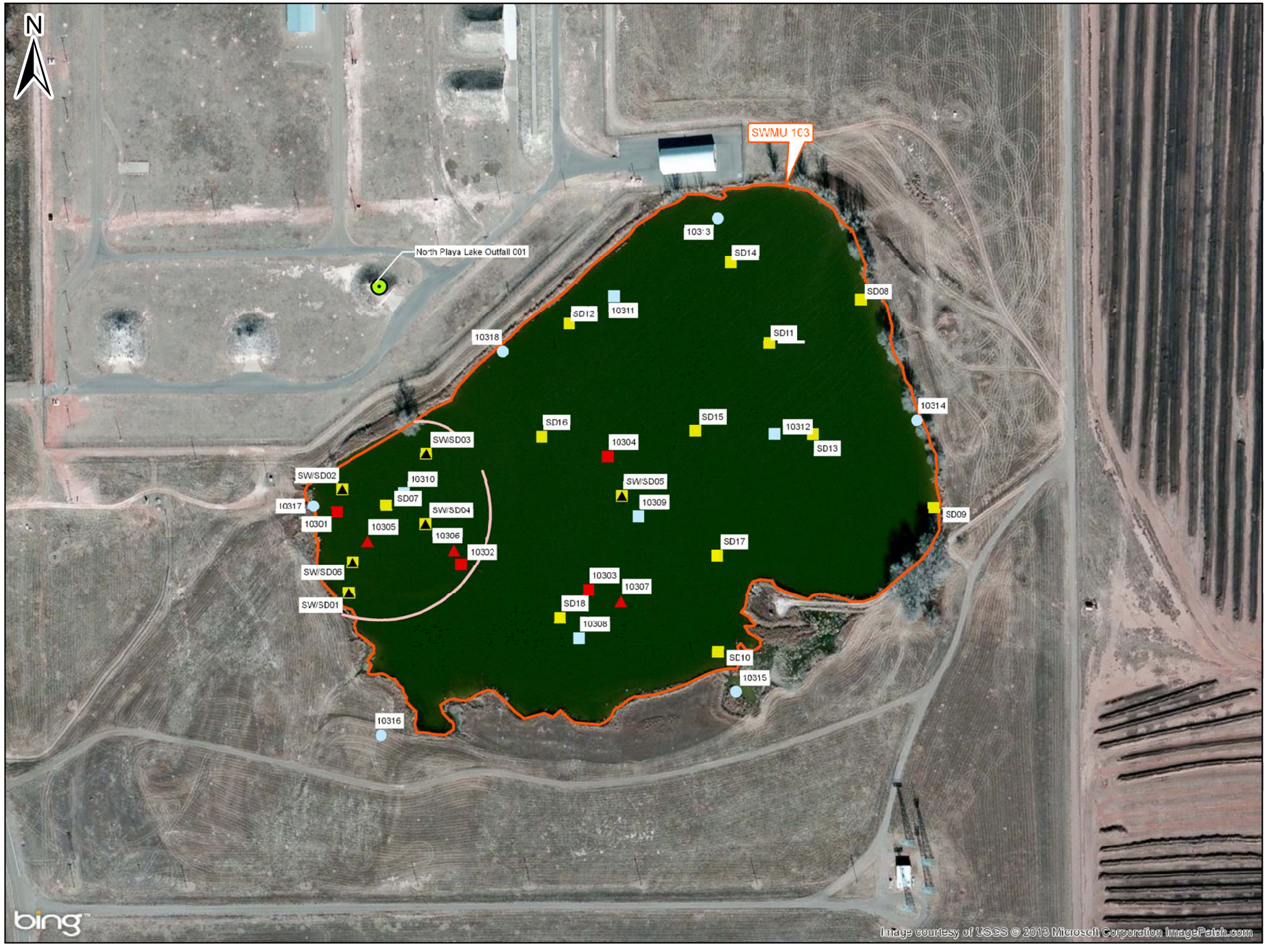
CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE PROPOSAL
TWO SWMUS AND ONE AOC

FIGURE 3

PREVIOUS INVESTIGATION SAMPLE LOCATIONS, SWMU 91 (RECOVERED FUEL TANK NO. 5114)

G:\Midwest_PBC\Cannon_AFB\GIS_Documents\Project_Maps\Cannon_CACP\MidwestPBC_EF30000_004_FigI-3_Known_91_Grp4.mxd 04/29/13



LEGEND

- Phase I RFI Sediment Sample Location (W-C, 1994)
- Phase I RFI Surface Water Sample Location (W-C, 1994)
- Phase II RFI Sediment Boring Location (W-C, 1995)
- Phase II RFI Soil Boring Location (W-C, 1995)
- Phase III RFI Collocated Surface Water/Sediment Sample Location (URS, 2011)
- Phase III RFI Sediment Sample Location (URS, 2011)
- Wastewater Playa Lake Outfall 001
- Berm Boundary
- SWMU 103 (Wastewater Playa Lake) boundary

NOTES

AOC = Area of Concern
RCRA = Resource Conservation and Recovery Act
RFI = RCRA Facility Investigation
SWMU = Solid Waste Management Unit
URS = URS Group, Inc.
W-C = Woodward-Clyde Consultants, Inc.

0 100 200 400
Feet

Revision Date: 04/29/13
Projection : NAD83 State Plane New Mexico East FIPS 3002 Feet

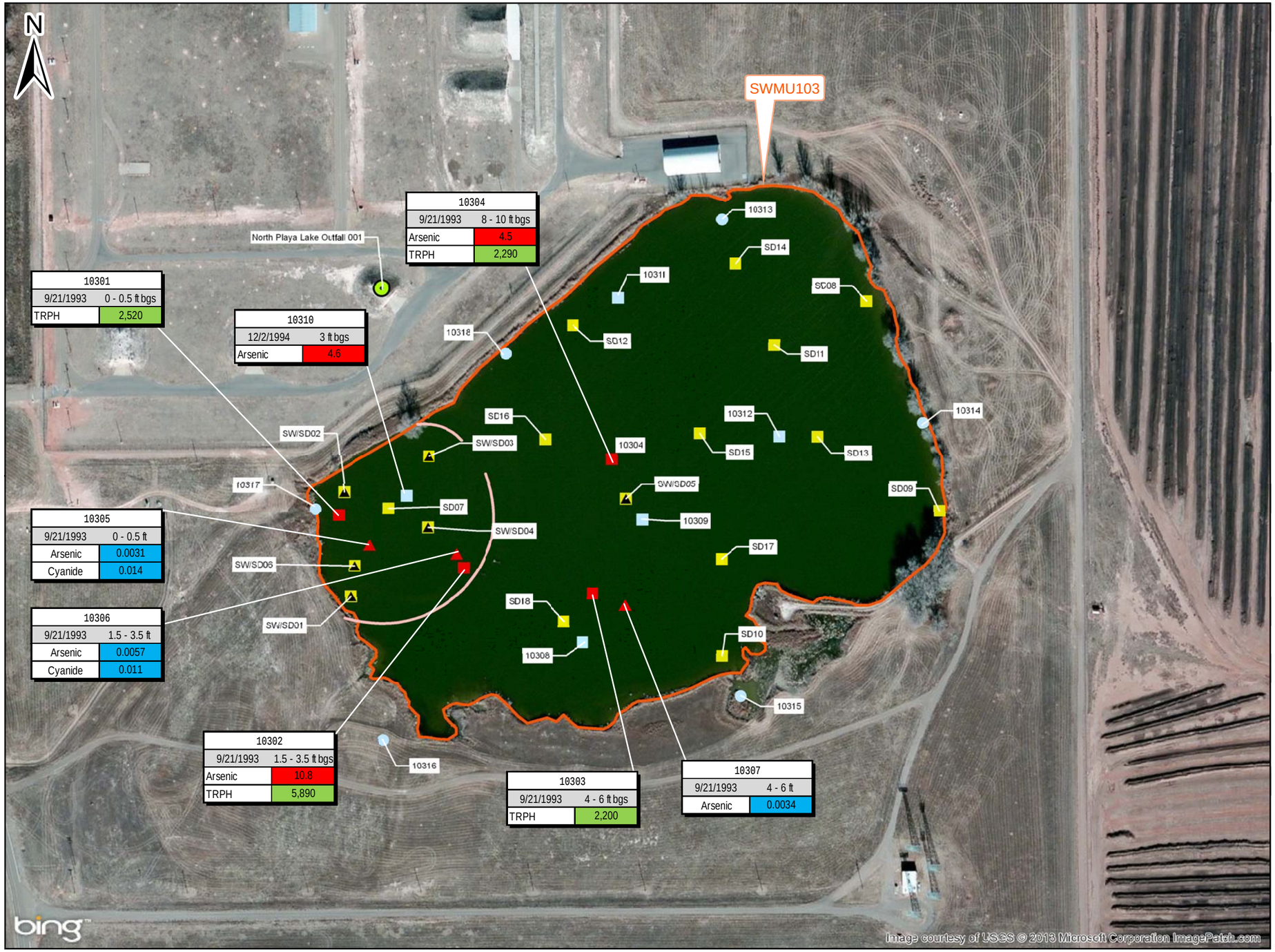
CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE PROPOSAL
TWO SWMUS AND ONE AOC

FIGURE 4

PREVIOUS INVESTIGATION SAMPLE LOCATIONS
SWMU 103
(WASTEWATER PLAYA LAKE)

G:\Midwest_PBC\Cannon_AFB\GIS_Documents\Project_Maps\Cannon_CACP\MidwestPBC_EF30000_001_FigI-4_Previous_103_Grp4.mxd 04/29/13



LEGEND

- Phase I RFI Sediment Sample Location (W-C, 1994)
- Phase I RFI Surface Water Sample Location (W-C, 1994)
- Phase II RFI Sediment Boring Location (W-C, 1995)
- Phase II RFI Soil Boring Location (W-C, 1995)
- Phase III RFI Collocated Surface Water/Sediment Sample Location (URS, 2011)
- Phase III RFI Sediment Sample Location (URS, 2011)
- Wastewater Playa Lake Outfall 001
- Berm Boundary
- SWMU 103 (Wastewater Playa Lake) boundary
- Analyte exceeds both background and NMED residential SSL
- Analyte exceeds NMED industrial SSL
- Analyte exceeds EPA Tapwater value

NOTES

AOC = Area of Concern
bgs = Below Ground Surface
ft = Feet
RCRA = Resource Conservation and Recovery Act
RFI = RCRA Facility Investigation
SWMU = Solid Waste Management Unit
TRPH = Total Recoverable Petroleum Hydrocarbons
URS = URS Group, Inc.
W-C = Woodward-Clyde Consultants, Inc.

0 100 200 400
Feet

Revision Date:04/29/13
Projection : NAD83 State Plane New Mexico East FIPS 3002 Feet

CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE PROPOSAL
TWO SWMUS AND ONE AOC

FIGURE 5

PREVIOUS INVESTIGATION SAMPLE LOCATIONS WITH EXCEEDANCES
SWMU 103 (WASTEWATER PLAYA LAKE)

G:\Midwest_PBC\Cannon_AFB\GIS_Documents\Project_Maps\Cannon_CACP\MidwestPBC_EF30000_006_FigI-5_Exceedance_103_Grp4.mxd 04/29/13

Tables

TABLE 1

AOC A (MOGAS Spill Site) Historical Soil Analytical Detection Summary [a,b,c]

Cannon AFB, New Mexico

Chemical	Frequency Detected	Maximum Detected Concentration (mg/kg)	Validation Qualifier	Surface Background Concentration (mg/kg) [d]	Subsurface Background Concentration (mg/kg) [d]	NMED Residential SSL Concentration (mg/kg) [e]	NMED Industrial SSL Concentration (mg/kg) [e]	Site-Specific Soil to Groundwater SSL Using DAF = 30.2 (mg/kg) [f]
Metals								
Lead	20/20	1.12E+02		1.20E+01	8.70E+00	4.00E+02	8.00E+02	
Volatile Organic Compounds								
Benzene	3/8	9.00E-04	J	NE	NE	1.54E+01	8.47E+01	
Bromomethane	1/8	2.20E-03	J	NE	NE	1.65E+01	8.65E+01	
Chloroform	7/8	1.20E-02		NE	NE	5.86E+00	3.27E+01	1.39E-02
Cyclohexane	7/8	3.50E-03	J	NE	NE	7.00E+03 [f]	2.90E+04 [f]	
Dibromochloromethane	7/8	6.00E-03		NE	NE	1.21E+01	6.24E+01	
Ethylbezene	3/8	1.10E-03	J	NE	NE	6.84E+01	3.78E+02	
Methylcyclohexane	7/8	1.30E-02	J	NE	NE	5.63E+03	2.65E+04	
Methyl acetate	5/8	8.80E-03	J	NE	NE	7.82E+04	1.14E+06	
Toluene	8/8	4.70E-02		NE	NE	5.27E+03	5.77E+04	
m,p-xylene	6/8	3.90E-03	J	NE	NE	8.14E+02	3.98E+03	
o-xylene	3/8	7.00E-04	J	NE	NE	8.98E+02	4.41E+03	
Semivolatile Organic Compounds								
All SVOCs reported as non-detect	0/8	ND						
Purgable Organic Compounds								
1,2-dichloroethane	1/7	2.37E-01	NA	NE	NE	7.89E+00	4.35E+01	
Oil and Gas								
All oil and gas results reported as non-detect	0/7	ND						

Notes:

[a] Radian Corporation LLC, 1986. Table 4-19. *Installation Restoration Program Phase II - Confirmation/Quantification, Stage I* , Cannon Air Force Base, New Mexico, September.

[b] URS Group, Inc., 2005. Table 5-2. *Supplemental Assessment of Areas of Concern A, B, and C, Final Report* , Cannon Air Force Base, New Mexico, December.

[c] URS Group, Inc., 2013. Table 3-2. *Phase II Supplemental Assessment of Area of Concern A (SS-19)* , Cannon Air Force Base, New Mexico, February.

[d] Woodward-Clyde Consultants, Inc., 1997. Table 6-3. *Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon Air Force Base, New Mexico,* September.

[e] New Mexico Environment Department (NMED), 2012. Table A-1:
NMED Soil Screening Levels, *Risk Assessment Guidance for Site*

[f] DAF of 30.2 was calculated for chloroform at AOC A because

[g] U.S. Environmental Protection Agency (EPA), 2012. Regions 3, 6, and 9 Regional Screening Levels for Chemical Contaminants at Superfund Sites, November.

Indicates the result exceeds the Cannon AFB background value.

AFB = Air Force Base

AOC = Area of Concern

DAF = Dilution Attenuation Factor

EPA = Environmental Protection Agency

J = Estimated Detection

mg/kg = Milligram per Kilogram

MOGAS = Motor Gasoline

NA = Not Available

ND = Result Not Detected

NE = Not Established

NMED = New Mexico Environment Department

SVOC = Semivolatile Organic Compound

SSL = Soil Screening Level

TABLE 2

SWMU 91 (Recovered Fuel Tank No. 5114) Historical Soil Analytical Detection Summary [a]

Cannon AFB, New Mexico

Chemical	Frequency Detected	Maximum Detected Concentration (mg/kg)	Validation Qualifier	Surface Background Concentration (mg/kg) [b]	Subsurface Background Concentration (mg/kg) [b]	NMED Residential SSL Concentration (mg/kg) [c]	NMED Industrial SSL Concentration (mg/kg) [c]
Total Petroleum Hydrocarbons							
TPH - DRO	0/9	ND		NE	NE	1.00E+03	3.00E+03
TPH - GRO	0/9	ND		NE	NE	1.00E+03	3.00E+03

Notes:

[a] URS Group, Inc., 2009. Table C-4. Final RCRA Facility Investigation for SWMUs 34, 78, 85, 91, 95, and 107 Addendum Report, Cannon Air Force Base, New Mexico, June.

[b] Woodward-Clyde Consultants, Inc., 1997. Table 6-3. Naturally Occurring Concentrations of Inorganics and Background concentrations of Pesticides at Cannon Air Force Base, New Mexico, September.

[c] New Mexico Environment Department (NMED), 2012. Table 6-2. TPH Screening Guidelines for Potable Groundwater (GW-1), Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and the Ground Water Quality Bureau - Voluntary Remediation Program, February 2012. Values provided are for jet fuel and kerosene.

AFB = Air Force Base

DAF = Dilution Attenuation Factor

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

mg/kg = Milligram per kilogram

ND = Result Not Detected

NE = None Established

NMED = New Mexico Environment Department

SSL = Soil Screening Level

SWMU = Solid Waste Management Unit

TPH = Total Petroleum Hydrocarbons

TABLE 3
SWMU 103 (Wastewater Playa Lake) Historical Sediment and Soil Analytical Detection Summary [a,b,c]
Cannon AFB, New Mexico

Chemical	All Data			Subsurface Soil			Surface Soil			Subsurface Background Concentration (mg/kg) [d]	Surface Background Concentration (mg/kg) [d]	NMED Residential SSL Concentration (mg/kg) [e,f]	NMED Industrial SSL Concentration (mg/kg) [e,f]
	Frequency Detected	Maximum Detected Concentration (mg/kg)	Validation Qualifier	Frequency Detected	Maximum Detected Concentration (mg/kg)	Validation Qualifier	Frequency Detected	Maximum Detected Concentration (mg/kg)	Validation Qualifier				
Metals													
Aluminum	48/48	2.47E+04		42/42	2.47E+04		6/6	7.14E+03		1.22E+04	8.95E+03	7.80E+04	1.13E+06
Antimony	2/48	4.90E+00	J	1/42	3.30E+00	J	1/6	4.90E+00	J	1.60E+01	3.15E+00	3.13E+01	4.54E+02
Arsenic	54/54	**1.08E+01**	J	42/42	**1.08E+01**	J	12/12	3.90E+00		4.30E+00	3.60E+00	3.90E+00	1.77E+01
Barium	48/48	1.30E+03	J	42/42	1.30E+03	J	6/6	2.49E+02	J	8.90E+02	6.70E+02	1.56E+04	2.23E+05
Beryllium	30/48	1.60E+00		25/42	1.60E+00		5/6	4.80E-01		7.30E-01	7.80E-01	1.56E+02	2.26E+03
Cadmium	5/48	2.60E+00		5/42	2.60E+00		0/6	ND		1.30E+00	3.50E-01	7.03E+01	8.97E+02
Calcium	48/48	3.29E+05		42/42	3.29E+05		6/6	2.60E+05		2.37E+05	4.48E+04	NE	NE
Chromium	44/48	3.55E+01		39/42	3.55E+01		5/6	6.80E+00		1.33E+01	1.05E+01	1.17E+05	1.70E+06
Cobalt	40/48	1.13E+01		35/42	1.13E+01		5/6	2.90E+00		4.70E+00	6.60E+00	2.3E+01 [g]	3.0E+02 [g]
Copper	47/48	1.02E+02		41/42	1.02E+02		6/6	7.20E+00		8.30E+00	1.83E+01	3.13E+03	4.54E+04
Iron	48/48	2.17E+04		42/42	2.17E+04		6/6	6.90E+03		1.31E+04	1.01E+04	5.48E+04	7.95E+05
Lead	48/48	3.93E+01		42/42	3.93E+01		6/6	9.80E+00		8.70E+00	1.20E+01	4.00E+02	8.00E+02
Magnesium	48/48	9.16E+03		42/42	9.16E+03		6/6	2.86E+03		1.93E+04	1.93E+03	NE	NE
Manganese	48/48	9.02E+02		42/42	9.02E+02		6/6	1.75E+02	J	3.33E+02	3.07E+02	1.86E+03	2.67E+04
Mercury	4/48	5.10E-01		4/42	5.10E-01		0/6	ND		1.90E-02	5.60E-02	1.56E+01 [h]	7.36E+01 [h]
Nickel	43/48	2.77E+01	J	38/42	2.77E+01	J	5/6	6.90E+00		1.49E+01	1.10E+01	1.56E+03	2.25E+04
Potassium	47/48	4.75E+03		41/42	4.75E+03		6/6	2.28E+03		2.51E+03	2.69E+03	NE	NE
Selenium	25/66	1.32E+01		11/42	1.32E+01		14/24	7.00E+00		1.10E+00	2.60E-01	3.91E+02	5.68E+03
Silver	18/60	3.37E+01		6/42	3.37E+01		12/18	2.70E+01	J	2.65E+00	4.00E-01	3.91E+02	5.68E+03
Sodium	16/48	1.89E+04	J	16/42	1.89E+04	J	0/6	ND		1.23E+03	1.02E+02	NE	NE
Thallium	10/48	3.40E-01	J	9/42	3.40E-01	J	1/6	1.40E-01	J	2.65E+00	6.00E-01	7.82E-01	1.14E+01
Vanadium	54/54	1.30E+02		42/42	1.30E+02		12/12	5.22E+01		3.28E+01	2.33E+01	3.91E+02	5.68E+03
Zinc	48/48	2.75E+02		42/42	2.75E+02		6/6	2.06E+01		3.06E+01	3.22E+01	2.35E+04	3.41E+05
Volatile Organic Compounds													
Acetone	18/48	1.00E-01		17/42	1.00E-01		1/6	2.20E-03	J	NE	NE	6.66E+04	8.68E+05
Benzene	3/48	2.20E-02	J	3/42	2.20E-02	J	0/6	ND		NE	NE	1.54E+01	8.47E+01
Bromodichloromethane	0/48	ND		0/42	ND		0/6	ND		NE	NE	5.41E+00	3.01E+01
Bromoform	0/48	ND		0/42	ND		0/6	ND		NE	NE	6.2E+01 [g]	2.2E+02 [g]
Bromomethane	0/48	ND		0/42	ND		0/6	ND		NE	NE	1.65E+01	8.65E+01
2-Butanone (MEK)	6/48	6.80E-02	J	6/42	6.80E-02	J	0/6	ND		NE	NE	3.71E+04	3.75E+05
Carbon disulfide	6/48	2.30E-02	J	6/42	2.30E-02	J	0/6	ND		NE	NE	1.53E+03	8.33E+03
Carbon tetrachloride	0/48	ND		0/42	ND		0/6	ND		NE	NE	1.08E+01	5.98E+01
Chlorobenzene	0/48	ND		0/42	ND		0/6	ND		NE	NE	3.76E+02	2.12E+03
Chloroethane	0/48	ND		0/42	ND		0/6	ND		NE	NE	NE	NE
Chloroform	0/48	ND		0/42	ND		0/6	ND		NE	NE	5.86E+00	3.27E+01
Chloromethane	1/48	4.00E-03	J	1/42	4.00E-03	J	0/6	ND		NE	NE	2.75E+02	1.29E+03
Dibromochloromethane	0/48	ND		0/42	ND		0/6	ND		NE	NE	1.21E+01	6.24E+01
1,1-Dichloroethane	0/48	ND		0/42	ND		0/6	ND		NE	NE	6.45E+01	3.59E+02
1,2-Dichloroethane	0/48	ND		0/42	ND		0/6	ND		NE	NE	7.89E+00	4.35E+01
1,1-Dichloroethene	0/48	ND		0/42	ND		0/6	ND		NE	NE	4.49E+02	2.29E+03
1,2-Dichloroethene (total)	0/48	ND		0/42	ND		0/6	ND		NE	NE	NE	NE
1,2-Dichloropropane	0/48	ND		0/42	ND		0/6	ND		NE	NE	1.52E+01	8.44E+01
cis-1,3-Dichloropropene	0/48	ND		0/42	ND		0/6	ND		NE	NE	NE	NE

TABLE 3
SWMU 103 (Wastewater Playa Lake) Historical Sediment and Soil Analytical Detection Summary [a,b,c]
Cannon AFB, New Mexico

Chemical	All Data			Subsurface Soil			Surface Soil			Subsurface Background Concentration (mg/kg) [d]	Surface Background Concentration (mg/kg) [d]	NMED Residential SSL Concentration (mg/kg) [e,f]	NMED Industrial SSL Concentration (mg/kg) [e,f]
	Frequency Detected	Maximum Detected Concentration (mg/kg)	Validation Qualifier	Frequency Detected	Maximum Detected Concentration (mg/kg)	Validation Qualifier	Frequency Detected	Maximum Detected Concentration (mg/kg)	Validation Qualifier				
Volatile Organic Compounds													
trans-1,3-Dichloropropene	0/48	ND		0/42	ND		0/6	ND		NE	NE	NE	NE
Ethylbenzene	0/48	ND		0/42	ND		0/6	ND		NE	NE	6.84E+01	3.78E+02
2-Hexanone	0/48	ND		0/42	ND		0/6	ND		NE	NE	2.1E+02 [g]	1.4E+03 [g]
4-Methyl-2-pentanone (MIBK)	0/48	ND		0/42	ND		0/6	ND		NE	NE	5.82E+03	7.38E+04
Methylene chloride	8/48	5.60E-03	J	7/42	5.60E-03	J	1/6	2.20E-03	J	NE	NE	4.09E+02	4.70E+03
Styrene	0/48	ND		0/42	ND		0/6	ND		NE	NE	7.28E+03	5.00E+04
1,1,2,2-Tetrachloroethane	0/48	ND		0/42	ND		0/6	ND		NE	NE	8.02E+00	4.35E+01
Tetrachloroethene	0/48	ND		0/42	ND		0/6	ND		NE	NE	7.02E+00	3.66E+01
Toluene	8/48	3.60E-03	J	7/42	3.60E-03	J	1/6	1.10E-03	J	NE	NE	5.27E+03	5.77E+04
1,1,1-Trichloroethane	0/48	ND		0/42	ND		0/6	ND		NE	NE	1.56E+04	7.89E+04
1,1,2-Trichloroethane	0/48	ND		0/42	ND		0/6	ND		NE	NE	2.81E+00	1.33E+01
Trichloroethene	0/48	ND		0/42	ND		0/6	ND		NE	NE	8.77E+00	4.13E+01
Vinyl acetate	0/48	ND		0/42	ND		0/6	ND		NE	NE	2.56E+03	1.23E+04
Vinyl chloride	0/48	ND		0/42	ND		0/6	ND		NE	NE	7.28E-01	2.61E+01
Xylenes (total)	0/48	ND		0/42	ND		0/6	ND		NE	NE	8.14E+02	3.98E+03
Semivolatile Organic Compounds													
Acenaphthene	0/48	ND		0/42	ND		0/6	ND		NE	NE	3.44E+03	3.67E+04
Acenaphthylene	0/48	ND		0/42	ND		0/6	ND		NE	NE	NE	NE
Antracene	0/48	ND		0/42	ND		0/6	ND		NE	NE	1.72E+04	1.83E+05
Benzo(a)anthracene	1/48	5.30E-02	J	0/42	ND		1/6	5.30E-02	J	NE	NE	1.48E+00	2.34E+01
Benzo(a)pyrene	1/48	6.10E-02	J	0/42	ND		1/6	6.10E-02	J	NE	NE	1.48E-01	2.34E+00
Benzo(b)fluoranthene	1/48	9.50E-02	J	0/42	ND		1/6	9.50E-02	J	NE	NE	1.48E+00	2.34E+01
Benzo(g,h,i)perylene	0/48	ND		0/42	ND		0/6	ND		NE	NE	NE	NE
Benzo(k)fluoranthene	0/48	ND		0/42	ND		0/6	ND		NE	NE	1.48E+01	2.34E+02
Benzoic acid	0/48	ND		0/42	ND		0/6	ND		NE	NE	240,000[g]	2.5E+06[g]
Benzly alcohol	0/48	ND		0/42	ND		0/6	ND		NE	NE	6.1E+03 [g]	6.2E+04 [g]
bis(2-Chloroethoxy) methane	0/48	ND		0/42	ND		0/6	ND		NE	NE	1.8E+02 [g]	1.8E+03 [g]
bis(2-Chloroethyl) ether	0/48	ND		0/42	ND		0/6	ND		NE	NE	2.68E+00	1.42E+01
bis(2-Chloroisopropyl) ether	0/48	ND		0/42	ND		0/6	ND		NE	NE	9.15E+01	4.54E+02
bis(2-Ethylhexyl) phthalate	6/48	5.80E+00		6/42	5.80E+00		0/6	ND		NE	NE	3.47E+02	1.37E+03
4-Bromophenyl phenyl ether	0/48	ND		0/42	ND		0/6	ND		NE	NE	NE	NE
Butyl benzyl phthalate	0/48	ND		0/42	ND		0/6	ND		NE	NE	2.6E+02 [g]	9.1E+02 [g]
Carbazole	0/48	ND		0/42	ND		0/6	ND		NE	NE	NE	NE
4-Chloro-3-methylphenol	0/48	ND		0/42	ND		0/6	ND		NE	NE	NE	NE
4-Chloroaniline	0/48	ND		0/42	ND		0/6	ND		NE	NE	NE	NE
2-Chloronaphthalene	0/48	ND		0/42	ND		0/6	ND		NE	NE	6.26E+03	9.08E+04
2-Chlorophenol	0/48	ND		0/42	ND		0/6	ND		NE	NE	3.91E+02	5.68E+03
4-Chlorophenyl phenyl ether	0/48	ND		0/42	ND		0/6	ND		NE	NE	NE	NE
Chrysene	1/48	6.70E-02	J	0/42	ND		1/6	6.70E-02	J	NE	NE	1.48E+02	2.34E+03
Di-n-butyl phthalate	1/48	2.00E-01	J	1/42	2.00E-01	J	0/6	ND		NE	NE	NE	NE
Di-n-octyl phthalate	1/48	4.30E-01		1/42	4.30E-01		0/6	ND		NE	NE	NE	NE
Dibenz(a,h)anthracene	0/48	ND		0/42	ND		0/6	ND		NE	NE	1.48E-01	2.34E+00
Dibenzofuran	0/48	ND		0/42	ND		0/6	ND		NE	NE	NE	NE

TABLE 3
SWMU 103 (Wastewater Playa Lake) Historical Sediment and Soil Analytical Detection Summary [a,b,c]
Cannon AFB, New Mexico

Chemical	All Data			Subsurface Soil			Surface Soil			Subsurface Background Concentration (mg/kg) [d]	Surface Background Concentration (mg/kg) [d]	NMED Residential SSL Concentration (mg/kg) [e,f]	NMED Industrial SSL Concentration (mg/kg) [e,f]
	Frequency Detected	Maximum Detected Concentration (mg/kg)	Validation Qualifier	Frequency Detected	Maximum Detected Concentration (mg/kg)	Validation Qualifier	Frequency Detected	Maximum Detected Concentration (mg/kg)	Validation Qualifier				
Semivolatile Organic Compounds													
1,2-Dichlorobenzene	0/48	ND		0/42	ND		0/6	ND		NE	NE	2.31E+03	1.40E+04
1,3-Dichlorobenzene	0/48	ND		0/42	ND		0/6	ND		NE	NE	NE	NE
1,4-Dichlorobenzene	0/48	ND		0/42	ND		0/6	ND		NE	NE	3.17E+01	1.77E+02
2,4-Dichlorophenol	0/48	ND		0/42	ND		0/6	ND		NE	NE	1.83E+02	2.05E+03
3-3-Dichlorobenzidine	0/48	ND		0/42	ND		0/6	ND		NE	NE	1.08E+01	4.26E+01
Diethyl phthalate	0/48	ND		0/42	ND		0/6	ND		NE	NE	4.89E+04	5.47E+05
2,4-Dimethylphenol	0/48	ND		0/42	ND		0/6	ND		NE	NE	1.22E+03	1.37E+04
Dimethyl phthalate	0/48	ND		0/42	ND		0/6	ND		NE	NE	6.11E+05	6.84E+06
4,6-Dinitro-2-methylphenol	0/48	ND		0/42	ND		0/6	ND		NE	NE	4.89E+00	5.47E+01
2,4-Dinitrophenol	0/48	ND		0/42	ND		0/6	ND		NE	NE	1.22E+02	1.37E+03
2,4-Dinitrotoluene	0/48	ND		0/42	ND		0/6	ND		NE	NE	1.57E+01	6.18E+01
2,6-Dinitrotoluene	0/48	ND		0/42	ND		0/6	ND		NE	NE	6.11E+01	6.84E+02
Fluoranthene	2/48	6.90E-02	J	0/42	ND		2/6	6.90E-02	J	NE	NE	2.29E+03	2.44E+04
Fluorene	0/48	ND		0/42	ND		0/6	ND		NE	NE	2.29E+03	2.44E+04
Hexachlorobenzene	0/48	ND		0/42	ND		0/6	ND		NE	NE	3.04E+00	1.20E+01
Hexachlorobutadiene	0/48	ND		0/42	ND		0/6	ND		NE	NE	6.11E+01	2.46E+02
Hexachlorocyclopentadiene	0/48	ND		0/42	ND		0/6	ND		NE	NE	3.67E+02	4.10E+03
Hexachloroethane	0/48	ND		0/42	ND		0/6	ND		NE	NE	4.28E+01	4.79E+02
Indeno(1,2,3-cd)pyrene	0/48	ND		0/42	ND		0/6	ND		NE	NE	1.48E+00	2.34E+01
Isophorone	0/48	ND		0/42	ND		0/6	ND		NE	NE	5.12E+03	1.37E+05
2-Methylnaphthalene	0/48	ND		0/42	ND		0/6	ND		NE	NE	NE	NE
2-Methylphenol	0/48	ND		0/42	ND		0/6	ND		NE	NE	NE	NE
4-Methylphenol	0/48	ND		0/42	ND		0/6	ND		NE	NE	NE	NE
Naphthalene	0/48	ND		0/42	ND		0/6	ND		NE	NE	4.30E+01	2.41E+02
2-Nitroaniline	0/48	ND		0/42	ND		0/6	ND		NE	NE	6.1E+02 [g]	6.0E+03[g]
3-Nitroaniline	0/48	ND		0/42	ND		0/6	ND		NE	NE	NE	NE
4-Nitroaniline	0/48	ND		0/42	ND		0/6	ND		NE	NE	2.4E+01 [g]	8.6E+02 [g]
Nitrobenzene	0/48	ND		0/42	ND		0/6	ND		NE	NE	5.35E+01	3.00E+02
2-Nitrophenol	0/48	ND		0/42	ND		0/6	ND		NE	NE	NE	NE
4-Nitrophenol	0/48	ND		0/42	ND		0/6	ND		NE	NE	NE	NE
N-Nitroso-di-n-propylamine	0/48	ND		0/42	ND		0/6	ND		NE	NE	6.9E-02 [g]	2.5E-01 [g]
N-Nitrosodiphenylamine	0/48	ND		0/42	ND		0/6	ND		NE	NE	9.93E+02	3.91E+03
Pentachlorophenol	0/48	ND		0/42	ND		0/6	ND		NE	NE	8.94E+00	3.00E+01
Phenanthrene	0/48	ND		0/42	ND		0/6	ND		NE	NE	1.83E+03	2.05E+04
Phenol	0/48	ND		0/42	ND		0/6	ND		NE	NE	1.83E+04	2.05E+05
Pyrene	1/48	7.10E-02	J	0/42	ND		1/6	7.10E-02	J	NE	NE	1.72E+03	1.83E+04
1,2,4-Trichlorobenzene	0/48	ND		0/42	ND		0/6	ND		NE	NE	7.30E+01	3.67E+02
2,4,5-Trichlorophenol	0/48	ND		0/42	ND		0/6	ND		NE	NE	6.11E+03	6.84E+04
2,4,6-Trichlorophenol	0/48	ND		0/42	ND		0/6	ND		NE	NE	6.11E+01	6.84E+02

TABLE 3
SWMU 103 (Wastewater Playa Lake) Historical Sediment and Soil Analytical Detection Summary [a,b,c]
Cannon AFB, New Mexico

Chemical	All Data			Subsurface Soil			Surface Soil			Subsurface Background Concentration (mg/kg) [d]	Surface Background Concentration (mg/kg) [d]	NMED Residential SSL Concentration (mg/kg) [e,f]	NMED Industrial SSL Concentration (mg/kg) [e,f]
	Frequency Detected	Maximum Detected Concentration (mg/kg)	Validation Qualifier	Frequency Detected	Maximum Detected Concentration (mg/kg)	Validation Qualifier	Frequency Detected	Maximum Detected Concentration (mg/kg)	Validation Qualifier				
Pesticides													
Aroclor 1016	0/43	ND		0/38	ND		0/5	ND		NE	NE	3.93E+00	4.13E+01
Aroclor 1221	0/43	ND		0/38	ND		0/5	ND		NE	NE	1.49E+00	6.24E+00
Aroclor 1232	0/43	ND		0/38	ND		0/5	ND		NE	NE	1.49E+00	6.24E+00
Aroclor 1242	0/43	ND		0/38	ND		0/5	ND		NE	NE	2.22E+00	8.26E+00
Aroclor 1248	2/43	7.50E-01		1/38	4.80E-01		1/5	7.50E-01		NE	NE	2.22E+00	8.26E+00
Aroclor 1254	0/47	ND		0/42	ND		0/5	ND		NE	NE	1.12E+00	8.26E+00
Aroclor 1260	0/43	ND		0/38	ND		0/5	ND		NE	NE	2.22E+00	8.26E+00
4,4'-DDD	0/47	ND		0/42	ND		0/5	ND		NE	NE	2.03E+01	7.98E+01
4,4'-DDE	4/47	2.00E-01		3/42	2.00E-01		1/5	2.40E-03	J	NE	NE	1.43E+01	5.63E+01
4,4'-DDT	3/47	2.40E-01		2/42	2.40E-01		1/5	3.70E-03		NE	NE	1.72E+01	7.81E+01
Aldrin	0/47	ND		0/42	ND		0/5	ND		NE	NE	2.84E-01	1.12E+00
alpha-BHC	0/47	ND		0/42	ND		0/5	ND		NE	NE	7.72E-01	3.04E+00
alpha-Chlordane	0/47	ND		0/42	ND		0/5	ND		NE	NE	1.62E+01	7.19E+01
beta-BHC	0/47	ND		0/42	ND		0/5	ND		NE	NE	2.70E+00	1.06E+01
delta-BHC	0/47	ND		0/42	ND		0/5	ND		NE	NE	NE	NE
Dieldrin	1/47	2.40E-03	J	1/42	2.40E-03	J	0/5	ND		NE	NE	3.04E-01	1.20E+00
Endosulfan I	0/47	ND		0/42	ND		0/5	ND		NE	NE	3.67E+02	4.10E+03
Endosulfan II	0/47	ND		0/42	ND		0/5	ND		NE	NE	NE	NE
Endosulfan sulfate	0/47	ND		0/42	ND		0/5	ND		NE	NE	NE	NE
Endrin	1/47	2.60E-03	J	1/42	2.60E-03	J	0/5	ND		NE	NE	1.83E+01	2.05E+02
Endrin aldehyde	0/47	ND		0/42	ND		0/5	ND		NE	NE	NE	NE
Endrin ketone	0/47	ND		0/42	ND		0/5	ND		NE	NE	NE	NE
gamma-BHC (Lindane)	0/47	ND		0/42	ND		0/5	ND		NE	NE	5.17E+00	2.29E+01
gamma-Chlordane	3/47	2.40E-03		3/42	2.40E-03		0/5	ND		NE	NE	NE	NE
Heptachlor	0/47	ND		0/42	ND		0/5	ND		NE	NE	1.08E+00	4.26E+00
Heptachlor epoxide	0/47	ND		0/42	ND		0/5	ND		NE	NE	NE	NE
Methoxychlor	0/47	ND		0/42	ND		0/5	ND		NE	NE	3.1E+02 [g]	3.1E+03 [g]
Toxaphene	0/47	ND		0/42	ND		0/5	ND		NE	NE	4.42E+00	1.74E+01
Herbicides													
2,4-D	0/42	ND		0/37	ND		0/5	ND		NE	NE	NE	NE
2,4-DB	0/42	ND		0/37	ND		0/5	ND		NE	NE	NE	NE
Dalapon	0/42	ND		0/37	ND		0/5	ND		NE	NE	1.8E+03 [g]	1.8E+04 [g]
Dicamba	0/42	ND		0/37	ND		0/5	ND		NE	NE	1.8E+03 [g]	1.8E+04 [g]
Dichlorprop	0/42	ND		0/37	ND		0/5	ND		NE	NE	NE	NE
Dinoseb	0/42	ND		0/37	ND		0/5	ND		NE	NE	6.1E+01 [g]	6.2E+02 [g]
MCPA	0/42	ND		0/37	ND		0/5	ND		NE	NE	3.1E+01 [g]	3.1E+02 [g]
MCPP	0/42	ND		0/37	ND		0/5	ND		NE	NE	6.1E+01 [g]	6.2E+02 [g]
2,4,5-Trichlorophenol	0/42	ND		0/37	ND		0/5	ND		NE	NE	6.11E+03	6.84E+04
2,4,5-TP (Silvex)	0/42	ND		0/37	ND		0/5	ND		NE	NE	NE	NE

TABLE 3
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Cannon AFB, New Mexico

Chemical	All Data			Subsurface Soil			Surface Soil			Subsurface Background Concentration (mg/kg) [d]	Surface Background Concentration (mg/kg) [d]	NMED Residential SSL Concentration (mg/kg) [e,f]	NMED Industrial SSL Concentration (mg/kg) [e,f]
	Frequency Detected	Maximum Detected Concentration (mg/kg)	Validation Qualifier	Frequency Detected	Maximum Detected Concentration (mg/kg)	Validation Qualifier	Frequency Detected	Maximum Detected Concentration (mg/kg)	Validation Qualifier				
Polychlorinated Biphenyl													
PCB 105	6/10	1.30E-06		0/4	ND		6/6	1.30E-06		NE	NE	1.14E+00	4.24E+00
PCB 114	5/10	1.20E-07		0/4	ND		5/6	1.20E-07		NE	NE	1.14E+00	4.24E+00
PCB 118	5/10	3.00E-06		0/4	ND		5/6	3.00E-06		NE	NE	1.14E+00	4.24E+00
PCB 123	0/10	ND		0/4	ND		0/6	ND		NE	NE	1.14E+00	4.24E+00
PCB 126	3/10	3.60E-08		0/4	ND		3/6	3.60E-08		NE	NE	3.41E-04	1.27E-03
PCB 156	6/10	3.40E-07		0/4	ND		6/6	3.40E-07		NE	NE	1.14E+00	4.24E+00
PCB 157	4/10	7.10E-08		0/4	ND		4/6	7.10E-08		NE	NE	1.14E+00	4.24E+00
PCB 167	3/10	9.30E-08		0/4	ND		3/6	9.30E-08		NE	NE	1.14E+00	4.24E+00
PCB 169	0/10	ND		0/4	ND		0/6	ND		NE	NE	1.14E-03	4.24E-03
PCB 170	5/10	2.70E-07	J	0/4	ND		5/6	2.70E-07	J	NE	NE	3.41E-01	1.27E+00
PCB 180	5/10	5.80E-07	J	0/4	ND		5/6	5.80E-07	J	NE	NE	3.41E+00	1.27E+01
PCB 189	2/10	6.50E-09	J	0/4	ND		2/6	6.50E-09	J	NE	NE	1.14E+00	4.24E+00
PCB 77	6/10	2.90E-07		0/4	ND		6/6	2.90E-07		NE	NE	3.41E-01	1.27E+00
PCB 81	4/10	3.40E-08		0/4	ND		4/6	3.40E-08		NE	NE	1.14E-01	4.24E-01
Dioxins/Furans													
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	6/6	3.50E-05		0/0	NS		6/6	3.50E-05		NE	NE	NE	NE
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	2/6	7.40E-06	J	0/0	NS		2/6	7.40E-06	J	NE	NE	NE	NE
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	2/6	2.90E-06	J	0/0	NS		2/6	2.90E-06	J	NE	NE	NE	NE
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	1/6	2.40E-06	J	0/0	NS		1/6	2.40E-06	J	NE	NE	NE	NE
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	2/6	2.50E-06	J	0/0	NS		2/6	2.50E-06	J	NE	NE	NE	NE
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	1/6	1.00E-06	J	0/0	NS		1/6	1.00E-06	J	NE	NE	NE	NE
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	0/6	ND		0/0	NS		0/6	ND		NE	NE	NE	NE
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	0/6	ND		0/0	NS		0/6	ND		NE	NE	NE	NE
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	0/6	ND		0/0	NS		0/6	ND		NE	NE	NE	NE
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	0/6	ND		0/0	NS		0/6	ND		NE	NE	NE	NE
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	0/6	ND		0/0	NS		0/6	ND		NE	NE	NE	NE
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	1/6	2.20E-06	J	0/0	NS		1/6	2.20E-06	J	NE	NE	NE	NE
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	1/6	1.70E-06	J	0/0	NS		1/6	1.70E-06	J	NE	NE	NE	NE
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	5/6	7.60E-06	J	0/0	NS		5/6	7.60E-06	J	NE	NE	4.50E-05	2.04E-04
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	3/6	3.60E-06	J	0/0	NS		3/6	3.60E-06	J	NE	NE	4.50E-04	2.04E-03
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	6/6	2.60E-04		0/0	NS		6/6	2.60E-04		NE	NE	NE	NE
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	3/6	1.10E-05	J	0/0	NS		3/6	1.10E-05	J	NE	NE	NE	NE
TEQ	6/6	8.40E-06		0/0	NS		6/6	8.40E-06		NE	NE	NE	NE
Total Petroleum Hydrocarbons													
Total Recoverable Petroleum Hydrocarbons	10/48	**5.89E+03**		8/42	**5.89E+03**		2/6	7.34E+02	J	NE	NE	1.00E+03	1.00E+03
TPH-DRO	3/12	6.30E+01		0/0	NS		3/12	6.30E+01		NE	NE	1.00E+03	1.00E+03
Total Petroleum Hydrocarbons													
TPH-ORO	4/12	6.80E+01		0/0	NS		4/12	6.80E+01		NE	NE	1.00E+03	1.00E+03
TPH-GRO	1/12	1.90E+01	J	0/0	NS		1/12	1.90E+01	J	NE	NE	1.00E+03	1.00E+03

TABLE 3
SWMU 103 (Wastewater Playa Lake) Historical Analytical Detection Summary [a,b,c]
Cannon AFB, New Mexico

Notes:

[a] Woodward-Clyde Consultants, Inc., 1994. Table 19-2a. *RCRA Facility Investigation, Appendix III SWMUs, Phase I,* Cannon Air Force Base, New Mexico.

[b] Woodward-Clyde Consultants, Inc., 1997. Table A-5. *RCRA Facility Investigation, Appendix III SWMUs, Phase II,* Cannon Air Force Base, New Mexico, November.

[c] URS Group, Inc., 2011. Tables 7-3a through 7-3b. *Playa Lake (SWMU 103) Phase III RCRA Facility Investigation Report,* Cannon Air Force Base, New Mexico, May.

[d] Woodward-Clyde Consultants, Inc., 1997. Table 6-3. *Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon Air Force Base, New Mexico,* September.

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

[f] New Mexico Environment Department (NMED), 2012. Table 6-2. TPH Screening Guidelines for Potable Groundwater (GW-1), Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and the Ground Water Quality Bureau - Voluntary Remediation Program, February 2012. Values provided are for unknown oil.

[g] U.S. Environmental Protection Agency (EPA), 2012. Regions 3, 6, and 9 Regional Screening Levels for Chemical Contaminants at Superfund Sites, November.

[h] Value is for elemental mercury.

BOLD Indicates the result exceeds the NMED residential SSL.

Indicates the result exceeds the Cannon AFB background value.

AFB = Air Force Base
DAF = dilution attenuation factor
DRO = diesel range organics
EPA = U.S. Environmental Protection Agency
GRO = gasoline range organics
J = Result concentration is estimated.
mg/kg = milligram per kilogram
ND = Result not detected.
NE = not established
NMED = New Mexico Environment Department
NS = not sampled
ORO = oil range organics
PCB = polychlorinated biphenyl
RCRA = Resource Conservation and Recovery Act
SSL = soil screening level
SWMU = Solid Waste Management Unit
TEQ = toxic equivalency quotient
TPH = total petroleum hydrocarbon

TABLE 4

SWMU 103 (Wastewater Playa Lake) Historical Surface Water Analytical Detection Summary [a,b]

Cannon AFB, New Mexico

Chemical	Frequency Detected	Maximum Detected Concentration (µg/L)	Validation Qualifier	NMWQCC WQS (µg/L) [c]	EPA MCL (µg/L) [d]
Metals					
Total Lead	1/6	2.10E+00	J	5.00E+01	1.50E+01
Total Selenium	0/6	ND		5.00E+01	5.00E+01
Total Silver	1/6	1.20E+00		5.00E+01	NE
Dissolved Lead	1/6	4.60E+00	J	5.00E+01	1.50E+01
Dissolved Selenium	0/6	ND		5.00E+01	5.00E+01
Dissolved Silver	0/6	ND		5.00E+01	NE
Arsenic	3/3	5.70E+00	J	1.00E+02	1.00E+01
Barium	3/3	7.60E+01		1.00E+03	2.00E+03
Copper	3/3	5.10E+01	J	1.00E+03	1.30E+03
Lead	1/3	6.00E+00	J	5.00E+01	1.50E+01
Silver	3/3	9.20E+00	J	5.00E+01	NE
Vanadium	3/3	8.90E+00	J	NE	NE
Zinc	3/3	1.90E+01	J	1.00E+04	NE
Polychlorinated Biphenyls					
PCB 105	1/6	3.00E-05	J	1.00E+00	5.00E-01
PCB 114	1/6	1.80E-05	J	1.00E+00	5.00E-01
PCB 118	4/6	5.10E-04		1.00E+00	5.00E-01
PCB 123	0/6	ND		1.00E+00	5.00E-01
PCB 126	0/6	ND		1.00E+00	5.00E-01
PCB 156	3/6	4.90E-05	J	1.00E+00	5.00E-01
PCB 157	0/6	ND		1.00E+00	5.00E-01
PCB 167	0/6	ND		1.00E+00	5.00E-01
PCB 169	0/6	ND		1.00E+00	5.00E-01
PCB 170	1/6	3.50E-04	J	1.00E+00	5.00E-01
PCB 180	6/6	9.00E-04	J	1.00E+00	5.00E-01
PCB 189	0/6	ND		1.00E+00	5.00E-01
PCB 77	1/6	7.60E-06	J	1.00E+00	5.00E-01
PCB 81	0/6	ND		1.00E+00	5.00E-01
Dioxins/Furans					
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	0/6	ND		NE	NE
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	0/6	ND		NE	NE
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	0/6	ND		NE	NE
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0/6	ND		NE	NE
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	0/6	ND		NE	NE
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0/6	ND		NE	NE
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	0/6	ND		NE	NE
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	0/6	ND		NE	NE
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	0/6	ND		NE	NE
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	0/6	ND		NE	NE
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	0/6	ND		NE	NE
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	0/6	ND		NE	NE
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	0/6	ND		NE	NE
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	0/6	ND		NE	3.00E-05

TABLE 4

SWMU 103 (Wastewater Playa Lake) Historical Surface Water Analytical Detection Summary [a,b]

Cannon AFB, New Mexico

Chemical	Frequency Detected	Maximum Detected Concentration (µg/L)	Validation Qualifier	NMWQCC WQS (µg/L) [c]	EPA MCL (µg/L) [d]
Dioxins/Furans					
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	0/6	ND		NE	NE
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	1/6	1.90E-05	J	NE	NE
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	0/6	ND		NE	NE
TEQ	1/6	5.70E-09		NE	NE
Cyanide					
Cyanide	2/3	1.40E+01		2.00E+02	2.00E+02
Water Quality					
Total Sulfide	3/3	8.00E+02		NE	NE
Semivolatile Organic Compounds					
Isophorone	1/3	1.40E+00	J	NE	NE

Notes:

[a] Woodward-Clyde Consultants, Inc., 1994. Table 19-2b. *RCRA Facility Investigation, Appendix III SWMUs, Phase I,* Cannon Air Force Base, New Mexico .

[b] URS Group, Inc., 2011. Tables 7-1a through 7-1b. *Playa Lake (SWMU 103) Phase III RCRA Facility Investigation Report,* Cannon Air Force Base, New Mexico, May.

[c] New Mexico Water Quality Control Commission (NMWQCC), 2001. 20.6.2.7(ww) New Mexico Administrative Code (NMAC), *Definitions - toxic pollutant* .

[d] U.S. Environmental Protection Agency (EPA), 2012. Regions 3, 6, and 9 Regional Screening Levels for Chemical Contaminants at Superfund Sites, November.

µg/L = Microgram per Liter

AFB = Air Force Base

EPA = U.S. Environmental Protection Agency

J = Estimated Detection

MCL = Maximum Contaminant Level

ND = Result Not Detected

NE = Not Established

NMAC = New Mexico Administrative Code

NMWQCC = New Mexico Water Quality Control Commission

PCB = Polychlorinated Biphenyl

RCRA = Resource Conservation and Recovery Act

SWMU = Solid Waste Management Unit

TEQ = Toxic Equivalency Quotient

WQS = Water Quality Standards

Appendix A
NMED Guidance Letters

CORRECTIVE ACTION COMPLETE PROPOSALS

A. Letters

Appendix A-1, NMED letter: RE: Approval with Modifications Phase II Supplemental Assessment at Area of Concern A (SS-19), Cannon Air Force Base, New Mexico, October 25, 2012.

Appendix A-2, NMED letter; No Further Action Petition, Cannon Air Force Base, New Mexico, January 12, 2004.

Appendix A-3, NMED letter; Approval Final Report, Supplemental Assessment of Areas of Concern A, B, & C, Cannon Air Force Base, March 30, 2009.

Appendix A-4, NMED letter; RE: Requirement For Further Corrective Action, Corrective Action Complete Proposals, July 2008, Cannon Air Force Base, September 14, 2009.

Appendix A-5, NMED letter: RE: Approval with Direction RCRA Facility Investigation for 21 SWMUs, Cannon Air Force Base, New Mexico, May 14, 2008.

Appendix A-6, NMED letter: RE: Notice of Approval Final RCRA Facility Investigation for SWMUs 34, 78, 85, 91, 95, and 107 Addendum Report, May 2010, Cannon Air Force Base, New Mexico, June 7, 2010.

Appendix A-7, NMED letter: RE: Approval Revised Playa Lake (SWMU 103) Phase III RCRA Facility Investigation Report, Cannon Air Force Base, New Mexico, November 16, 2012.

NEW MEXICO ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

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

SUSANA MARTINEZ
Governor

JOHN A. SANCHEZ
Lieutenant Governor

DAVE MARTIN
Secretary

BUTCH TONGATE
Deputy Secretary

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

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

October 25, 2012

Colonel David C. Piech
27th Special Operations Mission Support Group
110 E. Sextant Avenue, Building 600, Suite 1098
Cannon Air Force Base, New Mexico 88103

RE: APPROVAL WITH MODIFICATIONS
PHASE II SUPPLEMENTAL ASSESSMENT AT AREA OF CONCERN A (SS-19)
CANNON AIR FORCE BASE, NEW MEXICO
EPA ID # NM7572124454
HWB-CAFB-12-001

Dear Col. Piech:

The New Mexico Environment Department (NMED) has completed a review Cannon Air Force Base's (Permittee) *Phase II Supplemental Assessment at Area of Concern A (SS-19)* (Report) dated February 22, 2012. NMED hereby issues this approval with modifications with the following comments.

Table 3-2 (Summary of Analytical Data Screening Results, Phase II Supplemental Assessment at AOC A (SS-19), Cannon Air Force Base, New Mexico) indicates that results exceed Los Alamos National Laboratory Ecological Screening Levels (LANL ESL)'s. In **Section 3.3 Screening Results, bottom of page 3-1, top of page 3-2** the Permittee states "[t]he maximum lead concentration (1.2E+02 mg/kg) is below the NMED residential screening level for lead (4.00E=02 mg/kg)…[f]ive of the six surface soil samples from AOC A were above LANL ESL's…[t]he following LANL ESLs were exceeded: American robin…and Montane shrew…" In **Section 3.4.1 Qualitative Assessment Checklists, pages 3-2 through 3-5** the Permittee describes how NMED's Scoping Site Assessment Checklist and Ecological Site Exclusion Checklist were used to assist in the qualitative assessment phase to determine that further ecological assessment or risk screening were warranted for Area of Concern (AOC) A

(SS-19).

Since the initial screening resulted in slightly elevated hazard quotients (HQ)s, NMED conducted a refined ERA (see Attachment 1). The results of the refined ecological risk assessment (ERA) determined that the calculated ecological HQs would be well below target levels for both individual American robin and Montane shrew receptors and populations based on a more refined assessment, indicating that lead in soil at AOC A (SS-19) would not likely pose ecological risk. Therefore, the conclusion of the baseline ERA presented in the *Phase II Supplemental Assessment at Area of Concern (AOC) A*, as clarified with this assessment, is adequate and would meet NMED requirements for approval.

No response to this letter is necessary. If you have any questions regarding this letter, please call Dave Cobrain of my staff at (505) 476-6055.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

Attachment 1: New Mexico Environment Department's Refined Ecological Risk Assessment for AOC A (SS-19), Cannon Air Force Base, New Mexico

cc: D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
L. Andress, NMED HWB
M. Higginbotham, CAFB
R. Lancaster, CAFB

File: CAFB 2012 and Reading
CAFB-12-001

New Mexico Environment Department's Refined Ecological Risk Assessment for AOC A (SS-19), Cannon Air Force Base, New Mexico

The baseline (ecological risk assessment (ERA) presented in Cannon Air Force Base (CAFB)'s *Phase II Supplemental Assessment at AOC A (SS-19)*, dated February 2012 concluded that the site would provide little or no suitable foraging habitat since the site is industrially developed: 67% of the site is covered in roads/parking lots/buildings, and the remaining 33% consists of regularly maintained lawns. Therefore, further ecological evaluation was not conducted at AOC A. Because detected concentrations of lead in four of the additional soil samples slightly exceeded Los Alamos National Laboratory's (LANL's) Ecological Screening Levels (ESLs) for the American robin and the Montane shrew the New Mexico Environment Department (NMED) conducted a refined ecological risk assessment (ERA) for Area of Concern (AOC) A.

While the site may potentially provide some foraging habitat for ecological receptors, it is agreed that it would not be significant due to the limited area (possibility of 33% of the site) and the relatively small size of the site. The assessment provided by CAFB was limited to an initial screening (Tier 1) based on conservative toxicity data No-Observed Adverse Effect Levels (NOAELs). Because the initial screening did result in slightly elevated hazard quotients (HQs), further quantitative ecological evaluation should have been conducted for the American robin and Montane shrew receptors using an application of lowest observed adverse effect levels (LOAELs) and area use and population area use factors.

NMED assumed that the average home ranges consist of 1.1 acres for the American Robin and 0.96 acres for the Montane shrew. In addition, NMED assumed that only 33% of the acreage at the site was suitable for habitat. Using modifications of the area use factors and population use factors along with LOAEL-based LANL ESLs, more refined HQs were calculated as shown in the below tables.

Table 1 - Refined HQ for American Robin, Insectivore.

Constituent	Maximum (mg/kg)	LOAEL-based ESL American Robin (Avian Insectivore) (mg/kg)	AUF	PAUF	Adjusted Individual HQ	Adjusted Population HQ
Lead	1.12E+02	2.80E+01	1.80E-01	4.50E-03	7.20E-01	1.80E-02

ESL = LANL ecological screening level based on LOAEL.

AUF (area use factor) = exposure area/home range. Exposure area is 33% of site area (0.6 acre) = 0.2 acre. Average home range for American robin is 1.1 acre (USEPA, 1993).

PAUF (population area use factor) = exposure area/population area. Exposure area is 33% of 0.6 acre = 0.2 acre. Population area for American robin is 44 acres (USEPA, 1993).

Table 2 - Refined HQ for American Robin, Omnivore.

Constituent	Maximum (mg/kg)	LOAEL-based ESL American Robin (Avian Omnivore) (mg/kg)	AUF	PAUF	Adjusted Individual HQ	Adjusted Population HQ
Lead	1.12E+02	3.30E+01	1.80E-01	4.50E-03	6.11E-01	1.53E-02

ESL = LANL ecological screening level based on LOAEL.

AUF = exposure area/home range. Exposure area is 33% of site area (0.6 acre) = 0.2 acre. Average home range for American robin is 1.1 acre (USEPA, 1993).

PAUF = exposure area/population area. Exposure area is 33% of site area (0.6 acre) = 0.2 acre. Population area for American robin is 44 acres (USEPA, 1993).

Table 3 - Refined HQ for American Robin, Herbivore.

Constituent	Maximum (mg/kg)	LOAEL-based ESL American Robin (Avian Herbivore) (mg/kg)	AUF	PAUF	Adjusted Individual HQ	Adjusted Population HQ
Lead	1.12E+02	4.20E+01	1.80E-01	4.50E-03	4.80E-01	1.20E-02

ESL = LANL ecological screening level based on LOAEL.

AUF = exposure area/home range. Exposure area is 33% of site area (0.6 acre) = 0.2 acre. Average home range for American robin is 1.1 acre (USEPA, 1993).

PAUF = exposure area/population area. Exposure area is 33% of site area (0.6 acre) = 0.2 acre. Population area for American robin is 44 acres (USEPA, 1993).

Table 4 - Refined HQ for Montane Shrew.

Constituent	Maximum (mg/kg)	LOAEL-based ESL Montane Shrew (mg/kg)	AUF	PAUF	Adjusted Individual HQ	Adjusted Population HQ
Lead	1.12E+02	1.30E+02	2.08E-01	5.00E-03	1.79E-01	4.31E-03

ESL = LANL ecological screening level based on LOAEL.

AUF = exposure area/home range. Exposure area is 33% of site area (0.6 acre) = 0.2 acre. Average home range for Montane shrew is 0.96 acre (USEPA, 1993).

PAUF = exposure area/population area. Exposure area is 33% of site area (0.6 acre) = 0.2 acre. Population area for Montane shrew is 39 acres (USEPA, 1993).

Reference: US EPA, 1993. *Wildlife Exposure Factors Handbook.* EPA/600/R-93/187. December.

The calculated ecological HQs would be well below target levels for both individual American robin and Montane shrew receptors and populations based on a more refined assessment, indicating that lead in soil at AOC A would not likely pose ecological risk. Therefore, the conclusion of the baseline ERA presented in the *Phase II Supplemental Assessment at Area of Concern (AOC) A*, as clarified with this assessment, is adequate and would meet NMED requirements for approval.

874 0

FILE: 17G
P.Z.

CANNON AFB
NEW MEXICO

ADMINISTRATIVE RECORD
COVER SHEET

AR File Number 874

874 1 AR# 874

State of New Mexico
ENVIRONMENT DEPARTMENT
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303
Telephone (505) 428-2500
Fax (505) 428-2567
www.nmenv.state.nm.us

BILL RICHARDSON
GOVERNOR

RON CURRY
SECRETARY

DERRITH WATCHMAN-MOORE
DEPUTY SECRETARY

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

January 12, 2004

Colonel Robert Yates
Commander, 27th Fighter Wing
100 D.L. Ingram Blvd., Suite 100
Cannon Air Force Base, New Mexico 88103-5214

SUBJECT: NO FURTHER ACTION PETITION
CANNON AIR FORCE BASE, NEW MEXICO
EPA ID No.: NMD000804294

Dear Colonel Yates:

The New Mexico Environment Department (NMED) has reviewed Cannon AFB's Class 3 Modification Request - No Further Action Proposals (NFA) submitted on September 5, 2000, as required pursuant to 20.4.2 NMAC. Any document submitted by a facility for review and approval must first pass an initial review to determine if all the required parts are contained in the document and that NMED are available to conduct the review in a timely fashion. Because of the number of solid waste management units (SWMUs) and areas of concern (AOCs) involved and limited resources, NMED has been unable to complete its initial review until recently.

As discussed with your staff, NMED recommends that Cannon resubmit its Petition for NFA Review. Many of the SWMUs and AOCs do not qualify for NFA approval either because these sites have never been adequately investigated, are sites that Cannon has submitted corrective measures studies that have not been reviewed, or are sites at which corrective measures have not yet been completed (see Table 1, Attachment 1). Cannon must conduct additional investigation and/or complete its final remedies before these sites can qualify for a NFA determination.

However, NMED has determined that approximately 35 SWMUs and AOCs appear to qualify for NFA approval (see Table 2, Attachment 1). Cannon has investigated or remediated these sites to NMED's satisfaction and NMED has previously recommended that Cannon submit a NFA petition (see Table 3, Attachment 1). NMED recommends that Cannon submit a new NFA petition for these 35 specific sites only in order to expedite the NFA review and approval process.

There are also several SWMUs and AOCs that Cannon may be able to justify including in its NFA petition with some additional information (see Table 3, Attachment 1), such as the inclusion of an approval letter from another bureau (*e.g.*, USTB).

If you have any questions concerning this letter, please call me at 505-428-2551.

Sincerely,

Glenn von Gonten
CAFB Project Leader
Permits Management Program

GVG:gvg

Attachment

cc: S.Y. Martin, NMED HWB
J. Kieling, NMED HWB
D. Cobrain, NMED HWB
L. King, EPA Region 6 (6PD-N)

File: Reading, CAFB 00-003, CAFB 2004

Section Tab

1

ATTACHMENT 1

NFA NO

TABLE 1 SWMUS AND AOCS THAT DO NOT QUALIFY FOR NFA DETERMINATION		
SWMU/AOC	**DESCRIPTION**	**COMMENTS**
AOC A	MOGAS Spill Site	No. Product spills that are not remediated are SWMUs/AOCs. Nb., Was designated as a SWMU/AOC in permit.
AOC B	JP-4 Fuel Spill	No. Product spills that are not remediated are SWMUs/AOCs. NB., Was designated as a SWMU/AOC in permit.
AOC C	Blown Capacitor Site	No. Product spills that are not remediated are SWMUs/AOCs. NB., Was designated as a SWMU/AOC in permit.
SWMU 2	Recovered Tank No. 108	No. Never Investigated. Need additional RFI phase.
SWMU 4	Recovered Tank No. 121	No. Never Investigated. Need additional RFI phase.
SWMU 31	AGE Maintenance Shop Pad	No. CMS is under review
SWMU 48a	Underground Waste Oil Tank	No. CMS is under review
SWMU 49	Inactive POL Storage Tank No. 4028a	No. Never Investigated. Need additional RFI phase.
SWMU 50	Inactive POL Storage Tank No. 4028b	No. Never Investigated. Need additional RFI phase.
SWMU 75	Sanitary Sewage Lift Station Overflow Pit	No. Never investigated. Cannot NFA accidental spill site that was neither investigated nor cleaned up.
SWMU 77	Civil Engineering Container Storage Area	No. CMS is under review
SWMU 86	Engine Test Cell	No. CMS is under review
SWMU 87	Former Overflow Pit	No. CMS is under review
SWMU 88	Former Leaching Field	No. CMS is under review
SWMU 89	Evaporation Pond	No. CMS is under review
SWMU 90	OWS No. 5114	No. CMS is under review
SWMU 91	Recovered Fuel Tank No. 5114	No. Bulk product AST requires investigation.

TABLE 1 SWMUS AND AOCS THAT DO NOT QUALIFY FOR NFA DETERMINATION		
SWMU/AOC	**DESCRIPTION**	**COMMENTS**
SWMU 97	Concrete Rubble Pile (Landfill 25)	No. CMS is under review.
SWMU 101	Wastewater Treatment System - Lagoons (2)	No. CMS is under review
SWMU 103	Wastewater Playa Lake	No. Eco Risk pending
SWMU 104	Landfill No. 4	No. CMS is under review
SWMU 105	Landfill No. 3	No. CMS is under review
SWMU 109	FTA 4	No. CMS is under review. Not included in NFA petition
SWMU 110	Underground Waste Oil Tank No. 2336 at FTA 4	No. CMS is under review. Not included in NFA Petition
SWMU 111	Unlined Pit at FTA 4	No. CMS is under review
SWMU 112	OWS No. 2336 at FTA 4	No. CMS is under review
SWMU 125	Inactive UST 2	No. Never investigated. UST was abandoned in place. EPA's decision that fuel/product at AST/USTs does not require investigations is not shared by NMED. Must conduct investigation.
SWMU 127	OWS Near Tank 4095 (#1) & Leach field	No. CMS is under review
SWMU 129	Waste Oil Storage Facility 244. Formerly known as AOC "I"	No. CMS is under review. Was not included in NFA Petition

NFA YES

TABLE 2 SWMUS AND AOCS THAT APPEAR TO QUALIFY FOR NFA DETERMINATION		
SWMU/AOC	**DESCRIPTION**	**COMMENTS**
SWMU 1	OWS 119	YES
SWMU 3	OWS 108	YES
SWMU 5	OWS 121	YES
SWMU 7	OWS 129	YES
SWMU 8	OWS 165	YES
SWMU 9	Aircraft Washrack Drain system	YES
SWMU 11	OWS 170	YES
SWMU 16	OWS 680	YES
SWMU 32a	OWS 186 (#1)	YES
SWMU 33b	OWS 186 (#2)	YES
SWMU 38	OWS 194	YES
SWMU 39	OWS 195	YES
SWMU 46	OWS 196	YES
SWMU 47	OWS 494	YES
SWMU 48b	Above Ground Overflow Capacity Tank	YES
SWMU 51	OWS 375	YES
SWMU 55	Lead Acid Battery Accumulation Point	YES
SWMU 57	OWS 379	YES
SWMU 61	OWS 5077a	YES
SWMU 62	OWS 5077b	YES
SWMU 63	OWS 5077c	YES
SWMU 70	OWS and Leach Field 326	YES
SWMU 74	Landfill No. 1	YES
SWMU 83	Sump	YES
SWMU 92	OWS No. 5120	YES

Bio-venting

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TABLE 2 SWMUS AND AOCS THAT APPEAR TO QUALIFY FOR NFA DETERMINATION		
SWMU/AOC	**DESCRIPTION**	**COMMENTS**
SWMU 93	OWS No. 5121	YES
SWMU 94	OWS No. 5144	YES
SWMU 108	Explosive Ordinance Disposal Activities Area	YES, but was not included in NFA Petition.
SWMU 113	Landfill 5 Cell 3	YES
AOC D	Asbestos Burial Pit	YES. Listed on Table 2 of CAFB's HSWA Permit
AOC E	Runway Rubble Pile	YES. Listed on Table 2 of CAFB's HSWA Permit
AOC F	Gunsight Target Berm	YES. Listed on Table 2 of CAFB's HSWA Permit
AOC G	NEW SWMU Report 05/15/97	YES
AOC H	NEW SWMU Report 05/15/97	YES
DP-33		Yes. GWQB Approved NFA proposal on 12/12/1996

Still using

35

NFA MAYBE

TABLE 3 SWMUS AND AOCS THAT MAY QUALIFY FOR NFA DETERMINATION		
SWMU/AOC	**DESCRIPTION**	**COMMENTS**
SWMU 6	POL Tank No. 129	Maybe. Additional documentation required. Need UST Close Out Report.
SWMU 10	POL Tank No. 170	Maybe. Never investigated Removed IAW UST Regulations. Additional documentation required. Need UST Close out report.
SWMU 34	AGE Drainage Ditch	Maybe. Additional documentation required.
SWMU 36	MWR Auto Body Shop	Maybe. Additional documentation required.
SWMU 71	Recovered JP-4 Fuel Tank No. 390	Maybe. Duplicate of SWMU 72. Need to document the NFA petition conclusions in a Report.
SWMU 72	OWS 390	Maybe. Additional documentation is needed to show that SWMU 71 is a duplicate of SWMU 72 in a RFI Report.
SWMU 76	Sludge Weathering Pit	Maybe. Additional documentation required.
SWMU 78	FTA 1	Maybe. Additional documentation required.
SWMU 79	UST at FTA 1	Maybe. Never Investigated - never existed? NFA Petition states that this SWMU did not exist. Additional documentation required.
SWMU 81	Solvent Disposal Site	Maybe. Additional documentation required.
SWMU 82	Landfill No. 2	Maybe. Additional documentation required.
SWMU 85	Stormwater Collection Point	Maybe. CAFB presumed that EPA's lack of response indicated acceptance. Additional documentation required.
SWMU 95	NE Stormwater Drainage Area	Maybe. Additional documentation required.

TABLE 3 SWMUS AND AOCS THAT MAY QUALIFY FOR NFA DETERMINATION		
SWMU/AOC	**DESCRIPTION**	**COMMENTS**
SWMU 96	Old Entomology Rinse Area	Maybe. Additional documentation required.
SWMU 98	Sanitary Sewage Line	Maybe. Additional documentation required.
SWMU 102	Wastewater Treatment Effluent Discharge	Maybe. Additional documentation required.
SWMU 106	FTA 2	Maybe, but CAFB must supply copy of approved 1994 RFI Work Plan and subsequent RFI Report
SWMU 107	FTA 3	Maybe, but CAFB must supply copy of approved 1994 RFI Work Plan and subsequent RFI Report
SWMU 124	Inactive UST 1 Duplicate of SWMU 48A	Maybe. Assertion that SWMU 124 is a duplicate of SWMU 48A has not been previously documented.
SWMU 126	Inactive UST 3 Closed in accordance with NMED UST regulations	Maybe for Criterion 4. Must provide UST close out report. EPA's opinion that an investigation at fuel/product ASTs/USTs is not required is not shared by NMED.
SWMU 128	OWS Near Tank 4095 (#2) & Leach Field	Maybe. Additional documentation required.

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Lieutenant Governor

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

RON CURRY
Secretary

JON GOLDSTEIN
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

March 30, 2009

Colonel Timothy J. Leahy
27th Special Operations Wing
100 South D.L. Ingram Boulevard
Cannon Air Force Base, New Mexico 88103-5214

RE: APPROVAL
FINAL REPORT
SUPPLEMENTAL ASSESSMENT OF AREAS OF CONCERN A, B, & C
CANNON AIR FORCE BASE, EPA ID NO. NM7572124454
HWB-CAFB-08-005

Dear Mr. Leahy:

The New Mexico Environment Department (NMED) reviewed the Department of the Air Force's (Permittee) submittal *Final Report Supplemental Assessment of Areas of Concern (AOCs) A, B, and C* (the Report), dated December 2005. Based on the information provided in the Report, AOCs A, B, and C have been investigated and all detected soil contaminants were reported at concentrations below residential New Mexico Soil Screening Levels (NMSSLs). At this time, NMED will continue with the review of the Permittee's permit modification request (*Corrective Action Complete Proposals*, July 2008) that requests corrective action complete status for AOCs A, B, and C.

If you have any questions regarding this letter, please call Pat Stewart at (505) 476-6059.

Sincerely,

John E. Kieling
Program Manager
Permits Management Program
Hazardous Waste Bureau

cc: P. Stewart, NMED HWB
D. Cobrain, NMED HWB
Jerry Pelfrey, CAFB
File: CAFB 2009 and Reading
CAFB-08-005

CANNON AFB
NEW MEXICO

ADMINISTRATIVE RECORD
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AR File Number 1473

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ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

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

BILL RICHARDSON
Governor

DIANE DENISH
Lieutenant Governor

RON CURRY
Secretary

JON GOLDSTEIN
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

September 14, 2009

Mr. Ronald A. Lancaster
27 SOCES/CEA
506 N DL Ingram Blvd
Cannon Air Force Base, New Mexico 88103-5003

RE: REQUIREMENT FOR FURTHER CORRECTIVE ACTION, CORRECTIVE ACTION COMPLETE PROPOSALS, JULY 2008 CANNON AIR FORCE BASE, EPA ID NO. NM7572124454 HWB-CAFB-08-004

Dear Mr. Lancaster:

The New Mexico Environment Department (NMED) has completed its review of Cannon Air Force Base's (Permittee) *Corrective Action Completion Proposals,* dated July 2008. Based on the review, one Solid Waste Management Unit (SWMU 129) and one Area of Concern (AOC A) proposed by the Permittee are not appropriate for Corrective Action Complete (CAC) status.

AOC A, MOGAS Spill Site (SS-19)

AOC A is the site of two motor gasoline (MOGAS) spills that occurred in the early 1960s. The site is relatively flat and much of it is paved with asphalt. The portion not paved is a drainage swale extending to the southeast through a grassy area in the southern portion of the site. Construction of a gymnasium and associated pavement along Argentia Avenue changed the physical features of the spill area. Part of the drainage swale where the spills occurred is now located beneath pavement and a portion of the area exists as a small depression along the side of Argentia Avenue.

The Permittee's proposal that AOC A is appropriate for CAC status is based on results of investigations conducted in 1985 and in 2005. Results of the investigations were reported in the Permittee's *Decision Document, MOGAS Spill AOC A/IRP No. SS-19, Cannon Air Force Base, HARZA Environmental Services, January 1997* and in *Supplemental Assessment of Areas of Concern A, B, & C, Cannon Air Force Base, URS Group, Inc. December 2005*. Results of both investigations indicate that lead and various volatile organic compounds (VOCs) were detected at concentrations below NMED soil screening levels (SSLs) for a residential land use scenario. However, no ecological risk screening was conducted by the Permittee.

Since the Permittee does not have eco risk screening values for the facility, NMED compared the maximum concentrations of detected lead and VOCs to the Los Alamos National Laboratory Ecorisk Database (Version 2.3, October 2008) and determined that lead detected in surface soil in 1985 exceeds the risk-based ecological screening level (range of 14 to 21 mg/kg). The surface soil sample where an elevated lead concentration was detected was collected in the drainage swale that runs alongside Argentia Avenue and is not covered by asphalt. The Permittee must conduct ecological risk screening for AOC A.

The lead contamination was a result of a surface spill, but only one surface soil sample (0-1.0 feet below ground surface) was collected in 1985 and no surface soil samples were collected in the 2005 investigation. The Permittee did not define the lateral extent of lead contamination for surface soil. It is not clear if lead-contaminated soil was removed and/or diluted by construction activities conducted subsequent to the 1985 investigation.

Further, analyses of soil samples collected in 2005 indicated that chloroform concentrations exceed the New Mexico generic Migration to Groundwater Dilution Attenuation Factor (DAF) of 20 SSL. Use of the SSL listed for a DAF of 20 for comparison is advised unless site-specific data on hydrologic conditions are available indicating that the DAF of 20 is not representative of site conditions. The Permittee must generate and compare a site-specific DAF for chloroform.

Until such time that (1) the surface soil in the drainage swale alongside Argentia Avenue is sampled and results indicate that lead is not present in concentrations exceeding the risk-based ecological screening level for lead or until the Permittee provides documentation indicating that lead-contaminated soil was removed or substantially disturbed during construction activities since 1985, and (2) comparison of chloroform concentrations to a site-specific DAF indicates that site conditions are protective of ground water, AOC A will not be considered for Corrective Action Complete status.

SWMU 129, Reported Oil/Water Separator and Associated Leach Field

Bulk waste oil was dumped into collection pits equipped with strainers at SWMU 129. From the pits, oil drained into the oil/water (O/W) separator which was then pumped through supply pipes into five above ground storage tanks. The water fraction, segregated by the O/W separator, exited through a port in the west side of the structure and flowed into a leach field located to the southeast of the facility. The leach field consisted of perforated plastic piping surrounded by crushed stone that allowed the water to be discharged into the subsurface and percolate into underlying soils.

The Permittee's proposal that SWMU 129 is appropriate for CAC status is based on results presented in its *Closeout Report / Contamination Assessment, SWMU 129 – Facility 244, Aboveground Tank Storage Area, Cannon Air Force Base, Clovis, New Mexico, July 19, 2000.* The NMED reviewed the cited report and could not determine if the leach field was sampled for presence of potential contaminants. The report described soil sample locations as: northeast corner of pad, southeast corner of pad, center of pad, northwest corner of pad, southwest corner of pad, north of O/W separator, south of O/W separator and east of O/W separator. The soil sample location nearest the leachfield appears to be Sample Number 2, Southeast Corner of Pad. Sample Number 2 was further described in Figure 4-2, Plan View of Facility 244 Showing Soil Sampling Locations, as "3 feet north of south fence, 4 feet, 3 inches west of east fence". Figure 4-2 indicates that it is not to scale. Figure 4-2 does not indicate the location of the referenced south fence or east fence nor does it indicate the position of the leach field.

It is unclear whether or not the leach field was sampled. If the leach field was not sampled or was not adequately investigated, the NMED considers the investigation of SWMU 129 incomplete. Until such time that the Permittee provides documentation that the leach field was adequately sampled and the results of such sampling demonstrate that contaminants are not present at concentrations exceeding appropriate cleanup criteria, SWMU 129 will not be considered for Corrective Action Complete status.

NMED will proceed with preparation of a Statement of Basis and Public Notice to change the status of the other twelve sites proposed for Corrective Action Complete in the Permittee's July 2008 submittal.

If you have any questions regarding the content of this letter, please call Pat Stewart at (505) 476-6059.

Sincerely,

John E. Kieling
Program Manager
Permits Management Program
Hazardous Waste Bureau

cc: P. Stewart, NMED HWB
N. Dhawan, NMED HWB
D. Cobrain, NMED HWB
H. Hanson, CAFB
File: CAFB 2009 and Reading
CAFB-08-004

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CANNON AFB
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AR File Number 1372

NEW MEXICO
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Hazardous Waste Bureau

BILL RICHARDSON
Governor

DIANE DENISH
Lieutenant Governor

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

RON CURRY
Secretary

JON GOLDSTEIN
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

May 14, 2008

Colonel Timothy J. Leahy
27th Special Operations Wing
100 South D.L. Ingram Boulevard
Cannon Air Force Base, New Mexico 88103-5214

RE: APPROVAL WITH DIRECTION
RCRA FACILITY INVESTIGATION FOR 21 SWMUs
CANNON AIR FORCE BASE, NEW MEXICO
EPA ID NM7572124454
HWB-CAFB-06-007

Dear Mr. Leahy:

The New Mexico Environment Department (NMED) has reviewed the Department of the Air Force's (Permittee) *Final Revision 1 RCRA Facility Investigation for 21 SWMUs* (Report), dated October 2007. NMED hereby approves this Report with the following additional direction.

Corrective Action Complete without Controls status can only be achieved if all hazardous constituents are detected below their residential New Mexico Soil Screening Levels (NMSSLs). Solid Waste Management Units (SWMUs) included in this Report that are eligible for Corrective Action Complete without Controls status are SWMU 10, SWMU 50, SWMU 72, SWMU 75, SWMU 81, SWMU 98, SWMU 104 and SWMU 125. NMED recommends the Permittee petition for Corrective Action Complete without Controls status for the above listed SWMUs.

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(suppose to be SWMU 106/FT-07

Corrective Action Complete with Controls status can be achieved if the hazardous constituents detected at a SWMU are between residential and industrial NMSSLs. The SWMUs included in

this Report that are eligible for Corrective Action Complete with Controls status are SWMU 2, SWMU 4, SWMU 6, SWMU 82, SWMU 96, and SWMU 102. The Permittee may petition for Corrective Action Complete with Controls status for the above listed SWMUs.

The SWMUs included in this Report that require additional investigation and/or clean-up activities are SWMU 34, SWMU 78, SWMU 85, [redacted], SWMU 95, and SWMU 107. A March 2008 work plan for these sites was submitted by the Permittee on April 4, 2008.

SWMU 49, along with SWMUs 48A and 48B, is identified as one of the former storage tanks associated with Facility No. 4028. Investigation activities for SWMU 48A are currently on-going, therefore NMED recommends that the Permittee delay submitting a petition for Corrective Action Compete status for SWMU 49 until after investigation and/or clean-up activities are complete at the site.

If you have any questions regarding this letter, please call Cheryl Frischkorn at (505) 476-6058.

Sincerely,

John E. Kieling
Program Manager
Permits Management Program
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
C. Frischkorn, NMED HWB
Gerald Pelfrey, CAFB
File: CAFB 2008 and Reading
HWB-CAFB-06-007

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NEW MEXICO ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

BILL RICHARDSON
Governor

DIANE DENISH
Lieutenant Governor

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

RON CURRY
Secretary

SARAH COTTRELL
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

June 7, 2010

Ronald Lancaster
27 SOCES/CEA
506 N. DL Ingram Blvd.
Cannon AFB, New Mexico 88103-5003

RE: NOTICE OF APPROVAL
FINAL RCRA FACIITY INVESTIGATION FOR SWMUS 34, 78, 85, 91, 95, AND 107 ADDENDUM REPORT, MAY 2010
CANNON AIR FORCE BASE, NEW MEXICO
EPA ID #NM7572124454
HWB-CAFB-06-007

Dear Mr. Lancaster:

The New Mexico Environment Department (NMED) has received Cannon Air Force Base's (Permittee) *Final RCRA Facility Investigation for SWMUs 34, 78, 85, 91, 95, and 107 Addendum Report* dated May 2010 (Report). NMED has reviewed the RFI Addendum Report and hereby issues this Notice of Approval. NMED provides comments presented below.

Comment 1. Section 6.3.2, Page 6-3 and Section 7.3.2, Page 7-3:

The third sentence in the first paragraph of these two sections indicate that the NMED residential screening guideline for unknown oil is 800 mg/kg. The correct value is 200 mg/kg, not 800 mg/kg.

The maximum detected concentration of total petroleum hydrocarbon diesel range organics (TPH-DRO) at both sites discussed in sections 6 and 7 were below the screening value for residential direct exposure, 520 mg/kg. Therefore, conclusions remain the same.

Comment 2. Tables 6-2, 7-2, 9-2 and 11-2:

Tables 6-2, 7-2, 9-2 and 11-2 list Soil Screening Level / Total Petroleum Hydrocarbon (SSL/TPH) values for diesel hydrocarbons residential and industrial direct exposure, in the second and third data columns respectively, as 1800 mg/kg and 2000 mg/kg. The correct values are 520 mg/kg for residential direct exposure and 1120 for industrial direct exposure. However, when maximum detected concentrations are compared to correct screening values conclusions of the Report remain the same.

Further, the footnote for the second and third data columns reference NMED TPH Soil Screening Guidelines (June, 2006). The correct reference date is October, 2006.

Comment 3. Table 11-2:

There is no applicable screening value for residential or industrial direct exposure for gasoline range organics or total petroleum hydrocarbons. Values for these components shown in Table 11-2 are incorrect. However, when comparing maximum detected concentrations with correct screening values the conclusions of the Report do not change.

The Permittee must use correct screening values and reference dates in future reports.

Please contact Pat Stewart at (505) 476-6059, should you have any questions.

Sincerely,

John E. Kieling
Program Manager
Permits Management Program
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
P. Stewart, NMED HWB
H. Hanson, CAFB
File: CAFB 2010 and Reading

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BILL RICHARDSON
Governor

DIANE DENISH
Lieutenant Governor

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

RON CURRY
Secretary

SARAH COTTRELL
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

March 30, 2010

Ronald Lancaster
27 SOCES/CEA
506 N. DL Ingram Blvd.
Cannon AFB, New Mexico 88103-5003

RE: EXTENSION REQUEST APPROVAL
FOR THE SUBMITTAL OF A REVISED RCRA FACILITY INVESTIGATION ADDENDUM REPORT FOR SWMUS 34, 78, 85, 91, 95 AND 107
CANNON AIR FORCE BASE, EPA ID NO. NM7572124454
CAFB 06-007

Dear Mr. Lancaster:

The New Mexico Environment Department (NMED) received, on March 29, 2010, the Department of the Air Force's (Permittee) *Request for Extension.* The Permittee requests additional time to submit a revised RCRA Facility Investigation Addendum Report for SWMUs 34, 78, 85, 91, 95 and 107.

NMED hereby approves this extension request. The Permittee must submit a revised RCRA Facility Investigation Addendum Report for SWMUs 34, 78, 85, 91, 95 and 107 to NMED no later than May 17, 2010.

If you have any questions regarding this letter, please call Pat Stewart at (505) 476-6059.

Sincerely,

John E. Kieling
Program Manager
Permits Management Program
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
P. Stewart, NMED HWB
H. Hanson, CAFB
File: CAFB 06-007 and Reading

NEW MEXICO ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

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

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Governor

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Lieutenant Governor

DAVE MARTIN
Cabinet Secretary

BUTCH TONGATE
Deputy Secretary

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

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

November 16, 2012

Colonel David C. Piech, Commander
27th Special Operations Mission Support Group
110 E. Sextant Avenue, Building 600, Suite 1098
Cannon Air Force Base, New Mexico 88103

RE: APPROVAL
REVISED PLAYA LAKE (SWMU 103) PHASE III
RCRA FACILITY INVESTIGATION REPORT
CANNON AIR FORCE BASE, NEW MEXICO
CURRY COUNTY, NEW MEXICO
EPA ID #NM7572124454
HWB-CAFB-11-001

Dear Col. Piech:

The New Mexico Environment Department (NMED) has received the Cannon Air Force Base (Permittee) *Revised Playa Lake (SWMU 103) Phase III RCRA Facility Investigation Report* (IR), dated October 2011 and received February 2, 2012. NMED has completed review of the IR and hereby approves the IR. NMED agrees that further site evaluation is not needed at this time. In the event the Permittee decides to submit a future petition for designating the site status as Corrective Action Complete (with or without controls), be advised that the petition must include a summary of previous investigative findings which support such a designation.

If you have any questions regarding this letter, please contact Daniel Comeau at (505) 476-6043.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
D. Comeau, NMED HWB
L. King, EPA 6PD-N
R. Lancaster, CAFB
M. Higginbotham, CAFB

File: CAFB 2012; NoA; SWMU 103, Playa Lake Ph 3 RFI

Appendix B
All Data Tables

B. Tables

Table B-1 AOC A (MOGAS Spill Site) Historical Soil Analytical All Data Results

Table B-2 SWMU 91 (Recovered Fuel Tank No. 5114) Historical Soil Analytical All Data Results

Table B-3 SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results

Table B-4 SWMU 103 (Wastewater Playa Lake) Historical Surface Water Analytical All Data Results

TABLE B-1

AOC A (MOGAS Spill Site) Historical Soil Analytical All Data Results [a,b,c]

Cannon AFB, New Mexico

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration [d]	Surface Background Concentration [d]	NMED Residential SSL Concentration [e]	NMED Industrial SSL Concentration [e]	CAA-SS01 0 - 0.5 December 6, 2011			CAA-SS02 0 - 0.5 December 6, 2011			CAA-SS03 0 - 0.5 December 6, 2011		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)													
Lead	8.70	12.0	400	800	17.1	1.13		19	1.04	J	10.5	1.12	
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Benzene	NE	NE	15.4	84.7	NS	--	--	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	NS	--	--	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	NS	--	--	NS	--	--	NS	--	--
Cyclohexane	NE	NE	7,000 [f]	29,000 [f]	NS	--	--	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	NS	--	--	NS	--	--
Ethylbezene	NE	NE	68.4	378	NS	--	--	NS	--	--	NS	--	--
Methylcyclohexane	NE	NE	5,630	26,500	NS	--	--	NS	--	--	NS	--	--
Methyl acetate	NE	NE	78,200	1.14E+06	NS	--	--	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	NS	--	--	NS	--	--	NS	--	--
m,p-xylene	NE	NE	814	3,980	NS	--	--	NS	--	--	NS	--	--
o-xylene	NE	NE	898	4,410	NS	--	--	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All SVOCs reported as non-detect	--	--	--	--	NS	--	--	NS	--	--	NS	--	--
PURGABLE ORGANIC COMPOUNDS (mg/kg)													
1,2-dichloroethane	NE	NE	7.89	43.5	NS	--	--	NS	--	--	NS	--	--
OIL AND GAS (mg/kg)													
Oil and gas results were reported as non-detect	--	--	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-1

AOC A (MOGAS Spill Site) Historical Soil Analytical All Data Results [a,b,c]

Cannon AFB, New Mexico

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration [d]	Surface Background Concentration [d]	NMED Residential SSL Concentration [e]	NMED Industrial SSL Concentration [e]	CAA-SS04 0 - 0.5 December 6, 2011			CAA-SS05 0 - 0.5 December 6, 2011			CAA-SB01-005 3 - 5 February 16, 2005		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)													
Lead	8.70	12.0	400	800	43.2	1.14	J	112	1.11		0.54	0.6	J
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Benzene	NE	NE	15.4	84.7	NS	--	--	NS	--	--	ND	0.0059	U
Bromomethane	NE	NE	16.5	86.5	NS	--	--	NS	--	--	ND	0.012	U
Chloroform	NE	NE	5.86	32.7	NS	--	--	NS	--	--	0.0092	0.0059	
Cyclohexane	NE	NE	7,000 [f]	29,000 [f]	NS	--	--	NS	--	--	0.0023	0.0059	J
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	NS	--	--	0.0026	0.0059	J
Ethylbezene	NE	NE	68.4	378	NS	--	--	NS	--	--	ND	0.0059	U
Methylcyclohexane	NE	NE	5,630	26,500	NS	--	--	NS	--	--	0.006	0.024	J
Methyl acetate	NE	NE	78,200	1.14E+06	NS	--	--	NS	--	--	ND	0.012	U
Toluene	NE	NE	5,270	57,700	NS	--	--	NS	--	--	0.019	0.0059	
m,p-xylene	NE	NE	814	3,980	NS	--	--	NS	--	--	0.0012	0.0059	J
o-xylene	NE	NE	898	4,410	NS	--	--	NS	--	--	ND	0.0059	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All SVOCs reported as non-detect	--	--	--	--	NS	--	--	NS	--	--	ND	NA	
PURGABLE ORGANIC COMPOUNDS (mg/kg)													
1,2-dichloroethane	NE	NE	7.89	43.5	NS	--	--	NS	--	--	NS	--	--
OIL AND GAS (mg/kg)													
Oil and gas results were reported as non-detect	--	--	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-1

AOC A (MOGAS Spill Site) Historical Soil Analytical All Data Results [a,b,c]

Cannon AFB, New Mexico

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration [d]	Surface Background Concentration [d]	NMED Residential SSL Concentration [e]	NMED Industrial SSL Concentration [e]	CAA-SB01-010 8 - 9.6 February 16, 2005			CAA-SB02-020 18 - 20 February 17, 2005			CAA-SB02-023 23 - 23.4 February 17, 2005		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)													
Lead	8.70	12.0	400	800	0.71	0.6		3.2	0.6		1.4	0.6	
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Benzene	NE	NE	15.4	84.7	ND	0.0056	U	ND	0.0059	U	ND	0.0059	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	0.0022	0.012	J	ND	0.012	UJ
Chloroform	NE	NE	5.86	32.7	ND	0.0056	U	0.0098	0.0059		0.012	0.0059	
Cyclohexane	NE	NE	7,000 [f]	29,000 [f]	ND	0.0056	U	0.0024	0.0059	J	0.0032	0.0059	J
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0056	U	0.0031	0.0059	J	0.0058	0.0059	J
Ethylbezene	NE	NE	68.4	378	ND	0.0056	U	ND	0.0059	U	ND	0.0059	U
Methylcyclohexane	NE	NE	5,630	26,500	ND	0.023	U	0.0068	0.024	J	0.011	0.024	J
Methyl acetate	NE	NE	78,200	1.14E+06	0.0027	0.011	J	0.0018	0.012	J	ND	0.012	U
Toluene	NE	NE	5,270	57,700	0.0015	0.0056	J	0.025	0.0059		0.046	0.0059	
m,p-xylene	NE	NE	814	3,980	ND	0.0056	U	0.0018	0.0059	J	0.0033	0.0059	J
o-xylene	NE	NE	898	4,410	ND	0.0056	U	ND	0.0059	U	ND	0.0059	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All SVOCs reported as non-detect	--	--	--	--	ND	NA		ND	NA		ND	NA	
PURGABLE ORGANIC COMPOUNDS (mg/kg)													
1,2-dichloroethane	NE	NE	7.89	43.5	NS	--	--	NS	--	--	NS	--	--
OIL AND GAS (mg/kg)													
Oil and gas results were reported as non-detect	--	--	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-1

AOC A (MOGAS Spill Site) Historical Soil Analytical All Data Results [a,b,c]

Cannon AFB, New Mexico

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration [d]	Surface Background Concentration [d]	NMED Residential SSL Concentration [e]	NMED Industrial SSL Concentration [e]	CAA-SB03-015 13 - 14.7 February 17, 2005			CAA-SB03-019 18 - 18.4 February 17, 2005			CAA-SB04-020 18 - 20 February 17, 2005		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)													
Lead	8.70	12.0	400	800	5.9	0.6		1.7	0.6		1.4	0.6	
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Benzene	NE	NE	15.4	84.7	0.0008	0.0055	J	0.0009	0.0057	J	ND	0.0058	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	ND	0.011	U	ND	0.012	U
Chloroform	NE	NE	5.86	32.7	0.012	0.005		0.011	0.0057		0.01	0.0058	
Cyclohexane	NE	NE	7,000 [f]	29,000 [f]	0.0031	0.005	J	0.003	0.0057	J	0.0029	0.0058	J
Dibromochloromethane	NE	NE	12.1	62.4	0.006	0.005		0.0047	0.0057	J	0.0033	0.0058	J
Ethylbezene	NE	NE	68.4	378	0.001	0.005	J	0.0009	0.0057	J	ND	0.0058	U
Methylcyclohexane	NE	NE	5,630	26,500	0.012	0.022	J	0.0093	0.023	J	0.0091	0.023	J
Methyl acetate	NE	NE	78,200	1.14E+06	0.0049	0.011	J	0.0088	0.011	J	0.0052	0.012	J
Toluene	NE	NE	5,270	57,700	0.044	0.0055		0.037	0.0057		0.03	0.0058	
m,p-xylene	NE	NE	814	3,980	ND	0.0055	U	0.003	0.0057	J	0.0023	0.0058	J
o-xylene	NE	NE	898	4,410	0.0007	0.0055	J	0.0007	0.0057	J	ND	0.0058	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All SVOCs reported as non-detect	--	--	--	--	ND	NA		ND	NA		ND	NA	
PURGABLE ORGANIC COMPOUNDS (mg/kg)													
1,2-dichloroethane	NE	NE	7.89	43.5	NS	--	--	NS	--	--	NS	--	--
OIL AND GAS (mg/kg)													
Oil and gas results were reported as non-detect	--	--	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-1

AOC A (MOGAS Spill Site) Historical Soil Analytical All Data Results [a,b,c]

Cannon AFB, New Mexico

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration [d]	Surface Background Concentration [d]	NMED Residential SSL Concentration [e]	NMED Industrial SSL Concentration [e]	CAA-SB04-025 23 - 24.5 February 17, 2005			19A-1 3.0 - 4.0 1986			19A-1A (Field Duplicate) 3.0 - 4.0 1986		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)													
Lead	8.70	12.0	400	800	4.4	0.6		1.5	NA		2.3	NA	
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Benzene	NE	NE	15.4	84.7	0.0008	0.0056	J	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	0.012	0.0056		NS	--	--	NS	--	--
Cyclohexane	NE	NE	7,000 [f]	29,000 [f]	0.0035	0.0056	J	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	0.0054	0.0056	J	NS	--	--	NS	--	--
Ethylbezene	NE	NE	68.4	378	0.0011	0.0056	J	NS	--	--	NS	--	--
Methylcyclohexane	NE	NE	5,630	26,500	0.013	0.022	J	NS	--	--	NS	--	--
Methyl acetate	NE	NE	78,200	1.14E+06	ND	0.011	U	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	0.047	0.0056		NS	--	--	NS	--	--
m,p-xylene	NE	NE	814	3,980	0.0039	0.0056	J	NS	--	--	NS	--	--
o-xylene	NE	NE	898	4,410	0.0007	0.0056	J	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All SVOCs reported as non-detect	--	--	--	--	ND	NA	--	NS	--	--	NS	--	--
PURGABLE ORGANIC COMPOUNDS (mg/kg)													
1,2-dichloroethane	NE	NE	7.89	43.5	NS	--	--	ND	NA		0.237	NA	NA
OIL AND GAS (mg/kg)													
Oil and gas results were reported as non-detect	--	--	--	--	NS	--	--	ND	NA		ND	NA	

TABLE B-1

AOC A (MOGAS Spill Site) Historical Soil Analytical All Data Results [a,b,c]

Cannon AFB, New Mexico

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration [d]	Surface Background Concentration [d]	NMED Residential SSL Concentration [e]	NMED Industrial SSL Concentration [e]	19A-2 8.0 - 9.0 1986			19A-3 45.0 - 47.0 1986			19B-1 0.0 - 1.0 1986		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)													
Lead	8.70	12.0	400	800	2.3	NA		1.1	NA		35.0	NA	
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Benzene	NE	NE	15.4	84.7	NS	--	--	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	NS	--	--	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	NS	--	--	NS	--	--	NS	--	--
Cyclohexane	NE	NE	7,000 [f]	29,000 [f]	NS	--	--	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	NS	--	--	NS	--	--
Ethylbezene	NE	NE	68.4	378	NS	--	--	NS	--	--	NS	--	--
Methylcyclohexane	NE	NE	5,630	26,500	NS	--	--	NS	--	--	NS	--	--
Methyl acetate	NE	NE	78,200	1.14E+06	NS	--	--	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	NS	--	--	NS	--	--	NS	--	--
m,p-xylene	NE	NE	814	3,980	NS	--	--	NS	--	--	NS	--	--
o-xylene	NE	NE	898	4,410	NS	--	--	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All SVOCs reported as non-detect	--	--	--	--	NS	--	--	NS	--	--	NS	--	--
PURGABLE ORGANIC COMPOUNDS (mg/kg)													
1,2-dichloroethane	NE	NE	7.89	43.5	ND	NA		ND	NA		ND	NA	
OIL AND GAS (mg/kg)													
Oil and gas results were reported as non-detect	--	--	--	--	ND	NA		ND	NA		ND	NA	

TABLE B-1

AOC A (MOGAS Spill Site) Historical Soil Analytical All Data Results [a,b,c]

Cannon AFB, New Mexico

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration [d]	Surface Background Concentration [d]	NMED Residential SSL Concentration [e]	NMED Industrial SSL Concentration [e]	19B-2 9.0 - 10.0 1986			19B-3 57.5 - 59.5 1986		
					Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)										
Lead	8.70	12.0	400	800	0.95	NA		0.99	NA	
VOLATILE ORGANIC COMPOUNDS (mg/kg)										
Benzene	NE	NE	15.4	84.7	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	NS	--	--	NS	--	--
Cyclohexane	NE	NE	7,000 [f]	29,000 [f]	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	NS	--	--
Ethylbezene	NE	NE	68.4	378	NS	--	--	NS	--	--
Methylcyclohexane	NE	NE	5,630	26,500	NS	--	--	NS	--	--
Methyl acetate	NE	NE	78,200	1.14E+06	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	NS	--	--	NS	--	--
m,p-xylene	NE	NE	814	3,980	NS	--	--	NS	--	--
o-xylene	NE	NE	898	4,410	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)										
All SVOCs reported as non-detect	--	--	--	--	NS	--	--	NS	--	--
PURGABLE ORGANIC COMPOUNDS (mg/kg)										
1,2-dichloroethane	NE	NE	7.89	43.5	ND	NA		ND	NA	
OIL AND GAS (mg/kg)										
Oil and gas results were reported as non-detect	--	--	--	--	ND	NA		ND	NA	

TABLE B-1

AOC A (MOGAS Spill Site) Historical Soil Analytical All Data Results [a,b,c]

Cannon AFB, New Mexico

Notes:

[a] Radian Corporation LLC, 1986. Table 4-19. *Installation Restoration Program Phase II - Confirmation/Quantification, Stage I*, Cannon Air Force Base, New Mexico, September.

[b] URS Group, Inc., 2005. Table 5-2. *Supplemental Assessment of Areas of Concern A, B, and C, Final Report*, Cannon Air Force Base, New Mexico, December.

[c] URS Group, Inc., 2013. Table 3-2. *Phase II Supplemental Assessment of Area of Concern A (SS-19)*, Cannon Air Force Base, New Mexico, February.

[d] Woodward-Clyde Consultants, Inc., 1997. Table 6-3. *Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon Air Force Base, New Mexico,* September.

[e] New Mexico Environment Department (NMED), 2012. Table A-1: NMED Soil Screening Levels, *Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document,* Hazardous Waste Bureau and Groundwater Quality Remediation Program, Table A-1 Updated June 2012.

[f] U.S. Environmental Protection Agency (EPA), 2012. Regions 3, 6, and 9 Regional Screening Levels for Chemical Contaminants at Superfund Sites, November.

BOLD indicates that analyte exceeds the 2012 NMED residential SSL.

Analyte exceeds background value

-- = Placeholder, no data available since not sampled

AFB = Air Force Base

AOC = Area of Concern

bgs = Below Ground Surface

FT = Feet

ID = Identification

J = Estimated value

mg/kg = Milligram per Kilogram

MOGAS = Motor Gasoline

NA = Not Available

ND = Result Not Detected

NE = Not Established

NMED = New Mexico Environment Department

NS = Not Sampled

Qual = Qualifier

RL = Reporting Limit

SB = Soil Boring

SSL = Soil Screening Level

SVOC = Semivolatile Organic Compound

U = Nondetected value

TABLE B-2

SWMU 91 (Recovered Fuel Tank No. 5114) Historical Soil Analytical All Data Results [a]

Cannon AFB, New Mexico

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Surface Background Concentration [b]	Subsurface Background Concentration [b]	NMED Residential SSL Concentration [c]	NMED Industrial SSL Concentration [c]	C91-SB01-000 0 - 4 October 23, 2008			C91-SB01-008 8 - 12 October 23, 2008			C91-SB01-012 12 - 16 October 23, 2008			C91-SB02-000 0 - 4 October 23, 2008			C91-SB02-008 8 - 12 October 23, 2008		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																			
TPH - DRO	NE	NE	1,000	3,000	ND	10.0	U	ND	10.0	U	ND	10.0	U	ND	10.0	U	ND	10.0	U
TPH - GRO	NE	NE	1,000	3,000	ND	1.1	U	ND	1.1	U	ND	1.2	U	ND	1.2	U	ND	1.1	U

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Surface Background Concentration [b]	Subsurface Background Concentration [b]	NMED Residential SSL Concentration [c]	NMED Industrial SSL Concentration [c]	C91-SB02-012 12 - 16 October 23, 2008			C91-SB03-000 0 - 4 October 23, 2008			C91-SB03-008 8 - 12 October 23, 2008			C91-SB03-012 12 - 16 October 23, 2008		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
TPH - DRO	NE	NE	1,000	3,000	ND	10.0	U	ND	10.0	U	ND	10.0	U	ND	10.0	U
TPH - GRO	NE	NE	1,000	3,000	ND	1.2	U	ND	1.1	U	ND	1.2	U	ND	1.1	U

Notes:

[a] URS Group, Inc., 2009. Table C-4. Final RCRA Facility Investigation for SWMUs 34, 78, 85, 91, 95, and 107 Addendum Report, Cannon Air Force Base, New Mexico, June.

[b] Woodward-Clyde Consultants, Inc., 1997. Table 6-3. Naturally Occurring Concentrations of Inorganics and Background concentrations of Pesticides at Cannon Air Force Base, New Mexico, September.

[c] New Mexico Environment Department (NMED), 2012. Table 6-2. TPH Screening Guidelines for Potable Groundwater (GW-1), Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and the Ground Water Quality Bureau - Voluntary Remediation Program, February 2012. Values provided are for jet fuel and kerosene.

AFB = Air Force Base

BGS = Below Ground Surface

DRO = Diesel Range Organics

FT = Feet

GRO = Gasoline Range Organics

GW = Groundwater

ID = Identification

mg/kg = Milligram per kilogram

ND = Result Not Detected

NE = None Established

NMED = New Mexico Environment Department

Qual = Qualifier

RCRA = Resource Conservation and Recovery Act

RL = Reporting Limit

SB = Soil Boring

SSL = Soil Screening Level

SWMU = Solid Waste Management Unit

TPH = Total Petroleum Hydrocarbons

U = Nondetected

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10301			10302			10303			10304		
FIELD ID					CAN103-1031-5001			CAN103-1032-5001			CAN103-1033-5001			CAN103-1034-5001		
SAMPLE DEPTH (FT BGS)					0 - 1			0 - 1			0 - 1			0 - 1		
DATE COLLECTED					September 21, 1993			September 21, 1993			September 21, 1993			September 21, 1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	3,450	38.5		21,300	196		12,300	37.4		12,300	49.2	
Antimony	16.0	3.15	31.3	454	ND	NA		ND	NA		ND	NA		ND	NA	
Arsenic	4.30	3.60	3.90	17.7	2.40	1.9		**10.8**	9.8	J	3.3	1.9	J	**4.5**	2.5	
Barium	890	670	15,600	223,000	90.1	3.9		231	19.6		119	3.7		150	4.9	
Beryllium	0.73	0.78	156	2,260	ND	0.77	U	ND	3.9	U	0.69	0.75	J	0.99	0.98	
Cadmium	1.30	0.35	70.3	897	2.3	1.9		ND	9.8	U	ND	1.9	U	2.6	2.5	
Calcium	237,498	44,800	NE	NE	26,200	77		83,400	393		46,400	74.9		77,400	98.4	
Chromium	13.3	10.5	117,000	1.70E+06	10.4	3.9		35.5	19.6		13.5	3.7		19.8	4.9	
Cobalt	4.70	6.60	23[g]	300[g]	ND	3.9	UJ	ND	19.6	U	4	3.7		5.9	4.9	
Copper	8.30	18.3	3,130	45,400	40.3	7.7		102	39.3		29.4	7.5		44.3	9.8	
Iron	13,148	10,100	54,800	795,000	3,860	38.5		18,300	196		9,990	37.4		13,100	49.2	
Lead	8.70	12.0	400	800	14.6	1.9		39.3	9.8		16.5	1.9		16.7	2.5	
Magnesium	19,300	1,930	NE	NE	1,780	77		8700	393		4,140	74.9		5,640	98.4	
Manganese	333	307	1,860	26,700	38	3.9		228	19.6		158	3.7		196	4.9	
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.39	UJ	ND	2	U	0.39	0.37		0.51	0.49	
Nickel	14.9	11.0	1,560	22,500	5.3	15.4	J	27.7	78.6	J	12.1	15	J	14.6	19.7	J
Potassium	2,512	2,691	NE	NE	968	1,930	J	4,640	9,820	J	2,580	1,870		3,380	2,460	
Selenium	1.10	0.26	391	5,680	3.3	1.9		13.2	9.8		5.2	1.9	J	4.7	2.5	J
Silver	2.65	0.40	391	5,680	9.8	3.9		33.7	19.6		9.9	3.7		11.5	4.9	
Sodium	1,227	102	NE	NE	3,940	1,930	J	18,900	9,820	J	4,230	1,870	J	4,260	2,460	J
Thallium	2.65	0.60	0.782	11.4	ND	NA		ND	NA		ND	NA		ND	NA	
Vanadium	32.8	23.3	391	5,680	27.1	3.9		130	19.6		57.5	3.7		78.9	4.9	
Zinc	30.6	32.2	23,500	341,000	90.9	7.7		275	39.3		76.9	7.5		101	9.8	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	ND	NA		ND	NA		ND	NA		ND	NA	
Benzene	NE	NE	15.4	84.7	ND	0.019	UJ	0.022	0.098	J	0.0066	0.019	J	0.016	0.025	J
Bromodichloromethane	NE	NE	5.41	30.1	ND	NA		ND	NA		ND	NA		ND	NA	
Bromoform	NE	NE	62.0[g]	220[g]	ND	NA		ND	NA		ND	NA		ND	NA	
Bromomethane	NE	NE	16.5	86.5	ND	NA		ND	NA		ND	NA		ND	NA	
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.039	UJ	ND	0.2	UJ	0.018	0.037	J	0.068	0.049	J
Carbon disulfide	NE	NE	1,530	8,330	0.0084	0.019	J	0.022	0.098	J	0.011	0.019	J	0.023	0.025	J
Carbon tetrachloride	NE	NE	10.8	59.8	ND	NA		ND	NA		ND	NA		ND	NA	
Chlorobenzene	NE	NE	376	2,120	ND	NA		ND	NA		ND	NA		ND	NA	
Chloroethane	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Chloroform	NE	NE	5.86	32.7	ND	NA		ND	NA		ND	NA		ND	NA	
Chloromethane	NE	NE	275	1,290	0.004	0.039	J	ND	0.2	UJ	ND	0.037	UJ	ND	0.049	UJ
Dibromochloromethane	NE	NE	12.1	62.4	ND	NA		ND	NA		ND	NA		ND	NA	
1,1-Dichloroethane	NE	NE	64.5	359	ND	NA		ND	NA		ND	NA		ND	NA	
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	NA		ND	NA		ND	NA		ND	NA	
1,1-Dichloroethene	NE	NE	449	2,290	ND	NA		ND	NA		ND	NA		ND	NA	
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	NA		ND	NA		ND	NA		ND	NA	
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Ethylbenzene	NE	NE	68.4	378	ND	NA		ND	NA		ND	NA		ND	NA	
2-Hexanone	NE	NE	210[g]	1400[g]	ND	NA		ND	NA		ND	NA		ND	NA	

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10301			10302			10303			10304		
FIELD ID					CAN103-1031-5001			CAN103-1032-5001			CAN103-1033-5001			CAN103-1034-5001		
SAMPLE DEPTH (FT BGS)					0 - 1			0 - 1			0 - 1			0 - 1		
DATE COLLECTED					September 21, 1993			September 21, 1993			September 21, 1993			September 21, 1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	NA		ND	NA		ND	NA		ND	NA	
Methylene chloride	NE	NE	409	4,700	ND	NA		ND	NA		ND	NA		ND	NA	
Styrene	NE	NE	7,280	50,000	ND	NA		ND	NA		ND	NA		ND	NA	
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	NA		ND	NA		ND	NA		ND	NA	
Tetrachloroethene	NE	NE	7.02	36.6	ND	NA		ND	NA		ND	NA		ND	NA	
Toluene	NE	NE	5,270	57,700	ND	NA		ND	NA		ND	NA		ND	NA	
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	NA		ND	NA		ND	NA		ND	NA	
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	NA		ND	NA		ND	NA		ND	NA	
Trichloroethene	NE	NE	8.77	41.3	ND	NA		ND	NA		ND	NA		ND	NA	
Vinyl acetate	NE	NE	2,560	12,300	ND	NA		ND	NA		ND	NA		ND	NA	
Vinyl chloride	NE	NE	0.728	26.1	ND	NA		ND	NA		ND	NA		ND	NA	
Xylenes (total)	NE	NE	814	3,980	ND	NA		ND	NA		ND	NA		ND	NA	
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	NA		ND	NA		ND	NA		ND	NA	
Acenaphthylene	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Antracene	NE	NE	17,200	183,000	ND	NA		ND	NA		ND	NA		ND	NA	
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	NA		ND	NA		ND	NA		ND	NA	
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	NA		ND	NA		ND	NA		ND	NA	
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	NA		ND	NA		ND	NA		ND	NA	
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	NA		ND	NA		ND	NA		ND	NA	
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	NA		ND	NA		ND	NA		ND	NA	
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	NA		ND	NA		ND	NA		ND	NA	
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	NA		ND	NA		ND	NA		ND	NA	
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	NA		ND	NA		ND	NA		ND	NA	
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	NA		ND	NA		ND	NA		ND	NA	
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	2	1.3	J	3.9	6.5	J	0.76	1.2	J	1.7	1.6	UJ
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	1.3	UJ	ND	6.5	UJ	0.32	1.2	J	ND	1.6	UJ
Carbazole	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
4-Chloroaniline	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	NA		ND	NA		ND	NA		ND	NA	
2-Chlorophenol	NE	NE	391	5,680	ND	NA		ND	NA		ND	NA		ND	NA	
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Chrysene	NE	NE	148	2,340	ND	NA		ND	NA		ND	NA		ND	NA	
Di-n-butyl phthalate	NE	NE	NE	NE	ND	1.3	UJ	ND	6.5	UJ	0.2	1.2	J	ND	1.6	UJ
Di-n-octyl phthalate	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	NA		ND	NA		ND	NA		ND	NA	
Dibenzofuran	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	NA		ND	NA		ND	NA		ND	NA	
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	NA		ND	NA		ND	NA		ND	NA	
2,4-Dichlorophenol	NE	NE	183	2,050	ND	NA		ND	NA		ND	NA		ND	NA	
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	NA		ND	NA		ND	NA		ND	NA	
Diethyl phthalate	NE	NE	48,900	547,000	ND	NA		ND	NA		ND	NA		ND	NA	

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10301			10302			10303			10304		
FIELD ID					CAN103-1031-5001			CAN103-1032-5001			CAN103-1033-5001			CAN103-1034-5001		
SAMPLE DEPTH (FT BGS)					0 - 1			0 - 1			0 - 1			0 - 1		
DATE COLLECTED					September 21, 1993			September 21, 1993			September 21, 1993			September 21, 1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	NA		ND	NA		ND	NA		ND	NA	
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	NA		ND	NA		ND	NA		ND	NA	
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	NA		ND	NA		ND	NA		ND	NA	
2,4-Dinitrophenol	NE	NE	122	1,370	ND	NA		ND	NA		ND	NA		ND	NA	
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	NA		ND	NA		ND	NA		ND	NA	
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	NA		ND	NA		ND	NA		ND	NA	
Fluoranthene	NE	NE	2,290	24,400	ND	NA		ND	NA		ND	NA		ND	NA	
Fluorene	NE	NE	2,290	24,400	ND	NA		ND	NA		ND	NA		ND	NA	
Hexachlorobenzene	NE	NE	3.04	12.0	ND	NA		ND	NA		ND	NA		ND	NA	
Hexachlorobutadiene	NE	NE	61.1	246	ND	NA		ND	NA		ND	NA		ND	NA	
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	NA		ND	NA		ND	NA		ND	NA	
Hexachloroethane	NE	NE	42.8	479	ND	NA		ND	NA		ND	NA		ND	NA	
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	NA		ND	NA		ND	NA		ND	NA	
Isophorone	NE	NE	5,120	137,000	ND	NA		ND	NA		ND	NA		ND	NA	
2-Methylnaphthalene	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
2-Methylphenol	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
4-Methylphenol	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Naphthalene	NE	NE	43.0	241	ND	NA		ND	NA		ND	NA		ND	NA	
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	NA		ND	NA		ND	NA		ND	NA	
3-Nitroaniline	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	NA		ND	NA		ND	NA		ND	NA	
Nitrobenzene	NE	NE	53.5	300	ND	NA		ND	NA		ND	NA		ND	NA	
2-Nitrophenol	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
4-Nitrophenol	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	NA		ND	NA		ND	NA		ND	NA	
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	NA		ND	NA		ND	NA		ND	NA	
Pentachlorophenol	NE	NE	8.94	30.00	ND	NA		ND	NA		ND	NA		ND	NA	
Phenanthrene	NE	NE	1,830	20,500	ND	NA		ND	NA		ND	NA		ND	NA	
Phenol	NE	NE	18,300	205,000	ND	NA		ND	NA		ND	NA		ND	NA	
Pyrene	NE	NE	1,720	18,300	ND	NA		ND	NA		ND	NA		ND	NA	
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	NA		ND	NA		ND	NA		ND	NA	
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	NA		ND	NA		ND	NA		ND	NA	
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	NA		ND	NA		ND	NA		ND	NA	
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1221	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1232	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1242	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1248	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1254	NE	NE	1.12	8.26	ND	NA		ND	NA		ND	NA		ND	NA	
Aroclor 1260	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDD	NE	NE	20.3	79.8	ND	NA		ND	NA		ND	NA		ND	NA	
4,4'-DDE	NE	NE	14.3	56.3	ND	NA		ND	NA		ND	NA		ND	NA	
4,4'-DDT	NE	NE	17.2	78.1	ND	NA		ND	NA		ND	NA		ND	NA	
Aldrin	NE	NE	0.284	1.12	ND	NA		ND	NA		ND	NA		ND	NA	
alpha-BHC	NE	NE	0.772	3.04	ND	NA		ND	NA		ND	NA		ND	NA	

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10301			10302			10303			10304		
FIELD ID					CAN103-1031-5001			CAN103-1032-5001			CAN103-1033-5001			CAN103-1034-5001		
SAMPLE DEPTH (FT BGS)					0 - 1			0 - 1			0 - 1			0 - 1		
DATE COLLECTED					September 21, 1993			September 21, 1993			September 21, 1993			September 21, 1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	NA		ND	NA		ND	NA		ND	NA	
beta-BHC	NE	NE	2.70	10.6	ND	NA		ND	NA		ND	NA		ND	NA	
delta-BHC	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Dieldrin	NE	NE	0.304	1.20	ND	NA		ND	NA		ND	NA		ND	NA	
Endosulfan I	NE	NE	367	4,100	ND	NA		ND	NA		ND	NA		ND	NA	
Endosulfan II	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Endosulfan sulfate	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Endrin	NE	NE	18.3	205	ND	NA		ND	NA		ND	NA		ND	NA	
Endrin aldehyde	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Endrin ketone	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	NA		ND	NA		ND	NA		ND	NA	
gamma-Chlordane	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Heptachlor	NE	NE	1.08	4.26	ND	NA		ND	NA		ND	NA		ND	NA	
Heptachlor epoxide	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	NA		ND	NA		ND	NA		ND	NA	
Toxaphene	NE	NE	4.42	17.4	ND	NA		ND	NA		ND	NA		ND	NA	
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-DB	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dalapon	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dicamba	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dichlorprop	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dinoseb	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
MCPA	NE	NE	31.0[g]	310[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
MCPP	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,5-TP (Silvex)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 114	NE	NE	1.14	4.24	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 118	NE	NE	1.14	4.24	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 123	NE	NE	1.14	4.24	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 126	NE	NE	0.00034	0.00127	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 156	NE	NE	1.14	4.24	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 157	NE	NE	1.14	4.24	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 167	NE	NE	1.14	4.24	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 169	NE	NE	0.00114	0.00424	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 170	NE	NE	0.34	1.27	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 180	NE	NE	3.41	12.7	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 189	NE	NE	1.14	4.24	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 77	NE	NE	0.34	1.27	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 81	NE	NE	0.114	0.42	ND	NA		ND	NA		ND	NA		ND	NA	

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10301			10302			10303			10304		
FIELD ID					CAN103-1031-5001			CAN103-1032-5001			CAN103-1033-5001			CAN103-1034-5001		
SAMPLE DEPTH (FT BGS)					0 - 1			0 - 1			0 - 1			0 - 1		
DATE COLLECTED					September 21, 1993			September 21, 1993			September 21, 1993			September 21, 1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	**2,520**	154		**5,890**	786		**2,200**	150		**2,290**	197	
TPH-DRO	NE	NE	1,000	1,000	NS	NA		NS	NA		NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	NA		NS	NA		NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	NA		NS	NA		NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10308			10308			10308			10309		
FIELD ID					CAN103-1038-003			CAN103-1038-003			CAN103-1038-005			CAN103-1039-003		
SAMPLE DEPTH (FT BGS)					3			3			5			3		
DATE COLLECTED					December 1, 1994			December 1, 1994			December 1, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	NS	--	--	22,900	12.9		19,200	12.8		23,000	12.8	
Antimony	16.0	3.15	31.3	454	NS	--	--	ND	7.8	UJ	ND	7.7	UJ	ND	7.7	UJ
Arsenic	4.30	3.60	3.90	17.7	NS	--	--	2.2	0.65		1.9	0.64		2	0.64	
Barium	890	670	15,600	223,000	NS	--	--	183	1.3		176	1.3		184	1.3	
Beryllium	0.73	0.78	156	2,260	NS	--	--	1.5	0.26		1.4	0.26		1.4	0.26	
Cadmium	1.30	0.35	70.3	897	NS	--	--	ND	0.65	U	ND	0.64	U	ND	0.64	U
Calcium	237,498	44,800	NE	NE	NS	--	--	3,740	25.9		3,290	25.6		3,300	25.6	
Chromium	13.3	10.5	117,000	1.70E+06	NS	--	--	20.5	1.3		20.1	1.3		21.4	1.3	
Cobalt	4.70	6.60	23[g]	300[g]	NS	--	--	10.7	1.3		8.3	1.3		9.9	1.3	
Copper	8.30	18.3	3,130	45,400	NS	--	--	17.5	2.6		15	2.6		16.5	2.6	
Iron	13,148	10,100	54,800	795,000	NS	--	--	20,800	12.9		17,200	12.8		20,200	12.8	
Lead	8.70	12.0	400	800	NS	--	--	15.5	3.2	J	12.2	1.3	J	14	1.3	J
Magnesium	19,300	1,930	NE	NE	NS	--	--	4,730	25.9		3,920	25.6		4,400	25.6	
Manganese	333	307	1,860	26,700	NS	--	--	541	1.3		452	1.3		554	1.3	
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	NS	--	--	ND	0.13	U	ND	0.13	U	ND	0.13	U
Nickel	14.9	11.0	1,560	22,500	NS	--	--	16.4	5.2		15.2	5.1		15.2	5.1	
Potassium	2,512	2,691	NE	NE	NS	--	--	4,540	647		3,960	640		4,580	640	
Selenium	1.10	0.26	391	5,680	NS	--	--	ND	1.3	UJ	0.17	1.3	J	0.18	0.64	J
Silver	2.65	0.40	391	5,680	NS	--	--	ND	1.3	U	ND	1.3	U	ND	1.3	U
Sodium	1,227	102	NE	NE	NS	--	--	572	647	J	560	640	J	614	640	J
Thallium	2.65	0.60	0.782	11.4	NS	--	--	0.34	0.65	J	0.31	0.64	J	0.26	0.64	J
Vanadium	32.8	23.3	391	5,680	NS	--	--	27.3	1.3		24.6	1.3		26.2	1.3	
Zinc	30.6	32.2	23,500	341,000	NS	--	--	56.2	2.6		47.1	2.6		56.1	2.6	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	NS	--	--	0.1	0.013		0.085	0.013		0.061	0.013	
Benzene	NE	NE	15.4	84.7	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Bromodichloromethane	NE	NE	5.41	30.1	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Bromoform	NE	NE	62.0[g]	220[g]	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Bromomethane	NE	NE	16.5	86.5	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
2-Butanone (MEK)	NE	NE	37,100	375,000	NS	--	--	0.021	0.013		0.016	0.013		ND	0.013	U
Carbon disulfide	NE	NE	1,530	8,330	NS	--	--	ND	0.0065	U	ND	0.0064	U	0.013	0.0064	
Carbon tetrachloride	NE	NE	10.8	59.8	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Chlorobenzene	NE	NE	376	2,120	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Chloroethane	NE	NE	NE	NE	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
Chloroform	NE	NE	5.86	32.7	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Chloromethane	NE	NE	275	1,290	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
1,1-Dichloroethane	NE	NE	64.5	359	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
1,2-Dichloroethane	NE	NE	7.89	43.5	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
1,1-Dichloroethene	NE	NE	449	2,290	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
1,2-Dichloropropane	NE	NE	15.2	84.4	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Ethylbenzene	NE	NE	68.4	378	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
2-Hexanone	NE	NE	210[g]	1400[g]	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10308			10308			10308			10309		
FIELD ID					CAN103-1038-003			CAN103-1038-003			CAN103-1038-005			CAN103-1039-003		
SAMPLE DEPTH (FT BGS)					3			3			5			3		
DATE COLLECTED					December 1, 1994			December 1, 1994			December 1, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
Methylene chloride	NE	NE	409	4,700	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Styrene	NE	NE	7,280	50,000	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Tetrachloroethene	NE	NE	7.02	36.6	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Toluene	NE	NE	5,270	57,700	NS	--	--	0.0016	0.0065	J	0.0036	0.0064	J	0.0014	0.0064	J
1,1,1-Trichloroethane	NE	NE	15,600	78,900	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Trichloroethene	NE	NE	8.77	41.3	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Vinyl acetate	NE	NE	2,560	12,300	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
Vinyl chloride	NE	NE	0.728	26.1	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
Xylenes (total)	NE	NE	814	3,980	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Acenaphthylene	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Antracene	NE	NE	17,200	183,000	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Benzo(a)anthracene	NE	NE	1.48	23.4	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Benzo(a)pyrene	NE	NE	0.148	2.34	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Benzo(k)fluoranthene	NE	NE	14.8	234	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	NS	--	--	ND	2.1	U	ND	2	U	ND	2	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Carbazole	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
4-Chloroaniline	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2-Chloronaphthalene	NE	NE	6,260	90,800	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2-Chlorophenol	NE	NE	391	5,680	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Chrysene	NE	NE	148	2,340	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Di-n-butyl phthalate	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Di-n-octyl phthalate	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Dibenzofuran	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
1,3-Dichlorobenzene	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
1,4-Dichlorobenzene	NE	NE	31.70	177	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2,4-Dichlorophenol	NE	NE	183	2,050	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	NS	--	--	ND	0.85	U	ND	0.85	U	ND	0.85	U
Diethyl phthalate	NE	NE	48,900	547,000	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10308			10308			10308			10309		
FIELD ID					CAN103-1038-003			CAN103-1038-003			CAN103-1038-005			CAN103-1039-003		
SAMPLE DEPTH (FT BGS)					3			3			5			3		
DATE COLLECTED					December 1, 1994			December 1, 1994			December 1, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	NS	--	--	ND	2.1	U	ND	2	U	ND	2	U
2,4-Dinitrophenol	NE	NE	122	1,370	NS	--	--	ND	2.1	U	ND	2	U	ND	2	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2,6-Dinitrotoluene	NE	NE	61.1	684	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Fluoranthene	NE	NE	2,290	24,400	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Fluorene	NE	NE	2,290	24,400	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Hexachlorobenzene	NE	NE	3.04	12.0	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Hexachlorobutadiene	NE	NE	61.1	246	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Hexachloroethane	NE	NE	42.8	479	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Isophorone	NE	NE	5,120	137,000	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2-Methylnaphthalene	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2-Methylphenol	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
4-Methylphenol	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Naphthalene	NE	NE	43.0	241	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	NS	--	--	ND	2.1	U	ND	2	U	ND	2	U
3-Nitroaniline	NE	NE	NE	NE	NS	--	--	ND	2.1	U	ND	2	U	ND	2	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	NS	--	--	ND	2.1	U	ND	2	U	ND	2	U
Nitrobenzene	NE	NE	53.5	300	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2-Nitrophenol	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
4-Nitrophenol	NE	NE	NE	NE	NS	--	--	ND	2.1	U	ND	2	U	ND	2	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Pentachlorophenol	NE	NE	8.94	30.00	NS	--	--	ND	2.1	U	ND	2	U	ND	2	U
Phenanthrene	NE	NE	1,830	20,500	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Phenol	NE	NE	18,300	205,000	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Pyrene	NE	NE	1,720	18,300	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	NS	--	--	ND	2.10	U	ND	2.00	U	ND	2.00	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.043	U	ND	0.043	U	ND	0.042	U	ND	0.042	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.043	U	ND	0.043	U	ND	0.042	U	ND	0.042	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.043	U	ND	0.043	U	ND	0.042	U	ND	0.042	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.043	U	ND	0.043	U	ND	0.042	U	ND	0.042	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.043	U	ND	0.043	U	ND	0.042	U	ND	0.042	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.043	U	ND	0.043	U	ND	0.042	U	ND	0.042	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.043	U	ND	0.043	U	ND	0.042	U	ND	0.042	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0043	U	ND	0.0043	U	ND	0.0042	U	ND	0.0042	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0043	U	ND	0.0043	U	ND	0.0042	U	ND	0.0042	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0043	U	0.0024	0.0043	J	ND	0.0042	U	ND	0.0042	U
Aldrin	NE	NE	0.284	1.12	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10308			10308			10308			10309		
FIELD ID					CAN103-1038-003			CAN103-1038-003			CAN103-1038-005			CAN103-1039-003		
SAMPLE DEPTH (FT BGS)					3			3			5			3		
DATE COLLECTED					December 1, 1994			December 1, 1994			December 1, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
delta-BHC	NE	NE	NE	NE	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0043	U	0.0024	0.0043	J	ND	0.0042	U	ND	0.0042	U
Endosulfan I	NE	NE	367	4,100	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
Endosulfan II	NE	NE	NE	NE	ND	0.0043	U	ND	0.0043	U	ND	0.0042	U	ND	0.0042	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0043	U	ND	0.0043	U	ND	0.0042	U	ND	0.0042	U
Endrin	NE	NE	18.3	205	ND	0.0043	U	0.0026	0.0043	J	ND	0.0042	U	ND	0.0042	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0043	U	ND	0.0043	U	ND	0.0042	U	ND	0.0042	U
Endrin ketone	NE	NE	NE	NE	ND	0.0043	U	ND	0.0043	U	ND	0.0042	U	ND	0.0042	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.022	U	ND	0.022	U	ND	0.022	U	ND	0.022	U
Toxaphene	NE	NE	4.42	17.4	ND	0.22	U	ND	0.22	U	ND	0.22	U	ND	0.22	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	NS	--	--	ND	0.052	U	ND	0.051	U	ND	0.051	U
2,4-DB	NE	NE	NE	NE	NS	--	--	ND	0.13	U	ND	0.13	U	ND	0.13	U
Dalapon	NE	NE	1800[g]	18000[g]	NS	--	--	ND	0.13	U	ND	0.13	U	ND	0.13	U
Dicamba	NE	NE	1800[g]	18000[g]	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
Dichlorprop	NE	NE	NE	NE	NS	--	--	ND	0.026	U	ND	0.026	U	ND	0.026	U
Dinoseb	NE	NE	61.0[g]	620[g]	NS	--	--	ND	0.026	U	ND	0.026	U	ND	0.026	U
MCPA	NE	NE	31.0[g]	310[g]	NS	--	--	ND	6.5	U	ND	6.4	U	ND	6.4	U
MCPP	NE	NE	61.0[g]	620[g]	NS	--	--	ND	6.5	U	ND	6.4	U	ND	6.4	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10308			10308			10308			10309		
FIELD ID					CAN103-1038-003			CAN103-1038-003			CAN103-1038-005			CAN103-1039-003		
SAMPLE DEPTH (FT BGS)					3			3			5			3		
DATE COLLECTED					December 1, 1994			December 1, 1994			December 1, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	NS	--	--	ND	51.8	U	ND	51.2	U	ND	51.2	U
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10309			10310			10310			10310		
FIELD ID					CAN103-1039-005			CAN103-10310-003			CAN103-10310-603			CAN103-10310-005		
SAMPLE DEPTH (FT BGS)					5			3			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 2, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	24,700	12.7		13,200	11.4		14,100	11.4		12,400	11.5	
Antimony	16.0	3.15	31.3	454	ND	7.6	UJ	ND	6.8	UJ	ND	6.8	UJ	ND	6.9	UJ
Arsenic	4.30	3.60	3.90	17.7	1.9	0.64		**4.6**	0.57		**4.3**	0.57		3	0.57	
Barium	890	670	15,600	223,000	250	1.3		94.4	1.1		99.2	1.1		110	1.1	
Beryllium	0.73	0.78	156	2,260	1.6	0.25		0.86	0.23		0.82	0.23		0.72	0.23	
Cadmium	1.30	0.35	70.3	897	0.72	0.64		ND	0.57	U	0.93	0.57	J	0.66	0.57	
Calcium	237,498	44,800	NE	NE	4,780	25.4		2,100	22.8		2,140	22.8		2,180	23	
Chromium	13.3	10.5	117,000	1.70E+06	22.7	1.3		11.3	1.1		12.7	1.1		12.1	1.1	
Cobalt	4.70	6.60	23[g]	300[g]	11.3	1.3		5.1	1.1		5.8	1.1		7.2	1.1	
Copper	8.30	18.3	3,130	45,400	18.9	2.5		8.3	2.3		8.9	2.3		9.6	2.3	
Iron	13,148	10,100	54,800	795,000	21,700	12.7		12,500	11.4		12,800	11.4		12,200	11.5	
Lead	8.70	12.0	400	800	19.6	3.2	J	7.6	0.57	J	8.4	1.1	J	7.6	0.57	J
Magnesium	19,300	1,930	NE	NE	4,630	25.4		2,100	22.8		2,190	22.8		2,030	23	
Manganese	333	307	1,860	26,700	902	1.3		392	1.1		410	1.1		501	1.1	
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.13	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Nickel	14.9	11.0	1,560	22,500	17	5.1		9.6	4.6		10.1	4.6		10.6	4.6	
Potassium	2,512	2,691	NE	NE	4,750	636		2,370	569		2,460	569		2,280	574	
Selenium	1.10	0.26	391	5,680	0.18	1.3	J	0.13	0.57	J	0.16	0.57	J	ND	0.57	UJ
Silver	2.65	0.40	391	5,680	ND	1.3	U	ND	1.1	U	ND	1.1	U	ND	1.1	U
Sodium	1,227	102	NE	NE	576	636	J	99.1	569	J	170	569	J	124	574	J
Thallium	2.65	0.60	0.782	11.4	0.27	0.64	J	0.18	0.57	J	0.16	0.57	J	0.15	0.57	J
Vanadium	32.8	23.3	391	5,680	32.1	1.3		24.5	1.1		24.7	1.1		21.8	1.1	
Zinc	30.6	32.2	23,500	341,000	61.8	2.5		27.2	2.3		30	2.3		29	2.3	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	0.076	0.013		0.027	0.011		0.028	0.011		0.02	0.011	
Benzene	NE	NE	15.4	84.7	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Bromomethane	NE	NE	16.5	86.5	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2-Butanone (MEK)	NE	NE	37,100	375,000	0.014	0.013		ND	0.011	U	ND	0.011	U	ND	0.011	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Chloroethane	NE	NE	NE	NE	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Chloroform	NE	NE	5.86	32.7	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Chloromethane	NE	NE	275	1,290	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10309			10310			10310			10310		
FIELD ID					CAN103-1039-005			CAN103-10310-003			CAN103-10310-603			CAN103-10310-005		
SAMPLE DEPTH (FT BGS)					5			3			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 2, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Methylene chloride	NE	NE	409	4,700	ND	0.0064	U	0.0034	0.0057	J	0.0027	0.0057	J	0.0023	0.0057	J
Styrene	NE	NE	7,280	50,000	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Toluene	NE	NE	5,270	57,700	0.0027	0.0064	J	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Acenaphthylene	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Antracene	NE	NE	17,200	183,000	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	2	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.42	U	ND	0.38	U	0.038	0.38	J	ND	0.38	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.42	U	0.071	0.38	J	ND	0.38	U	ND	0.38	U
Carbazole	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Chrysene	NE	NE	148	2,340	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Dibenzofuran	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.84	U	ND	0.75	U	ND	0.75	U	ND	0.76	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10309			10310			10310			10310		
FIELD ID					CAN103-1039-005			CAN103-10310-003			CAN103-10310-603			CAN103-10310-005		
SAMPLE DEPTH (FT BGS)					5			3			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 2, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	2	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	2	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Fluoranthene	NE	NE	2,290	24,400	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Fluorene	NE	NE	2,290	24,400	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Hexachloroethane	NE	NE	42.8	479	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Isophorone	NE	NE	5,120	137,000	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2-Methylphenol	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
4-Methylphenol	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Naphthalene	NE	NE	43.0	241	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	2	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
3-Nitroaniline	NE	NE	NE	NE	ND	2	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	2	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Nitrobenzene	NE	NE	53.5	300	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
4-Nitrophenol	NE	NE	NE	NE	ND	2	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	2	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Phenol	NE	NE	18,300	205,000	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Pyrene	NE	NE	1,720	18,300	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	2.00	U	ND	1.80	U	ND	1.80	U	ND	1.80	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.042	U	ND	0.038	U	ND	0.038	U	ND	0.038	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.042	U	ND	0.038	U	ND	0.038	U	ND	0.038	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.042	U	ND	0.038	U	ND	0.038	U	ND	0.038	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.042	U	ND	0.038	U	ND	0.038	U	ND	0.038	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.042	U	ND	0.038	U	ND	0.038	U	ND	0.038	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.042	U	ND	0.038	U	ND	0.038	U	ND	0.038	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.042	U	ND	0.038	U	ND	0.038	U	ND	0.038	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0042	U	ND	0.0038	U	ND	0.0038	U	ND	0.0038	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0042	U	0.0036	0.0038	J	0.0032	0.0038	J	ND	0.0038	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0042	U	ND	0.0038	U	ND	0.0038	U	ND	0.0038	U
Aldrin	NE	NE	0.284	1.12	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10309			10310			10310			10310		
FIELD ID					CAN103-1039-005			CAN103-10310-003			CAN103-10310-603			CAN103-10310-005		
SAMPLE DEPTH (FT BGS)					5			3			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 2, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
delta-BHC	NE	NE	NE	NE	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0042	U	ND	0.0038	U	ND	0.0038	U	ND	0.0038	U
Endosulfan I	NE	NE	367	4,100	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Endosulfan II	NE	NE	NE	NE	ND	0.0042	U	ND	0.0038	U	ND	0.0038	U	ND	0.0038	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0042	U	ND	0.0038	U	ND	0.0038	U	ND	0.0038	U
Endrin	NE	NE	18.3	205	ND	0.0042	U	ND	0.0038	U	ND	0.0038	U	ND	0.0038	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0042	U	ND	0.0038	U	ND	0.0038	U	ND	0.0038	U
Endrin ketone	NE	NE	NE	NE	ND	0.0042	U	ND	0.0038	U	ND	0.0038	U	ND	0.0038	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0022	U	0.0024	0.0019		0.0022	0.0019		0.0012	0.002	J
Heptachlor	NE	NE	1.08	4.26	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.022	U	ND	0.019	U	ND	0.019	U	ND	0.02	U
Toxaphene	NE	NE	4.42	17.4	ND	0.22	U	ND	0.19	U	ND	0.19	U	ND	0.2	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.051	U	ND	0.046	U	ND	0.046	U	ND	0.046	U
2,4-DB	NE	NE	NE	NE	ND	0.13	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.13	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dichlorprop	NE	NE	NE	NE	ND	0.025	U	ND	0.023	U	ND	0.023	U	ND	0.023	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.025	U	ND	0.023	U	ND	0.023	U	ND	0.023	U
MCPA	NE	NE	31.0[g]	310[g]	ND	6.4	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
MCPP	NE	NE	61.0[g]	620[g]	ND	6.4	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10309			10310			10310			10310		
FIELD ID					CAN103-1039-005			CAN103-10310-003			CAN103-10310-603			CAN103-10310-005		
SAMPLE DEPTH (FT BGS)					5			3			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 2, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	ND	50.9	U	ND	45.5	U	47.5	45.5		ND	45.9	U
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10311			10311			10312			10312		
FIELD ID					CAN103-10311-003			CAN103-10311-005			CAN103-1312-003			CAN103-1312-005		
SAMPLE DEPTH (FT BGS)					3			5			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 4, 1994			December 4, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	13,900	12.1		11,600	11.8		9,780	24	J	6,460	23.4	J
Antimony	16.0	3.15	31.3	454	3.3	7.3	J	ND	7.1	UJ	ND	14.4	UJ	ND	14.1	UJ
Arsenic	4.30	3.60	3.90	17.7	1.2	0.6		2	0.59		0.92	0.6		0.84	0.59	
Barium	890	670	15,600	223,000	111	1.2		132	1.2		278	2.4	J	78.8	2.3	J
Beryllium	0.73	0.78	156	2,260	0.8	0.24		0.85	0.24		0.45	0.48	J	0.32	0.47	J
Cadmium	1.30	0.35	70.3	897	ND	0.6	U	ND	0.59	U	ND	1.2	U	ND	1.2	U
Calcium	237,498	44,800	NE	NE	1,290	24.2		1,410	23.6		143,000	48		173,000	46.9	
Chromium	13.3	10.5	117,000	1.70E+06	13.4	1.2		12.5	1.2		6.4	2.4		4	2.3	
Cobalt	4.70	6.60	23[g]	300[g]	6.4	1.2		7.6	1.2		ND	2.4	U	ND	2.3	U
Copper	8.30	18.3	3,130	45,400	9.2	2.4		9.9	2.4		3.9	4.8	J	2.9	4.7	J
Iron	13,148	10,100	54,800	795,000	12,400	12.1		11,300	11.8		6,340	24		4,380	23.4	
Lead	8.70	12.0	400	800	7.6	0.6	J	8.2	0.59	J	3.7	0.6	J	3.3	0.59	J
Magnesium	19,300	1,930	NE	NE	2,760	24.2		2,740	23.6		3,860	48		3,190	46.9	
Manganese	333	307	1,860	26,700	124	1.2		198	1.2		93.8	2.4		118	2.3	
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.12	U	ND	0.12	U	ND	0.12	U	ND	0.12	U
Nickel	14.9	11.0	1,560	22,500	10.1	4.8		11.3	4.7		8.6	9.6	J	3.5	9.4	J
Potassium	2,512	2,691	NE	NE	2,920	605		2,460	591		2,130	1,200		1,500	1,170	
Selenium	1.10	0.26	391	5,680	0.15	0.6	J	0.13	0.59	J	ND	2.4	UJ	ND	1.2	U
Silver	2.65	0.40	391	5,680	ND	1.2	U	ND	1.2	U	ND	2.4	U	ND	2.3	U
Sodium	1,227	102	NE	NE	392	605	J	345	591	J	ND	1,200	U	ND	1,170	U
Thallium	2.65	0.60	0.782	11.4	0.16	0.6	J	0.21	0.59	J	ND	1.2	UJ	ND	1.2	UJ
Vanadium	32.8	23.3	391	5,680	18.7	1.2		19.8	1.2		17	2.4	J	11	2.3	J
Zinc	30.6	32.2	23,500	341,000	28.9	2.4		27.1	2.4		15.1	4.8		10.5	4.7	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	0.06	0.012		0.035	0.012		0.034	0.012		0.081	0.012	
Benzene	NE	NE	15.4	84.7	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Bromomethane	NE	NE	16.5	86.5	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.012	U	ND	0.012	U	ND	0.012	U	0.012	0.012	
Carbon disulfide	NE	NE	1,530	8,330	ND	0.006	U	0.0071	0.0059		ND	0.006	U	ND	0.0059	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Chlorobenzene	NE	NE	376	2,120	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Chloroethane	NE	NE	NE	NE	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
Chloroform	NE	NE	5.86	32.7	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Chloromethane	NE	NE	275	1,290	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Ethylbenzene	NE	NE	68.4	378	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10311			10311			10312			10312		
FIELD ID					CAN103-10311-003			CAN103-10311-005			CAN103-1312-003			CAN103-1312-005		
SAMPLE DEPTH (FT BGS)					3			5			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 4, 1994			December 4, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
Methylene chloride	NE	NE	409	4,700	0.0026	0.006	J	0.0019	0.0059	J	ND	0.006	U	ND	0.0059	U
Styrene	NE	NE	7,280	50,000	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Toluene	NE	NE	5,270	57,700	ND	0.006	U	0.0027	0.0059	J	ND	0.006	U	ND	0.0059	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
Xylenes (total)	NE	NE	814	3,980	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Acenaphthylene	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Antracene	NE	NE	17,200	183,000	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.9	U	ND	1.9	U	ND	1.9	U	ND	1.9	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Carbazole	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Chrysene	NE	NE	148	2,340	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Dibenzofuran	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.8	U	ND	0.78	U	ND	0.79	U	ND	0.77	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10311			10311			10312			10312		
FIELD ID					CAN103-10311-003			CAN103-10311-005			CAN103-1312-003			CAN103-1312-005		
SAMPLE DEPTH (FT BGS)					3			5			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 4, 1994			December 4, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.9	U	ND	1.9	U	ND	1.9	U	ND	1.9	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.9	U	ND	1.9	U	ND	1.9	U	ND	1.9	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Fluoranthene	NE	NE	2,290	24,400	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Fluorene	NE	NE	2,290	24,400	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Hexachloroethane	NE	NE	42.8	479	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Isophorone	NE	NE	5,120	137,000	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2-Methylphenol	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
4-Methylphenol	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Naphthalene	NE	NE	43.0	241	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.9	U	ND	1.9	U	ND	1.9	U	ND	1.9	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.9	U	ND	1.9	U	ND	1.9	U	ND	1.9	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.9	U	ND	1.9	U	ND	1.9	U	ND	1.9	U
Nitrobenzene	NE	NE	53.5	300	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.9	U	ND	1.9	U	ND	1.9	U	ND	1.9	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.9	U	ND	1.9	U	ND	1.9	U	ND	1.9	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Phenol	NE	NE	18,300	205,000	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Pyrene	NE	NE	1,720	18,300	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.90	U	ND	1.90	U	ND	1.90	U	ND	1.90	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.40	U	ND	0.39	U	ND	0.40	U	ND	0.39	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.04	U	ND	0.039	U	ND	0.04	U	ND	0.039	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.04	U	ND	0.039	U	ND	0.04	U	ND	0.039	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.04	U	ND	0.039	U	ND	0.04	U	ND	0.039	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.04	U	ND	0.039	U	ND	0.04	U	ND	0.039	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.04	U	ND	0.039	U	ND	0.04	U	ND	0.039	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.04	U	ND	0.039	U	ND	0.04	U	ND	0.039	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.04	U	ND	0.039	U	ND	0.04	U	ND	0.039	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
Aldrin	NE	NE	0.284	1.12	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10311			10311			10312			10312		
FIELD ID					CAN103-10311-003			CAN103-10311-005			CAN103-1312-003			CAN103-1312-005		
SAMPLE DEPTH (FT BGS)					3			5			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 4, 1994			December 4, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
delta-BHC	NE	NE	NE	NE	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
Dieldrin	NE	NE	0.304	1.20	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
Endosulfan I	NE	NE	367	4,100	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
Endosulfan II	NE	NE	NE	NE	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
Endrin	NE	NE	18.3	205	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
Endrin ketone	NE	NE	NE	NE	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.021	U	ND	0.02	U	ND	0.02	U	ND	0.02	U
Toxaphene	NE	NE	4.42	17.4	ND	0.21	U	ND	0.2	U	ND	0.2	U	ND	0.2	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.048	U	ND	0.047	U	ND	0.048	U	ND	0.047	U
2,4-DB	NE	NE	NE	NE	ND	0.12	U	ND	0.12	U	ND	0.12	U	ND	0.12	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.12	U	ND	0.12	U	ND	0.12	U	ND	0.12	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
Dichlorprop	NE	NE	NE	NE	ND	0.024	U	ND	0.024	U	ND	0.024	U	ND	0.023	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.024	U	ND	0.024	U	ND	0.024	U	ND	0.023	U
MCPA	NE	NE	31.0[g]	310[g]	ND	6	U	ND	5.9	U	ND	6	U	ND	5.9	U
MCPP	NE	NE	61.0[g]	620[g]	ND	6	U	ND	5.9	U	ND	6	U	ND	5.9	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10311			10311			10312			10312		
FIELD ID					CAN103-10311-003			CAN103-10311-005			CAN103-1312-003			CAN103-1312-005		
SAMPLE DEPTH (FT BGS)					3			5			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 4, 1994			December 4, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	ND	48.4	U	ND	47.2	U	ND	48	U	ND	46.9	U
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10313			10313			10313		
FIELD ID					CAN103-1313-0000			CAN103-1313-0005			CAN103-1313-0010			CAN103-1313-0015		
SAMPLE DEPTH (FT BGS)					0 - 0.5			3 - 5			8 - 10			13 - 15		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	4,740	20.3	J	2,480	55.9	J	4,940	21.9		4,050	11.3	
Antimony	16.0	3.15	31.3	454	ND	12.2	UJ	ND	33.5	UJ	ND	13.2	U	ND	6.8	U
Arsenic	4.30	3.60	3.90	17.7	1.2	0.51		2.5	0.56		2	0.55		1.5	0.56	
Barium	890	670	15,600	223,000	145	2	J	1,300	5.6	J	377	2.2		179	1.1	
Beryllium	0.73	0.78	156	2,260	0.26	0.41	J	ND	1.1	U	ND	0.44	U	0.25	0.23	
Cadmium	1.30	0.35	70.3	897	ND	1	U	ND	2.8	U	ND	1.1	U	ND	0.56	U
Calcium	237,498	44,800	NE	NE	162,000	40.6		329,000	112		191,000	43.8		91,700	22.6	
Chromium	13.3	10.5	117,000	1.70E+06	2.4	2	J	ND	5.6	UJ	5.3	2.2		3.6	1.1	
Cobalt	4.70	6.60	23[g]	300[g]	ND	2	U	ND	5.6	U	1.7	2.2	J	2.2	1.1	
Copper	8.30	18.3	3,130	45,400	2.6	4.1	J	ND	11.2	U	2.5	4.4	J	2.6	2.3	
Iron	13,148	10,100	54,800	795,000	3,780	20.3		1,530	55.9		3,620	21.9		2,730	11.3	
Lead	8.70	12.0	400	800	3.4	0.51		1.5	0.56		2.2	5.5	J	3.2	0.56	
Magnesium	19,300	1,930	NE	NE	2,360	40.6		4,880	112		5,950	43.8		5,800	22.6	
Manganese	333	307	1,860	26,700	42.6	2	J	15	5.6	J	50.6	2.2		51.9	1.1	
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.1	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Nickel	14.9	11.0	1,560	22,500	3.4	8.1	J	ND	22.4	U	6.6	8.8	J	4.4	4.5	J
Potassium	2,512	2,691	NE	NE	957	1,020	J	ND	2,800	U	812	1,100	J	837	565	
Selenium	1.10	0.26	391	5,680	ND	1	UJ	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ
Silver	2.65	0.40	391	5,680	ND	2	UJ	ND	5.6	UJ	ND	2.2	U	ND	1.1	U
Sodium	1,227	102	NE	NE	ND	1,020	U	ND	2,800	U	ND	1,100	U	ND	565	U
Thallium	2.65	0.60	0.782	11.4	ND	1	UJ	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ
Vanadium	32.8	23.3	391	5,680	10.4	2		9	5.6		20.8	2.2		17.4	1.1	
Zinc	30.6	32.2	23,500	341,000	9.9	4.1	J	5.7	11.2	J	9	4.4		6.1	2.3	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Benzene	NE	NE	15.4	84.7	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Bromomethane	NE	NE	16.5	86.5	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Chloroethane	NE	NE	NE	NE	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Chloroform	NE	NE	5.86	32.7	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Chloromethane	NE	NE	275	1,290	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10313			10313			10313		
FIELD ID					CAN103-1313-0000			CAN103-1313-0005			CAN103-1313-0010			CAN103-1313-0015		
SAMPLE DEPTH (FT BGS)					0 - 0.5			3 - 5			8 - 10			13 - 15		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Methylene chloride	NE	NE	409	4,700	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Styrene	NE	NE	7,280	50,000	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Toluene	NE	NE	5,270	57,700	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Acenaphthylene	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Antracene	NE	NE	17,200	183,000	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.6	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.57	U	ND	0.6	U	ND	0.6	U	ND	0.43	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Carbazole	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Chrysene	NE	NE	148	2,340	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Dibenzofuran	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.67	U	ND	0.74	U	ND	0.72	U	ND	0.75	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10313			10313			10313		
FIELD ID					CAN103-1313-0000			CAN103-1313-0005			CAN103-1313-0010			CAN103-1313-0015		
SAMPLE DEPTH (FT BGS)					0 - 0.5			3 - 5			8 - 10			13 - 15		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.6	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.6	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Fluoranthene	NE	NE	2,290	24,400	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Fluorene	NE	NE	2,290	24,400	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Hexachloroethane	NE	NE	42.8	479	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Isophorone	NE	NE	5,120	137,000	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2-Methylphenol	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
4-Methylphenol	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Naphthalene	NE	NE	43.0	241	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.6	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.6	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.6	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Nitrobenzene	NE	NE	53.5	300	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.6	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.6	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Phenol	NE	NE	18,300	205,000	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Pyrene	NE	NE	1,720	18,300	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.60	U	ND	1.80	U	ND	1.80	U	ND	1.80	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.034	U	ND	0.037	U	ND	0.036	U	ND	0.037	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.034	U	ND	0.037	U	ND	0.036	U	ND	0.037	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.034	U	ND	0.037	U	ND	0.036	U	ND	0.037	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.034	U	ND	0.037	U	ND	0.036	U	ND	0.037	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.034	U	ND	0.037	U	ND	0.036	U	ND	0.037	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.034	U	ND	0.037	U	ND	0.036	U	ND	0.037	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.034	U	ND	0.037	U	ND	0.036	U	ND	0.037	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
Aldrin	NE	NE	0.284	1.12	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10313			10313			10313		
FIELD ID					CAN103-1313-0000			CAN103-1313-0005			CAN103-1313-0010			CAN103-1313-0015		
SAMPLE DEPTH (FT BGS)					0 - 0.5			3 - 5			8 - 10			13 - 15		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
delta-BHC	NE	NE	NE	NE	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
Endosulfan I	NE	NE	367	4,100	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Endosulfan II	NE	NE	NE	NE	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
Endrin	NE	NE	18.3	205	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
Endrin ketone	NE	NE	NE	NE	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.017	U	ND	0.019	U	ND	0.019	U	ND	0.019	U
Toxaphene	NE	NE	4.42	17.4	ND	0.17	U	ND	0.19	U	ND	0.19	U	ND	0.19	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.041	UJ	ND	0.045	UJ	ND	0.044	U	ND	0.045	U
2,4-DB	NE	NE	NE	NE	ND	0.1	UJ	ND	0.11	UJ	ND	0.11	U	ND	0.11	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.1	UJ	ND	0.11	UJ	ND	0.11	U	ND	0.11	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.01	UJ	ND	0.011	UJ	ND	0.011	U	ND	0.011	U
Dichlorprop	NE	NE	NE	NE	ND	0.02	UJ	ND	0.022	UJ	ND	0.022	U	ND	0.023	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.02	UJ	ND	0.022	UJ	ND	0.022	U	ND	0.023	U
MCPA	NE	NE	31.0[g]	310[g]	ND	5.1	UJ	ND	5.6	UJ	ND	5.5	U	ND	5.6	U
MCPP	NE	NE	61.0[g]	620[g]	ND	5.1	UJ	ND	5.6	UJ	ND	5.5	U	ND	5.6	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.01	UJ	ND	0.011	UJ	ND	0.011	U	ND	0.011	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.01	UJ	ND	0.011	UJ	ND	0.011	U	ND	0.011	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313 CAN103-1313-0000 0 - 0.5 December 12, 1994			10313 CAN103-1313-0005 3 - 5 December 12, 1994			10313 CAN103-1313-0010 8 - 10 December 12, 1994			10313 CAN103-1313-0015 13 - 15 December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	ND	40.6	U	ND	44.7	U	ND	43.8	U	ND	45.2	U
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10314			10314			10314		
FIELD ID					CAN103-1313-0020			CAN103-1314-0000			CAN103-1314-0005			CAN103-1314-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	2,550	10.9	J	5,220	52.4	J	9,920	10.6	J	4,690	21.2	J
Antimony	16.0	3.15	31.3	454	ND	6.5	UJ	ND	31.4	UJ	ND	6.4	UJ	ND	12.7	UJ
Arsenic	4.30	3.60	3.90	17.7	0.96	0.54		2.1	0.52		2.9	0.53		1.6	0.53	
Barium	890	670	15,600	223,000	86.2	1.1	J	249	5.2	J	90.7	1.1	J	240	2.1	J
Beryllium	0.73	0.78	156	2,260	0.15	0.22	J	ND	1	U	0.4	0.21		ND	0.42	U
Cadmium	1.30	0.35	70.3	897	ND	0.54	U	ND	2.6	U	ND	0.53	U	ND	1.1	U
Calcium	237,498	44,800	NE	NE	81,100	21.8		260,000	105		58,700	21.2		193,000	42.4	
Chromium	13.3	10.5	117,000	1.70E+06	2.6	1.1	J	ND	5.2	UJ	8.4	1.1	J	2.4	2.1	J
Cobalt	4.70	6.60	23[g]	300[g]	1.4	1.1		2.7	5.2	J	3.4	1.1		1.7	2.1	J
Copper	8.30	18.3	3,130	45,400	1.3	2.2	J	6.4	10.5	J	5.2	2.1		2.6	4.2	J
Iron	13,148	10,100	54,800	795,000	1,860	10.9		4,430	52.4		7,990	10.6		3,640	21.2	
Lead	8.70	12.0	400	800	2.2	0.54		2.5	0.52		5.2	0.53		2.9	0.53	
Magnesium	19,300	1,930	NE	NE	3,400	21.8		2,850	105		2,260	21.2		2,880	42.4	
Manganese	333	307	1,860	26,700	21.7	1.1	J	175	5.2	J	96.3	1.1	J	95.6	2.1	J
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.11	U	ND	0.1	U	ND	0.11	U	ND	0.11	U
Nickel	14.9	11.0	1,560	22,500	2.5	4.4	J	ND	20.9	U	8.8	4.2	J	3.9	8.5	J
Potassium	2,512	2,691	NE	NE	604	545		918	2,620	J	1,560	531		980	1,060	J
Selenium	1.10	0.26	391	5,680	ND	1.1	UJ	ND	1	UJ	ND	1.1	UJ	ND	1.1	UJ
Silver	2.65	0.40	391	5,680	ND	1.1	UJ	ND	5.2	UJ	ND	1.1	UJ	ND	2.1	UJ
Sodium	1,227	102	NE	NE	ND	545	U	ND	2,620	U	ND	531	U	ND	1,060	U
Thallium	2.65	0.60	0.782	11.4	ND	1.1	UJ	ND	2.1	UJ	ND	1.1	UJ	ND	1.1	UJ
Vanadium	32.8	23.3	391	5,680	6.7	1.1		14.9	5.2		15.1	1.1		7.7	2.1	
Zinc	30.6	32.2	23,500	341,000	3.8	2.2	J	9.1	10.5	J	16.9	2.1	J	8.5	4.2	J
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	ND	0.011	U	0.0022	0.01	J	ND	0.011	U	ND	0.011	U
Benzene	NE	NE	15.4	84.7	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Chloroethane	NE	NE	NE	NE	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
Chloroform	NE	NE	5.86	32.7	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Chloromethane	NE	NE	275	1,290	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10314			10314			10314		
FIELD ID					CAN103-1313-0020			CAN103-1314-0000			CAN103-1314-0005			CAN103-1314-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
Methylene chloride	NE	NE	409	4,700	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Styrene	NE	NE	7,280	50,000	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Toluene	NE	NE	5,270	57,700	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Acenaphthylene	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Antracene	NE	NE	17,200	183,000	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.7	U	ND	1.7	U	ND	1.7	U	ND	1.7	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.62	U	ND	0.35	U	ND	0.35	U	ND	0.8	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Carbazole	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Chrysene	NE	NE	148	2,340	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Dibenzofuran	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.72	U	ND	0.69	U	ND	0.7	U	ND	0.7	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10314			10314			10314		
FIELD ID					CAN103-1313-0020			CAN103-1314-0000			CAN103-1314-0005			CAN103-1314-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.7	U	ND	1.7	U	ND	1.7	U	ND	1.7	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.7	U	ND	1.7	U	ND	1.7	U	ND	1.7	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Fluoranthene	NE	NE	2,290	24,400	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Fluorene	NE	NE	2,290	24,400	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Hexachloroethane	NE	NE	42.8	479	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Isophorone	NE	NE	5,120	137,000	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2-Methylphenol	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
4-Methylphenol	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Naphthalene	NE	NE	43.0	241	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.7	U	ND	1.7	U	ND	1.7	U	ND	1.7	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.7	U	ND	1.7	U	ND	1.7	U	ND	1.7	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.7	U	ND	1.7	U	ND	1.7	U	ND	1.7	U
Nitrobenzene	NE	NE	53.5	300	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.7	U	ND	1.7	U	ND	1.7	U	ND	1.7	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.7	U	ND	1.7	U	ND	1.7	U	ND	1.7	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Phenol	NE	NE	18,300	205,000	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Pyrene	NE	NE	1,720	18,300	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.70	U	ND	1.70	U	ND	1.70	U	ND	1.70	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.036	U	ND	0.035	U	ND	0.035	U	ND	0.035	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.036	U	ND	0.035	U	ND	0.035	U	ND	0.035	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.036	U	ND	0.035	U	ND	0.035	U	ND	0.035	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.036	U	ND	0.035	U	ND	0.035	U	ND	0.035	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.036	U	ND	0.035	U	ND	0.035	U	ND	0.035	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.036	U	ND	0.035	U	ND	0.035	U	ND	0.035	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.036	U	ND	0.035	U	ND	0.035	U	ND	0.035	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
Aldrin	NE	NE	0.284	1.12	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10314			10314			10314		
FIELD ID					CAN103-1313-0020			CAN103-1314-0000			CAN103-1314-0005			CAN103-1314-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
delta-BHC	NE	NE	NE	NE	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
Endosulfan I	NE	NE	367	4,100	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
Endosulfan II	NE	NE	NE	NE	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
Endrin	NE	NE	18.3	205	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
Endrin ketone	NE	NE	NE	NE	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.019	U	ND	0.018	U	ND	0.018	U	ND	0.018	U
Toxaphene	NE	NE	4.42	17.4	ND	0.19	U	ND	0.18	U	ND	0.18	U	ND	0.18	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.044	U	ND	0.042	U	ND	0.042	U	ND	0.042	U
2,4-DB	NE	NE	NE	NE	ND	0.11	U	ND	0.1	U	ND	0.11	U	ND	0.11	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.11	U	ND	0.1	U	ND	0.11	U	ND	0.11	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
Dichlorprop	NE	NE	NE	NE	ND	0.022	U	ND	0.021	U	ND	0.021	U	ND	0.021	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.022	U	ND	0.021	U	ND	0.021	U	ND	0.021	U
MCPA	NE	NE	31.0[g]	310[g]	ND	5.4	U	ND	5.2	U	ND	5.3	U	ND	5.3	U
MCPP	NE	NE	61.0[g]	620[g]	ND	5.4	U	ND	5.2	U	ND	5.3	U	ND	5.3	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10314			10314			10314		
FIELD ID					CAN103-1313-0020			CAN103-1314-0000			CAN103-1314-0005			CAN103-1314-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	ND	43.6	U	ND	41.9	U	ND	42.5	U	ND	42.4	U
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10314			10314			10314			10315		
FIELD ID					CAN103-1314-1363			CAN103-1314-0015			CAN103-1314-0020			CAN103-1315-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	5,920	21.1		5,490	21.6	J	5,860	11		4,680	11.9	
Antimony	16.0	3.15	31.3	454	ND	12.7	U	ND	13	UJ	ND	6.6	U	ND	7.2	UJ
Arsenic	4.30	3.60	3.90	17.7	1.7	0.53		1.6	0.54		0.87	0.55		1.2	0.6	
Barium	890	670	15,600	223,000	226	2.1		309	2.2	J	146	1.1		87.5	1.2	
Beryllium	0.73	0.78	156	2,260	ND	0.42	U	ND	0.43	U	0.25	0.22		0.4	0.24	
Cadmium	1.30	0.35	70.3	897	ND	1.1	U	ND	1.1	U	ND	0.55	U	ND	0.6	U
Calcium	237,498	44,800	NE	NE	195,000	42.3		190,000	43.3		99,500	21.9		21,700	23.8	J
Chromium	13.3	10.5	117,000	1.70E+06	4.1	2.1		3.1	2.2	J	3.8	1.1		5.6	1.2	
Cobalt	4.70	6.60	23[g]	300[g]	1.1	2.1	J	1.6	2.2	J	1.6	1.1		2.7	1.2	
Copper	8.30	18.3	3,130	45,400	2.6	4.2	J	2.9	4.3	J	2.3	2.2		7.1	2.4	
Iron	13,148	10,100	54,800	795,000	4,110	21.1		3,640	21.6		3,750	11		6,010	11.9	
Lead	8.70	12.0	400	800	3.2	0.53		2.7	0.54		3.6	0.55		6.9	0.6	J
Magnesium	19,300	1,930	NE	NE	2,980	42.3		4,550	43.3		3,840	21.9		1,960	23.8	
Manganese	333	307	1,860	26,700	116	2.1		56.8	2.2	J	31.4	1.1		94.7	1.2	
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.12	U
Nickel	14.9	11.0	1,560	22,500	3.9	8.5	J	4.9	8.7	J	4.2	4.4	J	5.7	4.8	
Potassium	2,512	2,691	NE	NE	1,210	1,060		1,030	1,080	J	1,130	548		2,280	596	
Selenium	1.10	0.26	391	5,680	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ	ND	1.2	UJ
Silver	2.65	0.40	391	5,680	ND	2.1	U	ND	2.2	UJ	ND	1.1	U	ND	1.2	U
Sodium	1,227	102	NE	NE	ND	1,060	U	ND	1,080	U	ND	548	U	ND	596	U
Thallium	2.65	0.60	0.782	11.4	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ	0.14	0.6	J
Vanadium	32.8	23.3	391	5,680	8.1	2.1		7.8	2.2		6.6	1.1		12.4	1.2	
Zinc	30.6	32.2	23,500	341,000	10	4.2		8.8	4.3	J	7.3	2.2		18.7	2.4	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
Benzene	NE	NE	15.4	84.7	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Chloroethane	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
Chloroform	NE	NE	5.86	32.7	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Chloromethane	NE	NE	275	1,290	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10314			10314			10314			10315		
FIELD ID					CAN103-1314-1363			CAN103-1314-0015			CAN103-1314-0020			CAN103-1315-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
Methylene chloride	NE	NE	409	4,700	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.0068	U
Styrene	NE	NE	7,280	50,000	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Toluene	NE	NE	5,270	57,700	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Acenaphthylene	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Antracene	NE	NE	17,200	183,000	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.36	U	ND	0.36	U	0.053	0.39	J
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.35	U	ND	0.36	U	ND	0.36	U	0.061	0.39	J
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.36	U	ND	0.36	U	0.095	0.39	J
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.7	U	ND	1.7	U	ND	1.8	U	ND	1.9	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.52	U	ND	0.51	U	ND	0.48	U	ND	0.39	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Carbazole	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Chrysene	NE	NE	148	2,340	ND	0.35	U	ND	0.36	U	ND	0.36	U	0.067	0.39	J
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Dibenzofuran	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.7	U	ND	0.71	U	ND	0.72	U	ND	0.79	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U

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Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10314			10314			10314			10315		
FIELD ID					CAN103-1314-1363			CAN103-1314-0015			CAN103-1314-0020			CAN103-1315-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.7	U	ND	1.7	U	ND	1.8	U	ND	1.9	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.7	U	ND	1.7	U	ND	1.8	U	ND	1.9	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Fluoranthene	NE	NE	2,290	24,400	ND	0.35	U	ND	0.36	U	ND	0.36	U	0.069	0.39	J
Fluorene	NE	NE	2,290	24,400	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Hexachloroethane	NE	NE	42.8	479	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Isophorone	NE	NE	5,120	137,000	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2-Methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
4-Methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Naphthalene	NE	NE	43.0	241	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.7	U	ND	1.7	U	ND	1.8	U	ND	1.9	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.7	U	ND	1.7	U	ND	1.8	U	ND	1.9	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.7	U	ND	1.7	U	ND	1.8	U	ND	1.9	U
Nitrobenzene	NE	NE	53.5	300	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.7	U	ND	1.7	U	ND	1.8	U	ND	1.9	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.7	U	ND	1.7	U	ND	1.8	U	ND	1.9	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Phenol	NE	NE	18,300	205,000	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Pyrene	NE	NE	1,720	18,300	ND	0.35	U	ND	0.36	U	ND	0.36	U	0.071	0.39	J
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.70	U	ND	1.70	U	ND	1.80	U	ND	1.90	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.035	U	ND	0.036	U	ND	0.036	U	ND	0.39	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.035	U	ND	0.036	U	ND	0.036	U	ND	0.39	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.035	U	ND	0.036	U	ND	0.036	U	ND	0.39	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.035	U	ND	0.036	U	ND	0.036	U	ND	0.39	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.035	U	ND	0.036	U	ND	0.036	U	0.75	0.39	
Aroclor 1254	NE	NE	1.12	8.26	ND	0.035	U	ND	0.036	U	ND	0.036	U	ND	0.39	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.035	U	ND	0.036	U	ND	0.036	U	ND	0.39	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
Aldrin	NE	NE	0.284	1.12	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10314			10314			10314			10315		
FIELD ID					CAN103-1314-1363			CAN103-1314-0015			CAN103-1314-0020			CAN103-1315-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
delta-BHC	NE	NE	NE	NE	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
Endosulfan I	NE	NE	367	4,100	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
Endosulfan II	NE	NE	NE	NE	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
Endrin	NE	NE	18.3	205	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
Endrin ketone	NE	NE	NE	NE	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.018	U	ND	0.018	U	ND	0.019	U	ND	0.2	U
Toxaphene	NE	NE	4.42	17.4	ND	0.18	U	ND	0.18	U	ND	0.19	U	ND	2	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.042	U	ND	0.043	U	ND	0.044	U	ND	0.048	U
2,4-DB	NE	NE	NE	NE	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.12	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.12	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
Dichlorprop	NE	NE	NE	NE	ND	0.021	U	ND	0.022	U	ND	0.022	U	ND	0.024	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.021	U	ND	0.022	U	ND	0.022	U	ND	0.024	U
MCPA	NE	NE	31.0[g]	310[g]	ND	5.3	U	ND	5.4	U	ND	5.5	U	ND	6	U
MCPP	NE	NE	61.0[g]	620[g]	ND	5.3	U	ND	5.4	U	ND	5.5	U	ND	6	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10314			10314			10314			10315		
FIELD ID					CAN103-1314-1363			CAN103-1314-0015			CAN103-1314-0020			CAN103-1315-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	ND	42.3	U	ND	43.3	U	ND	43.9	U	734	47.7	J
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10315			10315			10315		
FIELD ID					CAN103-1315-0005			CAN103-1315-0010			CAN103-1315-0015			CAN103-1315-1362		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			13 - 15		
DATE COLLECTED					December 11, 1994			December 11, 1994			December 11, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	5,280	10.7		2,800	55.5		3,250	56		2,600	22.3	
Antimony	16.0	3.15	31.3	454	ND	6.4	UJ	ND	33.3	UJ	ND	33.6	U	ND	13.4	UJ
Arsenic	4.30	3.60	3.90	17.7	1.4	0.53		1.6	0.55		1.6	0.56		1.3	0.56	
Barium	890	670	15,600	223,000	143	1.1		176	5.5		147	5.6		111	2.2	
Beryllium	0.73	0.78	156	2,260	0.37	0.21		ND	1.1	U	ND	1.1	U	ND	0.45	U
Cadmium	1.30	0.35	70.3	897	ND	0.53	U	ND	2.8	U	ND	2.8	U	ND	1.1	U
Calcium	237,498	44,800	NE	NE	78,600	21.4	J	305,000	111	J	249,000	112	J	203,000	44.6	J
Chromium	13.3	10.5	117,000	1.70E+06	9.4	1.1		ND	5.5	U	ND	5.6	U	1.7	2.2	J
Cobalt	4.70	6.60	23[g]	300[g]	2.4	1.1		ND	5.5	U	ND	5.6	U	2.2	2.2	
Copper	8.30	18.3	3,130	45,400	6.4	2.1		2.5	11.1	J	4.1	11.2	J	3.3	4.5	J
Iron	13,148	10,100	54,800	795,000	5,890	10.7		3,180	55.5		3,740	56		3,060	22.3	
Lead	8.70	12.0	400	800	5.3	1.1	J	1.7	1.1	J	1.5	0.56	J	1.6	0.56	J
Magnesium	19,300	1,930	NE	NE	1,900	21.4		5,800	111		6,650	112		5,600	44.6	
Manganese	333	307	1,860	26,700	139	1.1		110	5.5		107	5.6		99.3	2.2	
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Nickel	14.9	11.0	1,560	22,500	6.3	4.3		ND	22.2	U	ND	22.4	U	4.6	8.9	J
Potassium	2,512	2,691	NE	NE	1,230	534		385	2,770	J	431	2,800	J	595	1,120	J
Selenium	1.10	0.26	391	5,680	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ
Silver	2.65	0.40	391	5,680	ND	1.1	U	ND	5.5	U	ND	5.6	U	ND	2.2	U
Sodium	1,227	102	NE	NE	213	534	J	ND	2,770	U	ND	2,800	U	ND	1,120	U
Thallium	2.65	0.60	0.782	11.4	ND	1.1	UJ	ND	2.2	U	ND	1.1	UJ	ND	1.1	UJ
Vanadium	32.8	23.3	391	5,680	13.4	1.1		16.9	5.5		18.2	5.6		15.9	2.2	
Zinc	30.6	32.2	23,500	341,000	14.2	2.1		4.9	11.1	J	3.3	11.2	J	3.6	4.5	J
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	ND	0.011	U	ND	0.011	U	ND		U	ND	0.011	U
Benzene	NE	NE	15.4	84.7	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Chloroethane	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Chloroform	NE	NE	5.86	32.7	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Chloromethane	NE	NE	275	1,290	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10315			10315			10315		
FIELD ID					CAN103-1315-0005			CAN103-1315-0010			CAN103-1315-0015			CAN103-1315-1362		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			13 - 15		
DATE COLLECTED					December 11, 1994			December 11, 1994			December 11, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Methylene chloride	NE	NE	409	4,700	ND	0.0053	U	ND	0.0055	U	ND	NA	U	ND	0.0056	U
Styrene	NE	NE	7,280	50,000	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Toluene	NE	NE	5,270	57,700	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Acenaphthylene	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Antracene	NE	NE	17,200	183,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Carbazole	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Chrysene	NE	NE	148	2,340	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Dibenzofuran	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.71	U	ND	0.73	U	ND	0.74	U	ND	0.74	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10315			10315			10315		
FIELD ID					CAN103-1315-0005			CAN103-1315-0010			CAN103-1315-0015			CAN103-1315-1362		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			13 - 15		
DATE COLLECTED					December 11, 1994			December 11, 1994			December 11, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Fluoranthene	NE	NE	2,290	24,400	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Fluorene	NE	NE	2,290	24,400	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Hexachloroethane	NE	NE	42.8	479	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Isophorone	NE	NE	5,120	137,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Naphthalene	NE	NE	43.0	241	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Nitrobenzene	NE	NE	53.5	300	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Phenol	NE	NE	18,300	205,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Pyrene	NE	NE	1,720	18,300	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.70	U	ND	1.80	U	ND	1.80	U	ND	1.80	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.035	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.035	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.035	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.035	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1248	NE	NE	2.22	8.26	0.48	0.035		ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.035	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.035	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Aldrin	NE	NE	0.284	1.12	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10315			10315			10315		
FIELD ID					CAN103-1315-0005			CAN103-1315-0010			CAN103-1315-0015			CAN103-1315-1362		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			13 - 15		
DATE COLLECTED					December 11, 1994			December 11, 1994			December 11, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
delta-BHC	NE	NE	NE	NE	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endosulfan I	NE	NE	367	4,100	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Endosulfan II	NE	NE	NE	NE	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endrin	NE	NE	18.3	205	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endrin ketone	NE	NE	NE	NE	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.018	U	ND	0.019	U	ND	0.019	U	ND	0.019	U
Toxaphene	NE	NE	4.42	17.4	ND	0.18	U	ND	0.19	U	ND	0.19	U	ND	0.19	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.043	U	ND	0.044	U	ND	0.045	U	ND	0.045	U
2,4-DB	NE	NE	NE	NE	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dichlorprop	NE	NE	NE	NE	ND	0.021	U	ND	0.022	U	ND	0.022	U	ND	0.022	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.021	U	ND	0.022	U	ND	0.022	U	ND	0.022	U
MCPA	NE	NE	31.0[g]	310[g]	ND	5.3	U	ND	5.5	U	ND	5.6	U	ND	5.6	U
MCPP	NE	NE	61.0[g]	620[g]	ND	5.3	U	ND	5.5	U	ND	5.6	U	ND	5.6	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10315			10315			10315		
FIELD ID					CAN103-1315-0005			CAN103-1315-0010			CAN103-1315-0015			CAN103-1315-1362		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			13 - 15		
DATE COLLECTED					December 11, 1994			December 11, 1994			December 11, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	ND	NA	R	ND	NA	R	ND	44.8	U	ND	NA	R
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10316			10316			10316		
FIELD ID					CAN103-1315-0020			CAN103-1316-0000			CAN103-1316-0005			CAN103-1316-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 11, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	2,410	11.2		3,370	22.1	J	6,370	10.4	J	3,860	10.7	J
Antimony	16.0	3.15	31.3	454	ND	6.7	UJ	ND	13.3	UJ	ND	6.2	UJ	ND	6.4	UJ
Arsenic	4.30	3.60	3.90	17.7	0.65	0.56		1.5	0.55		0.76	0.52		1.1	0.54	
Barium	890	670	15,600	223,000	82.2	1.1		182	2.2	J	58.7	1	J	47	1.1	J
Beryllium	0.73	0.78	156	2,260	ND	0.22	U	0.32	0.44	J	0.4	0.21		0.36	0.21	
Cadmium	1.30	0.35	70.3	897	ND	0.56	U	ND	1.1	U	ND	0.52	U	ND	0.54	U
Calcium	237,498	44,800	NE	NE	96,500	22.3	J	176,000	44.2	J	1,520	20.8	J	28,900	21.5	
Chromium	13.3	10.5	117,000	1.70E+06	2.3	1.1		1.4	2.2	J	9.1	1	J	3.9	1.1	J
Cobalt	4.70	6.60	23[g]	300[g]	0.87	1.1	J	1.5	2.2	J	2.3	1		3.4	1.1	
Copper	8.30	18.3	3,130	45,400	1.8	2.2	J	3.7	4.4	J	7.1	2.1		3.9	2.1	
Iron	13,148	10,100	54,800	795,000	2,370	11.2		3,110	22.1	J	7,110	10.4	J	4,750	10.7	
Lead	8.70	12.0	400	800	1.6	0.56	J	3.6	1.1	J	7.2	0.52	J	5.9	0.54	
Magnesium	19,300	1,930	NE	NE	2,240	22.3		2,860	44.2		1,160	20.8		1,940	21.5	
Manganese	333	307	1,860	26,700	54.8	1.1		83.8	2.2		31.2	1		77.1	1.1	J
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.11	U	ND	0.11	U	0.14	0.1		ND	0.11	U
Nickel	14.9	11.0	1,560	22,500	ND	4.5	U	5.5	8.8	J	4.9	4.2		6.1	4.3	J
Potassium	2,512	2,691	NE	NE	684	559		1,430	1,100		1,410	521		1,060	537	
Selenium	1.10	0.26	391	5,680	ND	1.1	UJ	ND	1.1	UJ	ND	0.52	UJ	ND	1.1	U
Silver	2.65	0.40	391	5,680	ND	1.1	U	ND	2.2	U	1.9	1		ND	1.1	UJ
Sodium	1,227	102	NE	NE	ND	559	U	ND	1,100	U	ND	521	U	ND	537	U
Thallium	2.65	0.60	0.782	11.4	ND	1.1	UJ	ND	1.1	UJ	ND	0.52	UJ	ND	1.1	U
Vanadium	32.8	23.3	391	5,680	5.5	1.1		10	2.2	J	15.5	1	J	16.6	1.1	
Zinc	30.6	32.2	23,500	341,000	4.4	2.2		9	4.4	J	31.3	2.1	J	8.3	2.1	J
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	ND		U	ND	0.011	U	ND	0.01	U	ND	0.011	U
Benzene	NE	NE	15.4	84.7	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	ND	0.011	U	ND	0.01	U	ND	0.011	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.011	U	ND	0.011	U	ND	0.01	U	ND	0.011	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Chloroethane	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.01	U	ND	0.011	U
Chloroform	NE	NE	5.86	32.7	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Chloromethane	NE	NE	275	1,290	ND	0.011	U	ND	0.011	U	ND	0.01	U	ND	0.011	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.011	U	ND	0.011	U	ND	0.01	U	ND	0.011	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10316			10316			10316		
FIELD ID					CAN103-1315-0020			CAN103-1316-0000			CAN103-1316-0005			CAN103-1316-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 11, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.011	U	ND	0.011	U	ND	0.01	U	ND	0.011	U
Methylene chloride	NE	NE	409	4,700	ND	NA	U	0.002	0.0055	J	0.002	0.0052	J	ND	0.0054	U
Styrene	NE	NE	7,280	50,000	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Toluene	NE	NE	5,270	57,700	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.011	U	ND	0.011	U	ND	0.01	U	ND	0.011	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.011	U	ND	0.011	U	ND	0.01	U	ND	0.011	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Acenaphthylene	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Antracene	NE	NE	17,200	183,000	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.8	U	ND	1.8	U	ND	1.7	U	ND	1.7	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	5.8	0.37		ND	0.36	U	ND	0.57	U	ND	0.62	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Carbazole	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Chrysene	NE	NE	148	2,340	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Di-n-octyl phthalate	NE	NE	NE	NE	0.43	0.37		ND	0.36	U	ND	0.34	U	ND	0.35	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Dibenzofuran	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.74	U	ND	0.73	U	ND	0.69	U	ND	0.71	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10316			10316			10316		
FIELD ID					CAN103-1315-0020			CAN103-1316-0000			CAN103-1316-0005			CAN103-1316-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 11, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.8	U	ND	1.8	U	ND	1.7	U	ND	1.7	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.8	U	ND	1.8	U	ND	1.7	U	ND	1.7	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Fluoranthene	NE	NE	2,290	24,400	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Fluorene	NE	NE	2,290	24,400	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Hexachloroethane	NE	NE	42.8	479	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Isophorone	NE	NE	5,120	137,000	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2-Methylphenol	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
4-Methylphenol	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Naphthalene	NE	NE	43.0	241	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.8	U	ND	1.8	U	ND	1.7	U	ND	1.7	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.8	U	ND	1.8	U	ND	1.7	U	ND	1.7	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.8	U	ND	1.8	U	ND	1.7	U	ND	1.7	U
Nitrobenzene	NE	NE	53.5	300	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.8	U	ND	1.8	U	ND	1.7	U	ND	1.7	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.8	U	ND	1.8	U	ND	1.7	U	ND	1.7	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Phenol	NE	NE	18,300	205,000	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Pyrene	NE	NE	1,720	18,300	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.80	U	ND	1.80	U	ND	1.70	U	ND	1.70	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.037	U	NS	--	--	NS	--	--	ND	0.035	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.037	U	NS	--	--	NS	--	--	ND	0.035	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.037	U	NS	--	--	NS	--	--	ND	0.035	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.037	U	NS	--	--	NS	--	--	ND	0.035	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.037	U	NS	--	--	NS	--	--	ND	0.035	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.037	U	NS	--	--	NS	--	--	ND	0.035	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.037	U	NS	--	--	NS	--	--	ND	0.035	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
Aldrin	NE	NE	0.284	1.12	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10316			10316			10316		
FIELD ID					CAN103-1315-0020			CAN103-1316-0000			CAN103-1316-0005			CAN103-1316-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 11, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
delta-BHC	NE	NE	NE	NE	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
Endosulfan I	NE	NE	367	4,100	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
Endosulfan II	NE	NE	NE	NE	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
Endrin	NE	NE	18.3	205	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
Endrin ketone	NE	NE	NE	NE	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.019	U	NS	--	--	NS	--	--	ND	0.018	U
Toxaphene	NE	NE	4.42	17.4	ND	0.19	U	NS	--	--	NS	--	--	ND	0.18	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.045	U	NS	--	--	NS	--	--	ND	0.043	U
2,4-DB	NE	NE	NE	NE	ND	0.11	U	NS	--	--	NS	--	--	ND	0.11	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.11	U	NS	--	--	NS	--	--	ND	0.11	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.011	U	NS	--	--	NS	--	--	ND	0.011	U
Dichlorprop	NE	NE	NE	NE	ND	0.022	U	NS	--	--	NS	--	--	ND	0.021	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.022	U	NS	--	--	NS	--	--	ND	0.021	U
MCPA	NE	NE	31.0[g]	310[g]	ND	5.6	U	NS	--	--	NS	--	--	ND	5.4	U
MCPP	NE	NE	61.0[g]	620[g]	ND	5.6	U	NS	--	--	NS	--	--	ND	5.4	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.011	U	NS	--	--	NS	--	--	ND	0.011	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.011	U	NS	--	--	NS	--	--	ND	0.011	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10316			10316			10316		
FIELD ID					CAN103-1315-0020			CAN103-1316-0000			CAN103-1316-0005			CAN103-1316-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 11, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	ND	NA	R	ND	44.2	U	ND	41.7	U	58.5	43	
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10316			10316			10316			10317		
FIELD ID					CAN103-1316-1364			CAN103-1316-0015			CAN103-1316-0020			CAN103-1317-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	7,300	10.7	J	4,530	22.8	J	3,870	11.2	J	6,220	10.8	
Antimony	16.0	3.15	31.3	454	ND	6.4	UJ	ND	13.7	UJ	ND	6.7	UJ	4.9	6.5	J
Arsenic	4.30	3.60	3.90	17.7	1.2	0.54		1.5	0.57		0.78	0.56		2.2	0.54	
Barium	890	670	15,600	223,000	48.8	1.1	J	313	2.3	J	92.4	1.1	J	105	1.1	
Beryllium	0.73	0.78	156	2,260	0.43	0.21		ND	0.46	U	0.3	0.22		0.43	0.22	
Cadmium	1.30	0.35	70.3	897	ND	0.54	U	ND	1.1	U	ND	0.56	U	ND	0.54	U
Calcium	237,498	44,800	NE	NE	22,800	21.5		144,000	45.7		29,300	22.3		73,600	21.7	
Chromium	13.3	10.5	117,000	1.70E+06	7	1.1	J	2.9	2.3	J	3.5	1.1	J	5.4	1.1	
Cobalt	4.70	6.60	23[g]	300[g]	3.5	1.1		2.2	2.3	J	2.6	1.1		2.6	1.1	
Copper	8.30	18.3	3,130	45,400	3.9	2.1		4.5	4.6	J	2.9	2.2		6.6	2.2	
Iron	13,148	10,100	54,800	795,000	7,690	10.7		4,680	22.8		3,710	11.2		5,670	10.8	
Lead	8.70	12.0	400	800	6.3	0.54		6.2	1.1		4	2.8		6	0.54	
Magnesium	19,300	1,930	NE	NE	2,440	21.5		3,140	45.7		2,110	22.3		1,950	21.7	
Manganese	333	307	1,860	26,700	105	1.1	J	74.9	2.3	J	41.2	1.1	J	127	1.1	J
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Nickel	14.9	11.0	1,560	22,500	8.1	4.3	J	3.3	9.1	J	4.7	4.5	J	6.9	4.3	
Potassium	2,512	2,691	NE	NE	1,600	536		1,380	1,140		1,250	558		2,140	542	
Selenium	1.10	0.26	391	5,680	ND	1.1	UJ	ND	2.3	UJ	ND	1.1	UJ	ND	1.1	UJ
Silver	2.65	0.40	391	5,680	ND	1.1	UJ	ND	2.3	UJ	ND	1.1	UJ	ND	1.1	U
Sodium	1,227	102	NE	NE	ND	536	U	ND	1,140	U	ND	558	U	ND	542	U
Thallium	2.65	0.60	0.782	11.4	ND	0.54	UJ	ND	1.1	UJ	ND	0.56	UJ	ND	1.1	UJ
Vanadium	32.8	23.3	391	5,680	18.8	1.1		13.8	2.3		9.5	1.1		15.6	1.1	
Zinc	30.6	32.2	23,500	341,000	13.6	2.1	J	8.2	4.6	J	8.3	2.2	J	15.7	2.2	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	0.0049	0.011	J	ND	0.011	U	0.008	0.011	J	ND	0.011	U
Benzene	NE	NE	15.4	84.7	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Chloroethane	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Chloroform	NE	NE	5.86	32.7	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Chloromethane	NE	NE	275	1,290	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10316			10316			10316			10317		
FIELD ID					CAN103-1316-1364			CAN103-1316-0015			CAN103-1316-0020			CAN103-1317-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Methylene chloride	NE	NE	409	4,700	0.0049	0.0054	J	ND	0.0057	U	ND	0.0056	U	ND	0.0054	UJ
Styrene	NE	NE	7,280	50,000	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Toluene	NE	NE	5,270	57,700	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Acenaphthylene	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Antracene	NE	NE	17,200	183,000	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.7	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.72	U	ND	0.97	U	ND	0.49	U	ND	0.36	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Carbazole	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
4-Chloroaniline	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2-Chlorophenol	NE	NE	391	5,680	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Chrysene	NE	NE	148	2,340	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Dibenzofuran	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.71	U	ND	0.75	U	ND	0.74	U	ND	0.72	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10316			10316			10316			10317		
FIELD ID					CAN103-1316-1364			CAN103-1316-0015			CAN103-1316-0020			CAN103-1317-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.7	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.7	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Fluoranthene	NE	NE	2,290	24,400	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Fluorene	NE	NE	2,290	24,400	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Hexachloroethane	NE	NE	42.8	479	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Isophorone	NE	NE	5,120	137,000	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2-Methylphenol	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
4-Methylphenol	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Naphthalene	NE	NE	43.0	241	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.7	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.7	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.7	U
Nitrobenzene	NE	NE	53.5	300	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2-Nitrophenol	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.7	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.7	U
Phenanthrene	NE	NE	1,830	20,500	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Phenol	NE	NE	18,300	205,000	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Pyrene	NE	NE	1,720	18,300	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.70	U	ND	1.80	U	ND	1.80	U	ND	1.70	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	3.50	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.035	U	ND	0.038	U	ND	0.037	U	ND	0.036	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.035	U	ND	0.038	U	ND	0.037	U	ND	0.036	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.035	U	ND	0.038	U	ND	0.037	U	ND	0.036	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.035	U	ND	0.038	U	ND	0.037	U	ND	0.036	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.035	U	ND	0.038	U	ND	0.037	U	ND	0.036	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.035	U	ND	0.038	U	ND	0.037	U	ND	0.036	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.035	U	ND	0.038	U	ND	0.037	U	ND	0.036	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
Aldrin	NE	NE	0.284	1.12	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10316			10316			10316			10317		
FIELD ID					CAN103-1316-1364			CAN103-1316-0015			CAN103-1316-0020			CAN103-1317-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
delta-BHC	NE	NE	NE	NE	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
Endosulfan I	NE	NE	367	4,100	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
Endosulfan II	NE	NE	NE	NE	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
Endrin	NE	NE	18.3	205	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
Endrin ketone	NE	NE	NE	NE	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.018	U	ND	0.019	U	ND	0.019	U	ND	0.018	U
Toxaphene	NE	NE	4.42	17.4	ND	0.18	U	ND	0.19	U	ND	0.19	U	ND	0.18	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.043	U	ND	0.046	U	ND	0.045	U	ND	0.043	U
2,4-DB	NE	NE	NE	NE	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dichlorprop	NE	NE	NE	NE	ND	0.021	U	ND	0.023	U	ND	0.022	U	ND	0.022	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.021	U	ND	0.023	U	ND	0.022	U	ND	0.022	U
MCPA	NE	NE	31.0[g]	310[g]	ND	5.4	U	ND	5.7	U	ND	5.6	U	ND	5.4	U
MCPP	NE	NE	61.0[g]	620[g]	ND	5.4	U	ND	5.7	U	ND	5.6	U	ND	5.4	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10316			10316			10316			10317		
FIELD ID					CAN103-1316-1364			CAN103-1316-0015			CAN103-1316-0020			CAN103-1317-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	50.8	42.9		ND	45.7	U	ND	44.6	U	ND	43.4	U
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10317			10317			10317			10317		
FIELD ID					CAN103-1317-0005			CAN103-1317-0010			CAN103-1317-0015			CAN103-1317-0020		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			18 - 20		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	5,390	10.6		4,090	22.4		4,440	22.4		6,170	11.1	
Antimony	16.0	3.15	31.3	454	ND	6.4	UJ	ND	13.5	UJ	ND	13.5	UJ	ND	6.6	UJ
Arsenic	4.30	3.60	3.90	17.7	1.7	0.53		1.8	0.56		1	0.56		1.2	0.55	
Barium	890	670	15,600	223,000	144	1.1		333	2.2		67.5	2.2		223	1.1	
Beryllium	0.73	0.78	156	2,260	0.36	0.21		ND	0.45	U	ND	0.45	U	0.4	0.22	
Cadmium	1.30	0.35	70.3	897	ND	0.53	U	ND	1.1	U	ND	1.1	U	ND	0.55	U
Calcium	237,498	44,800	NE	NE	77,700	21.3		197,000	44.9		140,000	44.9		11,800	22.1	
Chromium	13.3	10.5	117,000	1.70E+06	6.3	1.1		3.9	2.2		2.2	2.2		5.5	1.1	
Cobalt	4.70	6.60	23[g]	300[g]	2.9	1.1		3.2	2.2		1.7	2.2	J	2.3	1.1	
Copper	8.30	18.3	3,130	45,400	8.6	2.1		2.6	4.5	J	1.4	4.5	J	3	2.2	
Iron	13,148	10,100	54,800	795,000	5,310	10.6		2,460	22.4		2,920	22.4		5,140	11.1	
Lead	8.70	12.0	400	800	6.2	1.1		1.7	1.1		2.4	1.1		4.3	0.55	
Magnesium	19,300	1,930	NE	NE	1,980	21.3		9,160	44.9		7,140	44.9		5,120	22.1	
Manganese	333	307	1,860	26,700	77.3	1.1	J	24.9	2.2	J	30.1	2.2	J	34.6	1.1	J
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	0.14	0.11		ND	0.11	U	ND	0.11	U	ND	0.11	U
Nickel	14.9	11.0	1,560	22,500	6.7	4.3		9.2	9		5.2	9	J	5.5	4.4	
Potassium	2,512	2,691	NE	NE	1,280	532		723	1,120	J	696	1,120	J	2,100	553	
Selenium	1.10	0.26	391	5,680	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ
Silver	2.65	0.40	391	5,680	4.6	1.1		ND	2.2	U	ND	2.2	U	ND	1.1	U
Sodium	1,227	102	NE	NE	354	532	J	ND	1,120	U	ND	1,120	U	310	553	J
Thallium	2.65	0.60	0.782	11.4	ND	1.1	UJ	ND	2.2	U	ND	1.1	UJ	ND	0.55	U
Vanadium	32.8	23.3	391	5,680	16.4	1.1		18.4	2.2		18.7	2.2		14.3	1.1	
Zinc	30.6	32.2	23,500	341,000	43.3	2.1		6.2	4.5		6.3	4.5		9.3	2.2	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	ND	0.011	UJ	ND	0.011	UJ	0.0057	0.011	J	ND	0.011	U
Benzene	NE	NE	15.4	84.7	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Chloroethane	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Chloroform	NE	NE	5.86	32.7	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Chloromethane	NE	NE	275	1,290	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10317			10317			10317			10317		
FIELD ID					CAN103-1317-0005			CAN103-1317-0010			CAN103-1317-0015			CAN103-1317-0020		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			18 - 20		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Methylene chloride	NE	NE	409	4,700	ND	0.0053	UJ	ND	0.0056	UJ	0.0024	0.0056	J	ND	0.0055	UJ
Styrene	NE	NE	7,280	50,000	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Toluene	NE	NE	5,270	57,700	0.002	0.0053	J	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Acenaphthylene	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Antracene	NE	NE	17,200	183,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Carbazole	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Chrysene	NE	NE	148	2,340	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Dibenzofuran	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.7	U	ND	0.74	U	ND	0.74	U	ND	0.73	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10317			10317			10317			10317		
FIELD ID					CAN103-1317-0005			CAN103-1317-0010			CAN103-1317-0015			CAN103-1317-0020		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			18 - 20		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Fluoranthene	NE	NE	2,290	24,400	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Fluorene	NE	NE	2,290	24,400	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Hexachloroethane	NE	NE	42.8	479	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Isophorone	NE	NE	5,120	137,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Naphthalene	NE	NE	43.0	241	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Nitrobenzene	NE	NE	53.5	300	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Phenol	NE	NE	18,300	205,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Pyrene	NE	NE	1,720	18,300	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.70	U	ND	1.80	U	ND	1.80	U	ND	1.80	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.35	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.35	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.35	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.35	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.35	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.35	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.35	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
4,4'-DDE	NE	NE	14.3	56.3	0.20	0.035		ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
4,4'-DDT	NE	NE	17.2	78.1	0.24	0.035		ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Aldrin	NE	NE	0.284	1.12	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10317			10317			10317			10317		
FIELD ID					CAN103-1317-0005			CAN103-1317-0010			CAN103-1317-0015			CAN103-1317-0020		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			18 - 20		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
beta-BHC	NE	NE	2.70	10.6	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
delta-BHC	NE	NE	NE	NE	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Dieldrin	NE	NE	0.304	1.20	ND	0.035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endosulfan I	NE	NE	367	4,100	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Endosulfan II	NE	NE	NE	NE	ND	0.035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endrin	NE	NE	18.3	205	ND	0.035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endrin ketone	NE	NE	NE	NE	ND	0.035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Heptachlor	NE	NE	1.08	4.26	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.18	U	ND	0.019	U	ND	0.019	U	ND	0.019	U
Toxaphene	NE	NE	4.42	17.4	ND	1.8	U	ND	0.19	U	ND	0.19	U	ND	0.19	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.043	U	ND	0.045	U	ND	0.045	U	ND	0.044	U
2,4-DB	NE	NE	NE	NE	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dichlorprop	NE	NE	NE	NE	ND	0.021	U	ND	0.022	U	ND	0.022	U	ND	0.022	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.021	U	ND	0.022	U	ND	0.022	U	ND	0.022	U
MCPA	NE	NE	31.0[g]	310[g]	ND	5.3	U	ND	5.6	U	ND	5.6	U	ND	5.5	U
MCPP	NE	NE	61.0[g]	620[g]	ND	5.3	U	ND	5.6	U	ND	5.6	U	ND	5.5	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10317			10317			10317			10317		
FIELD ID					CAN103-1317-0005			CAN103-1317-0010			CAN103-1317-0015			CAN103-1317-0020		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			18 - 20		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	64.4	42.5		ND	44.9	U	ND	44.9	U	ND	44.2	U
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			10318			10318			10318		
FIELD ID					CAN103-1318-0000			CAN103-1318-0005			CAN103-1318-0010			CAN103-1318-0015		
SAMPLE DEPTH (FT BGS)					0 - 0.5			3 - 5			8 - 10			13 - 15		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	7,140	11		5,330	22.6		6,250	11.2		3,690	23	
Antimony	16.0	3.15	31.3	454	ND	6.6	UJ	ND	13.6	U	ND	6.7	UJ	ND	13.8	UJ
Arsenic	4.30	3.60	3.90	17.7	1.9	0.55		0.95	0.57		1.5	0.56		1.1	0.57	
Barium	890	670	15,600	223,000	124	1.1		133	2.3		89.6	1.1		88.8	2.3	
Beryllium	0.73	0.78	156	2,260	0.48	0.22		ND	0.45	U	0.44	0.22		ND	0.46	U
Cadmium	1.30	0.35	70.3	897	ND	0.55	U	ND	1.1	U	ND	0.56	U	ND	1.1	U
Calcium	237,498	44,800	NE	NE	22,300	22.1		147,000	45.2		50,000	22.4		172,000	45.9	
Chromium	13.3	10.5	117,000	1.70E+06	6.8	1.1		3.8	2.3		5.7	1.1		1.6	2.3	J
Cobalt	4.70	6.60	23[g]	300[g]	2.9	1.1		2.4	2.3		3.7	1.1		3	2.3	
Copper	8.30	18.3	3,130	45,400	7.2	2.2		5.1	4.5		6.6	2.2		2.2	4.6	J
Iron	13,148	10,100	54,800	795,000	6,900	11		4,450	22.6		5,730	11.2		2,690	23	
Lead	8.70	12.0	400	800	9.8	1.1		3.8	0.57		5.3	0.56		2.1	0.57	
Magnesium	19,300	1,930	NE	NE	1,700	22.1		2,840	45.2		2,650	22.4		5,230	45.9	
Manganese	333	307	1,860	26,700	142	1.1	J	70.5	2.3		336	1.1	J	25.8	2.3	J
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Nickel	14.9	11.0	1,560	22,500	6.5	4.4		4.3	9	J	7.7	4.5		8	9.2	J
Potassium	2,512	2,691	NE	NE	1,750	552		1,060	1130	J	1,360	560		656	1,150	J
Selenium	1.10	0.26	391	5,680	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ
Silver	2.65	0.40	391	5,680	ND	1.1	U	ND	2.3	U	ND	1.1	U	ND	2.3	U
Sodium	1,227	102	NE	NE	ND	552	U	ND	1130	U	ND	560	U	ND	1,150	U
Thallium	2.65	0.60	0.782	11.4	ND	0.55	U	0.12	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ
Vanadium	32.8	23.3	391	5,680	15.6	1.1		10.2	2.3		10.8	1.1		9.8	2.3	
Zinc	30.6	32.2	23,500	341,000	20.6	2.2		11.9	4.5		14.5	2.2		5.8	4.6	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	ND	0.011	UJ	ND	0.011	U	0.0038	0.011	J	0.022	0.011	
Benzene	NE	NE	15.4	84.7	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Chloroethane	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Chloroform	NE	NE	5.86	32.7	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Chloromethane	NE	NE	275	1,290	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			10318			10318			10318		
FIELD ID					CAN103-1318-0000			CAN103-1318-0005			CAN103-1318-0010			CAN103-1318-0015		
SAMPLE DEPTH (FT BGS)					0 - 0.5			3 - 5			8 - 10			13 - 15		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Methylene chloride	NE	NE	409	4,700	ND	0.0055	UJ	ND	0.0057	U	0.0055	0.0056	J	ND	0.0057	UJ
Styrene	NE	NE	7,280	50,000	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Toluene	NE	NE	5,270	57,700	0.0011	0.0055	J	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Acenaphthylene	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Antracene	NE	NE	17,200	183,000	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.8	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Carbazole	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Chrysene	NE	NE	148	2,340	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Dibenzofuran	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.73	U	ND	0.75	U	ND	0.74	U	ND	0.76	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			10318			10318			10318		
FIELD ID					CAN103-1318-0000			CAN103-1318-0005			CAN103-1318-0010			CAN103-1318-0015		
SAMPLE DEPTH (FT BGS)					0 - 0.5			3 - 5			8 - 10			13 - 15		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.8	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.8	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Fluoranthene	NE	NE	2,290	24,400	0.044	0.36	J	ND	0.37	U	ND	0.37	U	ND	0.38	U
Fluorene	NE	NE	2,290	24,400	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Hexachloroethane	NE	NE	42.8	479	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Isophorone	NE	NE	5,120	137,000	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2-Methylphenol	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
4-Methylphenol	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Naphthalene	NE	NE	43.0	241	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.8	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.8	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.8	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Nitrobenzene	NE	NE	53.5	300	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.8	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.8	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Phenol	NE	NE	18,300	205,000	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Pyrene	NE	NE	1,720	18,300	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.80	U	ND	1.80	U	ND	1.80	U	ND	1.80	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.036	U	ND	0.037	U	ND	0.037	U	ND	0.038	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.036	U	ND	0.037	U	ND	0.037	U	ND	0.038	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.036	U	ND	0.037	U	ND	0.037	U	ND	0.038	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.036	U	ND	0.037	U	ND	0.037	U	ND	0.038	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.036	U	ND	0.037	U	ND	0.037	U	ND	0.038	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.036	U	ND	0.037	U	ND	0.037	U	ND	0.038	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.036	U	ND	0.037	U	ND	0.037	U	ND	0.038	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0036	U	ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
4,4'-DDE	NE	NE	14.3	56.3	0.0024	0.0036	J	ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
4,4'-DDT	NE	NE	17.2	78.1	0.0037	0.0036		ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
Aldrin	NE	NE	0.284	1.12	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			10318			10318			10318		
FIELD ID					CAN103-1318-0000			CAN103-1318-0005			CAN103-1318-0010			CAN103-1318-0015		
SAMPLE DEPTH (FT BGS)					0 - 0.5			3 - 5			8 - 10			13 - 15		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
delta-BHC	NE	NE	NE	NE	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0036	U	ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
Endosulfan I	NE	NE	367	4,100	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Endosulfan II	NE	NE	NE	NE	ND	0.0036	U	ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0036	U	ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
Endrin	NE	NE	18.3	205	ND	0.0036	U	ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0036	U	ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
Endrin ketone	NE	NE	NE	NE	ND	0.0036	U	ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.019	U	ND	0.019	U	ND	0.019	U	ND	0.02	U
Toxaphene	NE	NE	4.42	17.4	ND	0.19	U	ND	0.19	U	ND	0.19	U	ND	0.2	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.044	U	ND	0.045	U	ND	0.045	U	ND	0.046	U
2,4-DB	NE	NE	NE	NE	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dichlorprop	NE	NE	NE	NE	ND	0.022	U	ND	0.023	U	ND	0.022	U	ND	0.023	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.022	U	ND	0.023	U	ND	0.022	U	ND	0.023	U
MCPA	NE	NE	31.0[g]	310[g]	ND	5.5	U	ND	5.7	U	ND	5.6	U	ND	5.7	U
MCPP	NE	NE	61.0[g]	620[g]	ND	5.5	U	ND	5.7	U	ND	5.6	U	ND	5.7	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318 CAN103-1318-0000 0 - 0.5 December 12, 1994			10318 CAN103-1318-0005 3 - 5 December 12, 1994			10318 CAN103-1318-0010 8 - 10 December 12, 1994			10318 CAN103-1318-0015 13 - 15 December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	132	44.2		ND	45.2	U	ND	44.8	U	ND	45.9	U
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			SD01			SD02			SD03		
FIELD ID					CAN103-1318-0020			C103-SD01-0.5			C103-SD02-0.5			C103-SD03-0.5		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					December 12, 1994			October 18, 2010			October 18, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	2,550	22.2		NS	--	--	NS	--	--	NS	--	--
Antimony	16.0	3.15	31.3	454	ND	13.3	UJ	NS	--	--	NS	--	--	NS	--	--
Arsenic	4.30	3.60	3.90	17.7	1.1	0.55		1.6	0.66		1.6	0.71		1.6	1	
Barium	890	670	15,600	223,000	66.5	2.2		NS	--	--	NS	--	--	NS	--	--
Beryllium	0.73	0.78	156	2,260	ND	0.44	U	NS	--	--	NS	--	--	NS	--	--
Cadmium	1.30	0.35	70.3	897	ND	1.1	U	NS	--	--	NS	--	--	NS	--	--
Calcium	237,498	44,800	NE	NE	127,000	44.3		NS	--	--	NS	--	--	NS	--	--
Chromium	13.3	10.5	117,000	1.70E+06	1.8	2.2	J	NS	--	--	NS	--	--	NS	--	--
Cobalt	4.70	6.60	23[g]	300[g]	2	2.2	J	NS	--	--	NS	--	--	NS	--	--
Copper	8.30	18.3	3,130	45,400	1.9	4.4	J	NS	--	--	NS	--	--	NS	--	--
Iron	13,148	10,100	54,800	795,000	2,220	22.2		NS	--	--	NS	--	--	NS	--	--
Lead	8.70	12.0	400	800	1.7	1.1		NS	--	--	NS	--	--	NS	--	--
Magnesium	19,300	1,930	NE	NE	2,310	44.3		NS	--	--	NS	--	--	NS	--	--
Manganese	333	307	1,860	26,700	28.2	2.2	J	NS	--	--	NS	--	--	NS	--	--
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.11	U	NS	--	--	NS	--	--	NS	--	--
Nickel	14.9	11.0	1,560	22,500	5	8.9	J	NS	--	--	NS	--	--	NS	--	--
Potassium	2,512	2,691	NE	NE	678	1,110	J	NS	--	--	NS	--	--	NS	--	--
Selenium	1.10	0.26	391	5,680	ND	1.1	UJ	0.33	0.66	J	ND	0.71	U	3.7	1	
Silver	2.65	0.40	391	5,680	ND	2.2	U	0.76	0.13		1.1	0.14	J	10.2	0.21	
Sodium	1,227	102	NE	NE	ND	1,110	U	NS	--	--	NS	--	--	NS	--	--
Thallium	2.65	0.60	0.782	11.4	ND	1.1	UJ	NS	--	--	NS	--	--	NS	--	--
Vanadium	32.8	23.3	391	5,680	5.2	2.2		6.8	0.66		7.1	0.71	J	29.7	1	
Zinc	30.6	32.2	23,500	341,000	4.8	4.4		NS	--	--	NS	--	--	NS	--	--
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	0.018	0.011		NS	--	--	NS	--	--	NS	--	--
Benzene	NE	NE	15.4	84.7	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Chlorobenzene	NE	NE	376	2,120	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Chloroethane	NE	NE	NE	NE	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Chloromethane	NE	NE	275	1,290	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Ethylbenzene	NE	NE	68.4	378	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			SD01			SD02			SD03		
FIELD ID					CAN103-1318-0020			C103-SD01-0.5			C103-SD02-0.5			C103-SD03-0.5		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					December 12, 1994			October 18, 2010			October 18, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
Methylene chloride	NE	NE	409	4,700	ND	0.0055	UJ	NS	--	--	NS	--	--	NS	--	--
Styrene	NE	NE	7,280	50,000	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	0.0019	0.0055	J	NS	--	--	NS	--	--	NS	--	--
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Trichloroethene	NE	NE	8.77	41.3	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Vinyl acetate	NE	NE	2,560	12,300	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
Vinyl chloride	NE	NE	0.728	26.1	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
Xylenes (total)	NE	NE	814	3,980	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Acenaphthylene	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Antracene	NE	NE	17,200	183,000	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.8	U	NS	--	--	NS	--	--	NS	--	--
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Carbazole	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
4-Chloroaniline	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2-Chlorophenol	NE	NE	391	5,680	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Chrysene	NE	NE	148	2,340	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Dibenzofuran	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.73	U	NS	--	--	NS	--	--	NS	--	--
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			SD01			SD02			SD03		
FIELD ID					CAN103-1318-0020			C103-SD01-0.5			C103-SD02-0.5			C103-SD03-0.5		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					December 12, 1994			October 18, 2010			October 18, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.8	U	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.8	U	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Fluoranthene	NE	NE	2,290	24,400	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Fluorene	NE	NE	2,290	24,400	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Hexachloroethane	NE	NE	42.8	479	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Isophorone	NE	NE	5,120	137,000	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2-Methylphenol	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
4-Methylphenol	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Naphthalene	NE	NE	43.0	241	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.8	U	NS	--	--	NS	--	--	NS	--	--
3-Nitroaniline	NE	NE	NE	NE	ND	1.8	U	NS	--	--	NS	--	--	NS	--	--
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.8	U	NS	--	--	NS	--	--	NS	--	--
Nitrobenzene	NE	NE	53.5	300	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2-Nitrophenol	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
4-Nitrophenol	NE	NE	NE	NE	ND	1.8	U	NS	--	--	NS	--	--	NS	--	--
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.8	U	NS	--	--	NS	--	--	NS	--	--
Phenanthrene	NE	NE	1,830	20,500	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Phenol	NE	NE	18,300	205,000	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Pyrene	NE	NE	1,720	18,300	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.80	U	NS	--	--	NS	--	--	NS	--	--
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.037	U	NS	--	--	NS	--	--	NS	--	--
Aroclor 1221	NE	NE	1.49	6.24	ND	0.037	U	NS	--	--	NS	--	--	NS	--	--
Aroclor 1232	NE	NE	1.49	6.24	ND	0.037	U	NS	--	--	NS	--	--	NS	--	--
Aroclor 1242	NE	NE	2.22	8.26	ND	0.037	U	NS	--	--	NS	--	--	NS	--	--
Aroclor 1248	NE	NE	2.22	8.26	ND	0.037	U	NS	--	--	NS	--	--	NS	--	--
Aroclor 1254	NE	NE	1.12	8.26	ND	0.037	U	NS	--	--	NS	--	--	NS	--	--
Aroclor 1260	NE	NE	2.22	8.26	ND	0.037	U	NS	--	--	NS	--	--	NS	--	--
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
Aldrin	NE	NE	0.284	1.12	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
alpha-BHC	NE	NE	0.772	3.04	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			SD01			SD02			SD03		
FIELD ID					CAN103-1318-0020			C103-SD01-0.5			C103-SD02-0.5			C103-SD03-0.5		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					December 12, 1994			October 18, 2010			October 18, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
beta-BHC	NE	NE	2.70	10.6	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
delta-BHC	NE	NE	NE	NE	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
Dieldrin	NE	NE	0.304	1.20	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
Endosulfan I	NE	NE	367	4,100	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
Endosulfan II	NE	NE	NE	NE	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
Endrin	NE	NE	18.3	205	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
Endrin aldehyde	NE	NE	NE	NE	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
Endrin ketone	NE	NE	NE	NE	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
gamma-Chlordane	NE	NE	NE	NE	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
Heptachlor	NE	NE	1.08	4.26	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.019	U	NS	--	--	NS	--	--	NS	--	--
Toxaphene	NE	NE	4.42	17.4	ND	0.19	U	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.044	U	NS	--	--	NS	--	--	NS	--	--
2,4-DB	NE	NE	NE	NE	ND	0.11	U	NS	--	--	NS	--	--	NS	--	--
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.11	U	NS	--	--	NS	--	--	NS	--	--
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
Dichlorprop	NE	NE	NE	NE	ND	0.022	U	NS	--	--	NS	--	--	NS	--	--
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.022	U	NS	--	--	NS	--	--	NS	--	--
MCPA	NE	NE	31.0[g]	310[g]	ND	5.5	U	NS	--	--	NS	--	--	NS	--	--
MCPP	NE	NE	61.0[g]	620[g]	ND	5.5	U	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	2.3E-08	2.30E-08		1.50E-07	1.50E-07		2.30E-07	2.30E-07	J
PCB 114	NE	NE	1.14	4.24	NS	--	--	ND	3.30E-09	U	1.40E-08	1.40E-08		2.00E-08	2.00E-08	J
PCB 118	NE	NE	1.14	4.24	NS	--	--	ND	0.00000007	U	3.80E-07	3.80E-07	J	5.40E-07	5.40E-07	J
PCB 123	NE	NE	1.14	4.24	NS	--	--	ND	6.20E-10	U	ND	5.90E-10	U	ND	4.50E-10	U
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	ND	7.50E-10	U	3.40E-09	3.40E-09	J	7.50E-09	7.50E-09	J
PCB 156	NE	NE	1.14	4.24	NS	--	--	8.60E-09	8.60E-09	J	5.80E-08	5.80E-08		6.40E-08	6.40E-08	J
PCB 157	NE	NE	1.14	4.24	NS	--	--	2E-09	2E-09	J	1.10E-08	1.10E-08		ND	3.70E-10	U
PCB 167	NE	NE	1.14	4.24	NS	--	--	ND	3.20E-10	U	1.30E-08	1.30E-08		ND	3.20E-10	U
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	ND	5.00E-10	U	ND	1.00E-09	U	ND	4.90E-10	U
PCB 170	NE	NE	0.34	1.27	NS	--	--	3.1E-08	3.1E-08	J	2.30E-07	2.30E-07	J	2.30E-07	2.30E-07	J
PCB 180	NE	NE	3.41	12.7	NS	--	--	0.00000058	5.8E-08	J	4.40E-07	4.40E-07	J	4.90E-07	4.90E-07	J
PCB 189	NE	NE	1.14	4.24	NS	--	--	9.70E-10	1E-09	J	ND	5.50E-09	U	ND	5.20E-09	U
PCB 77	NE	NE	0.34	1.27	NS	--	--	6.70E-09	6.70E-09	J	2.10E-08	2.10E-08		6.80E-08	6.80E-08	J
PCB 81	NE	NE	0.114	0.42	NS	--	--	ND	4.20E-10	U	7.30E-10	7.30E-10	J	3.00E-09	3.00E-09	J

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			SD01			SD02			SD03		
FIELD ID					CAN103-1318-0020			C103-SD01-0.5			C103-SD02-0.5			C103-SD03-0.5		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					December 12, 1994			October 18, 2010			October 18, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	2.80E-06	2.80E-06	J	2.10E-05	2.10E-05	J	8.10E-06	8.10E-06	J
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	ND	0.00000052	U	3.10E-06	3.10E-06	J	ND	1.90E-06	U
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	ND	0.00000017	U	ND	1.00E-06	UJ	ND	0.00000054	U
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	ND	0.00000036	U	ND	0.00000084	UJ	ND	0.00000075	U
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	ND	1.00E-07	U	ND	5.00E-07	UJ	ND	0.00000029	U
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	ND	0.00000028	U	1.00E-06	1.00E-06	J	ND	0.00000068	U
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	ND	0.00000029	U	ND	1.50E-06	UJ	ND	0.00000026	U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	ND	0.00000036	U	ND	6.00E-07	UJ	ND	0.00000073	U
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	ND	0.00000011	U	ND	0.00000057	UJ	ND	0.00000044	U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	ND	0.00000016	U	ND	0.00000051	UJ	ND	0.00000033	U
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	ND	0.00000039	U	ND	5.00E-07	UJ	ND	0.00000044	U
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	ND	1.60E-06	U	ND	7.80E-06	UJ	ND	0.00000031	U
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	ND	2.00E-07	U	ND	0.00000036	UJ	ND	4.00E-07	U
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	7.90E-07	0.00000079	J	7.60E-06	7.60E-06	J	ND	0.00000019	U
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	1.30E-06	1.30E-06	J	3.60E-06	3.60E-06	J	2.50E-06	2.50E-06	J
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	2.00E-05	2.00E-05	J	2.50E-04	2.50E-04	J	5.90E-05	5.90E-05	
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	ND	0.00000012	U	8.00E-06	8.00E-06	J	ND	0.00000039	U
TEQ	NE	NE	NE	NE	NS	--	--	9.50E-07	NA		8.40E-06	NA		3.50E-07	NA	
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	ND	44.3	U	NS	--	--	NS	--	--	NS	--	--
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	ND	1.3	U	19	1.4	J	36	2.1	J
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	ND	13	U	30	14		46	21	J
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	ND	1.3	U	ND	1.4	U	ND	2.1	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD04			SD05			SD06			SD07		
FIELD ID					C103-SD04-0.5			C103-SD05-0.5			C103-SD06-0.5			C103-SD07-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Antimony	16.0	3.15	31.3	454	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Arsenic	4.30	3.60	3.90	17.7	**3.9**	1.3		3.6	1.3		0.21	0.76	J	NS	--	--
Barium	890	670	15,600	223,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Beryllium	0.73	0.78	156	2,260	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Cadmium	1.30	0.35	70.3	897	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Calcium	237,498	44,800	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chromium	13.3	10.5	117,000	1.70E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Cobalt	4.70	6.60	23[g]	300[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Copper	8.30	18.3	3,130	45,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Iron	13,148	10,100	54,800	795,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Lead	8.70	12.0	400	800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Magnesium	19,300	1,930	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Manganese	333	307	1,860	26,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Nickel	14.9	11.0	1,560	22,500	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Potassium	2,512	2,691	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Selenium	1.10	0.26	391	5,680	7	1.3		4.9	1.3		0.7	0.76	J	2.7	1.3	
Silver	2.65	0.40	391	5,680	23.7	0.26	J	16.5	0.186		1.8	0.15		NS	--	--
Sodium	1,227	102	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Thallium	2.65	0.60	0.782	11.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vanadium	32.8	23.3	391	5,680	52.1	1.3		52.2	0.28		9.5	0.76		NS	--	--
Zinc	30.6	32.2	23,500	341,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzene	NE	NE	15.4	84.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromodichloromethane	NE	NE	5.41	30.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromoform	NE	NE	62.0[g]	220[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Butanone (MEK)	NE	NE	37,100	375,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbon disulfide	NE	NE	1,530	8,330	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbon tetrachloride	NE	NE	10.8	59.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chlorobenzene	NE	NE	376	2,120	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloroethane	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloromethane	NE	NE	275	1,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethane	NE	NE	64.5	359	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethane	NE	NE	7.89	43.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethene	NE	NE	449	2,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethene (total)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloropropane	NE	NE	15.2	84.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
cis-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
trans-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Ethylbenzene	NE	NE	68.4	378	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Hexanone	NE	NE	210[g]	1400[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD04			SD05			SD06			SD07		
FIELD ID					C103-SD04-0.5			C103-SD05-0.5			C103-SD06-0.5			C103-SD07-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Methylene chloride	NE	NE	409	4,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Styrene	NE	NE	7,280	50,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Tetrachloroethene	NE	NE	7.02	36.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,1-Trichloroethane	NE	NE	15,600	78,900	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,2-Trichloroethane	NE	NE	2.81	13.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Trichloroethene	NE	NE	8.77	41.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vinyl acetate	NE	NE	2,560	12,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vinyl chloride	NE	NE	0.728	26.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Xylenes (total)	NE	NE	814	3,980	NS	--	--	NS	--	--	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Acenaphthylene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Antracene	NE	NE	17,200	183,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(a)anthracene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(a)pyrene	NE	NE	0.148	2.34	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(b)fluoranthene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(g,h,i)perylene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(k)fluoranthene	NE	NE	14.8	234	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Bromophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbazole	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chloro-3-methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chloroaniline	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Chloronaphthalene	NE	NE	6,260	90,800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Chlorophenol	NE	NE	391	5,680	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chrysene	NE	NE	148	2,340	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Di-n-butyl phthalate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Di-n-octyl phthalate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibenzofuran	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichlorobenzene	NE	NE	2,310	14,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,3-Dichlorobenzene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,4-Dichlorobenzene	NE	NE	31.70	177	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dichlorophenol	NE	NE	183	2,050	NS	--	--	NS	--	--	NS	--	--	NS	--	--
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Diethyl phthalate	NE	NE	48,900	547,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD04			SD05			SD06			SD07		
FIELD ID					C103-SD04-0.5			C103-SD05-0.5			C103-SD06-0.5			C103-SD07-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dimethyl phthalate	NE	NE	611,000	6.84E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrophenol	NE	NE	122	1,370	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrotoluene	NE	NE	15.7	61.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,6-Dinitrotoluene	NE	NE	61.1	684	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Fluoranthene	NE	NE	2,290	24,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Fluorene	NE	NE	2,290	24,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorobenzene	NE	NE	3.04	12.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorobutadiene	NE	NE	61.1	246	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorocyclopentadiene	NE	NE	367	4,100	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachloroethane	NE	NE	42.8	479	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Isophorone	NE	NE	5,120	137,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Methylnaphthalene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Naphthalene	NE	NE	43.0	241	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Nitroaniline	NE	NE	610[g]	6,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
3-Nitroaniline	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Nitrobenzene	NE	NE	53.5	300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Nitrophenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Nitrophenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
N-Nitrosodiphenylamine	NE	NE	993	3,910	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Pentachlorophenol	NE	NE	8.94	30.00	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Phenanthrene	NE	NE	1,830	20,500	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Phenol	NE	NE	18,300	205,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Pyrene	NE	NE	1,720	18,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,4-Trichlorobenzene	NE	NE	73.0	367	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1221	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1232	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1242	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1248	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1254	NE	NE	1.12	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1260	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDD	NE	NE	20.3	79.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDE	NE	NE	14.3	56.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDT	NE	NE	17.2	78.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aldrin	NE	NE	0.284	1.12	NS	--	--	NS	--	--	NS	--	--	NS	--	--
alpha-BHC	NE	NE	0.772	3.04	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD04			SD05			SD06			SD07		
FIELD ID					C103-SD04-0.5			C103-SD05-0.5			C103-SD06-0.5			C103-SD07-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	NS	--	--	NS	--	--	NS	--	--	NS	--	--
beta-BHC	NE	NE	2.70	10.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
delta-BHC	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dieldrin	NE	NE	0.304	1.20	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan I	NE	NE	367	4,100	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan II	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan sulfate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin	NE	NE	18.3	205	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin aldehyde	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin ketone	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
gamma-BHC (Lindane)	NE	NE	5.17	22.9	NS	--	--	NS	--	--	NS	--	--	NS	--	--
gamma-Chlordane	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Heptachlor	NE	NE	1.08	4.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Heptachlor epoxide	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Methoxychlor	NE	NE	310.0[g]	3,100[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Toxaphene	NE	NE	4.42	17.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-DB	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dalapon	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dicamba	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dichlorprop	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dinoseb	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
MCPA	NE	NE	31.0[g]	310[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
MCPP	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,5-TP (Silvex)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	1.30E-06	1.30E-06		2.30E-07	2.30E-07	J	2.30E-07	2.30E-07	J	NS	--	--
PCB 114	NE	NE	1.14	4.24	1.20E-07	1.20E-07		2.10E-08	2.10E-08	J	2.40E-08	2.40E-08	J	NS	--	--
PCB 118	NE	NE	1.14	4.24	3.00E-06	3.00E-06		5.80E-07	5.80E-07	J	5.60E-07	5.60E-07	J	NS	--	--
PCB 123	NE	NE	1.14	4.24	ND	2.60E-09	U	ND	5.90E-10	U	ND	1.10E-09	U	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	3.60E-08	3.60E-08		ND	7.50E-09	U	ND	4.00E-09	U	NS	--	--
PCB 156	NE	NE	1.14	4.24	3.40E-07	3.40E-07		7.30E-08	7.30E-08	J	6.70E-08	6.70E-08	J	NS	--	--
PCB 157	NE	NE	1.14	4.24	7.10E-08	7.10E-08		1.50E-08	1.50E-08	J	ND	6.60E-10	U	NS	--	--
PCB 167	NE	NE	1.14	4.24	9.30E-08	9.30E-08		2.00E-08	2.00E-08	J	ND	5.90E-10	U	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	ND	1.40E-09	U	ND	3.70E-10	U	ND	9.00E-10	U	NS	--	--
PCB 170	NE	NE	0.34	1.27	ND	1.40E-06	U	2.70E-07	2.70E-07	J	2.20E-07	2.20E-07	J	NS	--	--
PCB 180	NE	NE	3.41	12.7	ND	1.00E-07	UJ	5.70E-07	5.70E-07	J	4.70E-07	4.70E-07	J	NS	--	--
PCB 189	NE	NE	1.14	4.24	ND	1.80E-06	UJ	ND	6.80E-09	U	6.50E-09	6.50E-09	J	NS	--	--
PCB 77	NE	NE	0.34	1.27	2.90E-07	2.90E-07		6.60E-08	6.60E-08	J	5.30E-08	5.30E-08	J	NS	--	--
PCB 81	NE	NE	0.114	0.42	3.40E-08	3.40E-08		7.60E-09	7.60E-09	J	ND	1.80E-09	U	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD04			SD05			SD06			SD07		
FIELD ID					C103-SD04-0.5			C103-SD05-0.5			C103-SD06-0.5			C103-SD07-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	3.50E-05	3.50E-05		2.50E-05	2.50E-05		7.00E-06	7.00E-06	J	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	7.40E-06	7.40E-06	J	ND	4.20E-06	U	ND	2.10E-06	U	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	2.80E-06	2.80E-06	J	2.90E-06	2.90E-06	J	ND	9.00E-07	U	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	2.40E-06	2.40E-06	J	ND	2.90E-06	U	ND	3.60E-07	U	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	2.30E-06	2.30E-06	J	2.50E-06	2.50E-06	J	ND	4.20E-07	U	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	ND	2.50E-06	U	ND	3.00E-06	U	ND	2.50E-07	U	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	ND	2.30E-06	U	ND	2.50E-06	U	ND	5.00E-07	U	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	ND	2.40E-06	U	ND	1.90E-06	U	ND	4.90E-07	U	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	ND	1.60E-06	U	ND	2.40E-06	U	ND	5.90E-07	U	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	ND	0.00000065	U	ND	4.10E-07	U	ND	1.90E-07	U	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	ND	0.00000044	U	ND	3.60E-07	U	ND	2.20E-07	U	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	2.20E-06	2.20E-06	J	ND	8.00E-06	U	ND	2.40E-06	U	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	ND	3.00E-07	U	1.70E-06	1.70E-06	J	ND	1.80E-07	U	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	1.80E-06	1.80E-06	J	1.40E-06	1.40E-06	J	5.50E-07	5.50E-07	J	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	ND	1.60E-06	U	ND	2.70E-06	U	ND	5.30E-07		NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	2.60E-04	2.60E-04		1.60E-04	1.60E-04		6.70E-05	6.70E-05		NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	1.10E-05	1.10E-05	J	ND	5.40E-06	U	3.00E-06	3.00E-06	J	NS	--	--
TEQ	NE	NE	NE	NE	3.00E-06	NA		2.50E-06	NA		6.40E-07	NA		NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-DRO	NE	NE	1,000	1,000	63	2.6		ND	2.6	U	ND	1.5	U	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	68	26		ND	26	U	40	15		NS	--	--
TPH-GRO	NE	NE	1,000	1,000	19	2.6	J	ND	2.6	U	ND	1.5	U	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD08 C103-SD08-0.3 0 - 0.3 October 19, 2010			SD09 C103-SD09-0.3 0 - 0.3 October 19, 2010			SD10 C103-SD10-0.5 0 - 0.5 October 19, 2010			SD11 C103-SD11-0.5 0 - 0.5 October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Antimony	16.0	3.15	31.3	454	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Arsenic	4.30	3.60	3.90	17.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Barium	890	670	15,600	223,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Beryllium	0.73	0.78	156	2,260	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Cadmium	1.30	0.35	70.3	897	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Calcium	237,498	44,800	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chromium	13.3	10.5	117,000	1.70E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Cobalt	4.70	6.60	23[g]	300[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Copper	8.30	18.3	3,130	45,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Iron	13,148	10,100	54,800	795,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Lead	8.70	12.0	400	800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Magnesium	19,300	1,930	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Manganese	333	307	1,860	26,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Nickel	14.9	11.0	1,560	22,500	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Potassium	2,512	2,691	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Selenium	1.10	0.26	391	5,680	ND	0.62	U	ND	0.75	U	ND	0.63	U	4	0.99	
Silver	2.65	0.40	391	5,680	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Sodium	1,227	102	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Thallium	2.65	0.60	0.782	11.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vanadium	32.8	23.3	391	5,680	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Zinc	30.6	32.2	23,500	341,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzene	NE	NE	15.4	84.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromodichloromethane	NE	NE	5.41	30.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromoform	NE	NE	62.0[g]	220[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Butanone (MEK)	NE	NE	37,100	375,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbon disulfide	NE	NE	1,530	8,330	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbon tetrachloride	NE	NE	10.8	59.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chlorobenzene	NE	NE	376	2,120	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloroethane	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloromethane	NE	NE	275	1,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethane	NE	NE	64.5	359	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethane	NE	NE	7.89	43.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethene	NE	NE	449	2,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethene (total)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloropropane	NE	NE	15.2	84.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
cis-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
trans-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Ethylbenzene	NE	NE	68.4	378	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Hexanone	NE	NE	210[g]	1400[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD08			SD09			SD10			SD11		
FIELD ID					C103-SD08-0.3			C103-SD09-0.3			C103-SD10-0.5			C103-SD11-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.3			0 - 0.3			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Methylene chloride	NE	NE	409	4,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Styrene	NE	NE	7,280	50,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Tetrachloroethene	NE	NE	7.02	36.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,1-Trichloroethane	NE	NE	15,600	78,900	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,2-Trichloroethane	NE	NE	2.81	13.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Trichloroethene	NE	NE	8.77	41.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vinyl acetate	NE	NE	2,560	12,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vinyl chloride	NE	NE	0.728	26.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Xylenes (total)	NE	NE	814	3,980	NS	--	--	NS	--	--	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Acenaphthylene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Antracene	NE	NE	17,200	183,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(a)anthracene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(a)pyrene	NE	NE	0.148	2.34	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(b)fluoranthene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(g,h,i)perylene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(k)fluoranthene	NE	NE	14.8	234	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Bromophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbazole	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chloro-3-methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chloroaniline	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Chloronaphthalene	NE	NE	6,260	90,800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Chlorophenol	NE	NE	391	5,680	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chrysene	NE	NE	148	2,340	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Di-n-butyl phthalate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Di-n-octyl phthalate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibenzofuran	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichlorobenzene	NE	NE	2,310	14,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,3-Dichlorobenzene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,4-Dichlorobenzene	NE	NE	31.70	177	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dichlorophenol	NE	NE	183	2,050	NS	--	--	NS	--	--	NS	--	--	NS	--	--
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Diethyl phthalate	NE	NE	48,900	547,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD08			SD09			SD10			SD11		
FIELD ID					C103-SD08-0.3			C103-SD09-0.3			C103-SD10-0.5			C103-SD11-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.3			0 - 0.3			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dimethyl phthalate	NE	NE	611,000	6.84E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrophenol	NE	NE	122	1,370	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrotoluene	NE	NE	15.7	61.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,6-Dinitrotoluene	NE	NE	61.1	684	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Fluoranthene	NE	NE	2,290	24,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Fluorene	NE	NE	2,290	24,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorobenzene	NE	NE	3.04	12.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorobutadiene	NE	NE	61.1	246	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorocyclopentadiene	NE	NE	367	4,100	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachloroethane	NE	NE	42.8	479	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Isophorone	NE	NE	5,120	137,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Methylnaphthalene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Naphthalene	NE	NE	43.0	241	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Nitroaniline	NE	NE	610[g]	6,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
3-Nitroaniline	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Nitrobenzene	NE	NE	53.5	300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Nitrophenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Nitrophenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
N-Nitrosodiphenylamine	NE	NE	993	3,910	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Pentachlorophenol	NE	NE	8.94	30.00	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Phenanthrene	NE	NE	1,830	20,500	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Phenol	NE	NE	18,300	205,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Pyrene	NE	NE	1,720	18,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,4-Trichlorobenzene	NE	NE	73.0	367	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1221	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1232	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1242	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1248	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1254	NE	NE	1.12	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1260	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDD	NE	NE	20.3	79.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDE	NE	NE	14.3	56.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDT	NE	NE	17.2	78.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aldrin	NE	NE	0.284	1.12	NS	--	--	NS	--	--	NS	--	--	NS	--	--
alpha-BHC	NE	NE	0.772	3.04	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD08			SD09			SD10			SD11		
FIELD ID					C103-SD08-0.3			C103-SD09-0.3			C103-SD10-0.5			C103-SD11-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.3			0 - 0.3			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	NS	--	--	NS	--	--	NS	--	--	NS	--	--
beta-BHC	NE	NE	2.70	10.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
delta-BHC	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dieldrin	NE	NE	0.304	1.20	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan I	NE	NE	367	4,100	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan II	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan sulfate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin	NE	NE	18.3	205	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin aldehyde	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin ketone	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
gamma-BHC (Lindane)	NE	NE	5.17	22.9	NS	--	--	NS	--	--	NS	--	--	NS	--	--
gamma-Chlordane	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Heptachlor	NE	NE	1.08	4.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Heptachlor epoxide	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Methoxychlor	NE	NE	310.0[g]	3,100[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Toxaphene	NE	NE	4.42	17.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-DB	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dalapon	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dicamba	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dichlorprop	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dinoseb	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
MCPA	NE	NE	31.0[g]	310[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
MCPP	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,5-TP (Silvex)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD08 C103-SD08-0.3 0 - 0.3 October 19, 2010			SD09 C103-SD09-0.3 0 - 0.3 October 19, 2010			SD10 C103-SD10-0.5 0 - 0.5 October 19, 2010			SD11 C103-SD11-0.5 0 - 0.5 October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD12			SD13			SD14			SD15		
FIELD ID					C103-SD12-0.5			C103-SD13-0.5			C103-SD14-0.5			C103-SD15-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Antimony	16.0	3.15	31.3	454	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Arsenic	4.30	3.60	3.90	17.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Barium	890	670	15,600	223,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Beryllium	0.73	0.78	156	2,260	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Cadmium	1.30	0.35	70.3	897	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Calcium	237,498	44,800	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chromium	13.3	10.5	117,000	1.70E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Cobalt	4.70	6.60	23[g]	300[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Copper	8.30	18.3	3,130	45,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Iron	13,148	10,100	54,800	795,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Lead	8.70	12.0	400	800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Magnesium	19,300	1,930	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Manganese	333	307	1,860	26,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Nickel	14.9	11.0	1,560	22,500	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Potassium	2,512	2,691	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Selenium	1.10	0.26	391	5,680	5.4	1.6	J	1.7	1.1		1.2	0.97		5.1	1.3	
Silver	2.65	0.40	391	5,680	NS	--	--	2.9	0.22		1.4	0.19		16.6	0.26	
Sodium	1,227	102	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Thallium	2.65	0.60	0.782	11.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vanadium	32.8	23.3	391	5,680	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Zinc	30.6	32.2	23,500	341,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzene	NE	NE	15.4	84.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromodichloromethane	NE	NE	5.41	30.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromoform	NE	NE	62.0[g]	220[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Butanone (MEK)	NE	NE	37,100	375,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbon disulfide	NE	NE	1,530	8,330	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbon tetrachloride	NE	NE	10.8	59.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chlorobenzene	NE	NE	376	2,120	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloroethane	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloromethane	NE	NE	275	1,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethane	NE	NE	64.5	359	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethane	NE	NE	7.89	43.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethene	NE	NE	449	2,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethene (total)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloropropane	NE	NE	15.2	84.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
cis-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
trans-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Ethylbenzene	NE	NE	68.4	378	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Hexanone	NE	NE	210[g]	1400[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD12			SD13			SD14			SD15		
FIELD ID					C103-SD12-0.5			C103-SD13-0.5			C103-SD14-0.5			C103-SD15-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Methylene chloride	NE	NE	409	4,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Styrene	NE	NE	7,280	50,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Tetrachloroethene	NE	NE	7.02	36.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,1-Trichloroethane	NE	NE	15,600	78,900	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,2-Trichloroethane	NE	NE	2.81	13.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Trichloroethene	NE	NE	8.77	41.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vinyl acetate	NE	NE	2,560	12,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vinyl chloride	NE	NE	0.728	26.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Xylenes (total)	NE	NE	814	3,980	NS	--	--	NS	--	--	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Acenaphthylene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Antracene	NE	NE	17,200	183,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(a)anthracene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(a)pyrene	NE	NE	0.148	2.34	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(b)fluoranthene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(g,h,i)perylene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(k)fluoranthene	NE	NE	14.8	234	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Bromophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbazole	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chloro-3-methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chloroaniline	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Chloronaphthalene	NE	NE	6,260	90,800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Chlorophenol	NE	NE	391	5,680	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chrysene	NE	NE	148	2,340	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Di-n-butyl phthalate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Di-n-octyl phthalate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibenzofuran	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichlorobenzene	NE	NE	2,310	14,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,3-Dichlorobenzene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,4-Dichlorobenzene	NE	NE	31.70	177	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dichlorophenol	NE	NE	183	2,050	NS	--	--	NS	--	--	NS	--	--	NS	--	--
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Diethyl phthalate	NE	NE	48,900	547,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD12			SD13			SD14			SD15		
FIELD ID					C103-SD12-0.5			C103-SD13-0.5			C103-SD14-0.5			C103-SD15-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dimethyl phthalate	NE	NE	611,000	6.84E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrophenol	NE	NE	122	1,370	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrotoluene	NE	NE	15.7	61.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,6-Dinitrotoluene	NE	NE	61.1	684	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Fluoranthene	NE	NE	2,290	24,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Fluorene	NE	NE	2,290	24,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorobenzene	NE	NE	3.04	12.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorobutadiene	NE	NE	61.1	246	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorocyclopentadiene	NE	NE	367	4,100	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachloroethane	NE	NE	42.8	479	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Isophorone	NE	NE	5,120	137,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Methylnaphthalene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Naphthalene	NE	NE	43.0	241	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Nitroaniline	NE	NE	610[g]	6,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
3-Nitroaniline	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Nitrobenzene	NE	NE	53.5	300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Nitrophenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Nitrophenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
N-Nitrosodiphenylamine	NE	NE	993	3,910	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Pentachlorophenol	NE	NE	8.94	30.00	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Phenanthrene	NE	NE	1,830	20,500	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Phenol	NE	NE	18,300	205,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Pyrene	NE	NE	1,720	18,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,4-Trichlorobenzene	NE	NE	73.0	367	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1221	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1232	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1242	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1248	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1254	NE	NE	1.12	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1260	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDD	NE	NE	20.3	79.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDE	NE	NE	14.3	56.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDT	NE	NE	17.2	78.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aldrin	NE	NE	0.284	1.12	NS	--	--	NS	--	--	NS	--	--	NS	--	--
alpha-BHC	NE	NE	0.772	3.04	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD12			SD13			SD14			SD15		
FIELD ID					C103-SD12-0.5			C103-SD13-0.5			C103-SD14-0.5			C103-SD15-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	NS	--	--	NS	--	--	NS	--	--	NS	--	--
beta-BHC	NE	NE	2.70	10.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
delta-BHC	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dieldrin	NE	NE	0.304	1.20	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan I	NE	NE	367	4,100	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan II	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan sulfate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin	NE	NE	18.3	205	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin aldehyde	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin ketone	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
gamma-BHC (Lindane)	NE	NE	5.17	22.9	NS	--	--	NS	--	--	NS	--	--	NS	--	--
gamma-Chlordane	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Heptachlor	NE	NE	1.08	4.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Heptachlor epoxide	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Methoxychlor	NE	NE	310.0[g]	3,100[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Toxaphene	NE	NE	4.42	17.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-DB	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dalapon	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dicamba	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dichlorprop	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dinoseb	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
MCPA	NE	NE	31.0[g]	310[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
MCPP	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,5-TP (Silvex)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD12			SD13			SD14			SD15		
FIELD ID					C103-SD12-0.5			C103-SD13-0.5			C103-SD14-0.5			C103-SD15-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	ND	2.2	U	ND	1.9	U	ND	2.6	U
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	ND	22	U	ND	19	U	ND	26	U
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	ND	2.2	U	ND	1.9	U	ND	2.6	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD16			SD17			SD18		
FIELD ID					C103-SD16-0.5			C103-SD17-0.5			C103-SD18-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)													
Aluminum	12,214	8,950	78,000	1.13E+06	NS	--	--	NS	--	--	NS	--	--
Antimony	16.0	3.15	31.3	454	NS	--	--	NS	--	--	NS	--	--
Arsenic	4.30	3.60	3.90	17.7	NS	--	--	NS	--	--	NS	--	--
Barium	890	670	15,600	223,000	NS	--	--	NS	--	--	NS	--	--
Beryllium	0.73	0.78	156	2,260	NS	--	--	NS	--	--	NS	--	--
Cadmium	1.30	0.35	70.3	897	NS	--	--	NS	--	--	NS	--	--
Calcium	237,498	44,800	NE	NE	NS	--	--	NS	--	--	NS	--	--
Chromium	13.3	10.5	117,000	1.70E+06	NS	--	--	NS	--	--	NS	--	--
Cobalt	4.70	6.60	23[g]	300[g]	NS	--	--	NS	--	--	NS	--	--
Copper	8.30	18.3	3,130	45,400	NS	--	--	NS	--	--	NS	--	--
Iron	13,148	10,100	54,800	795,000	NS	--	--	NS	--	--	NS	--	--
Lead	8.70	12.0	400	800	NS	--	--	NS	--	--	NS	--	--
Magnesium	19,300	1,930	NE	NE	NS	--	--	NS	--	--	NS	--	--
Manganese	333	307	1,860	26,700	NS	--	--	NS	--	--	NS	--	--
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	NS	--	--	NS	--	--	NS	--	--
Nickel	14.9	11.0	1,560	22,500	NS	--	--	NS	--	--	NS	--	--
Potassium	2,512	2,691	NE	NE	NS	--	--	NS	--	--	NS	--	--
Selenium	1.10	0.26	391	5,680	4.8	1.3		2.3	0.82		6.4	1.3	J
Silver	2.65	0.40	391	5,680	12.5	0.25		3.3	0.16		27	0.26	J
Sodium	1,227	102	NE	NE	NS	--	--	NS	--	--	NS	--	--
Thallium	2.65	0.60	0.782	11.4	NS	--	--	NS	--	--	NS	--	--
Vanadium	32.8	23.3	391	5,680	NS	--	--	NS	--	--	NS	--	--
Zinc	30.6	32.2	23,500	341,000	NS	--	--	NS	--	--	NS	--	--
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Acetone	NE	NE	66,600	868,000	NS	--	--	NS	--	--	NS	--	--
Benzene	NE	NE	15.4	84.7	NS	--	--	NS	--	--	NS	--	--
Bromodichloromethane	NE	NE	5.41	30.1	NS	--	--	NS	--	--	NS	--	--
Bromoform	NE	NE	62.0[g]	220[g]	NS	--	--	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	NS	--	--	NS	--	--	NS	--	--
2-Butanone (MEK)	NE	NE	37,100	375,000	NS	--	--	NS	--	--	NS	--	--
Carbon disulfide	NE	NE	1,530	8,330	NS	--	--	NS	--	--	NS	--	--
Carbon tetrachloride	NE	NE	10.8	59.8	NS	--	--	NS	--	--	NS	--	--
Chlorobenzene	NE	NE	376	2,120	NS	--	--	NS	--	--	NS	--	--
Chloroethane	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	NS	--	--	NS	--	--	NS	--	--
Chloromethane	NE	NE	275	1,290	NS	--	--	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethane	NE	NE	64.5	359	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethane	NE	NE	7.89	43.5	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethene	NE	NE	449	2,290	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethene (total)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloropropane	NE	NE	15.2	84.4	NS	--	--	NS	--	--	NS	--	--
cis-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
trans-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Ethylbenzene	NE	NE	68.4	378	NS	--	--	NS	--	--	NS	--	--
2-Hexanone	NE	NE	210[g]	1400[g]	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD16			SD17			SD18		
FIELD ID					C103-SD16-0.5			C103-SD17-0.5			C103-SD18-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	NS	--	--	NS	--	--	NS	--	--
Methylene chloride	NE	NE	409	4,700	NS	--	--	NS	--	--	NS	--	--
Styrene	NE	NE	7,280	50,000	NS	--	--	NS	--	--	NS	--	--
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	NS	--	--	NS	--	--	NS	--	--
Tetrachloroethene	NE	NE	7.02	36.6	NS	--	--	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	NS	--	--	NS	--	--	NS	--	--
1,1,1-Trichloroethane	NE	NE	15,600	78,900	NS	--	--	NS	--	--	NS	--	--
1,1,2-Trichloroethane	NE	NE	2.81	13.3	NS	--	--	NS	--	--	NS	--	--
Trichloroethene	NE	NE	8.77	41.3	NS	--	--	NS	--	--	NS	--	--
Vinyl acetate	NE	NE	2,560	12,300	NS	--	--	NS	--	--	NS	--	--
Vinyl chloride	NE	NE	0.728	26.1	NS	--	--	NS	--	--	NS	--	--
Xylenes (total)	NE	NE	814	3,980	NS	--	--	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
Acenaphthene	NE	NE	3,440	36,700	NS	--	--	NS	--	--	NS	--	--
Acenaphthylene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Antracene	NE	NE	17,200	183,000	NS	--	--	NS	--	--	NS	--	--
Benzo(a)anthracene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--
Benzo(a)pyrene	NE	NE	0.148	2.34	NS	--	--	NS	--	--	NS	--	--
Benzo(b)fluoranthene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--
Benzo(g,h,i)perylene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Benzo(k)fluoranthene	NE	NE	14.8	234	NS	--	--	NS	--	--	NS	--	--
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	NS	--	--	NS	--	--	NS	--	--
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	NS	--	--	NS	--	--	NS	--	--
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS	--	--	NS	--	--	NS	--	--
4-Bromophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	NS	--	--	NS	--	--	NS	--	--
Carbazole	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
4-Chloro-3-methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
4-Chloroaniline	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
2-Chloronaphthalene	NE	NE	6,260	90,800	NS	--	--	NS	--	--	NS	--	--
2-Chlorophenol	NE	NE	391	5,680	NS	--	--	NS	--	--	NS	--	--
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Chrysene	NE	NE	148	2,340	NS	--	--	NS	--	--	NS	--	--
Di-n-butyl phthalate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Di-n-octyl phthalate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	NS	--	--	NS	--	--	NS	--	--
Dibenzofuran	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2-Dichlorobenzene	NE	NE	2,310	14,000	NS	--	--	NS	--	--	NS	--	--
1,3-Dichlorobenzene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,4-Dichlorobenzene	NE	NE	31.70	177	NS	--	--	NS	--	--	NS	--	--
2,4-Dichlorophenol	NE	NE	183	2,050	NS	--	--	NS	--	--	NS	--	--
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	NS	--	--	NS	--	--	NS	--	--
Diethyl phthalate	NE	NE	48,900	547,000	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD16			SD17			SD18		
FIELD ID					C103-SD16-0.5			C103-SD17-0.5			C103-SD18-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
2,4-Dimethylphenol	NE	NE	1,220	13,700	NS	--	--	NS	--	--	NS	--	--
Dimethyl phthalate	NE	NE	611,000	6.84E+06	NS	--	--	NS	--	--	NS	--	--
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrophenol	NE	NE	122	1,370	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrotoluene	NE	NE	15.7	61.8	NS	--	--	NS	--	--	NS	--	--
2,6-Dinitrotoluene	NE	NE	61.1	684	NS	--	--	NS	--	--	NS	--	--
Fluoranthene	NE	NE	2,290	24,400	NS	--	--	NS	--	--	NS	--	--
Fluorene	NE	NE	2,290	24,400	NS	--	--	NS	--	--	NS	--	--
Hexachlorobenzene	NE	NE	3.04	12.0	NS	--	--	NS	--	--	NS	--	--
Hexachlorobutadiene	NE	NE	61.1	246	NS	--	--	NS	--	--	NS	--	--
Hexachlorocyclopentadiene	NE	NE	367	4,100	NS	--	--	NS	--	--	NS	--	--
Hexachloroethane	NE	NE	42.8	479	NS	--	--	NS	--	--	NS	--	--
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--
Isophorone	NE	NE	5,120	137,000	NS	--	--	NS	--	--	NS	--	--
2-Methylnaphthalene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
2-Methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
4-Methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Naphthalene	NE	NE	43.0	241	NS	--	--	NS	--	--	NS	--	--
2-Nitroaniline	NE	NE	610[g]	6,000[g]	NS	--	--	NS	--	--	NS	--	--
3-Nitroaniline	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	NS	--	--	NS	--	--	NS	--	--
Nitrobenzene	NE	NE	53.5	300	NS	--	--	NS	--	--	NS	--	--
2-Nitrophenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
4-Nitrophenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	NS	--	--	NS	--	--	NS	--	--
N-Nitrosodiphenylamine	NE	NE	993	3,910	NS	--	--	NS	--	--	NS	--	--
Pentachlorophenol	NE	NE	8.94	30.00	NS	--	--	NS	--	--	NS	--	--
Phenanthrene	NE	NE	1,830	20,500	NS	--	--	NS	--	--	NS	--	--
Phenol	NE	NE	18,300	205,000	NS	--	--	NS	--	--	NS	--	--
Pyrene	NE	NE	1,720	18,300	NS	--	--	NS	--	--	NS	--	--
1,2,4-Trichlorobenzene	NE	NE	73.0	367	NS	--	--	NS	--	--	NS	--	--
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	NS	--	--	NS	--	--	NS	--	--
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	NS	--	--	NS	--	--	NS	--	--
PESTICIDES (mg/kg)													
Aroclor 1016	NE	NE	3.93	41.3	NS	--	--	NS	--	--	NS	--	--
Aroclor 1221	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--
Aroclor 1232	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--
Aroclor 1242	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--
Aroclor 1248	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--
Aroclor 1254	NE	NE	1.12	8.26	NS	--	--	NS	--	--	NS	--	--
Aroclor 1260	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--
4,4'-DDD	NE	NE	20.3	79.8	NS	--	--	NS	--	--	NS	--	--
4,4'-DDE	NE	NE	14.3	56.3	NS	--	--	NS	--	--	NS	--	--
4,4'-DDT	NE	NE	17.2	78.1	NS	--	--	NS	--	--	NS	--	--
Aldrin	NE	NE	0.284	1.12	NS	--	--	NS	--	--	NS	--	--
alpha-BHC	NE	NE	0.772	3.04	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD16			SD17			SD18		
FIELD ID					C103-SD16-0.5			C103-SD17-0.5			C103-SD18-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)													
alpha-Chlordane	NE	NE	16.2	71.9	NS	--	--	NS	--	--	NS	--	--
beta-BHC	NE	NE	2.70	10.6	NS	--	--	NS	--	--	NS	--	--
delta-BHC	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Dieldrin	NE	NE	0.304	1.20	NS	--	--	NS	--	--	NS	--	--
Endosulfan I	NE	NE	367	4,100	NS	--	--	NS	--	--	NS	--	--
Endosulfan II	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Endosulfan sulfate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Endrin	NE	NE	18.3	205	NS	--	--	NS	--	--	NS	--	--
Endrin aldehyde	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Endrin ketone	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
gamma-BHC (Lindane)	NE	NE	5.17	22.9	NS	--	--	NS	--	--	NS	--	--
gamma-Chlordane	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Heptachlor	NE	NE	1.08	4.26	NS	--	--	NS	--	--	NS	--	--
Heptachlor epoxide	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Methoxychlor	NE	NE	310.0[g]	3,100[g]	NS	--	--	NS	--	--	NS	--	--
Toxaphene	NE	NE	4.42	17.4	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)													
2,4-D	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
2,4-DB	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Dalapon	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--
Dicamba	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--
Dichlorprop	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Dinoseb	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--
MCPA	NE	NE	31.0[g]	310[g]	NS	--	--	NS	--	--	NS	--	--
MCPP	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)													
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	NS	--	--	NS	--	--	NS	--	--
2,4,5-TP (Silvex)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
POLYCHLORINATED BIPHENYLS (mg/kg)													
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD16 C103-SD16-0.5 0 - 0.5 October 20, 2010			SD17 C103-SD17-0.5 0 - 0.5 October 20, 2010			SD18 C103-SD18-0.5 0 - 0.5 October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)													
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)													
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--
TPH-DRO	NE	NE	1,000	1,000	ND	2.5	U	ND	1.6	U	ND	2.6	U
TPH-ORO	NE	NE	1,000	1,000	ND	25	U	ND	16	U	ND	26	U
TPH-GRO	NE	NE	1,000	1,000	ND	2.5	U	ND	1.6	U	ND	2.6	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

Notes:

[a] Woodward-Clyde Consultants, Inc., 1994. Table 19-2a. *RCRA Facility Investigation, Appendix III SWMUs, Phase I,* Cannon Air Force Base, New Mexico.

[b] Woodward-Clyde Consultants, Inc., 1997. Table A-5. *RCRA Facility Investigation, Appendix III SWMUs, Phase II,* Cannon Air Force Base, New Mexico, November.

[c] URS Group, Inc., 2011. Tables 7-3a through 7-3b. *Playa Lake (SWMU 103) Phase III RCRA Facility Investigation Report,* Cannon Air Force Base, New Mexico, May.

[d] Woodward-Clyde Consultants, Inc., 1997. Table 6-3. *Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon Air Force Base, New Mexico,* September.

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

unknown oil.

[g] U.S. Environmental Protection Agency (EPA), 2012. Regions 3, 6, and 9 Regional Screening Levels for Chemical Contaminants at Superfund Sites, November.

[h] Value is for elemental mercury.

BOLD indicates that analyte exceeds the 2012 NMED residential SSL.

Exceeds Background Value

-- = Placeholder, no data available since not sampled

AFB = Air Force Base

BGS = Below Ground Surface

DRO = Diesel Range Organic

EPA = U.S. Environmental Protection Agency

FT = Feet

GRO = Gasoline Range Organic

GW = Groundwater

ID = Identification

J = Estimated Detection

mg/kg = Milligram per Kilogram

NA = Not Available

ND = Result Not Detected

NE = Not Established

NMED = New Mexico Environment Department

NS = Not Sampled

ORO = Oil Range Organic

PCB = Polychlorinated Biphenyl

Qual = Qualifier

R = Data was unusable.

RCRA = Resource Conservation and Recovery Act

RL = Reporting Limit

SSL = Soil Screening Level

SWMU = Solid Waste Management Unit

TEQ = Toxic Equivalency Quotient

TPH = Total Petroleum Hydrocarbon

U = Nondetected value

UJ = Estimated nondetect

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TABLE B-4

SWMU 103 (Wastewater Playa Lake) Historical Surface Water Analytical All Data Results [a,b]

Cannon AFB, New Mexico

SAMPLE LOCATION	NMWQCC WQS [c]	EPA MCL [d]	SW01			SW02			SW03			SW04			SW05		
FIELD ID			C103-SW01-00			C103-SW02-00			C103-SW03-00			C103-SW04-00			C103-SW05-00		
SAMPLE DEPTH (FT BGS)			NA			NA			NA			NA			NA		
DATE COLLECTED			October 18, 2010			October 18, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (µg/L)																	
Total Lead	50.0	15.0	ND	5.00	U	ND	5.00	U	ND	5.00	U	ND	5.00	UJ	ND	5.00	U
Total Selenium	50.0	50.0	ND	10.0	U	ND	10.0	U	ND	10.0	U	ND	10.0	U	ND	10.0	U
Total Silver	50.0	NE	ND	1.00	U	ND	1.00	U	ND	1.00	U	1.20	1.00		ND	1.00	U
Dissolved Lead	50.0	15.0	ND	5.00	U	ND	5.00	U	ND	5.00	U	ND	5.00	UJ	ND	5.00	U
Dissolved Selenium	50.0	50.0	ND	5.00	U	ND	5.00	U	ND	10.0	U	ND	10.0	U	ND	10.0	U
Dissolved Silver	50.0	NE	ND	1.00	U	ND	1.00	U	ND	1.00	U	ND	1.00	U	ND	1.00	U
Arsenic	100	10.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Barium	1,000	2,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Copper	1,000	1,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Lead	50.0	15.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Silver	50.0	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vanadium	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Zinc	10,000	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
POLYCHLORINATED BIPHENYLS (µg/L)																	
PCB 105	1.00	0.50	ND	1.80E-05	U	ND	2.10E-05	U	ND	2.40E-05	U	3.00E-05	3.00E-05	J	ND	2.60E-05	U
PCB 114	1.00	0.50	ND	1.40E-05	U	ND	2.90E-05	U	ND	2.00E-05	U	ND	7.50E-06	U	1.80E-05	1.80E-05	J
PCB 118	1.00	0.50	ND	4.20E-04	U	3.70E-04	3.70E-04		5.10E-04	5.10E-04		ND	3.40E-04	U	4.50E-04	4.50E-04	
PCB 123	1.00	0.50	ND	4.30E-06	U	ND	2.60E-05	U	ND	4.30E-06	U	ND	1.60E-05	U	ND	2.60E-06	U
PCB 126	1.00	0.50	ND	5.40E-06	U	ND	8.40E-06	U	ND	5.20E-06	U	ND	1.10E-05	U	ND	3.20E-06	U
PCB 156	1.00	0.50	ND	7.80E-06	U	4.90E-05	4.90E-05	J	8.10E-06	8.10E-06	J	ND	6.50E-06	U	1.30E-05	1.30E-05	J
PCB 157	1.00	0.50	ND	8.10E-06	U	ND	4.10E-06	U	ND	4.00E-06	U	ND	6.50E-06	U	ND	2.90E-06	U
PCB 167	1.00	0.50	ND	7.00E-06	U	ND	1.70E-05	U	ND	3.50E-06	U	ND	5.50E-06	U	ND	4.40E-06	U
PCB 169	1.00	0.50	ND	1.10E-05	U	ND	6.00E-06	U	ND	5.20E-06	U	ND	1.00E-05	U	ND	3.80E-06	U
PCB 170	1.00	0.50	ND	3.00E-05	U	3.50E-04	3.50E-04	J	ND	1.90E-05	U	ND	1.60E-05	U	ND	2.50E-05	U
PCB 180	1.00	0.50	1.20E-04	1.20E-04	J	9.00E-04	9.00E-04	J	5.00E-05	5.00E-05	J	5.00E-05	5.00E-05	J	5.80E-05	5.80E-05	J
PCB 189	1.00	0.50	ND	3.40E-06	U	ND	6.90E-06	U	ND	2.10E-06	U	ND	2.00E-06	U	ND	1.30E-06	U
PCB 77	1.00	0.50	ND	5.20E-06	U	ND	7.80E-06	U	ND	6.80E-06	U	ND	7.50E-06	U	7.60E-06	7.60E-06	J
PCB 81	1.00	0.50	ND	3.80E-06	U	ND	7.60E-07	U	ND	3.00E-06	U	ND	6.40E-06	U	ND	2.00E-06	U

TABLE B-4

SWMU 103 (Wastewater Playa Lake) Historical Surface Water Analytical All Data Results [a,b]

Cannon AFB, New Mexico

SAMPLE LOCATION	NMWQCC WQS [c]	EPA MCL [d]	SW01			SW02			SW03			SW04			SW05		
FIELD ID			C103-SW01-00			C103-SW02-00			C103-SW03-00			C103-SW04-00			C103-SW05-00		
SAMPLE DEPTH (FT BGS)			NA			NA			NA			NA			NA		
DATE COLLECTED			October 18, 2010			October 18, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (µg/L)																	
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	ND	1.00E-06	U	ND	2.10E-06	U	ND	8.40E-07	U	ND	2.30E-06	U	ND	1.30E-06	U
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	ND	8.80E-07	U	ND	1.00E-06	U	ND	1.10E-06	U	ND	1.70E-06	U	ND	1.60E-06	U
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	ND	1.20E-06	U	ND	1.40E-06	U	ND	1.50E-06	U	ND	2.30E-06	U	ND	1.10E-06	U
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	ND	2.20E-06	U	ND	3.30E-06	U	ND	1.60E-06	U	ND	1.00E-06	U	ND	1.30E-06	U
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	ND	1.40E-06	U	ND	8.50E-07	U	ND	8.30E-07	U	ND	5.30E-07	U	ND	5.20E-07	U
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	ND	1.50E-06	U	ND	1.80E-06	U	ND	1.10E-06	U	ND	7.10E-07	U	ND	1.20E-06	U
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	ND	8.70E-07	U	ND	8.40E-07	U	ND	7.00E-07	U	ND	4.50E-07	U	ND	4.40E-07	U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	ND	2.10E-06	U	ND	1.90E-06	U	ND	2.80E-06	U	ND	1.00E-06	U	ND	3.10E-07	U
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	ND	1.20E-06	U	ND	1.10E-06	U	ND	1.00E-06	U	ND	6.20E-07	U	ND	6.00E-07	U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	ND	1.50E-06	U	ND	1.40E-06	U	ND	8.80E-07	U	ND	1.40E-06	U	ND	8.50E-07	U
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	ND	1.10E-06	U	ND	1.10E-06	U	ND	1.00E-06	U	ND	8.20E-07	U	ND	7.10E-07	U
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	ND	1.00E-06	U	ND	1.00E-06	U	ND	8.40E-07	U	ND	5.40E-07	U	ND	5.00E-07	U
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	ND	1.10E-06	U	ND	5.00E-07	UJ	ND	6.90E-07	U	ND	5.40E-07	U	ND	7.00E-07	U
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	3.00E-05	ND	9.10E-07	U	ND	1.90E-06	U	ND	6.50E-07	U	ND	6.50E-07	U	ND	4.80E-07	U
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	ND	1.80E-06	U	ND	1.60E-06	U	ND	1.10E-06	U	ND	1.30E-06	U	ND	1.00E-06	U
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	ND	2.40E-06	U	ND	1.30E-05	U	ND	1.80E-05	U	ND	2.20E-06	U	1.90E-05	1.90E-05	J
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	ND	2.10E-06	U	ND	2.00E-06	U	ND	1.10E-06	U	ND	2.20E-06	U	ND	1.20E-06	U
TEQ	NE	NE	ND	NA	U	ND	NA	U	ND	NA	U	ND	NA	U	5.70E-09	NA	
CYANIDE (µg/L)																	
Cyanide	200	200	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
WATER QUALITY (µg/L)																	
Total Sulfide	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (µg/L)																	
Isophorone	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-4

SWMU 103 (Wastewater Playa Lake) Historical Surface Water Analytical All Data Results [a,b]

Cannon AFB, New Mexico

SAMPLE LOCATION	NMWQCC WQS [c]	EPA MCL [d]	SW06			10305			10306			10307		
FIELD ID			C103-SW06-00			CAN103-1035-3000			CAN103-1036-3000			CAN103-1037-3000		
SAMPLE DEPTH (FT BGS)			NA			NA			NA			NA		
DATE COLLECTED			October 19, 2010			September 21, 1993			September 21, 1993			September 21, 1993		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (µg/L)														
Total Lead	50.0	15.0	2.10	5.00	J	NS	--	--	NS	--	--	NS	--	--
Total Selenium	50.0	50.0	ND	10.0	U	NS	--	--	NS	--	--	NS	--	--
Total Silver	50.0	NE	ND	1.00	U	NS	--	--	NS	--	--	NS	--	--
Dissolved Lead	50.0	15.0	4.60	5.00	J	NS	--	--	NS	--	--	NS	--	--
Dissolved Selenium	50.0	50.0	ND	10.0	U	NS	--	--	NS	--	--	NS	--	--
Dissolved Silver	50.0	NE	ND	1.00	U	NS	--	--	NS	--	--	NS	--	--
Arsenic	100	10.0	NS	--	--	3.10	5.00	J	5.70	5.00	J	3.40	5.00	J
Barium	1,000	2,000	NS	--	--	76.0	10.0		70.0	10.0		66.0	10.0	
Copper	1,000	1,300	NS	--	--	6.90	20.0	J	51.0	20.0	J	7.20	20.0	J
Lead	50.0	15.0	NS	--	--	ND	5.00	UJ	6.00	5.00	J	ND	5.00	UJ
Silver	50.0	NE	NS	--	--	9.20	10.0	J	5.30	10.0	J	5.20	10.0	J
Vanadium	NE	NE	NS	--	--	8.90	10.0	J	4.80	10.0	J	8.10	10.0	J
Zinc	10,000	NE	NS	--	--	19.0	20.0	J	14.0	20.0	J	14.0	20.0	J
POLYCHLORINATED BIPHENYLS (µg/L)														
PCB 105	1.00	0.50	ND	1.90E-05	U	NS	--	--	NS	--	--	NS	--	--
PCB 114	1.00	0.50	ND	2.40E-05	U	NS	--	--	NS	--	--	NS	--	--
PCB 118	1.00	0.50	3.90E-04	3.90E-04		NS	--	--	NS	--	--	NS	--	--
PCB 123	1.00	0.50	ND	5.20E-06	U	NS	--	--	NS	--	--	NS	--	--
PCB 126	1.00	0.50	ND	6.70E-06	U	NS	--	--	NS	--	--	NS	--	--
PCB 156	1.00	0.50	ND	6.50E-06	U	NS	--	--	NS	--	--	NS	--	--
PCB 157	1.00	0.50	ND	6.70E-06	U	NS	--	--	NS	--	--	NS	--	--
PCB 167	1.00	0.50	ND	5.70E-06	U	NS	--	--	NS	--	--	NS	--	--
PCB 169	1.00	0.50	ND	9.50E-06	U	NS	--	--	NS	--	--	NS	--	--
PCB 170	1.00	0.50	ND	3.20E-05	U	NS	--	--	NS	--	--	NS	--	--
PCB 180	1.00	0.50	8.70E-05	8.70E-05	J	NS	--	--	NS	--	--	NS	--	--
PCB 189	1.00	0.50	ND	1.30E-06	U	NS	--	--	NS	--	--	NS	--	--
PCB 77	1.00	0.50	ND	8.20E-06	U	NS	--	--	NS	--	--	NS	--	--
PCB 81	1.00	0.50	ND	2.80E-06	U	NS	--	--	NS	--	--	NS	--	--

TABLE B-4

SWMU 103 (Wastewater Playa Lake) Historical Surface Water Analytical All Data Results [a,b]

Cannon AFB, New Mexico

SAMPLE LOCATION	NMWQCC WQS [c]	EPA MCL [d]	SW06			10305			10306			10307		
FIELD ID			C103-SW06-00			CAN103-1035-3000			CAN103-1036-3000			CAN103-1037-3000		
SAMPLE DEPTH (FT BGS)			NA			NA			NA			NA		
DATE COLLECTED			October 19, 2010			September 21, 1993			September 21, 1993			September 21, 1993		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (µg/L)														
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	ND	3.80E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	ND	1.40E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	ND	1.30E-05	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	ND	8.70E-07	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	ND	1.30E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	ND	1.80E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	ND	1.10E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	ND	1.30E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	ND	1.50E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	ND	1.90E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	ND	1.50E-06	U	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	ND	5.00E-06	U	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	ND	1.50E-06	U	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	3.00E-05	ND	1.00E-06	U	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	ND	2.20E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	ND	1.90E-05	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	ND	3.20E-06	U	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	ND	NA	U	NS	--	--	NS	--	--	NS	--	--
CYANIDE (µg/L)														
Cyanide	200	200	NS	--	--	14.0	10.0		11.0	10.0		ND	10.0	U
WATER QUALITY (µg/L)														
Total Sulfide	NE	NE	NS	--	--	800	100		570	100		650	100	
SEMIVOLATILE ORGANIC COMPOUNDS (µg/L)														
Isophorone	NE	NE	NS	--	--	ND	10.0	UJ	ND	10.0	U	1.40	10.0	J

TABLE B-4

SWMU 103 (Wastewater Playa Lake) Historical Surface Water Analytical All Data Results [a,b]

Cannon AFB, New Mexico

Notes:

[a] Woodward-Clyde Consultants, Inc., 1994. Table 19-2b. *RCRA Facility Investigation, Appendix III SWMUs, Phase I,* Cannon Air Force Base, N*ew Mexico* .

[b] URS Group, Inc., 2011. Tables 7-1a through 7-1b. *Playa Lake (SWMU 103) Phase III RCRA Facility Investigation Report,* Cannon Air Force Base, New Mexico, May.

[c] New Mexico Water Quality Control Commission (NMWQCC), 2001. 20.6.2.7(ww) New Mexico Administrative Code (NMAC),*Definitions - toxic pollutant* .

[d] U.S. Environmental Protection Agency (EPA), 2012. Regions 3, 6, and 9 Regional Screening Levels for Chemical Contaminants at Superfund Sites, November.

-- = Placeholder, no data available since not sampled

µg/L = Microgram per Liter

AFB = Air Force Base

bgs = Below Ground Surface

EPA = U.S. Environmental Protection Agency

FT = Feet

ID = Identification

J = Estimated Detection

MCL = Maximum Contaminant Level

NA = Not Applicable

ND = Result Not Detected

NE = Not Established

NMAC = New Mexico Administrative Code

NMWQCC = New Mexico Water Quality Control Commission

NS = Not Sampled

Qual = Qualifier

PCB = Polychlorinated Biphenyl

RCRA = Resource Conservation and Recovery Act

RL = Reporting Limit

SWMU = Solid Waste Management Unit

TEQ = Toxic Equivalency Quotient

U = Nondetected value

UJ = Estimated nondetect

WQS = Water Quality Standards

Appendix C
Geochemical Evaluation of Arsenic at SWMU 103

Appendix C: Geochemical Evaluation of Arsenic in Soil at SWMU-103, Cannon Air Force Base

Final Version 09-03-2013

This section provides the methodology and results of a geochemical evaluation of arsenic concentrations in soil and sediment samples from the SWMU 103 site at Cannon Air Force Base (AFB). The evaluated data includes chemical analyses of 15 sediment samples obtained at depths from 0 to 5 feet below ground surface (bgs), and 33 soil samples obtained at depths from 0 to 20 feet bgs. Each sample was analyzed for the Target Analyte List of 23 elements. Analyses of 37 previously collected background samples were used for comparison in the evaluation. Descriptions of the background samples can be found in *Naturally Occurring Concentrations of Inorganics and Background concentrations of Pesticides at Cannon Air Force Base* (Woodward-Clyde, 1997).

The arsenic concentrations in three of the 15 sediment samples exceeded both the Cannon AFB background screening value of 4.3 mg/kg for subsurface soil and the NMED residential SSL of 3.9 mg/kg. These three samples had arsenic concentrations of 4.5, 4.6, and 10.8 mg/kg, and were collected at depths ranging from 0-3 ft bgs. One sediment sample exceeded the 2012 NMED residential SSL of 3.9 mg/kg, but the sample concentration (4.3 mg/kg) did not exceed the Cannon AFB background screening concentration of 4.3 mg/kg for subsurface soil. No other elements had concentrations that exceeded both the 2012 NMED residential SSLs and Cannon AFB background screening values.

Evaluation Methodology

Trace element distributions in soil are often right-skewed and can span a wide range of concentrations. Trace elements in soil can naturally exceed risk-based screening levels because these screening levels do not consider natural site-specific distributions of trace element concentrations.

Comparisons of concentrations in site samples to background screening values can also be problematic. The background screening values used here are based on the 95th upper tolerance limits of background distributions. By definition, one would expect that five percent, or one in 20 samples will on average exceed the background screening value even if no contamination is present.

Comparisons to risk-based screening levels and background screening values only consider the absolute concentrations of individual elements, and disregard the interdependence of element concentrations and the geochemical mechanisms controlling element behavior. However, it is well established that trace elements naturally associate with specific minerals in soil and sediment, and the preferential enrichment of a sample with these minerals will result in naturally elevated trace element concentrations. It is thus important to be able to identify these naturally high concentrations and distinguish them from potential contamination.

Recent publications indicate that geochemical evaluations are assuming a larger role in environmental investigations (e.g., EPA, 1995; Barclift, *et al*., 2000; U.S. Navy, 2002, 2003; Myers and Thorbjornsen, 2004; Thorbjornsen and Myers, 2007a, 2007b, 2008). A properly executed geochemical evaluation can distinguish between naturally high element concentrations versus contamination, and can identify the specific samples that may contain some component of site-related contamination.

Geochemical Evaluation Methodology for Soil. Trace elements naturally associate with specific soil-forming minerals, and geochemical evaluations are predicated on these known associations. For example, in most uncontaminated oxic soils, arsenic exhibits an association with iron oxide minerals. Arsenic exists in oxic soil pore fluid as oxyanions such as $HAsO_4^{-2}$ and $H_2AsO_4^{-}$ (Brookins, 1988), and these negatively charged species have a strong affinity to adsorb on iron oxides, which tend to maintain a net positive surface charge (Electric Power Research Institute, 1984). (In this report, the term "iron oxide" encompasses oxides, hydroxides, oxyhydroxides, and hydrous oxides of iron.) This association is expressed as a positive correlation between arsenic concentrations and iron concentrations for uncontaminated samples.

As a result of these associations, soil samples with a low percentage of iron oxides will contain proportionally lower arsenic concentrations, and soil samples that are enriched in iron oxides will contain proportionally higher arsenic concentrations (Bowell, 1994). Although there is variability in the absolute concentrations of arsenic (As) and iron (Fe) in soil at a site, the As/Fe ratios of the samples will be relatively constant if no contamination is present (Myers and Thorbjornsen, 2004). Samples that contain excess arsenic from a contaminant source (herbicides, treated wood, etc.) will exhibit anomalously high As/Fe ratios compared to the uncontaminated samples.

The reference elements against which trace elements are evaluated reflect the affinities that the trace elements have for specific minerals, which is a function of the specific geochemical environment. The concentrations of iron and aluminum serve as qualitative indicators of the amounts of iron oxide and clay minerals that are present in the soil samples (all clay minerals contain aluminum as a major component). Along with arsenic, selenium and vanadium are present in oxic soil pore fluid as anions and have an affinity to adsorb on iron oxides, which tend to maintain a net positive surface charge. Concentrations of arsenic, selenium, or vanadium in a set of samples can be evaluated through comparison to the corresponding iron concentrations. Barium, cobalt, cadmium, lead, and zinc are typically present in soil as divalent cations and have an affinity to adsorb on clay minerals, which tend to maintain a net negative surface charge. Concentrations of these elements can be evaluated through comparison to the corresponding aluminum concentrations.

To perform the geochemical evaluation, correlation plots are constructed to explore the elemental associations and identify potentially contaminated samples. The detected concentrations of the trace element of interest (dependent variable) are plotted against the detected concentrations of the reference element (independent variable), which represents the mineral to which the trace element may be adsorbed. In the case of arsenic, the arsenic concentrations for a given set of samples would be plotted on the y-axis and the corresponding iron concentrations would be plotted on the x-axis.

If no contamination is present, then the samples will exhibit a common trend with a positive slope, and the samples with the highest trace element concentrations will fall on this trend. This indicates that the elevated trace element concentrations are due to the preferential enrichment of the minerals represented by the reference element concentrations in those samples, and that the trace element has a natural source. If, however, the samples with high trace element concentrations have low or moderate reference element concentrations, then those samples will lie above the trend established by the other samples. This indicates that the anomalous samples contain excess trace elements beyond that which can be explained by the natural reference element content, and such samples may contain a component of contamination.

Site samples with a trace element present as a contaminant will exhibit anomalously high trace-versus-major element ratios compared to background trace-versus-major element ratios. These elevated ratios may not always be apparent in log-log correlation plots,

especially at the upper end of the concentration range. Therefore, ratio plots—which depict trace element concentrations on the y-axis and trace/reference element ratios on the x-axis—are employed in conjunction with correlation plots in those cases where it is not immediately apparent which site samples have anomalously high elemental ratios on the correlation plots. Ratio plots have high resolution over the entire concentration range and permit easy visual identification of samples with anomalously high elemental ratios relative to background.

It is important to note that there is natural variability, as well as analytical uncertainty, in the element ratios of uncontaminated soil samples. Trace/reference element ratios are calculated from two uncertain analytical results, so the resulting uncertainties in the ratios can produce some scatter in the points on a ratio plot. This is especially true when estimated ("J"-qualified) analytical results are used. This can be seen on some of the plots that show more scatter of the points at the lower end of the concentration range, where analytical uncertainties are higher and analytical results are reported with fewer significant figures.

Evaluation Results

Aluminum and iron are evaluated first to determine if the iron concentrations are natural and if iron is therefore suitable for use as reference element for the evaluation of arsenic.

Aluminum and Iron – Aluminum has a mean concentration of 7,900 mg/kg in the 48 soil and sediment site samples. Aluminum is a primary component of common soil-forming minerals such as clays, feldspars, and micas. Aluminum is always trivalent (as Al^{3+}) and can substitute for ferric iron (Fe^{3+}) in iron oxide minerals. It can also adsorb on iron oxide surfaces (Cornell and Schwertmann, 2003).

Iron has a mean concentration of 7,000 mg/kg in the 48 soil and sediment site samples, and is dominantly present as iron oxides. Iron oxides are common soil-forming minerals and occur as discrete mineral grains or as coatings on silicate minerals (Cornell and Schwertmann, 2003).

Clays and iron oxides tend to exist as very fine particles, so both aluminum and iron are enriched in samples with finer grain sizes. A plot of iron versus aluminum concentrations can be used to qualitatively assess the relative abundance of these minerals in site soil and sediment, as shown in Figure C-1. The 15 site sediment samples are represented by

circles, the 33 site soil samples are represented by squares, and the 37 background soil samples are represented by triangles in the Figure. This figure shows that all three types of samples fall on the same trend in the plot, indicating that all of the samples have similar Al/Fe ratios. It also shows that the sediment samples have higher concentrations of iron and aluminum than the soil samples, even though the As/Fe ratios are similar. These higher concentrations and similar ratios imply that the sediment samples are finer grained and thus contain higher proportions of aluminum-bearing clay and iron oxide minerals relative to the Site and background soil samples.

The Al/Fe ratios can be seen more clearly on Figure C-2, which shows iron concentrations versus Fe/Al ratios for each sample. The fact that the site and background samples have ratios that fall well within one order of magnitude indicates that the site samples do not contain excess aluminum or iron from a contaminant source and that their aluminum and iron concentrations are natural.

Iron is the reference element for the evaluation of arsenic, so these results also indicate that the observed iron concentrations are suitable for use in identifying arsenic sources. As discussed previously, clays and iron oxides have an affinity to adsorb specific trace elements, so samples that are enriched in these minerals are expected to contain naturally high concentrations of trace elements, including arsenic. These are the sediment samples that lie on the upper end of the positive trend in Figure C-1 and the top of the vertical stack in Figure C-2.

Arsenic – Arsenic is known to associate with iron oxide minerals as discussed above. A soil or sediment sample that is naturally enriched in iron oxides is expected to be naturally enriched in arsenic. Figure C-3 provides a plot of arsenic versus iron in the Site and Background samples. The Site and background samples fall on the same general trend, although this trend is less correlated than the iron versus aluminum trend shown in Figure C-1. The sediment samples have higher arsenic as well as iron and aluminum concentrations, which is expected due to their finer grain size distributions.

Figure C-4 provides a ratio plot of the same arsenic and iron results. This perspective reveals that the sediment samples have As/Fe ratios that fall within the range of the background ratios. The consistent As/Fe ratios in the Site samples, and the agreement with the background ratios indicates that the observed arsenic concentrations are most

likely natural, and that the elevated (above SSL) arsenic concentrations are likely due to the finer-grained nature of the sediment samples.

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U.S. Navy, 2002, ***Guidance for Environmental Background Analysis, Volume 1: Soil***, NFESC User's Guide UG-2049-ENV, Naval Facilities Engineering Command, Washington, D.C., April.

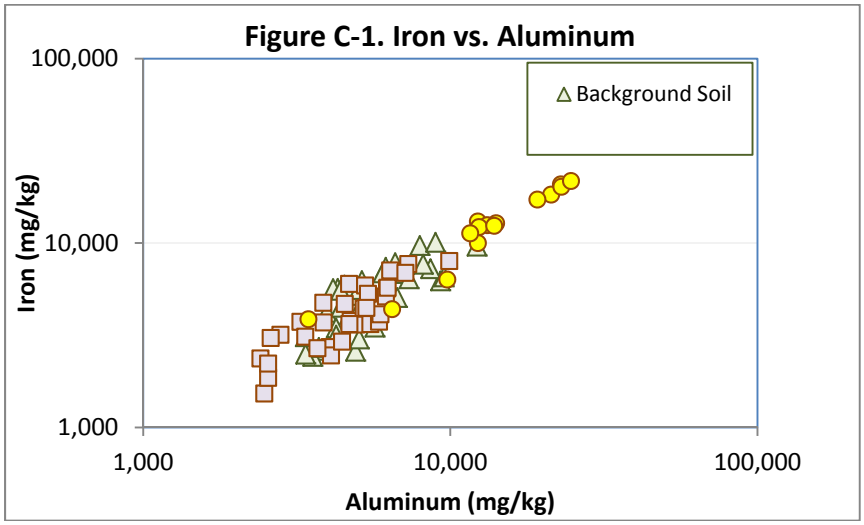
Figure C-1. Iron vs. Aluminum
100,000
10,000
1,000
Iron (mg/kg)
1,000
10,000
100,000
Aluminum (mg/kg)
Background Soil

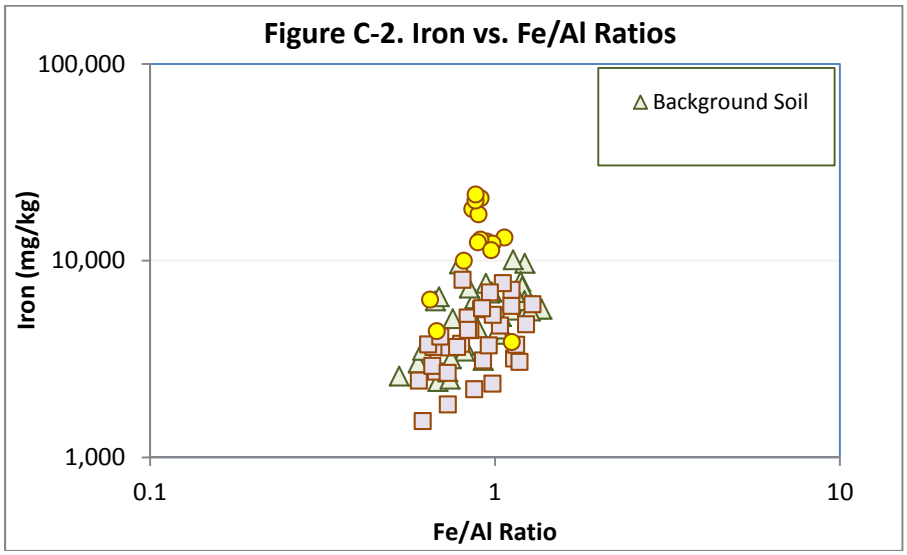
Figure C-2. Iron vs. Fe/Al Ratios
100,000
10,000
1,000
Iron (mg/kg)
0.1
1
10
Fe/Al Ratio
Background Soil

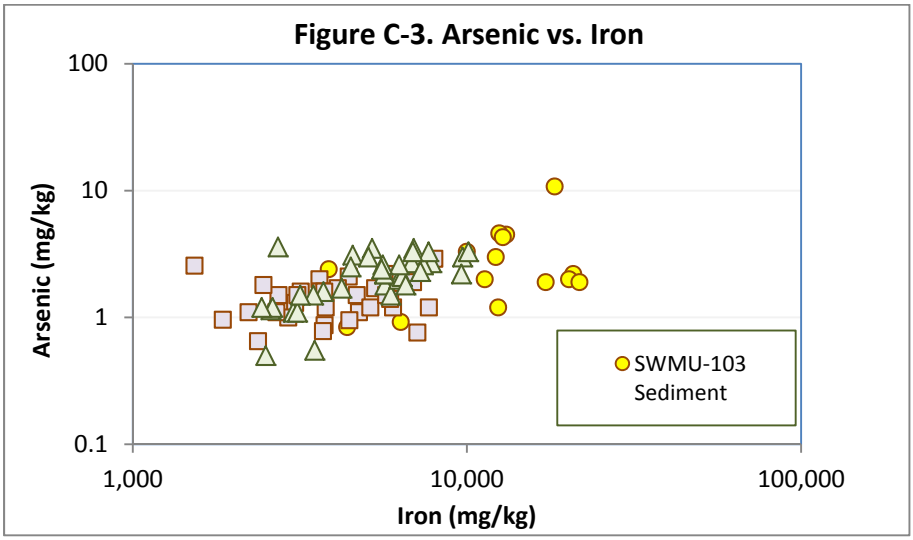
Figure C-3. Arsenic vs. Iron
100
10
1
0.1
Arsenic (mg/kg)
1,000
10,000
100,000
Iron (mg/kg)
SWMU-103 Sediment

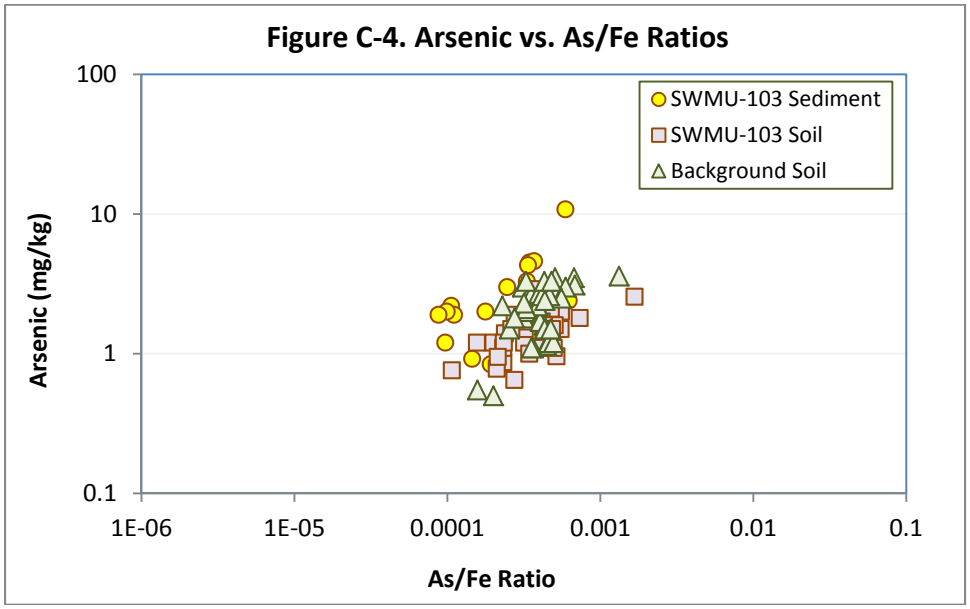
Figure C-4. Arsenic vs. As/Fe Ratios
100
10
1
0.1
Arsenic (mg/kg)
1E-06
1E-05
0.0001
0.001
0.01
0.1
As/Fe Ratio
SWMU-103 Sediment
SWMU-103 Soil
Background Soil

Shaw Environmental, Inc. (a CB&I Company)
1401 Enclave Parkway, Suite 250
Houston, Texas 77077
Tel: +1 281 531 3104
Fax: +1 281 531 3101
www.CBI.com

Date: ***26 September 2013***

Project No.: ***144106***

TRANSMITTAL LETTER:

To: Ms. Stephanie Ramon

Letter No. 144106-0122

Address: Environmental Programs Execution
ATTN: AFCEC/EXE Building 171
2261 Hughes Ave, Ste 155
Lackland AFB, TX 78236-9853

Re: ***Final Corrective Action Complete Proposals – Eight Solid Waste Management Units***

Cannon Air Force Base, New Mexico

Contract No.FA8903-09-D-8580 Task Order No. 0013, Modification 01

For: Review ____ ***As Requested*** ____ ***Approval*** ____ ***Corrections*** ____ ***Submittal*** ***X*** ***Other*** ____

Item No:	***No. of Copies***	***Date:***	***Document Title***
WERC-09-13-009	1 electronic copy	September 2013	Final – Corrective Action Complete Proposals – Two Solid Waste Management Units and One Area of Concern (SWMU 91, SWMU 103, and AOC A), Cannon Air Force Base, New Mexico

Additional copies have been sent to those on distribution below. The enclosed Corrective Action Complete Proposal documents completion of site investigations. Please call with questions or comments. Thank you.

Sincerely:

William A. Foss, P.G.
Technical Lead

PC: Laura Peters - Cannon AFB (4 hard copies, 4 CDs)

PC: Scott Newcomer – GEITA Spt. (1 hard copy, 1 electronic copy)

Government Review Comments

Working Copy Corrective Action Complete Proposals, Groups 1 and 4,
Cannon Air Force Base, New Mexico,
(Contract: FA8903-09-D-8580, Task Order 0013)

Prepared by: Shaw Environmental & Infrastructure, Inc. (a CB&I company)
Report dated May 2013. Comments received August 28, 2013.

1. Respondent Concurs (C), Does not Concur (D), takes Exception (E), or Comment Noted (N).
2. Commentator Agrees (A) with response or Does not Agree (D) with response.

Comment #	Page / Section / Paragraph / Line	Comment	C,D, E, or N (1)	Response	A or D (2)
Reviewer: Cannon AFB (Laura Peters and Dr. Mokhtar Gaballa)					
1	Introduction	Please include information that indicates which program these sites are being addressed under. DERP? Compliance? This information is important because sometimes there may be additional requirements to fulfill under DERP.	C	The suggested information has been included as the first paragraph in the introduction. Additional front matter, including the Notice, Preface, and Report Documentation Page, was also added.	
2	C.1, Current and Anticipated Land Use-AOC A	This section does not address the anticipated land use of AOC A. It addresses the future land use of CAFB. Please change the title of the section or the contents under the current title.	C	The content was revised to specifically address AOC A.	
3	C.1, 1985 Phase II, Stage I IRP, 2nd Paragraph	Please ensure that you have not confused sample 19A and 19B. The figure does not agree with the text.	C	Figure 2 has been corrected to show that borehole 19B is located northwest of 19A, as shown in the 1986 Phase II RFI.	
4	C.1, Page 5, 2005 Phase I Supplemental Assessment	The second sentence is awkward and needs to be revised.	C	Sentence has been revised to "The Supplemental Assessment was performed in 2005 by URS to obtain additional data and determine the presence or absence of contaminants at AOC A."	
5	C.2, Current and Anticipated Land Use-SWMU 91	See comment 2.	C	The content was revised to specifically address SWMU 91.	
6	C.2, 2009 RFI Addendum, 2nd Paragraph	Please change the last sentence to read" … and tank saddles are visible in Figure 9-1 of the RFI Addendum (URS, 2009)	C	Sentence has been revised as suggested.	
7	C.3, Current and Anticipated Land Use-SWMU 103	See comment 2	C	The content was revised to specifically address SWMU 103.	

Comment #	Page / Section / Paragraph / Line	Comment	C,D, E, or N [1]	Response	A or D [2]
8	C.3, 1993 Phase I RFI, Page 12	The text in paragraphs 2 and 3 contradict one another. Paragraph 2 indicates that sediment samples were collected from 0-1ft BGS while paragraph 3 indicates that sediment samples had been collected with a depth of at least 3.5ft. Please ensure the information in this section is correct. In addition, sample CAN103-1032-5001 cannot be located on the figures associated with SWMU 103. Please correct the portion of the document that is in error.	C	Sentence has been revised to say "Sediment samples were collected from locations distributed around the lake bottom from a general depth interval of 0 to 3.5 ft bgs. Not all sediment samples were collected from a 3.5-ft interval, but rather a shorter interval located between 0 to 3.5 ft bgs." Please note that sample CAN103-1032-5001 was taken at sample location 10302, shown on Figure 4. Tables B-3 and B-4 were revised to include which samples were collected at each location.	
9	C.3, 2011 Phase III RFI	The later portion of this section uses a significant amount of text to talk about the Phase II RFI, yet the title of this section is Phase III RFI. Please revise this section.	C	Phase III RFI section has been revised to ensure the appropriate phase is being referenced throughout.	
10	C.3, 2011 Phase III RFI, Page 15	In the second sentence, I believe the first occurrence of Phase II should be Phase III. Also, please ensure that the correct effort is referenced throughout this section.	C	The second sentence was revised to say, "The Phase III RFI re-evaluated previously collected data from the Phase I and Phase II RFI for potential risks to human health and the environment."	
11	C.3, 2011 Phase III RFI, Page 16, Second Paragraph	Please provide the figure number that contains the location of the surface sediment samples.	C	A sentence has been added to the second paragraph to indicate in which figure the sample locations are shown.	
12	C.3, 2013 Geochemical Evaluation of Arsenic	Can you provide any explanation as to why arsenic was present in soil during previous investigations, but was not present in the Phase III RFI samples? Also, you may want to include a chart in this section to allow the reader to follow the process more easily.	N	The description of the sampling effort for the Phase III RFI did not clearly communicate how many samples were analyzed for arsenic. The section has been revised for clarity. In summary, only six samples were submitted for arsenic analysis and none of these exceeded the NMED residential SSL for arsenic. None of the collected sediment samples were submitted for analysis of all 23 Target Analyte List metals. Consequently, the Phase III RFI samples were excluded from the geochemical analysis. The discussion of the geochemical analysis has been revised to make this clearer. Comment noted.	
13	C.3, 2013 Geochemical Evaluation of Arsenic, Page 19	The first paragraph indicates that the background screening value is 3.6 mg/kg. However, the later text in the paragraph indicates that the background value is 4.3 mg/kg.	E	The Cannon AFB background screening value for arsenic in subsurface soil is 4.3 mg/kg. The text has been changed to clarify this discrepancy.	

Comment #	Page / Section / Paragraph / Line	Comment	C,D, E, or N [1]	Response	A or D [2]
14	General	This report does not mention the contractor or the contract. Please include this information	C	The following sentence has been added to the introduction: "This CAC Petition has been prepared by Shaw Environmental & Infrastructure, a CB&I Company, for the U.S. Air Force Civil Engineer Center and Cannon AFB under Contract FA8903-09-D-8580, Task Order 0013, Modification 01."	
Reviewer: Air Force Civil Engineer Center: No comments.					

NEW MEXICO ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

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

SUSANA MARTINEZ
Governor

JOHN A. SANCHEZ
Lieutenant Governor

DAVE MARTIN
Secretary

BUTCH TONGATE
Deputy Secretary

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

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

October 25, 2012

Colonel David C. Piech
27th Special Operations Mission Support Group
110 E. Sextant Avenue, Building 600, Suite 1098
Cannon Air Force Base, New Mexico 88103

RE: APPROVAL WITH MODIFICATIONS
PHASE II SUPPLEMENTAL ASSESSMENT AT AREA OF CONCERN A (SS-19)
CANNON AIR FORCE BASE, NEW MEXICO
EPA ID # NM7572124454
HWB-CAFB-12-001

Dear Col. Piech:

The New Mexico Environment Department (NMED) has completed a review Cannon Air Force Base's (Permittee) *Phase II Supplemental Assessment at Area of Concern A (SS-19)* (Report) dated February 22, 2012. NMED hereby issues this approval with modifications with the following comments.

Table 3-2 (Summary of Analytical Data Screening Results, Phase II Supplemental Assessment at AOC A (SS-19), Cannon Air Force Base, New Mexico) indicates that results exceed Los Alamos National Laboratory Ecological Screening Levels (LANL ESL)'s. In **Section 3.3 Screening Results, bottom of page 3-1, top of page 3-2** the Permittee states "[t]he maximum lead concentration (1.2E+02 mg/kg) is below the NMED residential screening level for lead (4.00E=02 mg/kg)…[f]ive of the six surface soil samples from AOC A were above LANL ESL's…[t]he following LANL ESLs were exceeded: American robin…and Montane shrew…" In **Section 3.4.1 Qualitative Assessment Checklists, pages 3-2 through 3-5** the Permittee describes how NMED's Scoping Site Assessment Checklist and Ecological Site Exclusion Checklist were used to assist in the qualitative assessment phase to determine that further ecological assessment or risk screening were warranted for Area of Concern (AOC) A

(SS-19).

Since the initial screening resulted in slightly elevated hazard quotients (HQ)s, NMED conducted a refined ERA (see Attachment 1). The results of the refined ecological risk assessment (ERA) determined that the calculated ecological HQs would be well below target levels for both individual American robin and Montane shrew receptors and populations based on a more refined assessment, indicating that lead in soil at AOC A (SS-19) would not likely pose ecological risk. Therefore, the conclusion of the baseline ERA presented in the *Phase II Supplemental Assessment at Area of Concern (AOC) A*, as clarified with this assessment, is adequate and would meet NMED requirements for approval.

No response to this letter is necessary. If you have any questions regarding this letter, please call Dave Cobrain of my staff at (505) 476-6055.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

Attachment 1: New Mexico Environment Department's Refined Ecological Risk Assessment for AOC A (SS-19), Cannon Air Force Base, New Mexico

cc: D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
L. Andress, NMED HWB
M. Higginbotham, CAFB
R. Lancaster, CAFB

File: CAFB 2012 and Reading
CAFB-12-001

New Mexico Environment Department's Refined Ecological Risk Assessment for AOC A (SS-19), Cannon Air Force Base, New Mexico

The baseline (ecological risk assessment (ERA) presented in Cannon Air Force Base (CAFB)'s *Phase II Supplemental Assessment at AOC A (SS-19)*, dated February 2012 concluded that the site would provide little or no suitable foraging habitat since the site is industrially developed: 67% of the site is covered in roads/parking lots/buildings, and the remaining 33% consists of regularly maintained lawns. Therefore, further ecological evaluation was not conducted at AOC A. Because detected concentrations of lead in four of the additional soil samples slightly exceeded Los Alamos National Laboratory's (LANL's) Ecological Screening Levels (ESLs) for the American robin and the Montane shrew the New Mexico Environment Department (NMED) conducted a refined ecological risk assessment (ERA) for Area of Concern (AOC) A.

While the site may potentially provide some foraging habitat for ecological receptors, it is agreed that it would not be significant due to the limited area (possibility of 33% of the site) and the relatively small size of the site. The assessment provided by CAFB was limited to an initial screening (Tier 1) based on conservative toxicity data No-Observed Adverse Effect Levels (NOAELs). Because the initial screening did result in slightly elevated hazard quotients (HQs), further quantitative ecological evaluation should have been conducted for the American robin and Montane shrew receptors using an application of lowest observed adverse effect levels (LOAELs) and area use and population area use factors.

NMED assumed that the average home ranges consist of 1.1 acres for the American Robin and 0.96 acres for the Montane shrew. In addition, NMED assumed that only 33% of the acreage at the site was suitable for habitat. Using modifications of the area use factors and population use factors along with LOAEL-based LANL ESLs, more refined HQs were calculated as shown in the below tables.

Table 1 - Refined HQ for American Robin, Insectivore.

Constituent	Maximum (mg/kg)	LOAEL-based ESL American Robin (Avian Insectivore) (mg/kg)	AUF	PAUF	Adjusted Individual HQ	Adjusted Population HQ
Lead	1.12E+02	2.80E+01	1.80E-01	4.50E-03	7.20E-01	1.80E-02

ESL = LANL ecological screening level based on LOAEL.

AUF (area use factor) = exposure area/home range. Exposure area is 33% of site area (0.6 acre) = 0.2 acre. Average home range for American robin is 1.1 acre (USEPA, 1993).

PAUF (population area use factor) = exposure area/population area. Exposure area is 33% of 0.6 acre = 0.2 acre. Population area for American robin is 44 acres (USEPA, 1993).

Table 2 - Refined HQ for American Robin, Omnivore.

Constituent	Maximum (mg/kg)	LOAEL-based ESL American Robin (Avian Omnivore) (mg/kg)	AUF	PAUF	Adjusted Individual HQ	Adjusted Population HQ
Lead	1.12E+02	3.30E+01	1.80E-01	4.50E-03	6.11E-01	1.53E-02

ESL = LANL ecological screening level based on LOAEL.

AUF = exposure area/home range. Exposure area is 33% of site area (0.6 acre) = 0.2 acre. Average home range for American robin is 1.1 acre (USEPA, 1993).

PAUF = exposure area/population area. Exposure area is 33% of site area (0.6 acre) = 0.2 acre. Population area for American robin is 44 acres (USEPA, 1993).

Table 3 - Refined HQ for American Robin, Herbivore.

Constituent	Maximum (mg/kg)	LOAEL-based ESL American Robin (Avian Herbivore) (mg/kg)	AUF	PAUF	Adjusted Individual HQ	Adjusted Population HQ
Lead	1.12E+02	4.20E+01	1.80E-01	4.50E-03	4.80E-01	1.20E-02

ESL = LANL ecological screening level based on LOAEL.

AUF = exposure area/home range. Exposure area is 33% of site area (0.6 acre) = 0.2 acre. Average home range for American robin is 1.1 acre (USEPA, 1993).

PAUF = exposure area/population area. Exposure area is 33% of site area (0.6 acre) = 0.2 acre. Population area for American robin is 44 acres (USEPA, 1993).

Table 4 - Refined HQ for Montane Shrew.

Constituent	Maximum (mg/kg)	LOAEL-based ESL Montane Shrew (mg/kg)	AUF	PAUF	Adjusted Individual HQ	Adjusted Population HQ
Lead	1.12E+02	1.30E+02	2.08E-01	5.00E-03	1.79E-01	4.31E-03

ESL = LANL ecological screening level based on LOAEL.

AUF = exposure area/home range. Exposure area is 33% of site area (0.6 acre) = 0.2 acre. Average home range for Montane shrew is 0.96 acre (USEPA, 1993).

PAUF = exposure area/population area. Exposure area is 33% of site area (0.6 acre) = 0.2 acre. Population area for Montane shrew is 39 acres (USEPA, 1993).

Reference: US EPA, 1993. *Wildlife Exposure Factors Handbook.* EPA/600/R-93/187. December.

The calculated ecological HQs would be well below target levels for both individual American robin and Montane shrew receptors and populations based on a more refined assessment, indicating that lead in soil at AOC A would not likely pose ecological risk. Therefore, the conclusion of the baseline ERA presented in the *Phase II Supplemental Assessment at Area of Concern (AOC) A*, as clarified with this assessment, is adequate and would meet NMED requirements for approval.

874 0

FILE: 17G
P.Z.

CANNON AFB
NEW MEXICO

ADMINISTRATIVE RECORD
COVER SHEET

AR File Number 874

874 1 AR# 874

State of New Mexico
ENVIRONMENT DEPARTMENT
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303
Telephone (505) 428-2500
Fax (505) 428-2567
www.nmenv.state.nm.us

BILL RICHARDSON
GOVERNOR

RON CURRY
SECRETARY

DERRITH WATCHMAN-MOORE
DEPUTY SECRETARY

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

January 12, 2004

Colonel Robert Yates
Commander, 27th Fighter Wing
100 D.L. Ingram Blvd., Suite 100
Cannon Air Force Base, New Mexico 88103-5214

SUBJECT: NO FURTHER ACTION PETITION
CANNON AIR FORCE BASE, NEW MEXICO
EPA ID No.: NMD000804294

Dear Colonel Yates:

The New Mexico Environment Department (NMED) has reviewed Cannon AFB's Class 3 Modification Request - No Further Action Proposals (NFA) submitted on September 5, 2000, as required pursuant to 20.4.2 NMAC. Any document submitted by a facility for review and approval must first pass an initial review to determine if all the required parts are contained in the document and that NMED are available to conduct the review in a timely fashion. Because of the number of solid waste management units (SWMUs) and areas of concern (AOCs) involved and limited resources, NMED has been unable to complete its initial review until recently.

As discussed with your staff, NMED recommends that Cannon resubmit its Petition for NFA Review. Many of the SWMUs and AOCs do not qualify for NFA approval either because these sites have never been adequately investigated, are sites that Cannon has submitted corrective measures studies that have not been reviewed, or are sites at which corrective measures have not yet been completed (see Table 1, Attachment 1). Cannon must conduct additional investigation and/or complete its final remedies before these sites can qualify for a NFA determination.

However, NMED has determined that approximately 35 SWMUs and AOCs appear to qualify for NFA approval (see Table 2, Attachment 1). Cannon has investigated or remediated these sites to NMED's satisfaction and NMED has previously recommended that Cannon submit a NFA petition (see Table 3, Attachment 1). NMED recommends that Cannon submit a new NFA petition for these 35 specific sites only in order to expedite the NFA review and approval process.

There are also several SWMUs and AOCs that Cannon may be able to justify including in its NFA petition with some additional information (see Table 3, Attachment 1), such as the inclusion of an approval letter from another bureau (*e.g.*, USTB).

If you have any questions concerning this letter, please call me at 505-428-2551.

Sincerely,

Glenn von Gonten
CAFB Project Leader
Permits Management Program

GVG:gvg

Attachment

cc: S.Y. Martin, NMED HWB
J. Kieling, NMED HWB
D. Cobrain, NMED HWB
L. King, EPA Region 6 (6PD-N)

File: Reading, CAFB 00-003, CAFB 2004

Section Tab

1

ATTACHMENT 1

NFA NO

TABLE 1 SWMUS AND AOCS THAT DO NOT QUALIFY FOR NFA DETERMINATION		
SWMU/AOC	**DESCRIPTION**	**COMMENTS**
AOC A	MOGAS Spill Site	No. Product spills that are not remediated are SWMUs/AOCs. Nb., Was designated as a SWMU/AOC in permit.
AOC B	JP-4 Fuel Spill	No. Product spills that are not remediated are SWMUs/AOCs. NB., Was designated as a SWMU/AOC in permit.
AOC C	Blown Capacitor Site	No. Product spills that are not remediated are SWMUs/AOCs. NB., Was designated as a SWMU/AOC in permit.
SWMU 2	Recovered Tank No. 108	No. Never Investigated. Need additional RFI phase.
SWMU 4	Recovered Tank No. 121	No. Never Investigated. Need additional RFI phase.
SWMU 31	AGE Maintenance Shop Pad	No. CMS is under review
SWMU 48a	Underground Waste Oil Tank	No. CMS is under review
SWMU 49	Inactive POL Storage Tank No. 4028a	No. Never Investigated. Need additional RFI phase.
SWMU 50	Inactive POL Storage Tank No. 4028b	No. Never Investigated. Need additional RFI phase.
SWMU 75	Sanitary Sewage Lift Station Overflow Pit	No. Never investigated. Cannot NFA accidental spill site that was neither investigated nor cleaned up.
SWMU 77	Civil Engineering Container Storage Area	No. CMS is under review
SWMU 86	Engine Test Cell	No. CMS is under review
SWMU 87	Former Overflow Pit	No. CMS is under review
SWMU 88	Former Leaching Field	No. CMS is under review
SWMU 89	Evaporation Pond	No. CMS is under review
SWMU 90	OWS No. 5114	No. CMS is under review
SWMU 91	Recovered Fuel Tank No. 5114	No. Bulk product AST requires investigation.

TABLE 1 SWMUS AND AOCS THAT DO NOT QUALIFY FOR NFA DETERMINATION		
SWMU/AOC	**DESCRIPTION**	**COMMENTS**
SWMU 97	Concrete Rubble Pile (Landfill 25)	No. CMS is under review.
SWMU 101	Wastewater Treatment System - Lagoons (2)	No. CMS is under review
SWMU 103	Wastewater Playa Lake	No. Eco Risk pending
SWMU 104	Landfill No. 4	No. CMS is under review
SWMU 105	Landfill No. 3	No. CMS is under review
SWMU 109	FTA 4	No. CMS is under review. Not included in NFA petition
SWMU 110	Underground Waste Oil Tank No. 2336 at FTA 4	No. CMS is under review. Not included in NFA Petition
SWMU 111	Unlined Pit at FTA 4	No. CMS is under review
SWMU 112	OWS No. 2336 at FTA 4	No. CMS is under review
SWMU 125	Inactive UST 2	No. Never investigated. UST was abandoned in place. EPA's decision that fuel/product at AST/USTs does not require investigations is not shared by NMED. Must conduct investigation.
SWMU 127	OWS Near Tank 4095 (#1) & Leach field	No. CMS is under review
SWMU 129	Waste Oil Storage Facility 244. Formerly known as AOC "I"	No. CMS is under review. Was not included in NFA Petition

NFA YES

TABLE 2 SWMUS AND AOCS THAT APPEAR TO QUALIFY FOR NFA DETERMINATION		
SWMU/AOC	**DESCRIPTION**	**COMMENTS**
SWMU 1	OWS 119	YES
SWMU 3	OWS 108	YES
SWMU 5	OWS 121	YES
SWMU 7	OWS 129	YES
SWMU 8	OWS 165	YES
SWMU 9	Aircraft Washrack Drain system	YES
SWMU 11	OWS 170	YES
SWMU 16	OWS 680	YES
SWMU 32a	OWS 186 (#1)	YES
SWMU 33b	OWS 186 (#2)	YES
SWMU 38	OWS 194	YES
SWMU 39	OWS 195	YES
SWMU 46	OWS 196	YES
SWMU 47	OWS 494	YES
SWMU 48b	Above Ground Overflow Capacity Tank	YES
SWMU 51	OWS 375	YES
SWMU 55	Lead Acid Battery Accumulation Point	YES
SWMU 57	OWS 379	YES
SWMU 61	OWS 5077a	YES
SWMU 62	OWS 5077b	YES
SWMU 63	OWS 5077c	YES
SWMU 70	OWS and Leach Field 326	YES
SWMU 74	Landfill No. 1	YES
SWMU 83	Sump	YES
SWMU 92	OWS No. 5120	YES

Bio-venting

25

TABLE 2 SWMUS AND AOCS THAT APPEAR TO QUALIFY FOR NFA DETERMINATION		
SWMU/AOC	**DESCRIPTION**	**COMMENTS**
SWMU 93	OWS No. 5121	YES
SWMU 94	OWS No. 5144	YES
SWMU 108	Explosive Ordinance Disposal Activities Area	YES, but was not included in NFA Petition.
SWMU 113	Landfill 5 Cell 3	YES
AOC D	Asbestos Burial Pit	YES. Listed on Table 2 of CAFB's HSWA Permit
AOC E	Runway Rubble Pile	YES. Listed on Table 2 of CAFB's HSWA Permit
AOC F	Gunsight Target Berm	YES. Listed on Table 2 of CAFB's HSWA Permit
AOC G	NEW SWMU Report 05/15/97	YES
AOC H	NEW SWMU Report 05/15/97	YES
DP-33		Yes. GWQB Approved NFA proposal on 12/12/1996

Still using

35

NFA MAYBE

TABLE 3 SWMUS AND AOCS THAT MAY QUALIFY FOR NFA DETERMINATION		
SWMU/AOC	**DESCRIPTION**	**COMMENTS**
SWMU 6	POL Tank No. 129	Maybe. Additional documentation required. Need UST Close Out Report.
SWMU 10	POL Tank No. 170	Maybe. Never investigated Removed IAW UST Regulations. Additional documentation required. Need UST Close out report.
SWMU 34	AGE Drainage Ditch	Maybe. Additional documentation required.
SWMU 36	MWR Auto Body Shop	Maybe. Additional documentation required.
SWMU 71	Recovered JP-4 Fuel Tank No. 390	Maybe. Duplicate of SWMU 72. Need to document the NFA petition conclusions in a Report.
SWMU 72	OWS 390	Maybe. Additional documentation is needed to show that SWMU 71 is a duplicate of SWMU 72 in a RFI Report.
SWMU 76	Sludge Weathering Pit	Maybe. Additional documentation required.
SWMU 78	FTA 1	Maybe. Additional documentation required.
SWMU 79	UST at FTA 1	Maybe. Never Investigated - never existed? NFA Petition states that this SWMU did not exist. Additional documentation required.
SWMU 81	Solvent Disposal Site	Maybe. Additional documentation required.
SWMU 82	Landfill No. 2	Maybe. Additional documentation required.
SWMU 85	Stormwater Collection Point	Maybe. CAFB presumed that EPA's lack of response indicated acceptance. Additional documentation required.
SWMU 95	NE Stormwater Drainage Area	Maybe. Additional documentation required.

TABLE 3 SWMUS AND AOCS THAT MAY QUALIFY FOR NFA DETERMINATION		
SWMU/AOC	**DESCRIPTION**	**COMMENTS**
SWMU 96	Old Entomology Rinse Area	Maybe. Additional documentation required.
SWMU 98	Sanitary Sewage Line	Maybe. Additional documentation required.
SWMU 102	Wastewater Treatment Effluent Discharge	Maybe. Additional documentation required.
SWMU 106	FTA 2	Maybe, but CAFB must supply copy of approved 1994 RFI Work Plan and subsequent RFI Report
SWMU 107	FTA 3	Maybe, but CAFB must supply copy of approved 1994 RFI Work Plan and subsequent RFI Report
SWMU 124	Inactive UST 1 Duplicate of SWMU 48A	Maybe. Assertion that SWMU 124 is a duplicate of SWMU 48A has not been previously documented.
SWMU 126	Inactive UST 3 Closed in accordance with NMED UST regulations	Maybe for Criterion 4. Must provide UST close out report. EPA's opinion that an investigation at fuel/product ASTs/USTs is not required is not shared by NMED.
SWMU 128	OWS Near Tank 4095 (#2) & Leach Field	Maybe. Additional documentation required.

FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE

ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau ENTERED

BILL RICHARDSON
Governor

DIANE DENISH
Lieutenant Governor

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

RON CURRY
Secretary

JON GOLDSTEIN
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

March 30, 2009

Colonel Timothy J. Leahy
27th Special Operations Wing
100 South D.L. Ingram Boulevard
Cannon Air Force Base, New Mexico 88103-5214

RE: APPROVAL
FINAL REPORT
SUPPLEMENTAL ASSESSMENT OF AREAS OF CONCERN A, B, & C
CANNON AIR FORCE BASE, EPA ID NO. NM7572124454
HWB-CAFB-08-005

Dear Mr. Leahy:

The New Mexico Environment Department (NMED) reviewed the Department of the Air Force's (Permittee) submittal *Final Report Supplemental Assessment of Areas of Concern (AOCs) A, B, and C* (the Report), dated December 2005. Based on the information provided in the Report, AOCs A, B, and C have been investigated and all detected soil contaminants were reported at concentrations below residential New Mexico Soil Screening Levels (NMSSLs). At this time, NMED will continue with the review of the Permittee's permit modification request (*Corrective Action Complete Proposals*, July 2008) that requests corrective action complete status for AOCs A, B, and C.

If you have any questions regarding this letter, please call Pat Stewart at (505) 476-6059.

Sincerely,

John E. Kieling
Program Manager
Permits Management Program
Hazardous Waste Bureau

cc: P. Stewart, NMED HWB
D. Cobrain, NMED HWB
Jerry Pelfrey, CAFB
File: CAFB 2009 and Reading
CAFB-08-005

CANNON AFB
NEW MEXICO

ADMINISTRATIVE RECORD
COVER SHEET

AR File Number 1473

NEW MEXICO
ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

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

BILL RICHARDSON
Governor

DIANE DENISH
Lieutenant Governor

RON CURRY
Secretary

JON GOLDSTEIN
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

September 14, 2009

Mr. Ronald A. Lancaster
27 SOCES/CEA
506 N DL Ingram Blvd
Cannon Air Force Base, New Mexico 88103-5003

RE: REQUIREMENT FOR FURTHER CORRECTIVE ACTION, CORRECTIVE ACTION COMPLETE PROPOSALS, JULY 2008 CANNON AIR FORCE BASE, EPA ID NO. NM7572124454 HWB-CAFB-08-004

Dear Mr. Lancaster:

The New Mexico Environment Department (NMED) has completed its review of Cannon Air Force Base's (Permittee) *Corrective Action Completion Proposals,* dated July 2008. Based on the review, one Solid Waste Management Unit (SWMU 129) and one Area of Concern (AOC A) proposed by the Permittee are not appropriate for Corrective Action Complete (CAC) status.

AOC A, MOGAS Spill Site (SS-19)

AOC A is the site of two motor gasoline (MOGAS) spills that occurred in the early 1960s. The site is relatively flat and much of it is paved with asphalt. The portion not paved is a drainage swale extending to the southeast through a grassy area in the southern portion of the site. Construction of a gymnasium and associated pavement along Argentia Avenue changed the physical features of the spill area. Part of the drainage swale where the spills occurred is now located beneath pavement and a portion of the area exists as a small depression along the side of Argentia Avenue.

The Permittee's proposal that AOC A is appropriate for CAC status is based on results of investigations conducted in 1985 and in 2005. Results of the investigations were reported in the Permittee's *Decision Document, MOGAS Spill AOC A/IRP No. SS-19, Cannon Air Force Base, HARZA Environmental Services, January 1997* and in *Supplemental Assessment of Areas of Concern A, B, & C, Cannon Air Force Base, URS Group, Inc. December 2005*. Results of both investigations indicate that lead and various volatile organic compounds (VOCs) were detected at concentrations below NMED soil screening levels (SSLs) for a residential land use scenario. However, no ecological risk screening was conducted by the Permittee.

Since the Permittee does not have eco risk screening values for the facility, NMED compared the maximum concentrations of detected lead and VOCs to the Los Alamos National Laboratory Ecorisk Database (Version 2.3, October 2008) and determined that lead detected in surface soil in 1985 exceeds the risk-based ecological screening level (range of 14 to 21 mg/kg). The surface soil sample where an elevated lead concentration was detected was collected in the drainage swale that runs alongside Argentia Avenue and is not covered by asphalt. The Permittee must conduct ecological risk screening for AOC A.

The lead contamination was a result of a surface spill, but only one surface soil sample (0-1.0 feet below ground surface) was collected in 1985 and no surface soil samples were collected in the 2005 investigation. The Permittee did not define the lateral extent of lead contamination for surface soil. It is not clear if lead-contaminated soil was removed and/or diluted by construction activities conducted subsequent to the 1985 investigation.

Further, analyses of soil samples collected in 2005 indicated that chloroform concentrations exceed the New Mexico generic Migration to Groundwater Dilution Attenuation Factor (DAF) of 20 SSL. Use of the SSL listed for a DAF of 20 for comparison is advised unless site-specific data on hydrologic conditions are available indicating that the DAF of 20 is not representative of site conditions. The Permittee must generate and compare a site-specific DAF for chloroform.

Until such time that (1) the surface soil in the drainage swale alongside Argentia Avenue is sampled and results indicate that lead is not present in concentrations exceeding the risk-based ecological screening level for lead or until the Permittee provides documentation indicating that lead-contaminated soil was removed or substantially disturbed during construction activities since 1985, and (2) comparison of chloroform concentrations to a site-specific DAF indicates that site conditions are protective of ground water, AOC A will not be considered for Corrective Action Complete status.

SWMU 129, Reported Oil/Water Separator and Associated Leach Field

Bulk waste oil was dumped into collection pits equipped with strainers at SWMU 129. From the pits, oil drained into the oil/water (O/W) separator which was then pumped through supply pipes into five above ground storage tanks. The water fraction, segregated by the O/W separator, exited through a port in the west side of the structure and flowed into a leach field located to the southeast of the facility. The leach field consisted of perforated plastic piping surrounded by crushed stone that allowed the water to be discharged into the subsurface and percolate into underlying soils.

The Permittee's proposal that SWMU 129 is appropriate for CAC status is based on results presented in its *Closeout Report / Contamination Assessment, SWMU 129 – Facility 244, Aboveground Tank Storage Area, Cannon Air Force Base, Clovis, New Mexico, July 19, 2000.* The NMED reviewed the cited report and could not determine if the leach field was sampled for presence of potential contaminants. The report described soil sample locations as: northeast corner of pad, southeast corner of pad, center of pad, northwest corner of pad, southwest corner of pad, north of O/W separator, south of O/W separator and east of O/W separator. The soil sample location nearest the leachfield appears to be Sample Number 2, Southeast Corner of Pad. Sample Number 2 was further described in Figure 4-2, Plan View of Facility 244 Showing Soil Sampling Locations, as "3 feet north of south fence, 4 feet, 3 inches west of east fence". Figure 4-2 indicates that it is not to scale. Figure 4-2 does not indicate the location of the referenced south fence or east fence nor does it indicate the position of the leach field.

It is unclear whether or not the leach field was sampled. If the leach field was not sampled or was not adequately investigated, the NMED considers the investigation of SWMU 129 incomplete. Until such time that the Permittee provides documentation that the leach field was adequately sampled and the results of such sampling demonstrate that contaminants are not present at concentrations exceeding appropriate cleanup criteria, SWMU 129 will not be considered for Corrective Action Complete status.

NMED will proceed with preparation of a Statement of Basis and Public Notice to change the status of the other twelve sites proposed for Corrective Action Complete in the Permittee's July 2008 submittal.

If you have any questions regarding the content of this letter, please call Pat Stewart at (505) 476-6059.

Sincerely,

John E. Kieling
Program Manager
Permits Management Program
Hazardous Waste Bureau

cc: P. Stewart, NMED HWB
N. Dhawan, NMED HWB
D. Cobrain, NMED HWB
H. Hanson, CAFB
File: CAFB 2009 and Reading
CAFB-08-004

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CANNON AFB
NEW MEXICO

ADMINISTRATIVE RECORD
COVER SHEET

AR File Number 1372

NEW MEXICO
ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

BILL RICHARDSON
Governor

DIANE DENISH
Lieutenant Governor

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

RON CURRY
Secretary

JON GOLDSTEIN
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

May 14, 2008

Colonel Timothy J. Leahy
27th Special Operations Wing
100 South D.L. Ingram Boulevard
Cannon Air Force Base, New Mexico 88103-5214

RE: APPROVAL WITH DIRECTION
RCRA FACILITY INVESTIGATION FOR 21 SWMUs
CANNON AIR FORCE BASE, NEW MEXICO
EPA ID NM7572124454
HWB-CAFB-06-007

Dear Mr. Leahy:

The New Mexico Environment Department (NMED) has reviewed the Department of the Air Force's (Permittee) *Final Revision 1 RCRA Facility Investigation for 21 SWMUs* (Report), dated October 2007. NMED hereby approves this Report with the following additional direction.

Corrective Action Complete without Controls status can only be achieved if all hazardous constituents are detected below their residential New Mexico Soil Screening Levels (NMSSLs). Solid Waste Management Units (SWMUs) included in this Report that are eligible for Corrective Action Complete without Controls status are SWMU 10, SWMU 50, SWMU 72, SWMU 75, SWMU 81, SWMU 98, SWMU 104 and SWMU 125. NMED recommends the Permittee petition for Corrective Action Complete without Controls status for the above listed SWMUs.

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Code for LTM

(suppose to be SWMU 106/FT-07

Corrective Action Complete with Controls status can be achieved if the hazardous constituents detected at a SWMU are between residential and industrial NMSSLs. The SWMUs included in

this Report that are eligible for Corrective Action Complete with Controls status are SWMU 2, SWMU 4, SWMU 6, SWMU 82, SWMU 96, and SWMU 102. The Permittee may petition for Corrective Action Complete with Controls status for the above listed SWMUs.

The SWMUs included in this Report that require additional investigation and/or clean-up activities are SWMU 34, SWMU 78, SWMU 85, [redacted], SWMU 95, and SWMU 107. A March 2008 work plan for these sites was submitted by the Permittee on April 4, 2008.

SWMU 49, along with SWMUs 48A and 48B, is identified as one of the former storage tanks associated with Facility No. 4028. Investigation activities for SWMU 48A are currently on-going, therefore NMED recommends that the Permittee delay submitting a petition for Corrective Action Compete status for SWMU 49 until after investigation and/or clean-up activities are complete at the site.

If you have any questions regarding this letter, please call Cheryl Frischkorn at (505) 476-6058.

Sincerely,

John E. Kieling
Program Manager
Permits Management Program
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
C. Frischkorn, NMED HWB
Gerald Pelfrey, CAFB
File: CAFB 2008 and Reading
HWB-CAFB-06-007

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NEW MEXICO ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

BILL RICHARDSON
Governor

DIANE DENISH
Lieutenant Governor

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

RON CURRY
Secretary

SARAH COTTRELL
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

June 7, 2010

Ronald Lancaster
27 SOCES/CEA
506 N. DL Ingram Blvd.
Cannon AFB, New Mexico 88103-5003

RE: NOTICE OF APPROVAL
FINAL RCRA FACIITY INVESTIGATION FOR SWMUS 34, 78, 85, 91, 95, AND 107 ADDENDUM REPORT, MAY 2010
CANNON AIR FORCE BASE, NEW MEXICO
EPA ID #NM7572124454
HWB-CAFB-06-007

Dear Mr. Lancaster:

The New Mexico Environment Department (NMED) has received Cannon Air Force Base's (Permittee) *Final RCRA Facility Investigation for SWMUs 34, 78, 85, 91, 95, and 107 Addendum Report* dated May 2010 (Report). NMED has reviewed the RFI Addendum Report and hereby issues this Notice of Approval. NMED provides comments presented below.

Comment 1. Section 6.3.2, Page 6-3 and Section 7.3.2, Page 7-3:

The third sentence in the first paragraph of these two sections indicate that the NMED residential screening guideline for unknown oil is 800 mg/kg. The correct value is 200 mg/kg, not 800 mg/kg.

The maximum detected concentration of total petroleum hydrocarbon diesel range organics (TPH-DRO) at both sites discussed in sections 6 and 7 were below the screening value for residential direct exposure, 520 mg/kg. Therefore, conclusions remain the same.

Comment 2. Tables 6-2, 7-2, 9-2 and 11-2:

Tables 6-2, 7-2, 9-2 and 11-2 list Soil Screening Level / Total Petroleum Hydrocarbon (SSL/TPH) values for diesel hydrocarbons residential and industrial direct exposure, in the second and third data columns respectively, as 1800 mg/kg and 2000 mg/kg. The correct values are 520 mg/kg for residential direct exposure and 1120 for industrial direct exposure. However, when maximum detected concentrations are compared to correct screening values conclusions of the Report remain the same.

Further, the footnote for the second and third data columns reference NMED TPH Soil Screening Guidelines (June, 2006). The correct reference date is October, 2006.

Comment 3. Table 11-2:

There is no applicable screening value for residential or industrial direct exposure for gasoline range organics or total petroleum hydrocarbons. Values for these components shown in Table 11-2 are incorrect. However, when comparing maximum detected concentrations with correct screening values the conclusions of the Report do not change.

The Permittee must use correct screening values and reference dates in future reports.

Please contact Pat Stewart at (505) 476-6059, should you have any questions.

Sincerely,

John E. Kieling
Program Manager
Permits Management Program
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
P. Stewart, NMED HWB
H. Hanson, CAFB
File: CAFB 2010 and Reading

NEW MEXICO ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

BILL RICHARDSON
Governor

DIANE DENISH
Lieutenant Governor

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

RON CURRY
Secretary

SARAH COTTRELL
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

March 30, 2010

Ronald Lancaster
27 SOCES/CEA
506 N. DL Ingram Blvd.
Cannon AFB, New Mexico 88103-5003

RE: EXTENSION REQUEST APPROVAL
FOR THE SUBMITTAL OF A REVISED RCRA FACILITY INVESTIGATION ADDENDUM REPORT FOR SWMUS 34, 78, 85, 91, 95 AND 107
CANNON AIR FORCE BASE, EPA ID NO. NM7572124454
CAFB 06-007

Dear Mr. Lancaster:

The New Mexico Environment Department (NMED) received, on March 29, 2010, the Department of the Air Force's (Permittee) *Request for Extension.* The Permittee requests additional time to submit a revised RCRA Facility Investigation Addendum Report for SWMUs 34, 78, 85, 91, 95 and 107.

NMED hereby approves this extension request. The Permittee must submit a revised RCRA Facility Investigation Addendum Report for SWMUs 34, 78, 85, 91, 95 and 107 to NMED no later than May 17, 2010.

If you have any questions regarding this letter, please call Pat Stewart at (505) 476-6059.

Sincerely,

John E. Kieling
Program Manager
Permits Management Program
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
P. Stewart, NMED HWB
H. Hanson, CAFB
File: CAFB 06-007 and Reading

NEW MEXICO ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

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

SUSANA MARTINEZ
Governor

JOHN A. SANCHEZ
Lieutenant Governor

DAVE MARTIN
Cabinet Secretary

BUTCH TONGATE
Deputy Secretary

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

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

November 16, 2012

Colonel David C. Piech, Commander
27th Special Operations Mission Support Group
110 E. Sextant Avenue, Building 600, Suite 1098
Cannon Air Force Base, New Mexico 88103

RE: APPROVAL
REVISED PLAYA LAKE (SWMU 103) PHASE III
RCRA FACILITY INVESTIGATION REPORT
CANNON AIR FORCE BASE, NEW MEXICO
CURRY COUNTY, NEW MEXICO
EPA ID #NM7572124454
HWB-CAFB-11-001

Dear Col. Piech:

The New Mexico Environment Department (NMED) has received the Cannon Air Force Base (Permittee) *Revised Playa Lake (SWMU 103) Phase III RCRA Facility Investigation Report* (IR), dated October 2011 and received February 2, 2012. NMED has completed review of the IR and hereby approves the IR. NMED agrees that further site evaluation is not needed at this time. In the event the Permittee decides to submit a future petition for designating the site status as Corrective Action Complete (with or without controls), be advised that the petition must include a summary of previous investigative findings which support such a designation.

If you have any questions regarding this letter, please contact Daniel Comeau at (505) 476-6043.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
D. Comeau, NMED HWB
L. King, EPA 6PD-N
R. Lancaster, CAFB
M. Higginbotham, CAFB

File: CAFB 2012; NoA; SWMU 103, Playa Lake Ph 3 RFI

NEW MEXICO ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

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

SUSANA MARTINEZ
Governor

JOHN A. SANCHEZ
Lieutenant Governor

DAVE MARTIN
Secretary

BUTCH TONGATE
Deputy Secretary

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

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

October 25, 2012

Colonel David C. Piech
27th Special Operations Mission Support Group
110 E. Sextant Avenue, Building 600, Suite 1098
Cannon Air Force Base, New Mexico 88103

RE: APPROVAL WITH MODIFICATIONS
PHASE II SUPPLEMENTAL ASSESSMENT AT AREA OF CONCERN A (SS-19)
CANNON AIR FORCE BASE, NEW MEXICO
EPA ID # NM7572124454
HWB-CAFB-12-001

Dear Col. Piech:

The New Mexico Environment Department (NMED) has completed a review Cannon Air Force Base's (Permittee) *Phase II Supplemental Assessment at Area of Concern A (SS-19)* (Report) dated February 22, 2012. NMED hereby issues this approval with modifications with the following comments.

Table 3-2 (Summary of Analytical Data Screening Results, Phase II Supplemental Assessment at AOC A (SS-19), Cannon Air Force Base, New Mexico) indicates that results exceed Los Alamos National Laboratory Ecological Screening Levels (LANL ESL)'s. In **Section 3.3 Screening Results, bottom of page 3-1, top of page 3-2** the Permittee states "[t]he maximum lead concentration (1.2E+02 mg/kg) is below the NMED residential screening level for lead (4.00E=02 mg/kg)…[f]ive of the six surface soil samples from AOC A were above LANL ESL's…[t]he following LANL ESLs were exceeded: American robin…and Montane shrew…" In **Section 3.4.1 Qualitative Assessment Checklists, pages 3-2 through 3-5** the Permittee describes how NMED's Scoping Site Assessment Checklist and Ecological Site Exclusion Checklist were used to assist in the qualitative assessment phase to determine that further ecological assessment or risk screening were warranted for Area of Concern (AOC) A

(SS-19).

Since the initial screening resulted in slightly elevated hazard quotients (HQ)s, NMED conducted a refined ERA (see Attachment 1). The results of the refined ecological risk assessment (ERA) determined that the calculated ecological HQs would be well below target levels for both individual American robin and Montane shrew receptors and populations based on a more refined assessment, indicating that lead in soil at AOC A (SS-19) would not likely pose ecological risk. Therefore, the conclusion of the baseline ERA presented in the *Phase II Supplemental Assessment at Area of Concern (AOC) A*, as clarified with this assessment, is adequate and would meet NMED requirements for approval.

No response to this letter is necessary. If you have any questions regarding this letter, please call Dave Cobrain of my staff at (505) 476-6055.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

Attachment 1: New Mexico Environment Department's Refined Ecological Risk Assessment for AOC A (SS-19), Cannon Air Force Base, New Mexico

cc: D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
L. Andress, NMED HWB
M. Higginbotham, CAFB
R. Lancaster, CAFB

File: CAFB 2012 and Reading
CAFB-12-001

New Mexico Environment Department's Refined Ecological Risk Assessment for AOC A (SS-19), Cannon Air Force Base, New Mexico

The baseline (ecological risk assessment (ERA) presented in Cannon Air Force Base (CAFB)'s *Phase II Supplemental Assessment at AOC A (SS-19)*, dated February 2012 concluded that the site would provide little or no suitable foraging habitat since the site is industrially developed: 67% of the site is covered in roads/parking lots/buildings, and the remaining 33% consists of regularly maintained lawns. Therefore, further ecological evaluation was not conducted at AOC A. Because detected concentrations of lead in four of the additional soil samples slightly exceeded Los Alamos National Laboratory's (LANL's) Ecological Screening Levels (ESLs) for the American robin and the Montane shrew the New Mexico Environment Department (NMED) conducted a refined ecological risk assessment (ERA) for Area of Concern (AOC) A.

While the site may potentially provide some foraging habitat for ecological receptors, it is agreed that it would not be significant due to the limited area (possibility of 33% of the site) and the relatively small size of the site. The assessment provided by CAFB was limited to an initial screening (Tier 1) based on conservative toxicity data No-Observed Adverse Effect Levels (NOAELs). Because the initial screening did result in slightly elevated hazard quotients (HQs), further quantitative ecological evaluation should have been conducted for the American robin and Montane shrew receptors using an application of lowest observed adverse effect levels (LOAELs) and area use and population area use factors.

NMED assumed that the average home ranges consist of 1.1 acres for the American Robin and 0.96 acres for the Montane shrew. In addition, NMED assumed that only 33% of the acreage at the site was suitable for habitat. Using modifications of the area use factors and population use factors along with LOAEL-based LANL ESLs, more refined HQs were calculated as shown in the below tables.

Table 1 - Refined HQ for American Robin, Insectivore.

Constituent	Maximum (mg/kg)	LOAEL-based ESL American Robin (Avian Insectivore) (mg/kg)	AUF	PAUF	Adjusted Individual HQ	Adjusted Population HQ
Lead	1.12E+02	2.80E+01	1.80E-01	4.50E-03	7.20E-01	1.80E-02

ESL = LANL ecological screening level based on LOAEL.

AUF (area use factor) = exposure area/home range. Exposure area is 33% of site area (0.6 acre) = 0.2 acre. Average home range for American robin is 1.1 acre (USEPA, 1993).

PAUF (population area use factor) = exposure area/population area. Exposure area is 33% of 0.6 acre = 0.2 acre. Population area for American robin is 44 acres (USEPA, 1993).

Table 2 - Refined HQ for American Robin, Omnivore.

Constituent	Maximum (mg/kg)	LOAEL-based ESL American Robin (Avian Omnivore) (mg/kg)	AUF	PAUF	Adjusted Individual HQ	Adjusted Population HQ
Lead	1.12E+02	3.30E+01	1.80E-01	4.50E-03	6.11E-01	1.53E-02

ESL = LANL ecological screening level based on LOAEL.

AUF = exposure area/home range. Exposure area is 33% of site area (0.6 acre) = 0.2 acre. Average home range for American robin is 1.1 acre (USEPA, 1993).

PAUF = exposure area/population area. Exposure area is 33% of site area (0.6 acre) = 0.2 acre. Population area for American robin is 44 acres (USEPA, 1993).

Table 3 - Refined HQ for American Robin, Herbivore.

Constituent	Maximum (mg/kg)	LOAEL-based ESL American Robin (Avian Herbivore) (mg/kg)	AUF	PAUF	Adjusted Individual HQ	Adjusted Population HQ
Lead	1.12E+02	4.20E+01	1.80E-01	4.50E-03	4.80E-01	1.20E-02

ESL = LANL ecological screening level based on LOAEL.

AUF = exposure area/home range. Exposure area is 33% of site area (0.6 acre) = 0.2 acre. Average home range for American robin is 1.1 acre (USEPA, 1993).

PAUF = exposure area/population area. Exposure area is 33% of site area (0.6 acre) = 0.2 acre. Population area for American robin is 44 acres (USEPA, 1993).

Table 4 - Refined HQ for Montane Shrew.

Constituent	Maximum (mg/kg)	LOAEL-based ESL Montane Shrew (mg/kg)	AUF	PAUF	Adjusted Individual HQ	Adjusted Population HQ
Lead	1.12E+02	1.30E+02	2.08E-01	5.00E-03	1.79E-01	4.31E-03

ESL = LANL ecological screening level based on LOAEL.

AUF = exposure area/home range. Exposure area is 33% of site area (0.6 acre) = 0.2 acre. Average home range for Montane shrew is 0.96 acre (USEPA, 1993).

PAUF = exposure area/population area. Exposure area is 33% of site area (0.6 acre) = 0.2 acre. Population area for Montane shrew is 39 acres (USEPA, 1993).

Reference: US EPA, 1993. *Wildlife Exposure Factors Handbook.* EPA/600/R-93/187. December.

The calculated ecological HQs would be well below target levels for both individual American robin and Montane shrew receptors and populations based on a more refined assessment, indicating that lead in soil at AOC A would not likely pose ecological risk. Therefore, the conclusion of the baseline ERA presented in the *Phase II Supplemental Assessment at Area of Concern (AOC) A*, as clarified with this assessment, is adequate and would meet NMED requirements for approval.

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P.Z.

CANNON AFB
NEW MEXICO

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AR File Number 874

874 1 AR# 874

State of New Mexico
ENVIRONMENT DEPARTMENT
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303
Telephone (505) 428-2500
Fax (505) 428-2567
www.nmenv.state.nm.us

BILL RICHARDSON
GOVERNOR

RON CURRY
SECRETARY

DERRITH WATCHMAN-MOORE
DEPUTY SECRETARY

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

January 12, 2004

Colonel Robert Yates
Commander, 27th Fighter Wing
100 D.L. Ingram Blvd., Suite 100
Cannon Air Force Base, New Mexico 88103-5214

SUBJECT: NO FURTHER ACTION PETITION
CANNON AIR FORCE BASE, NEW MEXICO
EPA ID No.: NMD000804294

Dear Colonel Yates:

The New Mexico Environment Department (NMED) has reviewed Cannon AFB's Class 3 Modification Request - No Further Action Proposals (NFA) submitted on September 5, 2000, as required pursuant to 20.4.2 NMAC. Any document submitted by a facility for review and approval must first pass an initial review to determine if all the required parts are contained in the document and that NMED are available to conduct the review in a timely fashion. Because of the number of solid waste management units (SWMUs) and areas of concern (AOCs) involved and limited resources, NMED has been unable to complete its initial review until recently.

As discussed with your staff, NMED recommends that Cannon resubmit its Petition for NFA Review. Many of the SWMUs and AOCs do not qualify for NFA approval either because these sites have never been adequately investigated, are sites that Cannon has submitted corrective measures studies that have not been reviewed, or are sites at which corrective measures have not yet been completed (see Table 1, Attachment 1). Cannon must conduct additional investigation and/or complete its final remedies before these sites can qualify for a NFA determination.

However, NMED has determined that approximately 35 SWMUs and AOCs appear to qualify for NFA approval (see Table 2, Attachment 1). Cannon has investigated or remediated these sites to NMED's satisfaction and NMED has previously recommended that Cannon submit a NFA petition (see Table 3, Attachment 1). NMED recommends that Cannon submit a new NFA petition for these 35 specific sites only in order to expedite the NFA review and approval process.

There are also several SWMUs and AOCs that Cannon may be able to justify including in its NFA petition with some additional information (see Table 3, Attachment 1), such as the inclusion of an approval letter from another bureau (*e.g.*, USTB).

If you have any questions concerning this letter, please call me at 505-428-2551.

Sincerely,

Glenn von Gonten
CAFB Project Leader
Permits Management Program

GVG:gvg

Attachment

cc: S.Y. Martin, NMED HWB
J. Kieling, NMED HWB
D. Cobrain, NMED HWB
L. King, EPA Region 6 (6PD-N)

File: Reading, CAFB 00-003, CAFB 2004

Section Tab

1

ATTACHMENT 1

NFA NO

TABLE 1 SWMUS AND AOCS THAT DO NOT QUALIFY FOR NFA DETERMINATION		
SWMU/AOC	**DESCRIPTION**	**COMMENTS**
AOC A	MOGAS Spill Site	No. Product spills that are not remediated are SWMUs/AOCs. Nb., Was designated as a SWMU/AOC in permit.
AOC B	JP-4 Fuel Spill	No. Product spills that are not remediated are SWMUs/AOCs. NB., Was designated as a SWMU/AOC in permit.
AOC C	Blown Capacitor Site	No. Product spills that are not remediated are SWMUs/AOCs. NB., Was designated as a SWMU/AOC in permit.
SWMU 2	Recovered Tank No. 108	No. Never Investigated. Need additional RFI phase.
SWMU 4	Recovered Tank No. 121	No. Never Investigated. Need additional RFI phase.
SWMU 31	AGE Maintenance Shop Pad	No. CMS is under review
SWMU 48a	Underground Waste Oil Tank	No. CMS is under review
SWMU 49	Inactive POL Storage Tank No. 4028a	No. Never Investigated. Need additional RFI phase.
SWMU 50	Inactive POL Storage Tank No. 4028b	No. Never Investigated. Need additional RFI phase.
SWMU 75	Sanitary Sewage Lift Station Overflow Pit	No. Never investigated. Cannot NFA accidental spill site that was neither investigated nor cleaned up.
SWMU 77	Civil Engineering Container Storage Area	No. CMS is under review
SWMU 86	Engine Test Cell	No. CMS is under review
SWMU 87	Former Overflow Pit	No. CMS is under review
SWMU 88	Former Leaching Field	No. CMS is under review
SWMU 89	Evaporation Pond	No. CMS is under review
SWMU 90	OWS No. 5114	No. CMS is under review
SWMU 91	Recovered Fuel Tank No. 5114	No. Bulk product AST requires investigation.

TABLE 1 SWMUS AND AOCS THAT DO NOT QUALIFY FOR NFA DETERMINATION		
SWMU/AOC	**DESCRIPTION**	**COMMENTS**
SWMU 97	Concrete Rubble Pile (Landfill 25)	No. CMS is under review.
SWMU 101	Wastewater Treatment System - Lagoons (2)	No. CMS is under review
SWMU 103	Wastewater Playa Lake	No. Eco Risk pending
SWMU 104	Landfill No. 4	No. CMS is under review
SWMU 105	Landfill No. 3	No. CMS is under review
SWMU 109	FTA 4	No. CMS is under review. Not included in NFA petition
SWMU 110	Underground Waste Oil Tank No. 2336 at FTA 4	No. CMS is under review. Not included in NFA Petition
SWMU 111	Unlined Pit at FTA 4	No. CMS is under review
SWMU 112	OWS No. 2336 at FTA 4	No. CMS is under review
SWMU 125	Inactive UST 2	No. Never investigated. UST was abandoned in place. EPA's decision that fuel/product at AST/USTs does not require investigations is not shared by NMED. Must conduct investigation.
SWMU 127	OWS Near Tank 4095 (#1) & Leach field	No. CMS is under review
SWMU 129	Waste Oil Storage Facility 244. Formerly known as AOC "I"	No. CMS is under review. Was not included in NFA Petition

NFA YES

TABLE 2 SWMUS AND AOCS THAT APPEAR TO QUALIFY FOR NFA DETERMINATION		
SWMU/AOC	**DESCRIPTION**	**COMMENTS**
SWMU 1	OWS 119	YES
SWMU 3	OWS 108	YES
SWMU 5	OWS 121	YES
SWMU 7	OWS 129	YES
SWMU 8	OWS 165	YES
SWMU 9	Aircraft Washrack Drain system	YES
SWMU 11	OWS 170	YES
SWMU 16	OWS 680	YES
SWMU 32a	OWS 186 (#1)	YES
SWMU 33b	OWS 186 (#2)	YES
SWMU 38	OWS 194	YES
SWMU 39	OWS 195	YES
SWMU 46	OWS 196	YES
SWMU 47	OWS 494	YES
SWMU 48b	Above Ground Overflow Capacity Tank	YES
SWMU 51	OWS 375	YES
SWMU 55	Lead Acid Battery Accumulation Point	YES
SWMU 57	OWS 379	YES
SWMU 61	OWS 5077a	YES
SWMU 62	OWS 5077b	YES
SWMU 63	OWS 5077c	YES
SWMU 70	OWS and Leach Field 326	YES
SWMU 74	Landfill No. 1	YES
SWMU 83	Sump	YES
SWMU 92	OWS No. 5120	YES

Bio-venting

25

TABLE 2 SWMUS AND AOCS THAT APPEAR TO QUALIFY FOR NFA DETERMINATION		
SWMU/AOC	**DESCRIPTION**	**COMMENTS**
SWMU 93	OWS No. 5121	YES
SWMU 94	OWS No. 5144	YES
SWMU 108	Explosive Ordinance Disposal Activities Area	YES, but was not included in NFA Petition.
SWMU 113	Landfill 5 Cell 3	YES
AOC D	Asbestos Burial Pit	YES. Listed on Table 2 of CAFB's HSWA Permit
AOC E	Runway Rubble Pile	YES. Listed on Table 2 of CAFB's HSWA Permit
AOC F	Gunsight Target Berm	YES. Listed on Table 2 of CAFB's HSWA Permit
AOC G	NEW SWMU Report 05/15/97	YES
AOC H	NEW SWMU Report 05/15/97	YES
DP-33		Yes. GWQB Approved NFA proposal on 12/12/1996

Still using

35

NFA MAYBE

TABLE 3 SWMUS AND AOCS THAT MAY QUALIFY FOR NFA DETERMINATION		
SWMU/AOC	**DESCRIPTION**	**COMMENTS**
SWMU 6	POL Tank No. 129	Maybe. Additional documentation required. Need UST Close Out Report.
SWMU 10	POL Tank No. 170	Maybe. Never investigated Removed IAW UST Regulations. Additional documentation required. Need UST Close out report.
SWMU 34	AGE Drainage Ditch	Maybe. Additional documentation required.
SWMU 36	MWR Auto Body Shop	Maybe. Additional documentation required.
SWMU 71	Recovered JP-4 Fuel Tank No. 390	Maybe. Duplicate of SWMU 72. Need to document the NFA petition conclusions in a Report.
SWMU 72	OWS 390	Maybe. Additional documentation is needed to show that SWMU 71 is a duplicate of SWMU 72 in a RFI Report.
SWMU 76	Sludge Weathering Pit	Maybe. Additional documentation required.
SWMU 78	FTA 1	Maybe. Additional documentation required.
SWMU 79	UST at FTA 1	Maybe. Never Investigated - never existed? NFA Petition states that this SWMU did not exist. Additional documentation required.
SWMU 81	Solvent Disposal Site	Maybe. Additional documentation required.
SWMU 82	Landfill No. 2	Maybe. Additional documentation required.
SWMU 85	Stormwater Collection Point	Maybe. CAFB presumed that EPA's lack of response indicated acceptance. Additional documentation required.
SWMU 95	NE Stormwater Drainage Area	Maybe. Additional documentation required.

TABLE 3 SWMUS AND AOCS THAT MAY QUALIFY FOR NFA DETERMINATION		
SWMU/AOC	**DESCRIPTION**	**COMMENTS**
SWMU 96	Old Entomology Rinse Area	Maybe. Additional documentation required.
SWMU 98	Sanitary Sewage Line	Maybe. Additional documentation required.
SWMU 102	Wastewater Treatment Effluent Discharge	Maybe. Additional documentation required.
SWMU 106	FTA 2	Maybe, but CAFB must supply copy of approved 1994 RFI Work Plan and subsequent RFI Report
SWMU 107	FTA 3	Maybe, but CAFB must supply copy of approved 1994 RFI Work Plan and subsequent RFI Report
SWMU 124	Inactive UST 1 Duplicate of SWMU 48A	Maybe. Assertion that SWMU 124 is a duplicate of SWMU 48A has not been previously documented.
SWMU 126	Inactive UST 3 Closed in accordance with NMED UST regulations	Maybe for Criterion 4. Must provide UST close out report. EPA's opinion that an investigation at fuel/product ASTs/USTs is not required is not shared by NMED.
SWMU 128	OWS Near Tank 4095 (#2) & Leach Field	Maybe. Additional documentation required.

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ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau ENTERED

BILL RICHARDSON
Governor

DIANE DENISH
Lieutenant Governor

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

RON CURRY
Secretary

JON GOLDSTEIN
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

March 30, 2009

Colonel Timothy J. Leahy
27th Special Operations Wing
100 South D.L. Ingram Boulevard
Cannon Air Force Base, New Mexico 88103-5214

RE: APPROVAL
FINAL REPORT
SUPPLEMENTAL ASSESSMENT OF AREAS OF CONCERN A, B, & C
CANNON AIR FORCE BASE, EPA ID NO. NM7572124454
HWB-CAFB-08-005

Dear Mr. Leahy:

The New Mexico Environment Department (NMED) reviewed the Department of the Air Force's (Permittee) submittal *Final Report Supplemental Assessment of Areas of Concern (AOCs) A, B, and C* (the Report), dated December 2005. Based on the information provided in the Report, AOCs A, B, and C have been investigated and all detected soil contaminants were reported at concentrations below residential New Mexico Soil Screening Levels (NMSSLs). At this time, NMED will continue with the review of the Permittee's permit modification request (*Corrective Action Complete Proposals*, July 2008) that requests corrective action complete status for AOCs A, B, and C.

If you have any questions regarding this letter, please call Pat Stewart at (505) 476-6059.

Sincerely,

John E. Kieling
Program Manager
Permits Management Program
Hazardous Waste Bureau

cc: P. Stewart, NMED HWB
D. Cobrain, NMED HWB
Jerry Pelfrey, CAFB
File: CAFB 2009 and Reading
CAFB-08-005

CANNON AFB
NEW MEXICO

ADMINISTRATIVE RECORD
COVER SHEET

AR File Number 1473

NEW MEXICO
ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

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

BILL RICHARDSON
Governor

DIANE DENISH
Lieutenant Governor

RON CURRY
Secretary

JON GOLDSTEIN
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

September 14, 2009

Mr. Ronald A. Lancaster
27 SOCES/CEA
506 N DL Ingram Blvd
Cannon Air Force Base, New Mexico 88103-5003

RE: REQUIREMENT FOR FURTHER CORRECTIVE ACTION, CORRECTIVE ACTION COMPLETE PROPOSALS, JULY 2008 CANNON AIR FORCE BASE, EPA ID NO. NM7572124454 HWB-CAFB-08-004

Dear Mr. Lancaster:

The New Mexico Environment Department (NMED) has completed its review of Cannon Air Force Base's (Permittee) *Corrective Action Completion Proposals,* dated July 2008. Based on the review, one Solid Waste Management Unit (SWMU 129) and one Area of Concern (AOC A) proposed by the Permittee are not appropriate for Corrective Action Complete (CAC) status.

AOC A, MOGAS Spill Site (SS-19)

AOC A is the site of two motor gasoline (MOGAS) spills that occurred in the early 1960s. The site is relatively flat and much of it is paved with asphalt. The portion not paved is a drainage swale extending to the southeast through a grassy area in the southern portion of the site. Construction of a gymnasium and associated pavement along Argentia Avenue changed the physical features of the spill area. Part of the drainage swale where the spills occurred is now located beneath pavement and a portion of the area exists as a small depression along the side of Argentia Avenue.

The Permittee's proposal that AOC A is appropriate for CAC status is based on results of investigations conducted in 1985 and in 2005. Results of the investigations were reported in the Permittee's *Decision Document, MOGAS Spill AOC A/IRP No. SS-19, Cannon Air Force Base, HARZA Environmental Services, January 1997* and in *Supplemental Assessment of Areas of Concern A, B, & C, Cannon Air Force Base, URS Group, Inc. December 2005*. Results of both investigations indicate that lead and various volatile organic compounds (VOCs) were detected at concentrations below NMED soil screening levels (SSLs) for a residential land use scenario. However, no ecological risk screening was conducted by the Permittee.

Since the Permittee does not have eco risk screening values for the facility, NMED compared the maximum concentrations of detected lead and VOCs to the Los Alamos National Laboratory Ecorisk Database (Version 2.3, October 2008) and determined that lead detected in surface soil in 1985 exceeds the risk-based ecological screening level (range of 14 to 21 mg/kg). The surface soil sample where an elevated lead concentration was detected was collected in the drainage swale that runs alongside Argentia Avenue and is not covered by asphalt. The Permittee must conduct ecological risk screening for AOC A.

The lead contamination was a result of a surface spill, but only one surface soil sample (0-1.0 feet below ground surface) was collected in 1985 and no surface soil samples were collected in the 2005 investigation. The Permittee did not define the lateral extent of lead contamination for surface soil. It is not clear if lead-contaminated soil was removed and/or diluted by construction activities conducted subsequent to the 1985 investigation.

Further, analyses of soil samples collected in 2005 indicated that chloroform concentrations exceed the New Mexico generic Migration to Groundwater Dilution Attenuation Factor (DAF) of 20 SSL. Use of the SSL listed for a DAF of 20 for comparison is advised unless site-specific data on hydrologic conditions are available indicating that the DAF of 20 is not representative of site conditions. The Permittee must generate and compare a site-specific DAF for chloroform.

Until such time that (1) the surface soil in the drainage swale alongside Argentia Avenue is sampled and results indicate that lead is not present in concentrations exceeding the risk-based ecological screening level for lead or until the Permittee provides documentation indicating that lead-contaminated soil was removed or substantially disturbed during construction activities since 1985, and (2) comparison of chloroform concentrations to a site-specific DAF indicates that site conditions are protective of ground water, AOC A will not be considered for Corrective Action Complete status.

SWMU 129, Reported Oil/Water Separator and Associated Leach Field

Bulk waste oil was dumped into collection pits equipped with strainers at SWMU 129. From the pits, oil drained into the oil/water (O/W) separator which was then pumped through supply pipes into five above ground storage tanks. The water fraction, segregated by the O/W separator, exited through a port in the west side of the structure and flowed into a leach field located to the southeast of the facility. The leach field consisted of perforated plastic piping surrounded by crushed stone that allowed the water to be discharged into the subsurface and percolate into underlying soils.

The Permittee's proposal that SWMU 129 is appropriate for CAC status is based on results presented in its *Closeout Report / Contamination Assessment, SWMU 129 – Facility 244, Aboveground Tank Storage Area, Cannon Air Force Base, Clovis, New Mexico, July 19, 2000.* The NMED reviewed the cited report and could not determine if the leach field was sampled for presence of potential contaminants. The report described soil sample locations as: northeast corner of pad, southeast corner of pad, center of pad, northwest corner of pad, southwest corner of pad, north of O/W separator, south of O/W separator and east of O/W separator. The soil sample location nearest the leachfield appears to be Sample Number 2, Southeast Corner of Pad. Sample Number 2 was further described in Figure 4-2, Plan View of Facility 244 Showing Soil Sampling Locations, as "3 feet north of south fence, 4 feet, 3 inches west of east fence". Figure 4-2 indicates that it is not to scale. Figure 4-2 does not indicate the location of the referenced south fence or east fence nor does it indicate the position of the leach field.

It is unclear whether or not the leach field was sampled. If the leach field was not sampled or was not adequately investigated, the NMED considers the investigation of SWMU 129 incomplete. Until such time that the Permittee provides documentation that the leach field was adequately sampled and the results of such sampling demonstrate that contaminants are not present at concentrations exceeding appropriate cleanup criteria, SWMU 129 will not be considered for Corrective Action Complete status.

NMED will proceed with preparation of a Statement of Basis and Public Notice to change the status of the other twelve sites proposed for Corrective Action Complete in the Permittee's July 2008 submittal.

If you have any questions regarding the content of this letter, please call Pat Stewart at (505) 476-6059.

Sincerely,

John E. Kieling
Program Manager
Permits Management Program
Hazardous Waste Bureau

cc: P. Stewart, NMED HWB
N. Dhawan, NMED HWB
D. Cobrain, NMED HWB
H. Hanson, CAFB
File: CAFB 2009 and Reading
CAFB-08-004

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NEW MEXICO ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

BILL RICHARDSON
Governor

DIANE DENISH
Lieutenant Governor

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

RON CURRY
Secretary

SARAH COTTRELL
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

June 7, 2010

Ronald Lancaster
27 SOCES/CEA
506 N. DL Ingram Blvd.
Cannon AFB, New Mexico 88103-5003

RE: NOTICE OF APPROVAL
FINAL RCRA FACIITY INVESTIGATION FOR SWMUS 34, 78, 85, 91, 95, AND 107 ADDENDUM REPORT, MAY 2010
CANNON AIR FORCE BASE, NEW MEXICO
EPA ID #NM7572124454
HWB-CAFB-06-007

Dear Mr. Lancaster:

The New Mexico Environment Department (NMED) has received Cannon Air Force Base's (Permittee) *Final RCRA Facility Investigation for SWMUs 34, 78, 85, 91, 95, and 107 Addendum Report* dated May 2010 (Report). NMED has reviewed the RFI Addendum Report and hereby issues this Notice of Approval. NMED provides comments presented below.

Comment 1. Section 6.3.2, Page 6-3 and Section 7.3.2, Page 7-3:

The third sentence in the first paragraph of these two sections indicate that the NMED residential screening guideline for unknown oil is 800 mg/kg. The correct value is 200 mg/kg, not 800 mg/kg.

The maximum detected concentration of total petroleum hydrocarbon diesel range organics (TPH-DRO) at both sites discussed in sections 6 and 7 were below the screening value for residential direct exposure, 520 mg/kg. Therefore, conclusions remain the same.

Comment 2. Tables 6-2, 7-2, 9-2 and 11-2:

Tables 6-2, 7-2, 9-2 and 11-2 list Soil Screening Level / Total Petroleum Hydrocarbon (SSL/TPH) values for diesel hydrocarbons residential and industrial direct exposure, in the second and third data columns respectively, as 1800 mg/kg and 2000 mg/kg. The correct values are 520 mg/kg for residential direct exposure and 1120 for industrial direct exposure. However, when maximum detected concentrations are compared to correct screening values conclusions of the Report remain the same.

Further, the footnote for the second and third data columns reference NMED TPH Soil Screening Guidelines (June, 2006). The correct reference date is October, 2006.

Comment 3. Table 11-2:

There is no applicable screening value for residential or industrial direct exposure for gasoline range organics or total petroleum hydrocarbons. Values for these components shown in Table 11-2 are incorrect. However, when comparing maximum detected concentrations with correct screening values the conclusions of the Report do not change.

The Permittee must use correct screening values and reference dates in future reports.

Please contact Pat Stewart at (505) 476-6059, should you have any questions.

Sincerely,

John E. Kieling
Program Manager
Permits Management Program
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
P. Stewart, NMED HWB
H. Hanson, CAFB
File: CAFB 2010 and Reading

NEW MEXICO ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

BILL RICHARDSON
Governor

DIANE DENISH
Lieutenant Governor

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

RON CURRY
Secretary

SARAH COTTRELL
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

March 30, 2010

Ronald Lancaster
27 SOCES/CEA
506 N. DL Ingram Blvd.
Cannon AFB, New Mexico 88103-5003

RE: EXTENSION REQUEST APPROVAL
FOR THE SUBMITTAL OF A REVISED RCRA FACILITY INVESTIGATION ADDENDUM REPORT FOR SWMUS 34, 78, 85, 91, 95 AND 107
CANNON AIR FORCE BASE, EPA ID NO. NM7572124454
CAFB 06-007

Dear Mr. Lancaster:

The New Mexico Environment Department (NMED) received, on March 29, 2010, the Department of the Air Force's (Permittee) *Request for Extension.* The Permittee requests additional time to submit a revised RCRA Facility Investigation Addendum Report for SWMUs 34, 78, 85, 91, 95 and 107.

NMED hereby approves this extension request. The Permittee must submit a revised RCRA Facility Investigation Addendum Report for SWMUs 34, 78, 85, 91, 95 and 107 to NMED no later than May 17, 2010.

If you have any questions regarding this letter, please call Pat Stewart at (505) 476-6059.

Sincerely,

John E. Kieling
Program Manager
Permits Management Program
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
P. Stewart, NMED HWB
H. Hanson, CAFB
File: CAFB 06-007 and Reading

NEW MEXICO ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

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

SUSANA MARTINEZ
Governor

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Lieutenant Governor

DAVE MARTIN
Cabinet Secretary

BUTCH TONGATE
Deputy Secretary

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

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

November 16, 2012

Colonel David C. Piech, Commander
27th Special Operations Mission Support Group
110 E. Sextant Avenue, Building 600, Suite 1098
Cannon Air Force Base, New Mexico 88103

RE: APPROVAL
REVISED PLAYA LAKE (SWMU 103) PHASE III
RCRA FACILITY INVESTIGATION REPORT
CANNON AIR FORCE BASE, NEW MEXICO
CURRY COUNTY, NEW MEXICO
EPA ID #NM7572124454
HWB-CAFB-11-001

Dear Col. Piech:

The New Mexico Environment Department (NMED) has received the Cannon Air Force Base (Permittee) *Revised Playa Lake (SWMU 103) Phase III RCRA Facility Investigation Report* (IR), dated October 2011 and received February 2, 2012. NMED has completed review of the IR and hereby approves the IR. NMED agrees that further site evaluation is not needed at this time. In the event the Permittee decides to submit a future petition for designating the site status as Corrective Action Complete (with or without controls), be advised that the petition must include a summary of previous investigative findings which support such a designation.

If you have any questions regarding this letter, please contact Daniel Comeau at (505) 476-6043.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
D. Comeau, NMED HWB
L. King, EPA 6PD-N
R. Lancaster, CAFB
M. Higginbotham, CAFB

File: CAFB 2012; NoA; SWMU 103, Playa Lake Ph 3 RFI

TABLE B-1

AOC A (MOGAS Spill Site) Historical Soil Analytical All Data Results [a,b,c]

Cannon AFB, New Mexico

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration [d]	Surface Background Concentration [d]	NMED Residential SSL Concentration [e]	NMED Industrial SSL Concentration [e]	CAA-SS01 0 - 0.5 December 6, 2011			CAA-SS02 0 - 0.5 December 6, 2011			CAA-SS03 0 - 0.5 December 6, 2011		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)													
Lead	8.70	12.0	400	800	17.1	1.13		19	1.04	J	10.5	1.12	
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Benzene	NE	NE	15.4	84.7	NS	--	--	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	NS	--	--	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	NS	--	--	NS	--	--	NS	--	--
Cyclohexane	NE	NE	7,000 [f]	29,000 [f]	NS	--	--	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	NS	--	--	NS	--	--
Ethylbezene	NE	NE	68.4	378	NS	--	--	NS	--	--	NS	--	--
Methylcyclohexane	NE	NE	5,630	26,500	NS	--	--	NS	--	--	NS	--	--
Methyl acetate	NE	NE	78,200	1.14E+06	NS	--	--	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	NS	--	--	NS	--	--	NS	--	--
m,p-xylene	NE	NE	814	3,980	NS	--	--	NS	--	--	NS	--	--
o-xylene	NE	NE	898	4,410	NS	--	--	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All SVOCs reported as non-detect	--	--	--	--	NS	--	--	NS	--	--	NS	--	--
PURGABLE ORGANIC COMPOUNDS (mg/kg)													
1,2-dichloroethane	NE	NE	7.89	43.5	NS	--	--	NS	--	--	NS	--	--
OIL AND GAS (mg/kg)													
Oil and gas results were reported as non-detect	--	--	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-1

AOC A (MOGAS Spill Site) Historical Soil Analytical All Data Results [a,b,c]

Cannon AFB, New Mexico

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration [d]	Surface Background Concentration [d]	NMED Residential SSL Concentration [e]	NMED Industrial SSL Concentration [e]	CAA-SS04 0 - 0.5 December 6, 2011			CAA-SS05 0 - 0.5 December 6, 2011			CAA-SB01-005 3 - 5 February 16, 2005		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)													
Lead	8.70	12.0	400	800	43.2	1.14	J	112	1.11		0.54	0.6	J
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Benzene	NE	NE	15.4	84.7	NS	--	--	NS	--	--	ND	0.0059	U
Bromomethane	NE	NE	16.5	86.5	NS	--	--	NS	--	--	ND	0.012	U
Chloroform	NE	NE	5.86	32.7	NS	--	--	NS	--	--	0.0092	0.0059	
Cyclohexane	NE	NE	7,000 [f]	29,000 [f]	NS	--	--	NS	--	--	0.0023	0.0059	J
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	NS	--	--	0.0026	0.0059	J
Ethylbezene	NE	NE	68.4	378	NS	--	--	NS	--	--	ND	0.0059	U
Methylcyclohexane	NE	NE	5,630	26,500	NS	--	--	NS	--	--	0.006	0.024	J
Methyl acetate	NE	NE	78,200	1.14E+06	NS	--	--	NS	--	--	ND	0.012	U
Toluene	NE	NE	5,270	57,700	NS	--	--	NS	--	--	0.019	0.0059	
m,p-xylene	NE	NE	814	3,980	NS	--	--	NS	--	--	0.0012	0.0059	J
o-xylene	NE	NE	898	4,410	NS	--	--	NS	--	--	ND	0.0059	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All SVOCs reported as non-detect	--	--	--	--	NS	--	--	NS	--	--	ND	NA	
PURGABLE ORGANIC COMPOUNDS (mg/kg)													
1,2-dichloroethane	NE	NE	7.89	43.5	NS	--	--	NS	--	--	NS	--	--
OIL AND GAS (mg/kg)													
Oil and gas results were reported as non-detect	--	--	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-1

AOC A (MOGAS Spill Site) Historical Soil Analytical All Data Results [a,b,c]

Cannon AFB, New Mexico

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration [d]	Surface Background Concentration [d]	NMED Residential SSL Concentration [e]	NMED Industrial SSL Concentration [e]	CAA-SB01-010 8 - 9.6 February 16, 2005			CAA-SB02-020 18 - 20 February 17, 2005			CAA-SB02-023 23 - 23.4 February 17, 2005		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)													
Lead	8.70	12.0	400	800	0.71	0.6		3.2	0.6		1.4	0.6	
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Benzene	NE	NE	15.4	84.7	ND	0.0056	U	ND	0.0059	U	ND	0.0059	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	0.0022	0.012	J	ND	0.012	UJ
Chloroform	NE	NE	5.86	32.7	ND	0.0056	U	0.0098	0.0059		0.012	0.0059	
Cyclohexane	NE	NE	7,000 [f]	29,000 [f]	ND	0.0056	U	0.0024	0.0059	J	0.0032	0.0059	J
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0056	U	0.0031	0.0059	J	0.0058	0.0059	J
Ethylbezene	NE	NE	68.4	378	ND	0.0056	U	ND	0.0059	U	ND	0.0059	U
Methylcyclohexane	NE	NE	5,630	26,500	ND	0.023	U	0.0068	0.024	J	0.011	0.024	J
Methyl acetate	NE	NE	78,200	1.14E+06	0.0027	0.011	J	0.0018	0.012	J	ND	0.012	U
Toluene	NE	NE	5,270	57,700	0.0015	0.0056	J	0.025	0.0059		0.046	0.0059	
m,p-xylene	NE	NE	814	3,980	ND	0.0056	U	0.0018	0.0059	J	0.0033	0.0059	J
o-xylene	NE	NE	898	4,410	ND	0.0056	U	ND	0.0059	U	ND	0.0059	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All SVOCs reported as non-detect	--	--	--	--	ND	NA		ND	NA		ND	NA	
PURGABLE ORGANIC COMPOUNDS (mg/kg)													
1,2-dichloroethane	NE	NE	7.89	43.5	NS	--	--	NS	--	--	NS	--	--
OIL AND GAS (mg/kg)													
Oil and gas results were reported as non-detect	--	--	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-1

AOC A (MOGAS Spill Site) Historical Soil Analytical All Data Results [a,b,c]

Cannon AFB, New Mexico

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration [d]	Surface Background Concentration [d]	NMED Residential SSL Concentration [e]	NMED Industrial SSL Concentration [e]	CAA-SB03-015 13 - 14.7 February 17, 2005			CAA-SB03-019 18 - 18.4 February 17, 2005			CAA-SB04-020 18 - 20 February 17, 2005		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)													
Lead	8.70	12.0	400	800	5.9	0.6		1.7	0.6		1.4	0.6	
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Benzene	NE	NE	15.4	84.7	0.0008	0.0055	J	0.0009	0.0057	J	ND	0.0058	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	ND	0.011	U	ND	0.012	U
Chloroform	NE	NE	5.86	32.7	0.012	0.005		0.011	0.0057		0.01	0.0058	
Cyclohexane	NE	NE	7,000 [f]	29,000 [f]	0.0031	0.005	J	0.003	0.0057	J	0.0029	0.0058	J
Dibromochloromethane	NE	NE	12.1	62.4	0.006	0.005		0.0047	0.0057	J	0.0033	0.0058	J
Ethylbezene	NE	NE	68.4	378	0.001	0.005	J	0.0009	0.0057	J	ND	0.0058	U
Methylcyclohexane	NE	NE	5,630	26,500	0.012	0.022	J	0.0093	0.023	J	0.0091	0.023	J
Methyl acetate	NE	NE	78,200	1.14E+06	0.0049	0.011	J	0.0088	0.011	J	0.0052	0.012	J
Toluene	NE	NE	5,270	57,700	0.044	0.0055		0.037	0.0057		0.03	0.0058	
m,p-xylene	NE	NE	814	3,980	ND	0.0055	U	0.003	0.0057	J	0.0023	0.0058	J
o-xylene	NE	NE	898	4,410	0.0007	0.0055	J	0.0007	0.0057	J	ND	0.0058	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All SVOCs reported as non-detect	--	--	--	--	ND	NA		ND	NA		ND	NA	
PURGABLE ORGANIC COMPOUNDS (mg/kg)													
1,2-dichloroethane	NE	NE	7.89	43.5	NS	--	--	NS	--	--	NS	--	--
OIL AND GAS (mg/kg)													
Oil and gas results were reported as non-detect	--	--	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-1

AOC A (MOGAS Spill Site) Historical Soil Analytical All Data Results [a,b,c]

Cannon AFB, New Mexico

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration [d]	Surface Background Concentration [d]	NMED Residential SSL Concentration [e]	NMED Industrial SSL Concentration [e]	CAA-SB04-025 23 - 24.5 February 17, 2005			19A-1 3.0 - 4.0 1986			19A-1A (Field Duplicate) 3.0 - 4.0 1986		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)													
Lead	8.70	12.0	400	800	4.4	0.6		1.5	NA		2.3	NA	
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Benzene	NE	NE	15.4	84.7	0.0008	0.0056	J	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	0.012	0.0056		NS	--	--	NS	--	--
Cyclohexane	NE	NE	7,000 [f]	29,000 [f]	0.0035	0.0056	J	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	0.0054	0.0056	J	NS	--	--	NS	--	--
Ethylbezene	NE	NE	68.4	378	0.0011	0.0056	J	NS	--	--	NS	--	--
Methylcyclohexane	NE	NE	5,630	26,500	0.013	0.022	J	NS	--	--	NS	--	--
Methyl acetate	NE	NE	78,200	1.14E+06	ND	0.011	U	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	0.047	0.0056		NS	--	--	NS	--	--
m,p-xylene	NE	NE	814	3,980	0.0039	0.0056	J	NS	--	--	NS	--	--
o-xylene	NE	NE	898	4,410	0.0007	0.0056	J	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All SVOCs reported as non-detect	--	--	--	--	ND	NA	--	NS	--	--	NS	--	--
PURGABLE ORGANIC COMPOUNDS (mg/kg)													
1,2-dichloroethane	NE	NE	7.89	43.5	NS	--	--	ND	NA		0.237	NA	NA
OIL AND GAS (mg/kg)													
Oil and gas results were reported as non-detect	--	--	--	--	NS	--	--	ND	NA		ND	NA	

TABLE B-1

AOC A (MOGAS Spill Site) Historical Soil Analytical All Data Results [a,b,c]

Cannon AFB, New Mexico

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration [d]	Surface Background Concentration [d]	NMED Residential SSL Concentration [e]	NMED Industrial SSL Concentration [e]	19A-2 8.0 - 9.0 1986			19A-3 45.0 - 47.0 1986			19B-1 0.0 - 1.0 1986		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)													
Lead	8.70	12.0	400	800	2.3	NA		1.1	NA		35.0	NA	
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Benzene	NE	NE	15.4	84.7	NS	--	--	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	NS	--	--	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	NS	--	--	NS	--	--	NS	--	--
Cyclohexane	NE	NE	7,000 [f]	29,000 [f]	NS	--	--	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	NS	--	--	NS	--	--
Ethylbezene	NE	NE	68.4	378	NS	--	--	NS	--	--	NS	--	--
Methylcyclohexane	NE	NE	5,630	26,500	NS	--	--	NS	--	--	NS	--	--
Methyl acetate	NE	NE	78,200	1.14E+06	NS	--	--	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	NS	--	--	NS	--	--	NS	--	--
m,p-xylene	NE	NE	814	3,980	NS	--	--	NS	--	--	NS	--	--
o-xylene	NE	NE	898	4,410	NS	--	--	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All SVOCs reported as non-detect	--	--	--	--	NS	--	--	NS	--	--	NS	--	--
PURGABLE ORGANIC COMPOUNDS (mg/kg)													
1,2-dichloroethane	NE	NE	7.89	43.5	ND	NA		ND	NA		ND	NA	
OIL AND GAS (mg/kg)													
Oil and gas results were reported as non-detect	--	--	--	--	ND	NA		ND	NA		ND	NA	

TABLE B-1

AOC A (MOGAS Spill Site) Historical Soil Analytical All Data Results [a,b,c]

Cannon AFB, New Mexico

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration [d]	Surface Background Concentration [d]	NMED Residential SSL Concentration [e]	NMED Industrial SSL Concentration [e]	19B-2 9.0 - 10.0 1986			19B-3 57.5 - 59.5 1986		
					Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)										
Lead	8.70	12.0	400	800	0.95	NA		0.99	NA	
VOLATILE ORGANIC COMPOUNDS (mg/kg)										
Benzene	NE	NE	15.4	84.7	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	NS	--	--	NS	--	--
Cyclohexane	NE	NE	7,000 [f]	29,000 [f]	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	NS	--	--
Ethylbezene	NE	NE	68.4	378	NS	--	--	NS	--	--
Methylcyclohexane	NE	NE	5,630	26,500	NS	--	--	NS	--	--
Methyl acetate	NE	NE	78,200	1.14E+06	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	NS	--	--	NS	--	--
m,p-xylene	NE	NE	814	3,980	NS	--	--	NS	--	--
o-xylene	NE	NE	898	4,410	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)										
All SVOCs reported as non-detect	--	--	--	--	NS	--	--	NS	--	--
PURGABLE ORGANIC COMPOUNDS (mg/kg)										
1,2-dichloroethane	NE	NE	7.89	43.5	ND	NA		ND	NA	
OIL AND GAS (mg/kg)										
Oil and gas results were reported as non-detect	--	--	--	--	ND	NA		ND	NA	

TABLE B-1

AOC A (MOGAS Spill Site) Historical Soil Analytical All Data Results [a,b,c]

Cannon AFB, New Mexico

Notes:

[a] Radian Corporation LLC, 1986. Table 4-19. *Installation Restoration Program Phase II - Confirmation/Quantification, Stage I*, Cannon Air Force Base, New Mexico, September.

[b] URS Group, Inc., 2005. Table 5-2. *Supplemental Assessment of Areas of Concern A, B, and C, Final Report*, Cannon Air Force Base, New Mexico, December.

[c] URS Group, Inc., 2013. Table 3-2. *Phase II Supplemental Assessment of Area of Concern A (SS-19)*, Cannon Air Force Base, New Mexico, February.

[d] Woodward-Clyde Consultants, Inc., 1997. Table 6-3. *Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon Air Force Base, New Mexico,* September.

[e] New Mexico Environment Department (NMED), 2012. Table A-1: NMED Soil Screening Levels, *Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document,* Hazardous Waste Bureau and Groundwater Quality Remediation Program, Table A-1 Updated June 2012.

[f] U.S. Environmental Protection Agency (EPA), 2012. Regions 3, 6, and 9 Regional Screening Levels for Chemical Contaminants at Superfund Sites, November.

BOLD indicates that analyte exceeds the 2012 NMED residential SSL.

Analyte exceeds background value

-- = Placeholder, no data available since not sampled

AFB = Air Force Base

AOC = Area of Concern

bgs = Below Ground Surface

FT = Feet

ID = Identification

J = Estimated value

mg/kg = Milligram per Kilogram

MOGAS = Motor Gasoline

NA = Not Available

ND = Result Not Detected

NE = Not Established

NMED = New Mexico Environment Department

NS = Not Sampled

Qual = Qualifier

RL = Reporting Limit

SB = Soil Boring

SSL = Soil Screening Level

SVOC = Semivolatile Organic Compound

U = Nondetected value

TABLE B-2

SWMU 91 (Recovered Fuel Tank No. 5114) Historical Soil Analytical All Data Results [a]

Cannon AFB, New Mexico

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Surface Background Concentration [b]	Subsurface Background Concentration [b]	NMED Residential SSL Concentration [c]	NMED Industrial SSL Concentration [c]	C91-SB01-000 0 - 4 October 23, 2008			C91-SB01-008 8 - 12 October 23, 2008			C91-SB01-012 12 - 16 October 23, 2008			C91-SB02-000 0 - 4 October 23, 2008			C91-SB02-008 8 - 12 October 23, 2008		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																			
TPH - DRO	NE	NE	1,000	3,000	ND	10.0	U	ND	10.0	U	ND	10.0	U	ND	10.0	U	ND	10.0	U
TPH - GRO	NE	NE	1,000	3,000	ND	1.1	U	ND	1.1	U	ND	1.2	U	ND	1.2	U	ND	1.1	U

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Surface Background Concentration [b]	Subsurface Background Concentration [b]	NMED Residential SSL Concentration [c]	NMED Industrial SSL Concentration [c]	C91-SB02-012 12 - 16 October 23, 2008			C91-SB03-000 0 - 4 October 23, 2008			C91-SB03-008 8 - 12 October 23, 2008			C91-SB03-012 12 - 16 October 23, 2008		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
TPH - DRO	NE	NE	1,000	3,000	ND	10.0	U	ND	10.0	U	ND	10.0	U	ND	10.0	U
TPH - GRO	NE	NE	1,000	3,000	ND	1.2	U	ND	1.1	U	ND	1.2	U	ND	1.1	U

Notes:

[a] URS Group, Inc., 2009. Table C-4. Final RCRA Facility Investigation for SWMUs 34, 78, 85, 91, 95, and 107 Addendum Report, Cannon Air Force Base, New Mexico, June.

[b] Woodward-Clyde Consultants, Inc., 1997. Table 6-3. Naturally Occurring Concentrations of Inorganics and Background concentrations of Pesticides at Cannon Air Force Base, New Mexico, September.

[c] New Mexico Environment Department (NMED), 2012. Table 6-2. TPH Screening Guidelines for Potable Groundwater (GW-1), Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and the Ground Water Quality Bureau - Voluntary Remediation Program, February 2012. Values provided are for jet fuel and kerosene.

AFB = Air Force Base

BGS = Below Ground Surface

DRO = Diesel Range Organics

FT = Feet

GRO = Gasoline Range Organics

GW = Groundwater

ID = Identification

mg/kg = Milligram per kilogram

ND = Result Not Detected

NE = None Established

NMED = New Mexico Environment Department

Qual = Qualifier

RCRA = Resource Conservation and Recovery Act

RL = Reporting Limit

SB = Soil Boring

SSL = Soil Screening Level

SWMU = Solid Waste Management Unit

TPH = Total Petroleum Hydrocarbons

U = Nondetected

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10301			10302			10303			10304		
FIELD ID					CAN103-1031-5001			CAN103-1032-5001			CAN103-1033-5001			CAN103-1034-5001		
SAMPLE DEPTH (FT BGS)					0 - 1			0 - 1			0 - 1			0 - 1		
DATE COLLECTED					September 21, 1993			September 21, 1993			September 21, 1993			September 21, 1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	3,450	38.5		21,300	196		12,300	37.4		12,300	49.2	
Antimony	16.0	3.15	31.3	454	ND	NA		ND	NA		ND	NA		ND	NA	
Arsenic	4.30	3.60	3.90	17.7	2.40	1.9		**10.8**	9.8	J	3.3	1.9	J	**4.5**	2.5	
Barium	890	670	15,600	223,000	90.1	3.9		231	19.6		119	3.7		150	4.9	
Beryllium	0.73	0.78	156	2,260	ND	0.77	U	ND	3.9	U	0.69	0.75	J	0.99	0.98	
Cadmium	1.30	0.35	70.3	897	2.3	1.9		ND	9.8	U	ND	1.9	U	2.6	2.5	
Calcium	237,498	44,800	NE	NE	26,200	77		83,400	393		46,400	74.9		77,400	98.4	
Chromium	13.3	10.5	117,000	1.70E+06	10.4	3.9		35.5	19.6		13.5	3.7		19.8	4.9	
Cobalt	4.70	6.60	23[g]	300[g]	ND	3.9	UJ	ND	19.6	U	4	3.7		5.9	4.9	
Copper	8.30	18.3	3,130	45,400	40.3	7.7		102	39.3		29.4	7.5		44.3	9.8	
Iron	13,148	10,100	54,800	795,000	3,860	38.5		18,300	196		9,990	37.4		13,100	49.2	
Lead	8.70	12.0	400	800	14.6	1.9		39.3	9.8		16.5	1.9		16.7	2.5	
Magnesium	19,300	1,930	NE	NE	1,780	77		8700	393		4,140	74.9		5,640	98.4	
Manganese	333	307	1,860	26,700	38	3.9		228	19.6		158	3.7		196	4.9	
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.39	UJ	ND	2	U	0.39	0.37		0.51	0.49	
Nickel	14.9	11.0	1,560	22,500	5.3	15.4	J	27.7	78.6	J	12.1	15	J	14.6	19.7	J
Potassium	2,512	2,691	NE	NE	968	1,930	J	4,640	9,820	J	2,580	1,870		3,380	2,460	
Selenium	1.10	0.26	391	5,680	3.3	1.9		13.2	9.8		5.2	1.9	J	4.7	2.5	J
Silver	2.65	0.40	391	5,680	9.8	3.9		33.7	19.6		9.9	3.7		11.5	4.9	
Sodium	1,227	102	NE	NE	3,940	1,930	J	18,900	9,820	J	4,230	1,870	J	4,260	2,460	J
Thallium	2.65	0.60	0.782	11.4	ND	NA		ND	NA		ND	NA		ND	NA	
Vanadium	32.8	23.3	391	5,680	27.1	3.9		130	19.6		57.5	3.7		78.9	4.9	
Zinc	30.6	32.2	23,500	341,000	90.9	7.7		275	39.3		76.9	7.5		101	9.8	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	ND	NA		ND	NA		ND	NA		ND	NA	
Benzene	NE	NE	15.4	84.7	ND	0.019	UJ	0.022	0.098	J	0.0066	0.019	J	0.016	0.025	J
Bromodichloromethane	NE	NE	5.41	30.1	ND	NA		ND	NA		ND	NA		ND	NA	
Bromoform	NE	NE	62.0[g]	220[g]	ND	NA		ND	NA		ND	NA		ND	NA	
Bromomethane	NE	NE	16.5	86.5	ND	NA		ND	NA		ND	NA		ND	NA	
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.039	UJ	ND	0.2	UJ	0.018	0.037	J	0.068	0.049	J
Carbon disulfide	NE	NE	1,530	8,330	0.0084	0.019	J	0.022	0.098	J	0.011	0.019	J	0.023	0.025	J
Carbon tetrachloride	NE	NE	10.8	59.8	ND	NA		ND	NA		ND	NA		ND	NA	
Chlorobenzene	NE	NE	376	2,120	ND	NA		ND	NA		ND	NA		ND	NA	
Chloroethane	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Chloroform	NE	NE	5.86	32.7	ND	NA		ND	NA		ND	NA		ND	NA	
Chloromethane	NE	NE	275	1,290	0.004	0.039	J	ND	0.2	UJ	ND	0.037	UJ	ND	0.049	UJ
Dibromochloromethane	NE	NE	12.1	62.4	ND	NA		ND	NA		ND	NA		ND	NA	
1,1-Dichloroethane	NE	NE	64.5	359	ND	NA		ND	NA		ND	NA		ND	NA	
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	NA		ND	NA		ND	NA		ND	NA	
1,1-Dichloroethene	NE	NE	449	2,290	ND	NA		ND	NA		ND	NA		ND	NA	
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	NA		ND	NA		ND	NA		ND	NA	
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Ethylbenzene	NE	NE	68.4	378	ND	NA		ND	NA		ND	NA		ND	NA	
2-Hexanone	NE	NE	210[g]	1400[g]	ND	NA		ND	NA		ND	NA		ND	NA	

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10301			10302			10303			10304		
FIELD ID					CAN103-1031-5001			CAN103-1032-5001			CAN103-1033-5001			CAN103-1034-5001		
SAMPLE DEPTH (FT BGS)					0 - 1			0 - 1			0 - 1			0 - 1		
DATE COLLECTED					September 21, 1993			September 21, 1993			September 21, 1993			September 21, 1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	NA		ND	NA		ND	NA		ND	NA	
Methylene chloride	NE	NE	409	4,700	ND	NA		ND	NA		ND	NA		ND	NA	
Styrene	NE	NE	7,280	50,000	ND	NA		ND	NA		ND	NA		ND	NA	
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	NA		ND	NA		ND	NA		ND	NA	
Tetrachloroethene	NE	NE	7.02	36.6	ND	NA		ND	NA		ND	NA		ND	NA	
Toluene	NE	NE	5,270	57,700	ND	NA		ND	NA		ND	NA		ND	NA	
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	NA		ND	NA		ND	NA		ND	NA	
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	NA		ND	NA		ND	NA		ND	NA	
Trichloroethene	NE	NE	8.77	41.3	ND	NA		ND	NA		ND	NA		ND	NA	
Vinyl acetate	NE	NE	2,560	12,300	ND	NA		ND	NA		ND	NA		ND	NA	
Vinyl chloride	NE	NE	0.728	26.1	ND	NA		ND	NA		ND	NA		ND	NA	
Xylenes (total)	NE	NE	814	3,980	ND	NA		ND	NA		ND	NA		ND	NA	
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	NA		ND	NA		ND	NA		ND	NA	
Acenaphthylene	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Antracene	NE	NE	17,200	183,000	ND	NA		ND	NA		ND	NA		ND	NA	
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	NA		ND	NA		ND	NA		ND	NA	
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	NA		ND	NA		ND	NA		ND	NA	
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	NA		ND	NA		ND	NA		ND	NA	
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	NA		ND	NA		ND	NA		ND	NA	
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	NA		ND	NA		ND	NA		ND	NA	
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	NA		ND	NA		ND	NA		ND	NA	
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	NA		ND	NA		ND	NA		ND	NA	
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	NA		ND	NA		ND	NA		ND	NA	
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	NA		ND	NA		ND	NA		ND	NA	
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	2	1.3	J	3.9	6.5	J	0.76	1.2	J	1.7	1.6	UJ
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	1.3	UJ	ND	6.5	UJ	0.32	1.2	J	ND	1.6	UJ
Carbazole	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
4-Chloroaniline	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	NA		ND	NA		ND	NA		ND	NA	
2-Chlorophenol	NE	NE	391	5,680	ND	NA		ND	NA		ND	NA		ND	NA	
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Chrysene	NE	NE	148	2,340	ND	NA		ND	NA		ND	NA		ND	NA	
Di-n-butyl phthalate	NE	NE	NE	NE	ND	1.3	UJ	ND	6.5	UJ	0.2	1.2	J	ND	1.6	UJ
Di-n-octyl phthalate	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	NA		ND	NA		ND	NA		ND	NA	
Dibenzofuran	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	NA		ND	NA		ND	NA		ND	NA	
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	NA		ND	NA		ND	NA		ND	NA	
2,4-Dichlorophenol	NE	NE	183	2,050	ND	NA		ND	NA		ND	NA		ND	NA	
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	NA		ND	NA		ND	NA		ND	NA	
Diethyl phthalate	NE	NE	48,900	547,000	ND	NA		ND	NA		ND	NA		ND	NA	

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10301			10302			10303			10304		
FIELD ID					CAN103-1031-5001			CAN103-1032-5001			CAN103-1033-5001			CAN103-1034-5001		
SAMPLE DEPTH (FT BGS)					0 - 1			0 - 1			0 - 1			0 - 1		
DATE COLLECTED					September 21, 1993			September 21, 1993			September 21, 1993			September 21, 1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	NA		ND	NA		ND	NA		ND	NA	
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	NA		ND	NA		ND	NA		ND	NA	
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	NA		ND	NA		ND	NA		ND	NA	
2,4-Dinitrophenol	NE	NE	122	1,370	ND	NA		ND	NA		ND	NA		ND	NA	
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	NA		ND	NA		ND	NA		ND	NA	
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	NA		ND	NA		ND	NA		ND	NA	
Fluoranthene	NE	NE	2,290	24,400	ND	NA		ND	NA		ND	NA		ND	NA	
Fluorene	NE	NE	2,290	24,400	ND	NA		ND	NA		ND	NA		ND	NA	
Hexachlorobenzene	NE	NE	3.04	12.0	ND	NA		ND	NA		ND	NA		ND	NA	
Hexachlorobutadiene	NE	NE	61.1	246	ND	NA		ND	NA		ND	NA		ND	NA	
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	NA		ND	NA		ND	NA		ND	NA	
Hexachloroethane	NE	NE	42.8	479	ND	NA		ND	NA		ND	NA		ND	NA	
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	NA		ND	NA		ND	NA		ND	NA	
Isophorone	NE	NE	5,120	137,000	ND	NA		ND	NA		ND	NA		ND	NA	
2-Methylnaphthalene	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
2-Methylphenol	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
4-Methylphenol	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Naphthalene	NE	NE	43.0	241	ND	NA		ND	NA		ND	NA		ND	NA	
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	NA		ND	NA		ND	NA		ND	NA	
3-Nitroaniline	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	NA		ND	NA		ND	NA		ND	NA	
Nitrobenzene	NE	NE	53.5	300	ND	NA		ND	NA		ND	NA		ND	NA	
2-Nitrophenol	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
4-Nitrophenol	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	NA		ND	NA		ND	NA		ND	NA	
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	NA		ND	NA		ND	NA		ND	NA	
Pentachlorophenol	NE	NE	8.94	30.00	ND	NA		ND	NA		ND	NA		ND	NA	
Phenanthrene	NE	NE	1,830	20,500	ND	NA		ND	NA		ND	NA		ND	NA	
Phenol	NE	NE	18,300	205,000	ND	NA		ND	NA		ND	NA		ND	NA	
Pyrene	NE	NE	1,720	18,300	ND	NA		ND	NA		ND	NA		ND	NA	
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	NA		ND	NA		ND	NA		ND	NA	
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	NA		ND	NA		ND	NA		ND	NA	
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	NA		ND	NA		ND	NA		ND	NA	
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1221	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1232	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1242	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1248	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1254	NE	NE	1.12	8.26	ND	NA		ND	NA		ND	NA		ND	NA	
Aroclor 1260	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDD	NE	NE	20.3	79.8	ND	NA		ND	NA		ND	NA		ND	NA	
4,4'-DDE	NE	NE	14.3	56.3	ND	NA		ND	NA		ND	NA		ND	NA	
4,4'-DDT	NE	NE	17.2	78.1	ND	NA		ND	NA		ND	NA		ND	NA	
Aldrin	NE	NE	0.284	1.12	ND	NA		ND	NA		ND	NA		ND	NA	
alpha-BHC	NE	NE	0.772	3.04	ND	NA		ND	NA		ND	NA		ND	NA	

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10301			10302			10303			10304		
FIELD ID					CAN103-1031-5001			CAN103-1032-5001			CAN103-1033-5001			CAN103-1034-5001		
SAMPLE DEPTH (FT BGS)					0 - 1			0 - 1			0 - 1			0 - 1		
DATE COLLECTED					September 21, 1993			September 21, 1993			September 21, 1993			September 21, 1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	NA		ND	NA		ND	NA		ND	NA	
beta-BHC	NE	NE	2.70	10.6	ND	NA		ND	NA		ND	NA		ND	NA	
delta-BHC	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Dieldrin	NE	NE	0.304	1.20	ND	NA		ND	NA		ND	NA		ND	NA	
Endosulfan I	NE	NE	367	4,100	ND	NA		ND	NA		ND	NA		ND	NA	
Endosulfan II	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Endosulfan sulfate	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Endrin	NE	NE	18.3	205	ND	NA		ND	NA		ND	NA		ND	NA	
Endrin aldehyde	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Endrin ketone	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	NA		ND	NA		ND	NA		ND	NA	
gamma-Chlordane	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Heptachlor	NE	NE	1.08	4.26	ND	NA		ND	NA		ND	NA		ND	NA	
Heptachlor epoxide	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	NA		ND	NA		ND	NA		ND	NA	
Toxaphene	NE	NE	4.42	17.4	ND	NA		ND	NA		ND	NA		ND	NA	
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-DB	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dalapon	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dicamba	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dichlorprop	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dinoseb	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
MCPA	NE	NE	31.0[g]	310[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
MCPP	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,5-TP (Silvex)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 114	NE	NE	1.14	4.24	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 118	NE	NE	1.14	4.24	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 123	NE	NE	1.14	4.24	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 126	NE	NE	0.00034	0.00127	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 156	NE	NE	1.14	4.24	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 157	NE	NE	1.14	4.24	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 167	NE	NE	1.14	4.24	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 169	NE	NE	0.00114	0.00424	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 170	NE	NE	0.34	1.27	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 180	NE	NE	3.41	12.7	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 189	NE	NE	1.14	4.24	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 77	NE	NE	0.34	1.27	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 81	NE	NE	0.114	0.42	ND	NA		ND	NA		ND	NA		ND	NA	

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10301			10302			10303			10304		
FIELD ID					CAN103-1031-5001			CAN103-1032-5001			CAN103-1033-5001			CAN103-1034-5001		
SAMPLE DEPTH (FT BGS)					0 - 1			0 - 1			0 - 1			0 - 1		
DATE COLLECTED					September 21, 1993			September 21, 1993			September 21, 1993			September 21, 1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	**2,520**	154		**5,890**	786		**2,200**	150		**2,290**	197	
TPH-DRO	NE	NE	1,000	1,000	NS	NA		NS	NA		NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	NA		NS	NA		NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	NA		NS	NA		NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10308			10308			10308			10309		
FIELD ID					CAN103-1038-003			CAN103-1038-003			CAN103-1038-005			CAN103-1039-003		
SAMPLE DEPTH (FT BGS)					3			3			5			3		
DATE COLLECTED					December 1, 1994			December 1, 1994			December 1, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	NS	--	--	22,900	12.9		19,200	12.8		23,000	12.8	
Antimony	16.0	3.15	31.3	454	NS	--	--	ND	7.8	UJ	ND	7.7	UJ	ND	7.7	UJ
Arsenic	4.30	3.60	3.90	17.7	NS	--	--	2.2	0.65		1.9	0.64		2	0.64	
Barium	890	670	15,600	223,000	NS	--	--	183	1.3		176	1.3		184	1.3	
Beryllium	0.73	0.78	156	2,260	NS	--	--	1.5	0.26		1.4	0.26		1.4	0.26	
Cadmium	1.30	0.35	70.3	897	NS	--	--	ND	0.65	U	ND	0.64	U	ND	0.64	U
Calcium	237,498	44,800	NE	NE	NS	--	--	3,740	25.9		3,290	25.6		3,300	25.6	
Chromium	13.3	10.5	117,000	1.70E+06	NS	--	--	20.5	1.3		20.1	1.3		21.4	1.3	
Cobalt	4.70	6.60	23[g]	300[g]	NS	--	--	10.7	1.3		8.3	1.3		9.9	1.3	
Copper	8.30	18.3	3,130	45,400	NS	--	--	17.5	2.6		15	2.6		16.5	2.6	
Iron	13,148	10,100	54,800	795,000	NS	--	--	20,800	12.9		17,200	12.8		20,200	12.8	
Lead	8.70	12.0	400	800	NS	--	--	15.5	3.2	J	12.2	1.3	J	14	1.3	J
Magnesium	19,300	1,930	NE	NE	NS	--	--	4,730	25.9		3,920	25.6		4,400	25.6	
Manganese	333	307	1,860	26,700	NS	--	--	541	1.3		452	1.3		554	1.3	
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	NS	--	--	ND	0.13	U	ND	0.13	U	ND	0.13	U
Nickel	14.9	11.0	1,560	22,500	NS	--	--	16.4	5.2		15.2	5.1		15.2	5.1	
Potassium	2,512	2,691	NE	NE	NS	--	--	4,540	647		3,960	640		4,580	640	
Selenium	1.10	0.26	391	5,680	NS	--	--	ND	1.3	UJ	0.17	1.3	J	0.18	0.64	J
Silver	2.65	0.40	391	5,680	NS	--	--	ND	1.3	U	ND	1.3	U	ND	1.3	U
Sodium	1,227	102	NE	NE	NS	--	--	572	647	J	560	640	J	614	640	J
Thallium	2.65	0.60	0.782	11.4	NS	--	--	0.34	0.65	J	0.31	0.64	J	0.26	0.64	J
Vanadium	32.8	23.3	391	5,680	NS	--	--	27.3	1.3		24.6	1.3		26.2	1.3	
Zinc	30.6	32.2	23,500	341,000	NS	--	--	56.2	2.6		47.1	2.6		56.1	2.6	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	NS	--	--	0.1	0.013		0.085	0.013		0.061	0.013	
Benzene	NE	NE	15.4	84.7	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Bromodichloromethane	NE	NE	5.41	30.1	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Bromoform	NE	NE	62.0[g]	220[g]	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Bromomethane	NE	NE	16.5	86.5	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
2-Butanone (MEK)	NE	NE	37,100	375,000	NS	--	--	0.021	0.013		0.016	0.013		ND	0.013	U
Carbon disulfide	NE	NE	1,530	8,330	NS	--	--	ND	0.0065	U	ND	0.0064	U	0.013	0.0064	
Carbon tetrachloride	NE	NE	10.8	59.8	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Chlorobenzene	NE	NE	376	2,120	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Chloroethane	NE	NE	NE	NE	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
Chloroform	NE	NE	5.86	32.7	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Chloromethane	NE	NE	275	1,290	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
1,1-Dichloroethane	NE	NE	64.5	359	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
1,2-Dichloroethane	NE	NE	7.89	43.5	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
1,1-Dichloroethene	NE	NE	449	2,290	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
1,2-Dichloropropane	NE	NE	15.2	84.4	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Ethylbenzene	NE	NE	68.4	378	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
2-Hexanone	NE	NE	210[g]	1400[g]	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10308			10308			10308			10309		
FIELD ID					CAN103-1038-003			CAN103-1038-003			CAN103-1038-005			CAN103-1039-003		
SAMPLE DEPTH (FT BGS)					3			3			5			3		
DATE COLLECTED					December 1, 1994			December 1, 1994			December 1, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
Methylene chloride	NE	NE	409	4,700	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Styrene	NE	NE	7,280	50,000	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Tetrachloroethene	NE	NE	7.02	36.6	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Toluene	NE	NE	5,270	57,700	NS	--	--	0.0016	0.0065	J	0.0036	0.0064	J	0.0014	0.0064	J
1,1,1-Trichloroethane	NE	NE	15,600	78,900	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Trichloroethene	NE	NE	8.77	41.3	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Vinyl acetate	NE	NE	2,560	12,300	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
Vinyl chloride	NE	NE	0.728	26.1	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
Xylenes (total)	NE	NE	814	3,980	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Acenaphthylene	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Antracene	NE	NE	17,200	183,000	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Benzo(a)anthracene	NE	NE	1.48	23.4	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Benzo(a)pyrene	NE	NE	0.148	2.34	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Benzo(k)fluoranthene	NE	NE	14.8	234	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	NS	--	--	ND	2.1	U	ND	2	U	ND	2	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Carbazole	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
4-Chloroaniline	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2-Chloronaphthalene	NE	NE	6,260	90,800	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2-Chlorophenol	NE	NE	391	5,680	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Chrysene	NE	NE	148	2,340	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Di-n-butyl phthalate	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Di-n-octyl phthalate	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Dibenzofuran	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
1,3-Dichlorobenzene	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
1,4-Dichlorobenzene	NE	NE	31.70	177	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2,4-Dichlorophenol	NE	NE	183	2,050	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	NS	--	--	ND	0.85	U	ND	0.85	U	ND	0.85	U
Diethyl phthalate	NE	NE	48,900	547,000	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10308			10308			10308			10309		
FIELD ID					CAN103-1038-003			CAN103-1038-003			CAN103-1038-005			CAN103-1039-003		
SAMPLE DEPTH (FT BGS)					3			3			5			3		
DATE COLLECTED					December 1, 1994			December 1, 1994			December 1, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	NS	--	--	ND	2.1	U	ND	2	U	ND	2	U
2,4-Dinitrophenol	NE	NE	122	1,370	NS	--	--	ND	2.1	U	ND	2	U	ND	2	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2,6-Dinitrotoluene	NE	NE	61.1	684	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Fluoranthene	NE	NE	2,290	24,400	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Fluorene	NE	NE	2,290	24,400	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Hexachlorobenzene	NE	NE	3.04	12.0	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Hexachlorobutadiene	NE	NE	61.1	246	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Hexachloroethane	NE	NE	42.8	479	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Isophorone	NE	NE	5,120	137,000	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2-Methylnaphthalene	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2-Methylphenol	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
4-Methylphenol	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Naphthalene	NE	NE	43.0	241	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	NS	--	--	ND	2.1	U	ND	2	U	ND	2	U
3-Nitroaniline	NE	NE	NE	NE	NS	--	--	ND	2.1	U	ND	2	U	ND	2	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	NS	--	--	ND	2.1	U	ND	2	U	ND	2	U
Nitrobenzene	NE	NE	53.5	300	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2-Nitrophenol	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
4-Nitrophenol	NE	NE	NE	NE	NS	--	--	ND	2.1	U	ND	2	U	ND	2	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Pentachlorophenol	NE	NE	8.94	30.00	NS	--	--	ND	2.1	U	ND	2	U	ND	2	U
Phenanthrene	NE	NE	1,830	20,500	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Phenol	NE	NE	18,300	205,000	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Pyrene	NE	NE	1,720	18,300	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	NS	--	--	ND	2.10	U	ND	2.00	U	ND	2.00	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.043	U	ND	0.043	U	ND	0.042	U	ND	0.042	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.043	U	ND	0.043	U	ND	0.042	U	ND	0.042	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.043	U	ND	0.043	U	ND	0.042	U	ND	0.042	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.043	U	ND	0.043	U	ND	0.042	U	ND	0.042	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.043	U	ND	0.043	U	ND	0.042	U	ND	0.042	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.043	U	ND	0.043	U	ND	0.042	U	ND	0.042	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.043	U	ND	0.043	U	ND	0.042	U	ND	0.042	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0043	U	ND	0.0043	U	ND	0.0042	U	ND	0.0042	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0043	U	ND	0.0043	U	ND	0.0042	U	ND	0.0042	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0043	U	0.0024	0.0043	J	ND	0.0042	U	ND	0.0042	U
Aldrin	NE	NE	0.284	1.12	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10308			10308			10308			10309		
FIELD ID					CAN103-1038-003			CAN103-1038-003			CAN103-1038-005			CAN103-1039-003		
SAMPLE DEPTH (FT BGS)					3			3			5			3		
DATE COLLECTED					December 1, 1994			December 1, 1994			December 1, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
delta-BHC	NE	NE	NE	NE	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0043	U	0.0024	0.0043	J	ND	0.0042	U	ND	0.0042	U
Endosulfan I	NE	NE	367	4,100	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
Endosulfan II	NE	NE	NE	NE	ND	0.0043	U	ND	0.0043	U	ND	0.0042	U	ND	0.0042	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0043	U	ND	0.0043	U	ND	0.0042	U	ND	0.0042	U
Endrin	NE	NE	18.3	205	ND	0.0043	U	0.0026	0.0043	J	ND	0.0042	U	ND	0.0042	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0043	U	ND	0.0043	U	ND	0.0042	U	ND	0.0042	U
Endrin ketone	NE	NE	NE	NE	ND	0.0043	U	ND	0.0043	U	ND	0.0042	U	ND	0.0042	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.022	U	ND	0.022	U	ND	0.022	U	ND	0.022	U
Toxaphene	NE	NE	4.42	17.4	ND	0.22	U	ND	0.22	U	ND	0.22	U	ND	0.22	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	NS	--	--	ND	0.052	U	ND	0.051	U	ND	0.051	U
2,4-DB	NE	NE	NE	NE	NS	--	--	ND	0.13	U	ND	0.13	U	ND	0.13	U
Dalapon	NE	NE	1800[g]	18000[g]	NS	--	--	ND	0.13	U	ND	0.13	U	ND	0.13	U
Dicamba	NE	NE	1800[g]	18000[g]	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
Dichlorprop	NE	NE	NE	NE	NS	--	--	ND	0.026	U	ND	0.026	U	ND	0.026	U
Dinoseb	NE	NE	61.0[g]	620[g]	NS	--	--	ND	0.026	U	ND	0.026	U	ND	0.026	U
MCPA	NE	NE	31.0[g]	310[g]	NS	--	--	ND	6.5	U	ND	6.4	U	ND	6.4	U
MCPP	NE	NE	61.0[g]	620[g]	NS	--	--	ND	6.5	U	ND	6.4	U	ND	6.4	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10308			10308			10308			10309		
FIELD ID					CAN103-1038-003			CAN103-1038-003			CAN103-1038-005			CAN103-1039-003		
SAMPLE DEPTH (FT BGS)					3			3			5			3		
DATE COLLECTED					December 1, 1994			December 1, 1994			December 1, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	NS	--	--	ND	51.8	U	ND	51.2	U	ND	51.2	U
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10309			10310			10310			10310		
FIELD ID					CAN103-1039-005			CAN103-10310-003			CAN103-10310-603			CAN103-10310-005		
SAMPLE DEPTH (FT BGS)					5			3			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 2, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	24,700	12.7		13,200	11.4		14,100	11.4		12,400	11.5	
Antimony	16.0	3.15	31.3	454	ND	7.6	UJ	ND	6.8	UJ	ND	6.8	UJ	ND	6.9	UJ
Arsenic	4.30	3.60	3.90	17.7	1.9	0.64		**4.6**	0.57		**4.3**	0.57		3	0.57	
Barium	890	670	15,600	223,000	250	1.3		94.4	1.1		99.2	1.1		110	1.1	
Beryllium	0.73	0.78	156	2,260	1.6	0.25		0.86	0.23		0.82	0.23		0.72	0.23	
Cadmium	1.30	0.35	70.3	897	0.72	0.64		ND	0.57	U	0.93	0.57	J	0.66	0.57	
Calcium	237,498	44,800	NE	NE	4,780	25.4		2,100	22.8		2,140	22.8		2,180	23	
Chromium	13.3	10.5	117,000	1.70E+06	22.7	1.3		11.3	1.1		12.7	1.1		12.1	1.1	
Cobalt	4.70	6.60	23[g]	300[g]	11.3	1.3		5.1	1.1		5.8	1.1		7.2	1.1	
Copper	8.30	18.3	3,130	45,400	18.9	2.5		8.3	2.3		8.9	2.3		9.6	2.3	
Iron	13,148	10,100	54,800	795,000	21,700	12.7		12,500	11.4		12,800	11.4		12,200	11.5	
Lead	8.70	12.0	400	800	19.6	3.2	J	7.6	0.57	J	8.4	1.1	J	7.6	0.57	J
Magnesium	19,300	1,930	NE	NE	4,630	25.4		2,100	22.8		2,190	22.8		2,030	23	
Manganese	333	307	1,860	26,700	902	1.3		392	1.1		410	1.1		501	1.1	
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.13	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Nickel	14.9	11.0	1,560	22,500	17	5.1		9.6	4.6		10.1	4.6		10.6	4.6	
Potassium	2,512	2,691	NE	NE	4,750	636		2,370	569		2,460	569		2,280	574	
Selenium	1.10	0.26	391	5,680	0.18	1.3	J	0.13	0.57	J	0.16	0.57	J	ND	0.57	UJ
Silver	2.65	0.40	391	5,680	ND	1.3	U	ND	1.1	U	ND	1.1	U	ND	1.1	U
Sodium	1,227	102	NE	NE	576	636	J	99.1	569	J	170	569	J	124	574	J
Thallium	2.65	0.60	0.782	11.4	0.27	0.64	J	0.18	0.57	J	0.16	0.57	J	0.15	0.57	J
Vanadium	32.8	23.3	391	5,680	32.1	1.3		24.5	1.1		24.7	1.1		21.8	1.1	
Zinc	30.6	32.2	23,500	341,000	61.8	2.5		27.2	2.3		30	2.3		29	2.3	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	0.076	0.013		0.027	0.011		0.028	0.011		0.02	0.011	
Benzene	NE	NE	15.4	84.7	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Bromomethane	NE	NE	16.5	86.5	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2-Butanone (MEK)	NE	NE	37,100	375,000	0.014	0.013		ND	0.011	U	ND	0.011	U	ND	0.011	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Chloroethane	NE	NE	NE	NE	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Chloroform	NE	NE	5.86	32.7	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Chloromethane	NE	NE	275	1,290	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10309			10310			10310			10310		
FIELD ID					CAN103-1039-005			CAN103-10310-003			CAN103-10310-603			CAN103-10310-005		
SAMPLE DEPTH (FT BGS)					5			3			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 2, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Methylene chloride	NE	NE	409	4,700	ND	0.0064	U	0.0034	0.0057	J	0.0027	0.0057	J	0.0023	0.0057	J
Styrene	NE	NE	7,280	50,000	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Toluene	NE	NE	5,270	57,700	0.0027	0.0064	J	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Acenaphthylene	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Antracene	NE	NE	17,200	183,000	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	2	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.42	U	ND	0.38	U	0.038	0.38	J	ND	0.38	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.42	U	0.071	0.38	J	ND	0.38	U	ND	0.38	U
Carbazole	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Chrysene	NE	NE	148	2,340	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Dibenzofuran	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.84	U	ND	0.75	U	ND	0.75	U	ND	0.76	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10309			10310			10310			10310		
FIELD ID					CAN103-1039-005			CAN103-10310-003			CAN103-10310-603			CAN103-10310-005		
SAMPLE DEPTH (FT BGS)					5			3			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 2, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	2	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	2	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Fluoranthene	NE	NE	2,290	24,400	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Fluorene	NE	NE	2,290	24,400	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Hexachloroethane	NE	NE	42.8	479	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Isophorone	NE	NE	5,120	137,000	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2-Methylphenol	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
4-Methylphenol	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Naphthalene	NE	NE	43.0	241	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	2	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
3-Nitroaniline	NE	NE	NE	NE	ND	2	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	2	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Nitrobenzene	NE	NE	53.5	300	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
4-Nitrophenol	NE	NE	NE	NE	ND	2	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	2	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Phenol	NE	NE	18,300	205,000	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Pyrene	NE	NE	1,720	18,300	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	2.00	U	ND	1.80	U	ND	1.80	U	ND	1.80	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.042	U	ND	0.038	U	ND	0.038	U	ND	0.038	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.042	U	ND	0.038	U	ND	0.038	U	ND	0.038	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.042	U	ND	0.038	U	ND	0.038	U	ND	0.038	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.042	U	ND	0.038	U	ND	0.038	U	ND	0.038	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.042	U	ND	0.038	U	ND	0.038	U	ND	0.038	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.042	U	ND	0.038	U	ND	0.038	U	ND	0.038	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.042	U	ND	0.038	U	ND	0.038	U	ND	0.038	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0042	U	ND	0.0038	U	ND	0.0038	U	ND	0.0038	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0042	U	0.0036	0.0038	J	0.0032	0.0038	J	ND	0.0038	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0042	U	ND	0.0038	U	ND	0.0038	U	ND	0.0038	U
Aldrin	NE	NE	0.284	1.12	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10309			10310			10310			10310		
FIELD ID					CAN103-1039-005			CAN103-10310-003			CAN103-10310-603			CAN103-10310-005		
SAMPLE DEPTH (FT BGS)					5			3			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 2, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
delta-BHC	NE	NE	NE	NE	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0042	U	ND	0.0038	U	ND	0.0038	U	ND	0.0038	U
Endosulfan I	NE	NE	367	4,100	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Endosulfan II	NE	NE	NE	NE	ND	0.0042	U	ND	0.0038	U	ND	0.0038	U	ND	0.0038	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0042	U	ND	0.0038	U	ND	0.0038	U	ND	0.0038	U
Endrin	NE	NE	18.3	205	ND	0.0042	U	ND	0.0038	U	ND	0.0038	U	ND	0.0038	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0042	U	ND	0.0038	U	ND	0.0038	U	ND	0.0038	U
Endrin ketone	NE	NE	NE	NE	ND	0.0042	U	ND	0.0038	U	ND	0.0038	U	ND	0.0038	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0022	U	0.0024	0.0019		0.0022	0.0019		0.0012	0.002	J
Heptachlor	NE	NE	1.08	4.26	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.022	U	ND	0.019	U	ND	0.019	U	ND	0.02	U
Toxaphene	NE	NE	4.42	17.4	ND	0.22	U	ND	0.19	U	ND	0.19	U	ND	0.2	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.051	U	ND	0.046	U	ND	0.046	U	ND	0.046	U
2,4-DB	NE	NE	NE	NE	ND	0.13	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.13	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dichlorprop	NE	NE	NE	NE	ND	0.025	U	ND	0.023	U	ND	0.023	U	ND	0.023	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.025	U	ND	0.023	U	ND	0.023	U	ND	0.023	U
MCPA	NE	NE	31.0[g]	310[g]	ND	6.4	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
MCPP	NE	NE	61.0[g]	620[g]	ND	6.4	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10309			10310			10310			10310		
FIELD ID					CAN103-1039-005			CAN103-10310-003			CAN103-10310-603			CAN103-10310-005		
SAMPLE DEPTH (FT BGS)					5			3			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 2, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	ND	50.9	U	ND	45.5	U	47.5	45.5		ND	45.9	U
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10311			10311			10312			10312		
FIELD ID					CAN103-10311-003			CAN103-10311-005			CAN103-1312-003			CAN103-1312-005		
SAMPLE DEPTH (FT BGS)					3			5			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 4, 1994			December 4, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	13,900	12.1		11,600	11.8		9,780	24	J	6,460	23.4	J
Antimony	16.0	3.15	31.3	454	3.3	7.3	J	ND	7.1	UJ	ND	14.4	UJ	ND	14.1	UJ
Arsenic	4.30	3.60	3.90	17.7	1.2	0.6		2	0.59		0.92	0.6		0.84	0.59	
Barium	890	670	15,600	223,000	111	1.2		132	1.2		278	2.4	J	78.8	2.3	J
Beryllium	0.73	0.78	156	2,260	0.8	0.24		0.85	0.24		0.45	0.48	J	0.32	0.47	J
Cadmium	1.30	0.35	70.3	897	ND	0.6	U	ND	0.59	U	ND	1.2	U	ND	1.2	U
Calcium	237,498	44,800	NE	NE	1,290	24.2		1,410	23.6		143,000	48		173,000	46.9	
Chromium	13.3	10.5	117,000	1.70E+06	13.4	1.2		12.5	1.2		6.4	2.4		4	2.3	
Cobalt	4.70	6.60	23[g]	300[g]	6.4	1.2		7.6	1.2		ND	2.4	U	ND	2.3	U
Copper	8.30	18.3	3,130	45,400	9.2	2.4		9.9	2.4		3.9	4.8	J	2.9	4.7	J
Iron	13,148	10,100	54,800	795,000	12,400	12.1		11,300	11.8		6,340	24		4,380	23.4	
Lead	8.70	12.0	400	800	7.6	0.6	J	8.2	0.59	J	3.7	0.6	J	3.3	0.59	J
Magnesium	19,300	1,930	NE	NE	2,760	24.2		2,740	23.6		3,860	48		3,190	46.9	
Manganese	333	307	1,860	26,700	124	1.2		198	1.2		93.8	2.4		118	2.3	
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.12	U	ND	0.12	U	ND	0.12	U	ND	0.12	U
Nickel	14.9	11.0	1,560	22,500	10.1	4.8		11.3	4.7		8.6	9.6	J	3.5	9.4	J
Potassium	2,512	2,691	NE	NE	2,920	605		2,460	591		2,130	1,200		1,500	1,170	
Selenium	1.10	0.26	391	5,680	0.15	0.6	J	0.13	0.59	J	ND	2.4	UJ	ND	1.2	U
Silver	2.65	0.40	391	5,680	ND	1.2	U	ND	1.2	U	ND	2.4	U	ND	2.3	U
Sodium	1,227	102	NE	NE	392	605	J	345	591	J	ND	1,200	U	ND	1,170	U
Thallium	2.65	0.60	0.782	11.4	0.16	0.6	J	0.21	0.59	J	ND	1.2	UJ	ND	1.2	UJ
Vanadium	32.8	23.3	391	5,680	18.7	1.2		19.8	1.2		17	2.4	J	11	2.3	J
Zinc	30.6	32.2	23,500	341,000	28.9	2.4		27.1	2.4		15.1	4.8		10.5	4.7	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	0.06	0.012		0.035	0.012		0.034	0.012		0.081	0.012	
Benzene	NE	NE	15.4	84.7	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Bromomethane	NE	NE	16.5	86.5	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.012	U	ND	0.012	U	ND	0.012	U	0.012	0.012	
Carbon disulfide	NE	NE	1,530	8,330	ND	0.006	U	0.0071	0.0059		ND	0.006	U	ND	0.0059	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Chlorobenzene	NE	NE	376	2,120	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Chloroethane	NE	NE	NE	NE	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
Chloroform	NE	NE	5.86	32.7	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Chloromethane	NE	NE	275	1,290	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Ethylbenzene	NE	NE	68.4	378	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10311			10311			10312			10312		
FIELD ID					CAN103-10311-003			CAN103-10311-005			CAN103-1312-003			CAN103-1312-005		
SAMPLE DEPTH (FT BGS)					3			5			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 4, 1994			December 4, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
Methylene chloride	NE	NE	409	4,700	0.0026	0.006	J	0.0019	0.0059	J	ND	0.006	U	ND	0.0059	U
Styrene	NE	NE	7,280	50,000	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Toluene	NE	NE	5,270	57,700	ND	0.006	U	0.0027	0.0059	J	ND	0.006	U	ND	0.0059	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
Xylenes (total)	NE	NE	814	3,980	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Acenaphthylene	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Antracene	NE	NE	17,200	183,000	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.9	U	ND	1.9	U	ND	1.9	U	ND	1.9	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Carbazole	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Chrysene	NE	NE	148	2,340	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Dibenzofuran	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.8	U	ND	0.78	U	ND	0.79	U	ND	0.77	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10311			10311			10312			10312		
FIELD ID					CAN103-10311-003			CAN103-10311-005			CAN103-1312-003			CAN103-1312-005		
SAMPLE DEPTH (FT BGS)					3			5			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 4, 1994			December 4, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.9	U	ND	1.9	U	ND	1.9	U	ND	1.9	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.9	U	ND	1.9	U	ND	1.9	U	ND	1.9	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Fluoranthene	NE	NE	2,290	24,400	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Fluorene	NE	NE	2,290	24,400	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Hexachloroethane	NE	NE	42.8	479	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Isophorone	NE	NE	5,120	137,000	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2-Methylphenol	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
4-Methylphenol	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Naphthalene	NE	NE	43.0	241	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.9	U	ND	1.9	U	ND	1.9	U	ND	1.9	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.9	U	ND	1.9	U	ND	1.9	U	ND	1.9	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.9	U	ND	1.9	U	ND	1.9	U	ND	1.9	U
Nitrobenzene	NE	NE	53.5	300	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.9	U	ND	1.9	U	ND	1.9	U	ND	1.9	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.9	U	ND	1.9	U	ND	1.9	U	ND	1.9	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Phenol	NE	NE	18,300	205,000	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Pyrene	NE	NE	1,720	18,300	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.90	U	ND	1.90	U	ND	1.90	U	ND	1.90	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.40	U	ND	0.39	U	ND	0.40	U	ND	0.39	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.04	U	ND	0.039	U	ND	0.04	U	ND	0.039	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.04	U	ND	0.039	U	ND	0.04	U	ND	0.039	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.04	U	ND	0.039	U	ND	0.04	U	ND	0.039	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.04	U	ND	0.039	U	ND	0.04	U	ND	0.039	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.04	U	ND	0.039	U	ND	0.04	U	ND	0.039	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.04	U	ND	0.039	U	ND	0.04	U	ND	0.039	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.04	U	ND	0.039	U	ND	0.04	U	ND	0.039	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
Aldrin	NE	NE	0.284	1.12	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10311			10311			10312			10312		
FIELD ID					CAN103-10311-003			CAN103-10311-005			CAN103-1312-003			CAN103-1312-005		
SAMPLE DEPTH (FT BGS)					3			5			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 4, 1994			December 4, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
delta-BHC	NE	NE	NE	NE	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
Dieldrin	NE	NE	0.304	1.20	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
Endosulfan I	NE	NE	367	4,100	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
Endosulfan II	NE	NE	NE	NE	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
Endrin	NE	NE	18.3	205	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
Endrin ketone	NE	NE	NE	NE	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.021	U	ND	0.02	U	ND	0.02	U	ND	0.02	U
Toxaphene	NE	NE	4.42	17.4	ND	0.21	U	ND	0.2	U	ND	0.2	U	ND	0.2	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.048	U	ND	0.047	U	ND	0.048	U	ND	0.047	U
2,4-DB	NE	NE	NE	NE	ND	0.12	U	ND	0.12	U	ND	0.12	U	ND	0.12	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.12	U	ND	0.12	U	ND	0.12	U	ND	0.12	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
Dichlorprop	NE	NE	NE	NE	ND	0.024	U	ND	0.024	U	ND	0.024	U	ND	0.023	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.024	U	ND	0.024	U	ND	0.024	U	ND	0.023	U
MCPA	NE	NE	31.0[g]	310[g]	ND	6	U	ND	5.9	U	ND	6	U	ND	5.9	U
MCPP	NE	NE	61.0[g]	620[g]	ND	6	U	ND	5.9	U	ND	6	U	ND	5.9	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10311			10311			10312			10312		
FIELD ID					CAN103-10311-003			CAN103-10311-005			CAN103-1312-003			CAN103-1312-005		
SAMPLE DEPTH (FT BGS)					3			5			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 4, 1994			December 4, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	ND	48.4	U	ND	47.2	U	ND	48	U	ND	46.9	U
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10313			10313			10313		
FIELD ID					CAN103-1313-0000			CAN103-1313-0005			CAN103-1313-0010			CAN103-1313-0015		
SAMPLE DEPTH (FT BGS)					0 - 0.5			3 - 5			8 - 10			13 - 15		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	4,740	20.3	J	2,480	55.9	J	4,940	21.9		4,050	11.3	
Antimony	16.0	3.15	31.3	454	ND	12.2	UJ	ND	33.5	UJ	ND	13.2	U	ND	6.8	U
Arsenic	4.30	3.60	3.90	17.7	1.2	0.51		2.5	0.56		2	0.55		1.5	0.56	
Barium	890	670	15,600	223,000	145	2	J	1,300	5.6	J	377	2.2		179	1.1	
Beryllium	0.73	0.78	156	2,260	0.26	0.41	J	ND	1.1	U	ND	0.44	U	0.25	0.23	
Cadmium	1.30	0.35	70.3	897	ND	1	U	ND	2.8	U	ND	1.1	U	ND	0.56	U
Calcium	237,498	44,800	NE	NE	162,000	40.6		329,000	112		191,000	43.8		91,700	22.6	
Chromium	13.3	10.5	117,000	1.70E+06	2.4	2	J	ND	5.6	UJ	5.3	2.2		3.6	1.1	
Cobalt	4.70	6.60	23[g]	300[g]	ND	2	U	ND	5.6	U	1.7	2.2	J	2.2	1.1	
Copper	8.30	18.3	3,130	45,400	2.6	4.1	J	ND	11.2	U	2.5	4.4	J	2.6	2.3	
Iron	13,148	10,100	54,800	795,000	3,780	20.3		1,530	55.9		3,620	21.9		2,730	11.3	
Lead	8.70	12.0	400	800	3.4	0.51		1.5	0.56		2.2	5.5	J	3.2	0.56	
Magnesium	19,300	1,930	NE	NE	2,360	40.6		4,880	112		5,950	43.8		5,800	22.6	
Manganese	333	307	1,860	26,700	42.6	2	J	15	5.6	J	50.6	2.2		51.9	1.1	
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.1	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Nickel	14.9	11.0	1,560	22,500	3.4	8.1	J	ND	22.4	U	6.6	8.8	J	4.4	4.5	J
Potassium	2,512	2,691	NE	NE	957	1,020	J	ND	2,800	U	812	1,100	J	837	565	
Selenium	1.10	0.26	391	5,680	ND	1	UJ	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ
Silver	2.65	0.40	391	5,680	ND	2	UJ	ND	5.6	UJ	ND	2.2	U	ND	1.1	U
Sodium	1,227	102	NE	NE	ND	1,020	U	ND	2,800	U	ND	1,100	U	ND	565	U
Thallium	2.65	0.60	0.782	11.4	ND	1	UJ	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ
Vanadium	32.8	23.3	391	5,680	10.4	2		9	5.6		20.8	2.2		17.4	1.1	
Zinc	30.6	32.2	23,500	341,000	9.9	4.1	J	5.7	11.2	J	9	4.4		6.1	2.3	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Benzene	NE	NE	15.4	84.7	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Bromomethane	NE	NE	16.5	86.5	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Chloroethane	NE	NE	NE	NE	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Chloroform	NE	NE	5.86	32.7	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Chloromethane	NE	NE	275	1,290	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10313			10313			10313		
FIELD ID					CAN103-1313-0000			CAN103-1313-0005			CAN103-1313-0010			CAN103-1313-0015		
SAMPLE DEPTH (FT BGS)					0 - 0.5			3 - 5			8 - 10			13 - 15		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Methylene chloride	NE	NE	409	4,700	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Styrene	NE	NE	7,280	50,000	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Toluene	NE	NE	5,270	57,700	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Acenaphthylene	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Antracene	NE	NE	17,200	183,000	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.6	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.57	U	ND	0.6	U	ND	0.6	U	ND	0.43	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Carbazole	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Chrysene	NE	NE	148	2,340	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Dibenzofuran	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.67	U	ND	0.74	U	ND	0.72	U	ND	0.75	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10313			10313			10313		
FIELD ID					CAN103-1313-0000			CAN103-1313-0005			CAN103-1313-0010			CAN103-1313-0015		
SAMPLE DEPTH (FT BGS)					0 - 0.5			3 - 5			8 - 10			13 - 15		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.6	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.6	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Fluoranthene	NE	NE	2,290	24,400	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Fluorene	NE	NE	2,290	24,400	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Hexachloroethane	NE	NE	42.8	479	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Isophorone	NE	NE	5,120	137,000	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2-Methylphenol	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
4-Methylphenol	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Naphthalene	NE	NE	43.0	241	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.6	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.6	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.6	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Nitrobenzene	NE	NE	53.5	300	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.6	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.6	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Phenol	NE	NE	18,300	205,000	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Pyrene	NE	NE	1,720	18,300	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.60	U	ND	1.80	U	ND	1.80	U	ND	1.80	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.034	U	ND	0.037	U	ND	0.036	U	ND	0.037	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.034	U	ND	0.037	U	ND	0.036	U	ND	0.037	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.034	U	ND	0.037	U	ND	0.036	U	ND	0.037	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.034	U	ND	0.037	U	ND	0.036	U	ND	0.037	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.034	U	ND	0.037	U	ND	0.036	U	ND	0.037	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.034	U	ND	0.037	U	ND	0.036	U	ND	0.037	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.034	U	ND	0.037	U	ND	0.036	U	ND	0.037	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
Aldrin	NE	NE	0.284	1.12	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10313			10313			10313		
FIELD ID					CAN103-1313-0000			CAN103-1313-0005			CAN103-1313-0010			CAN103-1313-0015		
SAMPLE DEPTH (FT BGS)					0 - 0.5			3 - 5			8 - 10			13 - 15		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
delta-BHC	NE	NE	NE	NE	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
Endosulfan I	NE	NE	367	4,100	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Endosulfan II	NE	NE	NE	NE	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
Endrin	NE	NE	18.3	205	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
Endrin ketone	NE	NE	NE	NE	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.017	U	ND	0.019	U	ND	0.019	U	ND	0.019	U
Toxaphene	NE	NE	4.42	17.4	ND	0.17	U	ND	0.19	U	ND	0.19	U	ND	0.19	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.041	UJ	ND	0.045	UJ	ND	0.044	U	ND	0.045	U
2,4-DB	NE	NE	NE	NE	ND	0.1	UJ	ND	0.11	UJ	ND	0.11	U	ND	0.11	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.1	UJ	ND	0.11	UJ	ND	0.11	U	ND	0.11	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.01	UJ	ND	0.011	UJ	ND	0.011	U	ND	0.011	U
Dichlorprop	NE	NE	NE	NE	ND	0.02	UJ	ND	0.022	UJ	ND	0.022	U	ND	0.023	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.02	UJ	ND	0.022	UJ	ND	0.022	U	ND	0.023	U
MCPA	NE	NE	31.0[g]	310[g]	ND	5.1	UJ	ND	5.6	UJ	ND	5.5	U	ND	5.6	U
MCPP	NE	NE	61.0[g]	620[g]	ND	5.1	UJ	ND	5.6	UJ	ND	5.5	U	ND	5.6	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.01	UJ	ND	0.011	UJ	ND	0.011	U	ND	0.011	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.01	UJ	ND	0.011	UJ	ND	0.011	U	ND	0.011	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313 CAN103-1313-0000 0 - 0.5 December 12, 1994			10313 CAN103-1313-0005 3 - 5 December 12, 1994			10313 CAN103-1313-0010 8 - 10 December 12, 1994			10313 CAN103-1313-0015 13 - 15 December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	ND	40.6	U	ND	44.7	U	ND	43.8	U	ND	45.2	U
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10314			10314			10314		
FIELD ID					CAN103-1313-0020			CAN103-1314-0000			CAN103-1314-0005			CAN103-1314-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	2,550	10.9	J	5,220	52.4	J	9,920	10.6	J	4,690	21.2	J
Antimony	16.0	3.15	31.3	454	ND	6.5	UJ	ND	31.4	UJ	ND	6.4	UJ	ND	12.7	UJ
Arsenic	4.30	3.60	3.90	17.7	0.96	0.54		2.1	0.52		2.9	0.53		1.6	0.53	
Barium	890	670	15,600	223,000	86.2	1.1	J	249	5.2	J	90.7	1.1	J	240	2.1	J
Beryllium	0.73	0.78	156	2,260	0.15	0.22	J	ND	1	U	0.4	0.21		ND	0.42	U
Cadmium	1.30	0.35	70.3	897	ND	0.54	U	ND	2.6	U	ND	0.53	U	ND	1.1	U
Calcium	237,498	44,800	NE	NE	81,100	21.8		260,000	105		58,700	21.2		193,000	42.4	
Chromium	13.3	10.5	117,000	1.70E+06	2.6	1.1	J	ND	5.2	UJ	8.4	1.1	J	2.4	2.1	J
Cobalt	4.70	6.60	23[g]	300[g]	1.4	1.1		2.7	5.2	J	3.4	1.1		1.7	2.1	J
Copper	8.30	18.3	3,130	45,400	1.3	2.2	J	6.4	10.5	J	5.2	2.1		2.6	4.2	J
Iron	13,148	10,100	54,800	795,000	1,860	10.9		4,430	52.4		7,990	10.6		3,640	21.2	
Lead	8.70	12.0	400	800	2.2	0.54		2.5	0.52		5.2	0.53		2.9	0.53	
Magnesium	19,300	1,930	NE	NE	3,400	21.8		2,850	105		2,260	21.2		2,880	42.4	
Manganese	333	307	1,860	26,700	21.7	1.1	J	175	5.2	J	96.3	1.1	J	95.6	2.1	J
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.11	U	ND	0.1	U	ND	0.11	U	ND	0.11	U
Nickel	14.9	11.0	1,560	22,500	2.5	4.4	J	ND	20.9	U	8.8	4.2	J	3.9	8.5	J
Potassium	2,512	2,691	NE	NE	604	545		918	2,620	J	1,560	531		980	1,060	J
Selenium	1.10	0.26	391	5,680	ND	1.1	UJ	ND	1	UJ	ND	1.1	UJ	ND	1.1	UJ
Silver	2.65	0.40	391	5,680	ND	1.1	UJ	ND	5.2	UJ	ND	1.1	UJ	ND	2.1	UJ
Sodium	1,227	102	NE	NE	ND	545	U	ND	2,620	U	ND	531	U	ND	1,060	U
Thallium	2.65	0.60	0.782	11.4	ND	1.1	UJ	ND	2.1	UJ	ND	1.1	UJ	ND	1.1	UJ
Vanadium	32.8	23.3	391	5,680	6.7	1.1		14.9	5.2		15.1	1.1		7.7	2.1	
Zinc	30.6	32.2	23,500	341,000	3.8	2.2	J	9.1	10.5	J	16.9	2.1	J	8.5	4.2	J
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	ND	0.011	U	0.0022	0.01	J	ND	0.011	U	ND	0.011	U
Benzene	NE	NE	15.4	84.7	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Chloroethane	NE	NE	NE	NE	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
Chloroform	NE	NE	5.86	32.7	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Chloromethane	NE	NE	275	1,290	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10314			10314			10314		
FIELD ID					CAN103-1313-0020			CAN103-1314-0000			CAN103-1314-0005			CAN103-1314-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
Methylene chloride	NE	NE	409	4,700	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Styrene	NE	NE	7,280	50,000	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Toluene	NE	NE	5,270	57,700	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Acenaphthylene	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Antracene	NE	NE	17,200	183,000	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.7	U	ND	1.7	U	ND	1.7	U	ND	1.7	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.62	U	ND	0.35	U	ND	0.35	U	ND	0.8	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Carbazole	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Chrysene	NE	NE	148	2,340	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Dibenzofuran	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.72	U	ND	0.69	U	ND	0.7	U	ND	0.7	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10314			10314			10314		
FIELD ID					CAN103-1313-0020			CAN103-1314-0000			CAN103-1314-0005			CAN103-1314-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.7	U	ND	1.7	U	ND	1.7	U	ND	1.7	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.7	U	ND	1.7	U	ND	1.7	U	ND	1.7	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Fluoranthene	NE	NE	2,290	24,400	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Fluorene	NE	NE	2,290	24,400	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Hexachloroethane	NE	NE	42.8	479	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Isophorone	NE	NE	5,120	137,000	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2-Methylphenol	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
4-Methylphenol	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Naphthalene	NE	NE	43.0	241	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.7	U	ND	1.7	U	ND	1.7	U	ND	1.7	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.7	U	ND	1.7	U	ND	1.7	U	ND	1.7	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.7	U	ND	1.7	U	ND	1.7	U	ND	1.7	U
Nitrobenzene	NE	NE	53.5	300	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.7	U	ND	1.7	U	ND	1.7	U	ND	1.7	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.7	U	ND	1.7	U	ND	1.7	U	ND	1.7	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Phenol	NE	NE	18,300	205,000	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Pyrene	NE	NE	1,720	18,300	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.70	U	ND	1.70	U	ND	1.70	U	ND	1.70	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.036	U	ND	0.035	U	ND	0.035	U	ND	0.035	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.036	U	ND	0.035	U	ND	0.035	U	ND	0.035	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.036	U	ND	0.035	U	ND	0.035	U	ND	0.035	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.036	U	ND	0.035	U	ND	0.035	U	ND	0.035	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.036	U	ND	0.035	U	ND	0.035	U	ND	0.035	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.036	U	ND	0.035	U	ND	0.035	U	ND	0.035	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.036	U	ND	0.035	U	ND	0.035	U	ND	0.035	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
Aldrin	NE	NE	0.284	1.12	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10314			10314			10314		
FIELD ID					CAN103-1313-0020			CAN103-1314-0000			CAN103-1314-0005			CAN103-1314-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
delta-BHC	NE	NE	NE	NE	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
Endosulfan I	NE	NE	367	4,100	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
Endosulfan II	NE	NE	NE	NE	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
Endrin	NE	NE	18.3	205	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
Endrin ketone	NE	NE	NE	NE	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.019	U	ND	0.018	U	ND	0.018	U	ND	0.018	U
Toxaphene	NE	NE	4.42	17.4	ND	0.19	U	ND	0.18	U	ND	0.18	U	ND	0.18	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.044	U	ND	0.042	U	ND	0.042	U	ND	0.042	U
2,4-DB	NE	NE	NE	NE	ND	0.11	U	ND	0.1	U	ND	0.11	U	ND	0.11	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.11	U	ND	0.1	U	ND	0.11	U	ND	0.11	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
Dichlorprop	NE	NE	NE	NE	ND	0.022	U	ND	0.021	U	ND	0.021	U	ND	0.021	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.022	U	ND	0.021	U	ND	0.021	U	ND	0.021	U
MCPA	NE	NE	31.0[g]	310[g]	ND	5.4	U	ND	5.2	U	ND	5.3	U	ND	5.3	U
MCPP	NE	NE	61.0[g]	620[g]	ND	5.4	U	ND	5.2	U	ND	5.3	U	ND	5.3	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10314			10314			10314		
FIELD ID					CAN103-1313-0020			CAN103-1314-0000			CAN103-1314-0005			CAN103-1314-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	ND	43.6	U	ND	41.9	U	ND	42.5	U	ND	42.4	U
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10314			10314			10314			10315		
FIELD ID					CAN103-1314-1363			CAN103-1314-0015			CAN103-1314-0020			CAN103-1315-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	5,920	21.1		5,490	21.6	J	5,860	11		4,680	11.9	
Antimony	16.0	3.15	31.3	454	ND	12.7	U	ND	13	UJ	ND	6.6	U	ND	7.2	UJ
Arsenic	4.30	3.60	3.90	17.7	1.7	0.53		1.6	0.54		0.87	0.55		1.2	0.6	
Barium	890	670	15,600	223,000	226	2.1		309	2.2	J	146	1.1		87.5	1.2	
Beryllium	0.73	0.78	156	2,260	ND	0.42	U	ND	0.43	U	0.25	0.22		0.4	0.24	
Cadmium	1.30	0.35	70.3	897	ND	1.1	U	ND	1.1	U	ND	0.55	U	ND	0.6	U
Calcium	237,498	44,800	NE	NE	195,000	42.3		190,000	43.3		99,500	21.9		21,700	23.8	J
Chromium	13.3	10.5	117,000	1.70E+06	4.1	2.1		3.1	2.2	J	3.8	1.1		5.6	1.2	
Cobalt	4.70	6.60	23[g]	300[g]	1.1	2.1	J	1.6	2.2	J	1.6	1.1		2.7	1.2	
Copper	8.30	18.3	3,130	45,400	2.6	4.2	J	2.9	4.3	J	2.3	2.2		7.1	2.4	
Iron	13,148	10,100	54,800	795,000	4,110	21.1		3,640	21.6		3,750	11		6,010	11.9	
Lead	8.70	12.0	400	800	3.2	0.53		2.7	0.54		3.6	0.55		6.9	0.6	J
Magnesium	19,300	1,930	NE	NE	2,980	42.3		4,550	43.3		3,840	21.9		1,960	23.8	
Manganese	333	307	1,860	26,700	116	2.1		56.8	2.2	J	31.4	1.1		94.7	1.2	
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.12	U
Nickel	14.9	11.0	1,560	22,500	3.9	8.5	J	4.9	8.7	J	4.2	4.4	J	5.7	4.8	
Potassium	2,512	2,691	NE	NE	1,210	1,060		1,030	1,080	J	1,130	548		2,280	596	
Selenium	1.10	0.26	391	5,680	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ	ND	1.2	UJ
Silver	2.65	0.40	391	5,680	ND	2.1	U	ND	2.2	UJ	ND	1.1	U	ND	1.2	U
Sodium	1,227	102	NE	NE	ND	1,060	U	ND	1,080	U	ND	548	U	ND	596	U
Thallium	2.65	0.60	0.782	11.4	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ	0.14	0.6	J
Vanadium	32.8	23.3	391	5,680	8.1	2.1		7.8	2.2		6.6	1.1		12.4	1.2	
Zinc	30.6	32.2	23,500	341,000	10	4.2		8.8	4.3	J	7.3	2.2		18.7	2.4	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
Benzene	NE	NE	15.4	84.7	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Chloroethane	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
Chloroform	NE	NE	5.86	32.7	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Chloromethane	NE	NE	275	1,290	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10314			10314			10314			10315		
FIELD ID					CAN103-1314-1363			CAN103-1314-0015			CAN103-1314-0020			CAN103-1315-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
Methylene chloride	NE	NE	409	4,700	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.0068	U
Styrene	NE	NE	7,280	50,000	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Toluene	NE	NE	5,270	57,700	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Acenaphthylene	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Antracene	NE	NE	17,200	183,000	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.36	U	ND	0.36	U	0.053	0.39	J
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.35	U	ND	0.36	U	ND	0.36	U	0.061	0.39	J
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.36	U	ND	0.36	U	0.095	0.39	J
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.7	U	ND	1.7	U	ND	1.8	U	ND	1.9	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.52	U	ND	0.51	U	ND	0.48	U	ND	0.39	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Carbazole	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Chrysene	NE	NE	148	2,340	ND	0.35	U	ND	0.36	U	ND	0.36	U	0.067	0.39	J
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Dibenzofuran	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.7	U	ND	0.71	U	ND	0.72	U	ND	0.79	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10314			10314			10314			10315		
FIELD ID					CAN103-1314-1363			CAN103-1314-0015			CAN103-1314-0020			CAN103-1315-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.7	U	ND	1.7	U	ND	1.8	U	ND	1.9	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.7	U	ND	1.7	U	ND	1.8	U	ND	1.9	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Fluoranthene	NE	NE	2,290	24,400	ND	0.35	U	ND	0.36	U	ND	0.36	U	0.069	0.39	J
Fluorene	NE	NE	2,290	24,400	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Hexachloroethane	NE	NE	42.8	479	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Isophorone	NE	NE	5,120	137,000	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2-Methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
4-Methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Naphthalene	NE	NE	43.0	241	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.7	U	ND	1.7	U	ND	1.8	U	ND	1.9	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.7	U	ND	1.7	U	ND	1.8	U	ND	1.9	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.7	U	ND	1.7	U	ND	1.8	U	ND	1.9	U
Nitrobenzene	NE	NE	53.5	300	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.7	U	ND	1.7	U	ND	1.8	U	ND	1.9	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.7	U	ND	1.7	U	ND	1.8	U	ND	1.9	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Phenol	NE	NE	18,300	205,000	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Pyrene	NE	NE	1,720	18,300	ND	0.35	U	ND	0.36	U	ND	0.36	U	0.071	0.39	J
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.70	U	ND	1.70	U	ND	1.80	U	ND	1.90	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.035	U	ND	0.036	U	ND	0.036	U	ND	0.39	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.035	U	ND	0.036	U	ND	0.036	U	ND	0.39	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.035	U	ND	0.036	U	ND	0.036	U	ND	0.39	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.035	U	ND	0.036	U	ND	0.036	U	ND	0.39	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.035	U	ND	0.036	U	ND	0.036	U	0.75	0.39	
Aroclor 1254	NE	NE	1.12	8.26	ND	0.035	U	ND	0.036	U	ND	0.036	U	ND	0.39	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.035	U	ND	0.036	U	ND	0.036	U	ND	0.39	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
Aldrin	NE	NE	0.284	1.12	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10314			10314			10314			10315		
FIELD ID					CAN103-1314-1363			CAN103-1314-0015			CAN103-1314-0020			CAN103-1315-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
delta-BHC	NE	NE	NE	NE	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
Endosulfan I	NE	NE	367	4,100	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
Endosulfan II	NE	NE	NE	NE	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
Endrin	NE	NE	18.3	205	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
Endrin ketone	NE	NE	NE	NE	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.018	U	ND	0.018	U	ND	0.019	U	ND	0.2	U
Toxaphene	NE	NE	4.42	17.4	ND	0.18	U	ND	0.18	U	ND	0.19	U	ND	2	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.042	U	ND	0.043	U	ND	0.044	U	ND	0.048	U
2,4-DB	NE	NE	NE	NE	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.12	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.12	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
Dichlorprop	NE	NE	NE	NE	ND	0.021	U	ND	0.022	U	ND	0.022	U	ND	0.024	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.021	U	ND	0.022	U	ND	0.022	U	ND	0.024	U
MCPA	NE	NE	31.0[g]	310[g]	ND	5.3	U	ND	5.4	U	ND	5.5	U	ND	6	U
MCPP	NE	NE	61.0[g]	620[g]	ND	5.3	U	ND	5.4	U	ND	5.5	U	ND	6	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10314			10314			10314			10315		
FIELD ID					CAN103-1314-1363			CAN103-1314-0015			CAN103-1314-0020			CAN103-1315-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	ND	42.3	U	ND	43.3	U	ND	43.9	U	734	47.7	J
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10315			10315			10315		
FIELD ID					CAN103-1315-0005			CAN103-1315-0010			CAN103-1315-0015			CAN103-1315-1362		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			13 - 15		
DATE COLLECTED					December 11, 1994			December 11, 1994			December 11, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	5,280	10.7		2,800	55.5		3,250	56		2,600	22.3	
Antimony	16.0	3.15	31.3	454	ND	6.4	UJ	ND	33.3	UJ	ND	33.6	U	ND	13.4	UJ
Arsenic	4.30	3.60	3.90	17.7	1.4	0.53		1.6	0.55		1.6	0.56		1.3	0.56	
Barium	890	670	15,600	223,000	143	1.1		176	5.5		147	5.6		111	2.2	
Beryllium	0.73	0.78	156	2,260	0.37	0.21		ND	1.1	U	ND	1.1	U	ND	0.45	U
Cadmium	1.30	0.35	70.3	897	ND	0.53	U	ND	2.8	U	ND	2.8	U	ND	1.1	U
Calcium	237,498	44,800	NE	NE	78,600	21.4	J	305,000	111	J	249,000	112	J	203,000	44.6	J
Chromium	13.3	10.5	117,000	1.70E+06	9.4	1.1		ND	5.5	U	ND	5.6	U	1.7	2.2	J
Cobalt	4.70	6.60	23[g]	300[g]	2.4	1.1		ND	5.5	U	ND	5.6	U	2.2	2.2	
Copper	8.30	18.3	3,130	45,400	6.4	2.1		2.5	11.1	J	4.1	11.2	J	3.3	4.5	J
Iron	13,148	10,100	54,800	795,000	5,890	10.7		3,180	55.5		3,740	56		3,060	22.3	
Lead	8.70	12.0	400	800	5.3	1.1	J	1.7	1.1	J	1.5	0.56	J	1.6	0.56	J
Magnesium	19,300	1,930	NE	NE	1,900	21.4		5,800	111		6,650	112		5,600	44.6	
Manganese	333	307	1,860	26,700	139	1.1		110	5.5		107	5.6		99.3	2.2	
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Nickel	14.9	11.0	1,560	22,500	6.3	4.3		ND	22.2	U	ND	22.4	U	4.6	8.9	J
Potassium	2,512	2,691	NE	NE	1,230	534		385	2,770	J	431	2,800	J	595	1,120	J
Selenium	1.10	0.26	391	5,680	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ
Silver	2.65	0.40	391	5,680	ND	1.1	U	ND	5.5	U	ND	5.6	U	ND	2.2	U
Sodium	1,227	102	NE	NE	213	534	J	ND	2,770	U	ND	2,800	U	ND	1,120	U
Thallium	2.65	0.60	0.782	11.4	ND	1.1	UJ	ND	2.2	U	ND	1.1	UJ	ND	1.1	UJ
Vanadium	32.8	23.3	391	5,680	13.4	1.1		16.9	5.5		18.2	5.6		15.9	2.2	
Zinc	30.6	32.2	23,500	341,000	14.2	2.1		4.9	11.1	J	3.3	11.2	J	3.6	4.5	J
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	ND	0.011	U	ND	0.011	U	ND		U	ND	0.011	U
Benzene	NE	NE	15.4	84.7	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Chloroethane	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Chloroform	NE	NE	5.86	32.7	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Chloromethane	NE	NE	275	1,290	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10315			10315			10315		
FIELD ID					CAN103-1315-0005			CAN103-1315-0010			CAN103-1315-0015			CAN103-1315-1362		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			13 - 15		
DATE COLLECTED					December 11, 1994			December 11, 1994			December 11, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Methylene chloride	NE	NE	409	4,700	ND	0.0053	U	ND	0.0055	U	ND	NA	U	ND	0.0056	U
Styrene	NE	NE	7,280	50,000	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Toluene	NE	NE	5,270	57,700	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Acenaphthylene	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Antracene	NE	NE	17,200	183,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Carbazole	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Chrysene	NE	NE	148	2,340	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Dibenzofuran	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.71	U	ND	0.73	U	ND	0.74	U	ND	0.74	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10315			10315			10315		
FIELD ID					CAN103-1315-0005			CAN103-1315-0010			CAN103-1315-0015			CAN103-1315-1362		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			13 - 15		
DATE COLLECTED					December 11, 1994			December 11, 1994			December 11, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Fluoranthene	NE	NE	2,290	24,400	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Fluorene	NE	NE	2,290	24,400	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Hexachloroethane	NE	NE	42.8	479	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Isophorone	NE	NE	5,120	137,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Naphthalene	NE	NE	43.0	241	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Nitrobenzene	NE	NE	53.5	300	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Phenol	NE	NE	18,300	205,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Pyrene	NE	NE	1,720	18,300	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.70	U	ND	1.80	U	ND	1.80	U	ND	1.80	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.035	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.035	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.035	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.035	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1248	NE	NE	2.22	8.26	0.48	0.035		ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.035	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.035	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Aldrin	NE	NE	0.284	1.12	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10315			10315			10315		
FIELD ID					CAN103-1315-0005			CAN103-1315-0010			CAN103-1315-0015			CAN103-1315-1362		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			13 - 15		
DATE COLLECTED					December 11, 1994			December 11, 1994			December 11, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
delta-BHC	NE	NE	NE	NE	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endosulfan I	NE	NE	367	4,100	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Endosulfan II	NE	NE	NE	NE	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endrin	NE	NE	18.3	205	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endrin ketone	NE	NE	NE	NE	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.018	U	ND	0.019	U	ND	0.019	U	ND	0.019	U
Toxaphene	NE	NE	4.42	17.4	ND	0.18	U	ND	0.19	U	ND	0.19	U	ND	0.19	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.043	U	ND	0.044	U	ND	0.045	U	ND	0.045	U
2,4-DB	NE	NE	NE	NE	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dichlorprop	NE	NE	NE	NE	ND	0.021	U	ND	0.022	U	ND	0.022	U	ND	0.022	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.021	U	ND	0.022	U	ND	0.022	U	ND	0.022	U
MCPA	NE	NE	31.0[g]	310[g]	ND	5.3	U	ND	5.5	U	ND	5.6	U	ND	5.6	U
MCPP	NE	NE	61.0[g]	620[g]	ND	5.3	U	ND	5.5	U	ND	5.6	U	ND	5.6	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10315			10315			10315		
FIELD ID					CAN103-1315-0005			CAN103-1315-0010			CAN103-1315-0015			CAN103-1315-1362		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			13 - 15		
DATE COLLECTED					December 11, 1994			December 11, 1994			December 11, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	ND	NA	R	ND	NA	R	ND	44.8	U	ND	NA	R
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10316			10316			10316		
FIELD ID					CAN103-1315-0020			CAN103-1316-0000			CAN103-1316-0005			CAN103-1316-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 11, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	2,410	11.2		3,370	22.1	J	6,370	10.4	J	3,860	10.7	J
Antimony	16.0	3.15	31.3	454	ND	6.7	UJ	ND	13.3	UJ	ND	6.2	UJ	ND	6.4	UJ
Arsenic	4.30	3.60	3.90	17.7	0.65	0.56		1.5	0.55		0.76	0.52		1.1	0.54	
Barium	890	670	15,600	223,000	82.2	1.1		182	2.2	J	58.7	1	J	47	1.1	J
Beryllium	0.73	0.78	156	2,260	ND	0.22	U	0.32	0.44	J	0.4	0.21		0.36	0.21	
Cadmium	1.30	0.35	70.3	897	ND	0.56	U	ND	1.1	U	ND	0.52	U	ND	0.54	U
Calcium	237,498	44,800	NE	NE	96,500	22.3	J	176,000	44.2	J	1,520	20.8	J	28,900	21.5	
Chromium	13.3	10.5	117,000	1.70E+06	2.3	1.1		1.4	2.2	J	9.1	1	J	3.9	1.1	J
Cobalt	4.70	6.60	23[g]	300[g]	0.87	1.1	J	1.5	2.2	J	2.3	1		3.4	1.1	
Copper	8.30	18.3	3,130	45,400	1.8	2.2	J	3.7	4.4	J	7.1	2.1		3.9	2.1	
Iron	13,148	10,100	54,800	795,000	2,370	11.2		3,110	22.1	J	7,110	10.4	J	4,750	10.7	
Lead	8.70	12.0	400	800	1.6	0.56	J	3.6	1.1	J	7.2	0.52	J	5.9	0.54	
Magnesium	19,300	1,930	NE	NE	2,240	22.3		2,860	44.2		1,160	20.8		1,940	21.5	
Manganese	333	307	1,860	26,700	54.8	1.1		83.8	2.2		31.2	1		77.1	1.1	J
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.11	U	ND	0.11	U	0.14	0.1		ND	0.11	U
Nickel	14.9	11.0	1,560	22,500	ND	4.5	U	5.5	8.8	J	4.9	4.2		6.1	4.3	J
Potassium	2,512	2,691	NE	NE	684	559		1,430	1,100		1,410	521		1,060	537	
Selenium	1.10	0.26	391	5,680	ND	1.1	UJ	ND	1.1	UJ	ND	0.52	UJ	ND	1.1	U
Silver	2.65	0.40	391	5,680	ND	1.1	U	ND	2.2	U	1.9	1		ND	1.1	UJ
Sodium	1,227	102	NE	NE	ND	559	U	ND	1,100	U	ND	521	U	ND	537	U
Thallium	2.65	0.60	0.782	11.4	ND	1.1	UJ	ND	1.1	UJ	ND	0.52	UJ	ND	1.1	U
Vanadium	32.8	23.3	391	5,680	5.5	1.1		10	2.2	J	15.5	1	J	16.6	1.1	
Zinc	30.6	32.2	23,500	341,000	4.4	2.2		9	4.4	J	31.3	2.1	J	8.3	2.1	J
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	ND		U	ND	0.011	U	ND	0.01	U	ND	0.011	U
Benzene	NE	NE	15.4	84.7	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	ND	0.011	U	ND	0.01	U	ND	0.011	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.011	U	ND	0.011	U	ND	0.01	U	ND	0.011	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Chloroethane	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.01	U	ND	0.011	U
Chloroform	NE	NE	5.86	32.7	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Chloromethane	NE	NE	275	1,290	ND	0.011	U	ND	0.011	U	ND	0.01	U	ND	0.011	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.011	U	ND	0.011	U	ND	0.01	U	ND	0.011	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10316			10316			10316		
FIELD ID					CAN103-1315-0020			CAN103-1316-0000			CAN103-1316-0005			CAN103-1316-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 11, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.011	U	ND	0.011	U	ND	0.01	U	ND	0.011	U
Methylene chloride	NE	NE	409	4,700	ND	NA	U	0.002	0.0055	J	0.002	0.0052	J	ND	0.0054	U
Styrene	NE	NE	7,280	50,000	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Toluene	NE	NE	5,270	57,700	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.011	U	ND	0.011	U	ND	0.01	U	ND	0.011	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.011	U	ND	0.011	U	ND	0.01	U	ND	0.011	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Acenaphthylene	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Antracene	NE	NE	17,200	183,000	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.8	U	ND	1.8	U	ND	1.7	U	ND	1.7	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	5.8	0.37		ND	0.36	U	ND	0.57	U	ND	0.62	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Carbazole	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Chrysene	NE	NE	148	2,340	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Di-n-octyl phthalate	NE	NE	NE	NE	0.43	0.37		ND	0.36	U	ND	0.34	U	ND	0.35	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Dibenzofuran	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.74	U	ND	0.73	U	ND	0.69	U	ND	0.71	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10316			10316			10316		
FIELD ID					CAN103-1315-0020			CAN103-1316-0000			CAN103-1316-0005			CAN103-1316-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 11, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.8	U	ND	1.8	U	ND	1.7	U	ND	1.7	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.8	U	ND	1.8	U	ND	1.7	U	ND	1.7	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Fluoranthene	NE	NE	2,290	24,400	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Fluorene	NE	NE	2,290	24,400	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Hexachloroethane	NE	NE	42.8	479	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Isophorone	NE	NE	5,120	137,000	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2-Methylphenol	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
4-Methylphenol	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Naphthalene	NE	NE	43.0	241	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.8	U	ND	1.8	U	ND	1.7	U	ND	1.7	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.8	U	ND	1.8	U	ND	1.7	U	ND	1.7	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.8	U	ND	1.8	U	ND	1.7	U	ND	1.7	U
Nitrobenzene	NE	NE	53.5	300	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.8	U	ND	1.8	U	ND	1.7	U	ND	1.7	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.8	U	ND	1.8	U	ND	1.7	U	ND	1.7	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Phenol	NE	NE	18,300	205,000	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Pyrene	NE	NE	1,720	18,300	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.80	U	ND	1.80	U	ND	1.70	U	ND	1.70	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.037	U	NS	--	--	NS	--	--	ND	0.035	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.037	U	NS	--	--	NS	--	--	ND	0.035	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.037	U	NS	--	--	NS	--	--	ND	0.035	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.037	U	NS	--	--	NS	--	--	ND	0.035	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.037	U	NS	--	--	NS	--	--	ND	0.035	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.037	U	NS	--	--	NS	--	--	ND	0.035	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.037	U	NS	--	--	NS	--	--	ND	0.035	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
Aldrin	NE	NE	0.284	1.12	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10316			10316			10316		
FIELD ID					CAN103-1315-0020			CAN103-1316-0000			CAN103-1316-0005			CAN103-1316-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 11, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
delta-BHC	NE	NE	NE	NE	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
Endosulfan I	NE	NE	367	4,100	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
Endosulfan II	NE	NE	NE	NE	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
Endrin	NE	NE	18.3	205	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
Endrin ketone	NE	NE	NE	NE	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.019	U	NS	--	--	NS	--	--	ND	0.018	U
Toxaphene	NE	NE	4.42	17.4	ND	0.19	U	NS	--	--	NS	--	--	ND	0.18	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.045	U	NS	--	--	NS	--	--	ND	0.043	U
2,4-DB	NE	NE	NE	NE	ND	0.11	U	NS	--	--	NS	--	--	ND	0.11	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.11	U	NS	--	--	NS	--	--	ND	0.11	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.011	U	NS	--	--	NS	--	--	ND	0.011	U
Dichlorprop	NE	NE	NE	NE	ND	0.022	U	NS	--	--	NS	--	--	ND	0.021	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.022	U	NS	--	--	NS	--	--	ND	0.021	U
MCPA	NE	NE	31.0[g]	310[g]	ND	5.6	U	NS	--	--	NS	--	--	ND	5.4	U
MCPP	NE	NE	61.0[g]	620[g]	ND	5.6	U	NS	--	--	NS	--	--	ND	5.4	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.011	U	NS	--	--	NS	--	--	ND	0.011	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.011	U	NS	--	--	NS	--	--	ND	0.011	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10316			10316			10316		
FIELD ID					CAN103-1315-0020			CAN103-1316-0000			CAN103-1316-0005			CAN103-1316-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 11, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	ND	NA	R	ND	44.2	U	ND	41.7	U	58.5	43	
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10316			10316			10316			10317		
FIELD ID					CAN103-1316-1364			CAN103-1316-0015			CAN103-1316-0020			CAN103-1317-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	7,300	10.7	J	4,530	22.8	J	3,870	11.2	J	6,220	10.8	
Antimony	16.0	3.15	31.3	454	ND	6.4	UJ	ND	13.7	UJ	ND	6.7	UJ	4.9	6.5	J
Arsenic	4.30	3.60	3.90	17.7	1.2	0.54		1.5	0.57		0.78	0.56		2.2	0.54	
Barium	890	670	15,600	223,000	48.8	1.1	J	313	2.3	J	92.4	1.1	J	105	1.1	
Beryllium	0.73	0.78	156	2,260	0.43	0.21		ND	0.46	U	0.3	0.22		0.43	0.22	
Cadmium	1.30	0.35	70.3	897	ND	0.54	U	ND	1.1	U	ND	0.56	U	ND	0.54	U
Calcium	237,498	44,800	NE	NE	22,800	21.5		144,000	45.7		29,300	22.3		73,600	21.7	
Chromium	13.3	10.5	117,000	1.70E+06	7	1.1	J	2.9	2.3	J	3.5	1.1	J	5.4	1.1	
Cobalt	4.70	6.60	23[g]	300[g]	3.5	1.1		2.2	2.3	J	2.6	1.1		2.6	1.1	
Copper	8.30	18.3	3,130	45,400	3.9	2.1		4.5	4.6	J	2.9	2.2		6.6	2.2	
Iron	13,148	10,100	54,800	795,000	7,690	10.7		4,680	22.8		3,710	11.2		5,670	10.8	
Lead	8.70	12.0	400	800	6.3	0.54		6.2	1.1		4	2.8		6	0.54	
Magnesium	19,300	1,930	NE	NE	2,440	21.5		3,140	45.7		2,110	22.3		1,950	21.7	
Manganese	333	307	1,860	26,700	105	1.1	J	74.9	2.3	J	41.2	1.1	J	127	1.1	J
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Nickel	14.9	11.0	1,560	22,500	8.1	4.3	J	3.3	9.1	J	4.7	4.5	J	6.9	4.3	
Potassium	2,512	2,691	NE	NE	1,600	536		1,380	1,140		1,250	558		2,140	542	
Selenium	1.10	0.26	391	5,680	ND	1.1	UJ	ND	2.3	UJ	ND	1.1	UJ	ND	1.1	UJ
Silver	2.65	0.40	391	5,680	ND	1.1	UJ	ND	2.3	UJ	ND	1.1	UJ	ND	1.1	U
Sodium	1,227	102	NE	NE	ND	536	U	ND	1,140	U	ND	558	U	ND	542	U
Thallium	2.65	0.60	0.782	11.4	ND	0.54	UJ	ND	1.1	UJ	ND	0.56	UJ	ND	1.1	UJ
Vanadium	32.8	23.3	391	5,680	18.8	1.1		13.8	2.3		9.5	1.1		15.6	1.1	
Zinc	30.6	32.2	23,500	341,000	13.6	2.1	J	8.2	4.6	J	8.3	2.2	J	15.7	2.2	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	0.0049	0.011	J	ND	0.011	U	0.008	0.011	J	ND	0.011	U
Benzene	NE	NE	15.4	84.7	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Chloroethane	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Chloroform	NE	NE	5.86	32.7	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Chloromethane	NE	NE	275	1,290	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10316			10316			10316			10317		
FIELD ID					CAN103-1316-1364			CAN103-1316-0015			CAN103-1316-0020			CAN103-1317-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Methylene chloride	NE	NE	409	4,700	0.0049	0.0054	J	ND	0.0057	U	ND	0.0056	U	ND	0.0054	UJ
Styrene	NE	NE	7,280	50,000	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Toluene	NE	NE	5,270	57,700	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Acenaphthylene	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Antracene	NE	NE	17,200	183,000	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.7	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.72	U	ND	0.97	U	ND	0.49	U	ND	0.36	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Carbazole	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
4-Chloroaniline	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2-Chlorophenol	NE	NE	391	5,680	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Chrysene	NE	NE	148	2,340	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Dibenzofuran	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.71	U	ND	0.75	U	ND	0.74	U	ND	0.72	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10316			10316			10316			10317		
FIELD ID					CAN103-1316-1364			CAN103-1316-0015			CAN103-1316-0020			CAN103-1317-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.7	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.7	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Fluoranthene	NE	NE	2,290	24,400	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Fluorene	NE	NE	2,290	24,400	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Hexachloroethane	NE	NE	42.8	479	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Isophorone	NE	NE	5,120	137,000	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2-Methylphenol	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
4-Methylphenol	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Naphthalene	NE	NE	43.0	241	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.7	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.7	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.7	U
Nitrobenzene	NE	NE	53.5	300	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2-Nitrophenol	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.7	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.7	U
Phenanthrene	NE	NE	1,830	20,500	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Phenol	NE	NE	18,300	205,000	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Pyrene	NE	NE	1,720	18,300	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.70	U	ND	1.80	U	ND	1.80	U	ND	1.70	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	3.50	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.035	U	ND	0.038	U	ND	0.037	U	ND	0.036	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.035	U	ND	0.038	U	ND	0.037	U	ND	0.036	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.035	U	ND	0.038	U	ND	0.037	U	ND	0.036	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.035	U	ND	0.038	U	ND	0.037	U	ND	0.036	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.035	U	ND	0.038	U	ND	0.037	U	ND	0.036	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.035	U	ND	0.038	U	ND	0.037	U	ND	0.036	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.035	U	ND	0.038	U	ND	0.037	U	ND	0.036	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
Aldrin	NE	NE	0.284	1.12	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10316			10316			10316			10317		
FIELD ID					CAN103-1316-1364			CAN103-1316-0015			CAN103-1316-0020			CAN103-1317-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
delta-BHC	NE	NE	NE	NE	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
Endosulfan I	NE	NE	367	4,100	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
Endosulfan II	NE	NE	NE	NE	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
Endrin	NE	NE	18.3	205	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
Endrin ketone	NE	NE	NE	NE	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.018	U	ND	0.019	U	ND	0.019	U	ND	0.018	U
Toxaphene	NE	NE	4.42	17.4	ND	0.18	U	ND	0.19	U	ND	0.19	U	ND	0.18	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.043	U	ND	0.046	U	ND	0.045	U	ND	0.043	U
2,4-DB	NE	NE	NE	NE	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dichlorprop	NE	NE	NE	NE	ND	0.021	U	ND	0.023	U	ND	0.022	U	ND	0.022	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.021	U	ND	0.023	U	ND	0.022	U	ND	0.022	U
MCPA	NE	NE	31.0[g]	310[g]	ND	5.4	U	ND	5.7	U	ND	5.6	U	ND	5.4	U
MCPP	NE	NE	61.0[g]	620[g]	ND	5.4	U	ND	5.7	U	ND	5.6	U	ND	5.4	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10316			10316			10316			10317		
FIELD ID					CAN103-1316-1364			CAN103-1316-0015			CAN103-1316-0020			CAN103-1317-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	50.8	42.9		ND	45.7	U	ND	44.6	U	ND	43.4	U
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10317			10317			10317			10317		
FIELD ID					CAN103-1317-0005			CAN103-1317-0010			CAN103-1317-0015			CAN103-1317-0020		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			18 - 20		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	5,390	10.6		4,090	22.4		4,440	22.4		6,170	11.1	
Antimony	16.0	3.15	31.3	454	ND	6.4	UJ	ND	13.5	UJ	ND	13.5	UJ	ND	6.6	UJ
Arsenic	4.30	3.60	3.90	17.7	1.7	0.53		1.8	0.56		1	0.56		1.2	0.55	
Barium	890	670	15,600	223,000	144	1.1		333	2.2		67.5	2.2		223	1.1	
Beryllium	0.73	0.78	156	2,260	0.36	0.21		ND	0.45	U	ND	0.45	U	0.4	0.22	
Cadmium	1.30	0.35	70.3	897	ND	0.53	U	ND	1.1	U	ND	1.1	U	ND	0.55	U
Calcium	237,498	44,800	NE	NE	77,700	21.3		197,000	44.9		140,000	44.9		11,800	22.1	
Chromium	13.3	10.5	117,000	1.70E+06	6.3	1.1		3.9	2.2		2.2	2.2		5.5	1.1	
Cobalt	4.70	6.60	23[g]	300[g]	2.9	1.1		3.2	2.2		1.7	2.2	J	2.3	1.1	
Copper	8.30	18.3	3,130	45,400	8.6	2.1		2.6	4.5	J	1.4	4.5	J	3	2.2	
Iron	13,148	10,100	54,800	795,000	5,310	10.6		2,460	22.4		2,920	22.4		5,140	11.1	
Lead	8.70	12.0	400	800	6.2	1.1		1.7	1.1		2.4	1.1		4.3	0.55	
Magnesium	19,300	1,930	NE	NE	1,980	21.3		9,160	44.9		7,140	44.9		5,120	22.1	
Manganese	333	307	1,860	26,700	77.3	1.1	J	24.9	2.2	J	30.1	2.2	J	34.6	1.1	J
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	0.14	0.11		ND	0.11	U	ND	0.11	U	ND	0.11	U
Nickel	14.9	11.0	1,560	22,500	6.7	4.3		9.2	9		5.2	9	J	5.5	4.4	
Potassium	2,512	2,691	NE	NE	1,280	532		723	1,120	J	696	1,120	J	2,100	553	
Selenium	1.10	0.26	391	5,680	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ
Silver	2.65	0.40	391	5,680	4.6	1.1		ND	2.2	U	ND	2.2	U	ND	1.1	U
Sodium	1,227	102	NE	NE	354	532	J	ND	1,120	U	ND	1,120	U	310	553	J
Thallium	2.65	0.60	0.782	11.4	ND	1.1	UJ	ND	2.2	U	ND	1.1	UJ	ND	0.55	U
Vanadium	32.8	23.3	391	5,680	16.4	1.1		18.4	2.2		18.7	2.2		14.3	1.1	
Zinc	30.6	32.2	23,500	341,000	43.3	2.1		6.2	4.5		6.3	4.5		9.3	2.2	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	ND	0.011	UJ	ND	0.011	UJ	0.0057	0.011	J	ND	0.011	U
Benzene	NE	NE	15.4	84.7	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Chloroethane	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Chloroform	NE	NE	5.86	32.7	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Chloromethane	NE	NE	275	1,290	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10317			10317			10317			10317		
FIELD ID					CAN103-1317-0005			CAN103-1317-0010			CAN103-1317-0015			CAN103-1317-0020		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			18 - 20		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Methylene chloride	NE	NE	409	4,700	ND	0.0053	UJ	ND	0.0056	UJ	0.0024	0.0056	J	ND	0.0055	UJ
Styrene	NE	NE	7,280	50,000	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Toluene	NE	NE	5,270	57,700	0.002	0.0053	J	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Acenaphthylene	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Antracene	NE	NE	17,200	183,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Carbazole	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Chrysene	NE	NE	148	2,340	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Dibenzofuran	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.7	U	ND	0.74	U	ND	0.74	U	ND	0.73	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10317			10317			10317			10317		
FIELD ID					CAN103-1317-0005			CAN103-1317-0010			CAN103-1317-0015			CAN103-1317-0020		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			18 - 20		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Fluoranthene	NE	NE	2,290	24,400	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Fluorene	NE	NE	2,290	24,400	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Hexachloroethane	NE	NE	42.8	479	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Isophorone	NE	NE	5,120	137,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Naphthalene	NE	NE	43.0	241	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Nitrobenzene	NE	NE	53.5	300	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Phenol	NE	NE	18,300	205,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Pyrene	NE	NE	1,720	18,300	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.70	U	ND	1.80	U	ND	1.80	U	ND	1.80	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.35	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.35	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.35	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.35	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.35	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.35	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.35	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
4,4'-DDE	NE	NE	14.3	56.3	0.20	0.035		ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
4,4'-DDT	NE	NE	17.2	78.1	0.24	0.035		ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Aldrin	NE	NE	0.284	1.12	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10317			10317			10317			10317		
FIELD ID					CAN103-1317-0005			CAN103-1317-0010			CAN103-1317-0015			CAN103-1317-0020		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			18 - 20		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
beta-BHC	NE	NE	2.70	10.6	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
delta-BHC	NE	NE	NE	NE	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Dieldrin	NE	NE	0.304	1.20	ND	0.035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endosulfan I	NE	NE	367	4,100	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Endosulfan II	NE	NE	NE	NE	ND	0.035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endrin	NE	NE	18.3	205	ND	0.035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endrin ketone	NE	NE	NE	NE	ND	0.035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Heptachlor	NE	NE	1.08	4.26	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.18	U	ND	0.019	U	ND	0.019	U	ND	0.019	U
Toxaphene	NE	NE	4.42	17.4	ND	1.8	U	ND	0.19	U	ND	0.19	U	ND	0.19	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.043	U	ND	0.045	U	ND	0.045	U	ND	0.044	U
2,4-DB	NE	NE	NE	NE	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dichlorprop	NE	NE	NE	NE	ND	0.021	U	ND	0.022	U	ND	0.022	U	ND	0.022	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.021	U	ND	0.022	U	ND	0.022	U	ND	0.022	U
MCPA	NE	NE	31.0[g]	310[g]	ND	5.3	U	ND	5.6	U	ND	5.6	U	ND	5.5	U
MCPP	NE	NE	61.0[g]	620[g]	ND	5.3	U	ND	5.6	U	ND	5.6	U	ND	5.5	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10317			10317			10317			10317		
FIELD ID					CAN103-1317-0005			CAN103-1317-0010			CAN103-1317-0015			CAN103-1317-0020		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			18 - 20		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	64.4	42.5		ND	44.9	U	ND	44.9	U	ND	44.2	U
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			10318			10318			10318		
FIELD ID					CAN103-1318-0000			CAN103-1318-0005			CAN103-1318-0010			CAN103-1318-0015		
SAMPLE DEPTH (FT BGS)					0 - 0.5			3 - 5			8 - 10			13 - 15		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	7,140	11		5,330	22.6		6,250	11.2		3,690	23	
Antimony	16.0	3.15	31.3	454	ND	6.6	UJ	ND	13.6	U	ND	6.7	UJ	ND	13.8	UJ
Arsenic	4.30	3.60	3.90	17.7	1.9	0.55		0.95	0.57		1.5	0.56		1.1	0.57	
Barium	890	670	15,600	223,000	124	1.1		133	2.3		89.6	1.1		88.8	2.3	
Beryllium	0.73	0.78	156	2,260	0.48	0.22		ND	0.45	U	0.44	0.22		ND	0.46	U
Cadmium	1.30	0.35	70.3	897	ND	0.55	U	ND	1.1	U	ND	0.56	U	ND	1.1	U
Calcium	237,498	44,800	NE	NE	22,300	22.1		147,000	45.2		50,000	22.4		172,000	45.9	
Chromium	13.3	10.5	117,000	1.70E+06	6.8	1.1		3.8	2.3		5.7	1.1		1.6	2.3	J
Cobalt	4.70	6.60	23[g]	300[g]	2.9	1.1		2.4	2.3		3.7	1.1		3	2.3	
Copper	8.30	18.3	3,130	45,400	7.2	2.2		5.1	4.5		6.6	2.2		2.2	4.6	J
Iron	13,148	10,100	54,800	795,000	6,900	11		4,450	22.6		5,730	11.2		2,690	23	
Lead	8.70	12.0	400	800	9.8	1.1		3.8	0.57		5.3	0.56		2.1	0.57	
Magnesium	19,300	1,930	NE	NE	1,700	22.1		2,840	45.2		2,650	22.4		5,230	45.9	
Manganese	333	307	1,860	26,700	142	1.1	J	70.5	2.3		336	1.1	J	25.8	2.3	J
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Nickel	14.9	11.0	1,560	22,500	6.5	4.4		4.3	9	J	7.7	4.5		8	9.2	J
Potassium	2,512	2,691	NE	NE	1,750	552		1,060	1130	J	1,360	560		656	1,150	J
Selenium	1.10	0.26	391	5,680	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ
Silver	2.65	0.40	391	5,680	ND	1.1	U	ND	2.3	U	ND	1.1	U	ND	2.3	U
Sodium	1,227	102	NE	NE	ND	552	U	ND	1130	U	ND	560	U	ND	1,150	U
Thallium	2.65	0.60	0.782	11.4	ND	0.55	U	0.12	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ
Vanadium	32.8	23.3	391	5,680	15.6	1.1		10.2	2.3		10.8	1.1		9.8	2.3	
Zinc	30.6	32.2	23,500	341,000	20.6	2.2		11.9	4.5		14.5	2.2		5.8	4.6	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	ND	0.011	UJ	ND	0.011	U	0.0038	0.011	J	0.022	0.011	
Benzene	NE	NE	15.4	84.7	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Chloroethane	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Chloroform	NE	NE	5.86	32.7	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Chloromethane	NE	NE	275	1,290	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			10318			10318			10318		
FIELD ID					CAN103-1318-0000			CAN103-1318-0005			CAN103-1318-0010			CAN103-1318-0015		
SAMPLE DEPTH (FT BGS)					0 - 0.5			3 - 5			8 - 10			13 - 15		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Methylene chloride	NE	NE	409	4,700	ND	0.0055	UJ	ND	0.0057	U	0.0055	0.0056	J	ND	0.0057	UJ
Styrene	NE	NE	7,280	50,000	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Toluene	NE	NE	5,270	57,700	0.0011	0.0055	J	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Acenaphthylene	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Antracene	NE	NE	17,200	183,000	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.8	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Carbazole	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Chrysene	NE	NE	148	2,340	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Dibenzofuran	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.73	U	ND	0.75	U	ND	0.74	U	ND	0.76	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			10318			10318			10318		
FIELD ID					CAN103-1318-0000			CAN103-1318-0005			CAN103-1318-0010			CAN103-1318-0015		
SAMPLE DEPTH (FT BGS)					0 - 0.5			3 - 5			8 - 10			13 - 15		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.8	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.8	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Fluoranthene	NE	NE	2,290	24,400	0.044	0.36	J	ND	0.37	U	ND	0.37	U	ND	0.38	U
Fluorene	NE	NE	2,290	24,400	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Hexachloroethane	NE	NE	42.8	479	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Isophorone	NE	NE	5,120	137,000	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2-Methylphenol	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
4-Methylphenol	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Naphthalene	NE	NE	43.0	241	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.8	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.8	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.8	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Nitrobenzene	NE	NE	53.5	300	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.8	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.8	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Phenol	NE	NE	18,300	205,000	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Pyrene	NE	NE	1,720	18,300	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.80	U	ND	1.80	U	ND	1.80	U	ND	1.80	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.036	U	ND	0.037	U	ND	0.037	U	ND	0.038	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.036	U	ND	0.037	U	ND	0.037	U	ND	0.038	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.036	U	ND	0.037	U	ND	0.037	U	ND	0.038	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.036	U	ND	0.037	U	ND	0.037	U	ND	0.038	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.036	U	ND	0.037	U	ND	0.037	U	ND	0.038	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.036	U	ND	0.037	U	ND	0.037	U	ND	0.038	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.036	U	ND	0.037	U	ND	0.037	U	ND	0.038	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0036	U	ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
4,4'-DDE	NE	NE	14.3	56.3	0.0024	0.0036	J	ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
4,4'-DDT	NE	NE	17.2	78.1	0.0037	0.0036		ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
Aldrin	NE	NE	0.284	1.12	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			10318			10318			10318		
FIELD ID					CAN103-1318-0000			CAN103-1318-0005			CAN103-1318-0010			CAN103-1318-0015		
SAMPLE DEPTH (FT BGS)					0 - 0.5			3 - 5			8 - 10			13 - 15		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
delta-BHC	NE	NE	NE	NE	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0036	U	ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
Endosulfan I	NE	NE	367	4,100	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Endosulfan II	NE	NE	NE	NE	ND	0.0036	U	ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0036	U	ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
Endrin	NE	NE	18.3	205	ND	0.0036	U	ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0036	U	ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
Endrin ketone	NE	NE	NE	NE	ND	0.0036	U	ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.019	U	ND	0.019	U	ND	0.019	U	ND	0.02	U
Toxaphene	NE	NE	4.42	17.4	ND	0.19	U	ND	0.19	U	ND	0.19	U	ND	0.2	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.044	U	ND	0.045	U	ND	0.045	U	ND	0.046	U
2,4-DB	NE	NE	NE	NE	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dichlorprop	NE	NE	NE	NE	ND	0.022	U	ND	0.023	U	ND	0.022	U	ND	0.023	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.022	U	ND	0.023	U	ND	0.022	U	ND	0.023	U
MCPA	NE	NE	31.0[g]	310[g]	ND	5.5	U	ND	5.7	U	ND	5.6	U	ND	5.7	U
MCPP	NE	NE	61.0[g]	620[g]	ND	5.5	U	ND	5.7	U	ND	5.6	U	ND	5.7	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318 CAN103-1318-0000 0 - 0.5 December 12, 1994			10318 CAN103-1318-0005 3 - 5 December 12, 1994			10318 CAN103-1318-0010 8 - 10 December 12, 1994			10318 CAN103-1318-0015 13 - 15 December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	132	44.2		ND	45.2	U	ND	44.8	U	ND	45.9	U
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			SD01			SD02			SD03		
FIELD ID					CAN103-1318-0020			C103-SD01-0.5			C103-SD02-0.5			C103-SD03-0.5		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					December 12, 1994			October 18, 2010			October 18, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	2,550	22.2		NS	--	--	NS	--	--	NS	--	--
Antimony	16.0	3.15	31.3	454	ND	13.3	UJ	NS	--	--	NS	--	--	NS	--	--
Arsenic	4.30	3.60	3.90	17.7	1.1	0.55		1.6	0.66		1.6	0.71		1.6	1	
Barium	890	670	15,600	223,000	66.5	2.2		NS	--	--	NS	--	--	NS	--	--
Beryllium	0.73	0.78	156	2,260	ND	0.44	U	NS	--	--	NS	--	--	NS	--	--
Cadmium	1.30	0.35	70.3	897	ND	1.1	U	NS	--	--	NS	--	--	NS	--	--
Calcium	237,498	44,800	NE	NE	127,000	44.3		NS	--	--	NS	--	--	NS	--	--
Chromium	13.3	10.5	117,000	1.70E+06	1.8	2.2	J	NS	--	--	NS	--	--	NS	--	--
Cobalt	4.70	6.60	23[g]	300[g]	2	2.2	J	NS	--	--	NS	--	--	NS	--	--
Copper	8.30	18.3	3,130	45,400	1.9	4.4	J	NS	--	--	NS	--	--	NS	--	--
Iron	13,148	10,100	54,800	795,000	2,220	22.2		NS	--	--	NS	--	--	NS	--	--
Lead	8.70	12.0	400	800	1.7	1.1		NS	--	--	NS	--	--	NS	--	--
Magnesium	19,300	1,930	NE	NE	2,310	44.3		NS	--	--	NS	--	--	NS	--	--
Manganese	333	307	1,860	26,700	28.2	2.2	J	NS	--	--	NS	--	--	NS	--	--
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.11	U	NS	--	--	NS	--	--	NS	--	--
Nickel	14.9	11.0	1,560	22,500	5	8.9	J	NS	--	--	NS	--	--	NS	--	--
Potassium	2,512	2,691	NE	NE	678	1,110	J	NS	--	--	NS	--	--	NS	--	--
Selenium	1.10	0.26	391	5,680	ND	1.1	UJ	0.33	0.66	J	ND	0.71	U	3.7	1	
Silver	2.65	0.40	391	5,680	ND	2.2	U	0.76	0.13		1.1	0.14	J	10.2	0.21	
Sodium	1,227	102	NE	NE	ND	1,110	U	NS	--	--	NS	--	--	NS	--	--
Thallium	2.65	0.60	0.782	11.4	ND	1.1	UJ	NS	--	--	NS	--	--	NS	--	--
Vanadium	32.8	23.3	391	5,680	5.2	2.2		6.8	0.66		7.1	0.71	J	29.7	1	
Zinc	30.6	32.2	23,500	341,000	4.8	4.4		NS	--	--	NS	--	--	NS	--	--
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	0.018	0.011		NS	--	--	NS	--	--	NS	--	--
Benzene	NE	NE	15.4	84.7	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Chlorobenzene	NE	NE	376	2,120	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Chloroethane	NE	NE	NE	NE	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Chloromethane	NE	NE	275	1,290	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Ethylbenzene	NE	NE	68.4	378	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			SD01			SD02			SD03		
FIELD ID					CAN103-1318-0020			C103-SD01-0.5			C103-SD02-0.5			C103-SD03-0.5		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					December 12, 1994			October 18, 2010			October 18, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
Methylene chloride	NE	NE	409	4,700	ND	0.0055	UJ	NS	--	--	NS	--	--	NS	--	--
Styrene	NE	NE	7,280	50,000	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	0.0019	0.0055	J	NS	--	--	NS	--	--	NS	--	--
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Trichloroethene	NE	NE	8.77	41.3	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Vinyl acetate	NE	NE	2,560	12,300	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
Vinyl chloride	NE	NE	0.728	26.1	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
Xylenes (total)	NE	NE	814	3,980	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Acenaphthylene	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Antracene	NE	NE	17,200	183,000	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.8	U	NS	--	--	NS	--	--	NS	--	--
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Carbazole	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
4-Chloroaniline	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2-Chlorophenol	NE	NE	391	5,680	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Chrysene	NE	NE	148	2,340	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Dibenzofuran	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.73	U	NS	--	--	NS	--	--	NS	--	--
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			SD01			SD02			SD03		
FIELD ID					CAN103-1318-0020			C103-SD01-0.5			C103-SD02-0.5			C103-SD03-0.5		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					December 12, 1994			October 18, 2010			October 18, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.8	U	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.8	U	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Fluoranthene	NE	NE	2,290	24,400	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Fluorene	NE	NE	2,290	24,400	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Hexachloroethane	NE	NE	42.8	479	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Isophorone	NE	NE	5,120	137,000	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2-Methylphenol	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
4-Methylphenol	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Naphthalene	NE	NE	43.0	241	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.8	U	NS	--	--	NS	--	--	NS	--	--
3-Nitroaniline	NE	NE	NE	NE	ND	1.8	U	NS	--	--	NS	--	--	NS	--	--
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.8	U	NS	--	--	NS	--	--	NS	--	--
Nitrobenzene	NE	NE	53.5	300	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2-Nitrophenol	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
4-Nitrophenol	NE	NE	NE	NE	ND	1.8	U	NS	--	--	NS	--	--	NS	--	--
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.8	U	NS	--	--	NS	--	--	NS	--	--
Phenanthrene	NE	NE	1,830	20,500	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Phenol	NE	NE	18,300	205,000	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Pyrene	NE	NE	1,720	18,300	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.80	U	NS	--	--	NS	--	--	NS	--	--
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.037	U	NS	--	--	NS	--	--	NS	--	--
Aroclor 1221	NE	NE	1.49	6.24	ND	0.037	U	NS	--	--	NS	--	--	NS	--	--
Aroclor 1232	NE	NE	1.49	6.24	ND	0.037	U	NS	--	--	NS	--	--	NS	--	--
Aroclor 1242	NE	NE	2.22	8.26	ND	0.037	U	NS	--	--	NS	--	--	NS	--	--
Aroclor 1248	NE	NE	2.22	8.26	ND	0.037	U	NS	--	--	NS	--	--	NS	--	--
Aroclor 1254	NE	NE	1.12	8.26	ND	0.037	U	NS	--	--	NS	--	--	NS	--	--
Aroclor 1260	NE	NE	2.22	8.26	ND	0.037	U	NS	--	--	NS	--	--	NS	--	--
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
Aldrin	NE	NE	0.284	1.12	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
alpha-BHC	NE	NE	0.772	3.04	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			SD01			SD02			SD03		
FIELD ID					CAN103-1318-0020			C103-SD01-0.5			C103-SD02-0.5			C103-SD03-0.5		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					December 12, 1994			October 18, 2010			October 18, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
beta-BHC	NE	NE	2.70	10.6	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
delta-BHC	NE	NE	NE	NE	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
Dieldrin	NE	NE	0.304	1.20	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
Endosulfan I	NE	NE	367	4,100	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
Endosulfan II	NE	NE	NE	NE	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
Endrin	NE	NE	18.3	205	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
Endrin aldehyde	NE	NE	NE	NE	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
Endrin ketone	NE	NE	NE	NE	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
gamma-Chlordane	NE	NE	NE	NE	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
Heptachlor	NE	NE	1.08	4.26	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.019	U	NS	--	--	NS	--	--	NS	--	--
Toxaphene	NE	NE	4.42	17.4	ND	0.19	U	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.044	U	NS	--	--	NS	--	--	NS	--	--
2,4-DB	NE	NE	NE	NE	ND	0.11	U	NS	--	--	NS	--	--	NS	--	--
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.11	U	NS	--	--	NS	--	--	NS	--	--
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
Dichlorprop	NE	NE	NE	NE	ND	0.022	U	NS	--	--	NS	--	--	NS	--	--
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.022	U	NS	--	--	NS	--	--	NS	--	--
MCPA	NE	NE	31.0[g]	310[g]	ND	5.5	U	NS	--	--	NS	--	--	NS	--	--
MCPP	NE	NE	61.0[g]	620[g]	ND	5.5	U	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	2.3E-08	2.30E-08		1.50E-07	1.50E-07		2.30E-07	2.30E-07	J
PCB 114	NE	NE	1.14	4.24	NS	--	--	ND	3.30E-09	U	1.40E-08	1.40E-08		2.00E-08	2.00E-08	J
PCB 118	NE	NE	1.14	4.24	NS	--	--	ND	0.00000007	U	3.80E-07	3.80E-07	J	5.40E-07	5.40E-07	J
PCB 123	NE	NE	1.14	4.24	NS	--	--	ND	6.20E-10	U	ND	5.90E-10	U	ND	4.50E-10	U
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	ND	7.50E-10	U	3.40E-09	3.40E-09	J	7.50E-09	7.50E-09	J
PCB 156	NE	NE	1.14	4.24	NS	--	--	8.60E-09	8.60E-09	J	5.80E-08	5.80E-08		6.40E-08	6.40E-08	J
PCB 157	NE	NE	1.14	4.24	NS	--	--	2E-09	2E-09	J	1.10E-08	1.10E-08		ND	3.70E-10	U
PCB 167	NE	NE	1.14	4.24	NS	--	--	ND	3.20E-10	U	1.30E-08	1.30E-08		ND	3.20E-10	U
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	ND	5.00E-10	U	ND	1.00E-09	U	ND	4.90E-10	U
PCB 170	NE	NE	0.34	1.27	NS	--	--	3.1E-08	3.1E-08	J	2.30E-07	2.30E-07	J	2.30E-07	2.30E-07	J
PCB 180	NE	NE	3.41	12.7	NS	--	--	0.00000058	5.8E-08	J	4.40E-07	4.40E-07	J	4.90E-07	4.90E-07	J
PCB 189	NE	NE	1.14	4.24	NS	--	--	9.70E-10	1E-09	J	ND	5.50E-09	U	ND	5.20E-09	U
PCB 77	NE	NE	0.34	1.27	NS	--	--	6.70E-09	6.70E-09	J	2.10E-08	2.10E-08		6.80E-08	6.80E-08	J
PCB 81	NE	NE	0.114	0.42	NS	--	--	ND	4.20E-10	U	7.30E-10	7.30E-10	J	3.00E-09	3.00E-09	J

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			SD01			SD02			SD03		
FIELD ID					CAN103-1318-0020			C103-SD01-0.5			C103-SD02-0.5			C103-SD03-0.5		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					December 12, 1994			October 18, 2010			October 18, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	2.80E-06	2.80E-06	J	2.10E-05	2.10E-05	J	8.10E-06	8.10E-06	J
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	ND	0.00000052	U	3.10E-06	3.10E-06	J	ND	1.90E-06	U
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	ND	0.00000017	U	ND	1.00E-06	UJ	ND	0.00000054	U
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	ND	0.00000036	U	ND	0.00000084	UJ	ND	0.00000075	U
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	ND	1.00E-07	U	ND	5.00E-07	UJ	ND	0.00000029	U
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	ND	0.00000028	U	1.00E-06	1.00E-06	J	ND	0.00000068	U
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	ND	0.00000029	U	ND	1.50E-06	UJ	ND	0.00000026	U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	ND	0.00000036	U	ND	6.00E-07	UJ	ND	0.00000073	U
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	ND	0.00000011	U	ND	0.00000057	UJ	ND	0.00000044	U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	ND	0.00000016	U	ND	0.00000051	UJ	ND	0.00000033	U
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	ND	0.00000039	U	ND	5.00E-07	UJ	ND	0.00000044	U
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	ND	1.60E-06	U	ND	7.80E-06	UJ	ND	0.00000031	U
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	ND	2.00E-07	U	ND	0.00000036	UJ	ND	4.00E-07	U
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	7.90E-07	0.00000079	J	7.60E-06	7.60E-06	J	ND	0.00000019	U
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	1.30E-06	1.30E-06	J	3.60E-06	3.60E-06	J	2.50E-06	2.50E-06	J
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	2.00E-05	2.00E-05	J	2.50E-04	2.50E-04	J	5.90E-05	5.90E-05	
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	ND	0.00000012	U	8.00E-06	8.00E-06	J	ND	0.00000039	U
TEQ	NE	NE	NE	NE	NS	--	--	9.50E-07	NA		8.40E-06	NA		3.50E-07	NA	
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	ND	44.3	U	NS	--	--	NS	--	--	NS	--	--
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	ND	1.3	U	19	1.4	J	36	2.1	J
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	ND	13	U	30	14		46	21	J
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	ND	1.3	U	ND	1.4	U	ND	2.1	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD04			SD05			SD06			SD07		
FIELD ID					C103-SD04-0.5			C103-SD05-0.5			C103-SD06-0.5			C103-SD07-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Antimony	16.0	3.15	31.3	454	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Arsenic	4.30	3.60	3.90	17.7	**3.9**	1.3		3.6	1.3		0.21	0.76	J	NS	--	--
Barium	890	670	15,600	223,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Beryllium	0.73	0.78	156	2,260	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Cadmium	1.30	0.35	70.3	897	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Calcium	237,498	44,800	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chromium	13.3	10.5	117,000	1.70E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Cobalt	4.70	6.60	23[g]	300[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Copper	8.30	18.3	3,130	45,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Iron	13,148	10,100	54,800	795,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Lead	8.70	12.0	400	800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Magnesium	19,300	1,930	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Manganese	333	307	1,860	26,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Nickel	14.9	11.0	1,560	22,500	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Potassium	2,512	2,691	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Selenium	1.10	0.26	391	5,680	7	1.3		4.9	1.3		0.7	0.76	J	2.7	1.3	
Silver	2.65	0.40	391	5,680	23.7	0.26	J	16.5	0.186		1.8	0.15		NS	--	--
Sodium	1,227	102	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Thallium	2.65	0.60	0.782	11.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vanadium	32.8	23.3	391	5,680	52.1	1.3		52.2	0.28		9.5	0.76		NS	--	--
Zinc	30.6	32.2	23,500	341,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzene	NE	NE	15.4	84.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromodichloromethane	NE	NE	5.41	30.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromoform	NE	NE	62.0[g]	220[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Butanone (MEK)	NE	NE	37,100	375,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbon disulfide	NE	NE	1,530	8,330	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbon tetrachloride	NE	NE	10.8	59.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chlorobenzene	NE	NE	376	2,120	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloroethane	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloromethane	NE	NE	275	1,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethane	NE	NE	64.5	359	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethane	NE	NE	7.89	43.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethene	NE	NE	449	2,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethene (total)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloropropane	NE	NE	15.2	84.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
cis-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
trans-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Ethylbenzene	NE	NE	68.4	378	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Hexanone	NE	NE	210[g]	1400[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD04			SD05			SD06			SD07		
FIELD ID					C103-SD04-0.5			C103-SD05-0.5			C103-SD06-0.5			C103-SD07-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Methylene chloride	NE	NE	409	4,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Styrene	NE	NE	7,280	50,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Tetrachloroethene	NE	NE	7.02	36.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,1-Trichloroethane	NE	NE	15,600	78,900	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,2-Trichloroethane	NE	NE	2.81	13.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Trichloroethene	NE	NE	8.77	41.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vinyl acetate	NE	NE	2,560	12,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vinyl chloride	NE	NE	0.728	26.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Xylenes (total)	NE	NE	814	3,980	NS	--	--	NS	--	--	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Acenaphthylene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Antracene	NE	NE	17,200	183,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(a)anthracene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(a)pyrene	NE	NE	0.148	2.34	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(b)fluoranthene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(g,h,i)perylene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(k)fluoranthene	NE	NE	14.8	234	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Bromophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbazole	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chloro-3-methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chloroaniline	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Chloronaphthalene	NE	NE	6,260	90,800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Chlorophenol	NE	NE	391	5,680	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chrysene	NE	NE	148	2,340	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Di-n-butyl phthalate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Di-n-octyl phthalate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibenzofuran	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichlorobenzene	NE	NE	2,310	14,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,3-Dichlorobenzene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,4-Dichlorobenzene	NE	NE	31.70	177	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dichlorophenol	NE	NE	183	2,050	NS	--	--	NS	--	--	NS	--	--	NS	--	--
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Diethyl phthalate	NE	NE	48,900	547,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD04			SD05			SD06			SD07		
FIELD ID					C103-SD04-0.5			C103-SD05-0.5			C103-SD06-0.5			C103-SD07-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dimethyl phthalate	NE	NE	611,000	6.84E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrophenol	NE	NE	122	1,370	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrotoluene	NE	NE	15.7	61.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,6-Dinitrotoluene	NE	NE	61.1	684	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Fluoranthene	NE	NE	2,290	24,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Fluorene	NE	NE	2,290	24,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorobenzene	NE	NE	3.04	12.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorobutadiene	NE	NE	61.1	246	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorocyclopentadiene	NE	NE	367	4,100	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachloroethane	NE	NE	42.8	479	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Isophorone	NE	NE	5,120	137,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Methylnaphthalene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Naphthalene	NE	NE	43.0	241	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Nitroaniline	NE	NE	610[g]	6,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
3-Nitroaniline	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Nitrobenzene	NE	NE	53.5	300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Nitrophenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Nitrophenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
N-Nitrosodiphenylamine	NE	NE	993	3,910	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Pentachlorophenol	NE	NE	8.94	30.00	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Phenanthrene	NE	NE	1,830	20,500	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Phenol	NE	NE	18,300	205,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Pyrene	NE	NE	1,720	18,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,4-Trichlorobenzene	NE	NE	73.0	367	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1221	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1232	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1242	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1248	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1254	NE	NE	1.12	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1260	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDD	NE	NE	20.3	79.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDE	NE	NE	14.3	56.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDT	NE	NE	17.2	78.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aldrin	NE	NE	0.284	1.12	NS	--	--	NS	--	--	NS	--	--	NS	--	--
alpha-BHC	NE	NE	0.772	3.04	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD04			SD05			SD06			SD07		
FIELD ID					C103-SD04-0.5			C103-SD05-0.5			C103-SD06-0.5			C103-SD07-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	NS	--	--	NS	--	--	NS	--	--	NS	--	--
beta-BHC	NE	NE	2.70	10.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
delta-BHC	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dieldrin	NE	NE	0.304	1.20	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan I	NE	NE	367	4,100	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan II	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan sulfate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin	NE	NE	18.3	205	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin aldehyde	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin ketone	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
gamma-BHC (Lindane)	NE	NE	5.17	22.9	NS	--	--	NS	--	--	NS	--	--	NS	--	--
gamma-Chlordane	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Heptachlor	NE	NE	1.08	4.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Heptachlor epoxide	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Methoxychlor	NE	NE	310.0[g]	3,100[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Toxaphene	NE	NE	4.42	17.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-DB	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dalapon	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dicamba	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dichlorprop	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dinoseb	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
MCPA	NE	NE	31.0[g]	310[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
MCPP	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,5-TP (Silvex)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	1.30E-06	1.30E-06		2.30E-07	2.30E-07	J	2.30E-07	2.30E-07	J	NS	--	--
PCB 114	NE	NE	1.14	4.24	1.20E-07	1.20E-07		2.10E-08	2.10E-08	J	2.40E-08	2.40E-08	J	NS	--	--
PCB 118	NE	NE	1.14	4.24	3.00E-06	3.00E-06		5.80E-07	5.80E-07	J	5.60E-07	5.60E-07	J	NS	--	--
PCB 123	NE	NE	1.14	4.24	ND	2.60E-09	U	ND	5.90E-10	U	ND	1.10E-09	U	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	3.60E-08	3.60E-08		ND	7.50E-09	U	ND	4.00E-09	U	NS	--	--
PCB 156	NE	NE	1.14	4.24	3.40E-07	3.40E-07		7.30E-08	7.30E-08	J	6.70E-08	6.70E-08	J	NS	--	--
PCB 157	NE	NE	1.14	4.24	7.10E-08	7.10E-08		1.50E-08	1.50E-08	J	ND	6.60E-10	U	NS	--	--
PCB 167	NE	NE	1.14	4.24	9.30E-08	9.30E-08		2.00E-08	2.00E-08	J	ND	5.90E-10	U	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	ND	1.40E-09	U	ND	3.70E-10	U	ND	9.00E-10	U	NS	--	--
PCB 170	NE	NE	0.34	1.27	ND	1.40E-06	U	2.70E-07	2.70E-07	J	2.20E-07	2.20E-07	J	NS	--	--
PCB 180	NE	NE	3.41	12.7	ND	1.00E-07	UJ	5.70E-07	5.70E-07	J	4.70E-07	4.70E-07	J	NS	--	--
PCB 189	NE	NE	1.14	4.24	ND	1.80E-06	UJ	ND	6.80E-09	U	6.50E-09	6.50E-09	J	NS	--	--
PCB 77	NE	NE	0.34	1.27	2.90E-07	2.90E-07		6.60E-08	6.60E-08	J	5.30E-08	5.30E-08	J	NS	--	--
PCB 81	NE	NE	0.114	0.42	3.40E-08	3.40E-08		7.60E-09	7.60E-09	J	ND	1.80E-09	U	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD04			SD05			SD06			SD07		
FIELD ID					C103-SD04-0.5			C103-SD05-0.5			C103-SD06-0.5			C103-SD07-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	3.50E-05	3.50E-05		2.50E-05	2.50E-05		7.00E-06	7.00E-06	J	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	7.40E-06	7.40E-06	J	ND	4.20E-06	U	ND	2.10E-06	U	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	2.80E-06	2.80E-06	J	2.90E-06	2.90E-06	J	ND	9.00E-07	U	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	2.40E-06	2.40E-06	J	ND	2.90E-06	U	ND	3.60E-07	U	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	2.30E-06	2.30E-06	J	2.50E-06	2.50E-06	J	ND	4.20E-07	U	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	ND	2.50E-06	U	ND	3.00E-06	U	ND	2.50E-07	U	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	ND	2.30E-06	U	ND	2.50E-06	U	ND	5.00E-07	U	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	ND	2.40E-06	U	ND	1.90E-06	U	ND	4.90E-07	U	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	ND	1.60E-06	U	ND	2.40E-06	U	ND	5.90E-07	U	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	ND	0.00000065	U	ND	4.10E-07	U	ND	1.90E-07	U	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	ND	0.00000044	U	ND	3.60E-07	U	ND	2.20E-07	U	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	2.20E-06	2.20E-06	J	ND	8.00E-06	U	ND	2.40E-06	U	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	ND	3.00E-07	U	1.70E-06	1.70E-06	J	ND	1.80E-07	U	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	1.80E-06	1.80E-06	J	1.40E-06	1.40E-06	J	5.50E-07	5.50E-07	J	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	ND	1.60E-06	U	ND	2.70E-06	U	ND	5.30E-07		NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	2.60E-04	2.60E-04		1.60E-04	1.60E-04		6.70E-05	6.70E-05		NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	1.10E-05	1.10E-05	J	ND	5.40E-06	U	3.00E-06	3.00E-06	J	NS	--	--
TEQ	NE	NE	NE	NE	3.00E-06	NA		2.50E-06	NA		6.40E-07	NA		NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-DRO	NE	NE	1,000	1,000	63	2.6		ND	2.6	U	ND	1.5	U	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	68	26		ND	26	U	40	15		NS	--	--
TPH-GRO	NE	NE	1,000	1,000	19	2.6	J	ND	2.6	U	ND	1.5	U	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD08 C103-SD08-0.3 0 - 0.3 October 19, 2010			SD09 C103-SD09-0.3 0 - 0.3 October 19, 2010			SD10 C103-SD10-0.5 0 - 0.5 October 19, 2010			SD11 C103-SD11-0.5 0 - 0.5 October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Antimony	16.0	3.15	31.3	454	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Arsenic	4.30	3.60	3.90	17.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Barium	890	670	15,600	223,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Beryllium	0.73	0.78	156	2,260	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Cadmium	1.30	0.35	70.3	897	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Calcium	237,498	44,800	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chromium	13.3	10.5	117,000	1.70E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Cobalt	4.70	6.60	23[g]	300[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Copper	8.30	18.3	3,130	45,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Iron	13,148	10,100	54,800	795,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Lead	8.70	12.0	400	800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Magnesium	19,300	1,930	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Manganese	333	307	1,860	26,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Nickel	14.9	11.0	1,560	22,500	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Potassium	2,512	2,691	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Selenium	1.10	0.26	391	5,680	ND	0.62	U	ND	0.75	U	ND	0.63	U	4	0.99	
Silver	2.65	0.40	391	5,680	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Sodium	1,227	102	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Thallium	2.65	0.60	0.782	11.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vanadium	32.8	23.3	391	5,680	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Zinc	30.6	32.2	23,500	341,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzene	NE	NE	15.4	84.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromodichloromethane	NE	NE	5.41	30.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromoform	NE	NE	62.0[g]	220[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Butanone (MEK)	NE	NE	37,100	375,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbon disulfide	NE	NE	1,530	8,330	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbon tetrachloride	NE	NE	10.8	59.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chlorobenzene	NE	NE	376	2,120	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloroethane	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloromethane	NE	NE	275	1,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethane	NE	NE	64.5	359	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethane	NE	NE	7.89	43.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethene	NE	NE	449	2,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethene (total)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloropropane	NE	NE	15.2	84.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
cis-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
trans-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Ethylbenzene	NE	NE	68.4	378	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Hexanone	NE	NE	210[g]	1400[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD08			SD09			SD10			SD11		
FIELD ID					C103-SD08-0.3			C103-SD09-0.3			C103-SD10-0.5			C103-SD11-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.3			0 - 0.3			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Methylene chloride	NE	NE	409	4,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Styrene	NE	NE	7,280	50,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Tetrachloroethene	NE	NE	7.02	36.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,1-Trichloroethane	NE	NE	15,600	78,900	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,2-Trichloroethane	NE	NE	2.81	13.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Trichloroethene	NE	NE	8.77	41.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vinyl acetate	NE	NE	2,560	12,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vinyl chloride	NE	NE	0.728	26.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Xylenes (total)	NE	NE	814	3,980	NS	--	--	NS	--	--	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Acenaphthylene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Antracene	NE	NE	17,200	183,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(a)anthracene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(a)pyrene	NE	NE	0.148	2.34	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(b)fluoranthene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(g,h,i)perylene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(k)fluoranthene	NE	NE	14.8	234	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Bromophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbazole	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chloro-3-methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chloroaniline	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Chloronaphthalene	NE	NE	6,260	90,800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Chlorophenol	NE	NE	391	5,680	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chrysene	NE	NE	148	2,340	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Di-n-butyl phthalate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Di-n-octyl phthalate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibenzofuran	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichlorobenzene	NE	NE	2,310	14,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,3-Dichlorobenzene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,4-Dichlorobenzene	NE	NE	31.70	177	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dichlorophenol	NE	NE	183	2,050	NS	--	--	NS	--	--	NS	--	--	NS	--	--
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Diethyl phthalate	NE	NE	48,900	547,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD08			SD09			SD10			SD11		
FIELD ID					C103-SD08-0.3			C103-SD09-0.3			C103-SD10-0.5			C103-SD11-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.3			0 - 0.3			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dimethyl phthalate	NE	NE	611,000	6.84E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrophenol	NE	NE	122	1,370	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrotoluene	NE	NE	15.7	61.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,6-Dinitrotoluene	NE	NE	61.1	684	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Fluoranthene	NE	NE	2,290	24,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Fluorene	NE	NE	2,290	24,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorobenzene	NE	NE	3.04	12.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorobutadiene	NE	NE	61.1	246	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorocyclopentadiene	NE	NE	367	4,100	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachloroethane	NE	NE	42.8	479	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Isophorone	NE	NE	5,120	137,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Methylnaphthalene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Naphthalene	NE	NE	43.0	241	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Nitroaniline	NE	NE	610[g]	6,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
3-Nitroaniline	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Nitrobenzene	NE	NE	53.5	300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Nitrophenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Nitrophenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
N-Nitrosodiphenylamine	NE	NE	993	3,910	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Pentachlorophenol	NE	NE	8.94	30.00	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Phenanthrene	NE	NE	1,830	20,500	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Phenol	NE	NE	18,300	205,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Pyrene	NE	NE	1,720	18,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,4-Trichlorobenzene	NE	NE	73.0	367	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1221	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1232	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1242	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1248	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1254	NE	NE	1.12	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1260	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDD	NE	NE	20.3	79.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDE	NE	NE	14.3	56.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDT	NE	NE	17.2	78.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aldrin	NE	NE	0.284	1.12	NS	--	--	NS	--	--	NS	--	--	NS	--	--
alpha-BHC	NE	NE	0.772	3.04	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD08			SD09			SD10			SD11		
FIELD ID					C103-SD08-0.3			C103-SD09-0.3			C103-SD10-0.5			C103-SD11-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.3			0 - 0.3			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	NS	--	--	NS	--	--	NS	--	--	NS	--	--
beta-BHC	NE	NE	2.70	10.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
delta-BHC	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dieldrin	NE	NE	0.304	1.20	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan I	NE	NE	367	4,100	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan II	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan sulfate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin	NE	NE	18.3	205	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin aldehyde	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin ketone	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
gamma-BHC (Lindane)	NE	NE	5.17	22.9	NS	--	--	NS	--	--	NS	--	--	NS	--	--
gamma-Chlordane	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Heptachlor	NE	NE	1.08	4.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Heptachlor epoxide	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Methoxychlor	NE	NE	310.0[g]	3,100[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Toxaphene	NE	NE	4.42	17.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-DB	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dalapon	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dicamba	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dichlorprop	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dinoseb	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
MCPA	NE	NE	31.0[g]	310[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
MCPP	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,5-TP (Silvex)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD08 C103-SD08-0.3 0 - 0.3 October 19, 2010			SD09 C103-SD09-0.3 0 - 0.3 October 19, 2010			SD10 C103-SD10-0.5 0 - 0.5 October 19, 2010			SD11 C103-SD11-0.5 0 - 0.5 October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD12			SD13			SD14			SD15		
FIELD ID					C103-SD12-0.5			C103-SD13-0.5			C103-SD14-0.5			C103-SD15-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Antimony	16.0	3.15	31.3	454	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Arsenic	4.30	3.60	3.90	17.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Barium	890	670	15,600	223,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Beryllium	0.73	0.78	156	2,260	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Cadmium	1.30	0.35	70.3	897	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Calcium	237,498	44,800	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chromium	13.3	10.5	117,000	1.70E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Cobalt	4.70	6.60	23[g]	300[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Copper	8.30	18.3	3,130	45,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Iron	13,148	10,100	54,800	795,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Lead	8.70	12.0	400	800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Magnesium	19,300	1,930	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Manganese	333	307	1,860	26,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Nickel	14.9	11.0	1,560	22,500	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Potassium	2,512	2,691	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Selenium	1.10	0.26	391	5,680	5.4	1.6	J	1.7	1.1		1.2	0.97		5.1	1.3	
Silver	2.65	0.40	391	5,680	NS	--	--	2.9	0.22		1.4	0.19		16.6	0.26	
Sodium	1,227	102	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Thallium	2.65	0.60	0.782	11.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vanadium	32.8	23.3	391	5,680	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Zinc	30.6	32.2	23,500	341,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzene	NE	NE	15.4	84.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromodichloromethane	NE	NE	5.41	30.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromoform	NE	NE	62.0[g]	220[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Butanone (MEK)	NE	NE	37,100	375,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbon disulfide	NE	NE	1,530	8,330	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbon tetrachloride	NE	NE	10.8	59.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chlorobenzene	NE	NE	376	2,120	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloroethane	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloromethane	NE	NE	275	1,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethane	NE	NE	64.5	359	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethane	NE	NE	7.89	43.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethene	NE	NE	449	2,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethene (total)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloropropane	NE	NE	15.2	84.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
cis-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
trans-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Ethylbenzene	NE	NE	68.4	378	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Hexanone	NE	NE	210[g]	1400[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD12			SD13			SD14			SD15		
FIELD ID					C103-SD12-0.5			C103-SD13-0.5			C103-SD14-0.5			C103-SD15-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Methylene chloride	NE	NE	409	4,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Styrene	NE	NE	7,280	50,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Tetrachloroethene	NE	NE	7.02	36.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,1-Trichloroethane	NE	NE	15,600	78,900	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,2-Trichloroethane	NE	NE	2.81	13.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Trichloroethene	NE	NE	8.77	41.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vinyl acetate	NE	NE	2,560	12,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vinyl chloride	NE	NE	0.728	26.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Xylenes (total)	NE	NE	814	3,980	NS	--	--	NS	--	--	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Acenaphthylene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Antracene	NE	NE	17,200	183,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(a)anthracene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(a)pyrene	NE	NE	0.148	2.34	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(b)fluoranthene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(g,h,i)perylene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(k)fluoranthene	NE	NE	14.8	234	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Bromophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbazole	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chloro-3-methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chloroaniline	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Chloronaphthalene	NE	NE	6,260	90,800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Chlorophenol	NE	NE	391	5,680	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chrysene	NE	NE	148	2,340	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Di-n-butyl phthalate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Di-n-octyl phthalate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibenzofuran	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichlorobenzene	NE	NE	2,310	14,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,3-Dichlorobenzene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,4-Dichlorobenzene	NE	NE	31.70	177	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dichlorophenol	NE	NE	183	2,050	NS	--	--	NS	--	--	NS	--	--	NS	--	--
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Diethyl phthalate	NE	NE	48,900	547,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD12			SD13			SD14			SD15		
FIELD ID					C103-SD12-0.5			C103-SD13-0.5			C103-SD14-0.5			C103-SD15-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dimethyl phthalate	NE	NE	611,000	6.84E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrophenol	NE	NE	122	1,370	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrotoluene	NE	NE	15.7	61.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,6-Dinitrotoluene	NE	NE	61.1	684	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Fluoranthene	NE	NE	2,290	24,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Fluorene	NE	NE	2,290	24,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorobenzene	NE	NE	3.04	12.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorobutadiene	NE	NE	61.1	246	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorocyclopentadiene	NE	NE	367	4,100	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachloroethane	NE	NE	42.8	479	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Isophorone	NE	NE	5,120	137,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Methylnaphthalene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Naphthalene	NE	NE	43.0	241	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Nitroaniline	NE	NE	610[g]	6,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
3-Nitroaniline	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Nitrobenzene	NE	NE	53.5	300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Nitrophenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Nitrophenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
N-Nitrosodiphenylamine	NE	NE	993	3,910	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Pentachlorophenol	NE	NE	8.94	30.00	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Phenanthrene	NE	NE	1,830	20,500	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Phenol	NE	NE	18,300	205,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Pyrene	NE	NE	1,720	18,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,4-Trichlorobenzene	NE	NE	73.0	367	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1221	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1232	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1242	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1248	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1254	NE	NE	1.12	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1260	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDD	NE	NE	20.3	79.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDE	NE	NE	14.3	56.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDT	NE	NE	17.2	78.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aldrin	NE	NE	0.284	1.12	NS	--	--	NS	--	--	NS	--	--	NS	--	--
alpha-BHC	NE	NE	0.772	3.04	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD12			SD13			SD14			SD15		
FIELD ID					C103-SD12-0.5			C103-SD13-0.5			C103-SD14-0.5			C103-SD15-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	NS	--	--	NS	--	--	NS	--	--	NS	--	--
beta-BHC	NE	NE	2.70	10.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
delta-BHC	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dieldrin	NE	NE	0.304	1.20	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan I	NE	NE	367	4,100	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan II	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan sulfate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin	NE	NE	18.3	205	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin aldehyde	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin ketone	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
gamma-BHC (Lindane)	NE	NE	5.17	22.9	NS	--	--	NS	--	--	NS	--	--	NS	--	--
gamma-Chlordane	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Heptachlor	NE	NE	1.08	4.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Heptachlor epoxide	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Methoxychlor	NE	NE	310.0[g]	3,100[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Toxaphene	NE	NE	4.42	17.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-DB	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dalapon	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dicamba	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dichlorprop	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dinoseb	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
MCPA	NE	NE	31.0[g]	310[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
MCPP	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,5-TP (Silvex)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD12			SD13			SD14			SD15		
FIELD ID					C103-SD12-0.5			C103-SD13-0.5			C103-SD14-0.5			C103-SD15-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	ND	2.2	U	ND	1.9	U	ND	2.6	U
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	ND	22	U	ND	19	U	ND	26	U
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	ND	2.2	U	ND	1.9	U	ND	2.6	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD16			SD17			SD18		
FIELD ID					C103-SD16-0.5			C103-SD17-0.5			C103-SD18-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)													
Aluminum	12,214	8,950	78,000	1.13E+06	NS	--	--	NS	--	--	NS	--	--
Antimony	16.0	3.15	31.3	454	NS	--	--	NS	--	--	NS	--	--
Arsenic	4.30	3.60	3.90	17.7	NS	--	--	NS	--	--	NS	--	--
Barium	890	670	15,600	223,000	NS	--	--	NS	--	--	NS	--	--
Beryllium	0.73	0.78	156	2,260	NS	--	--	NS	--	--	NS	--	--
Cadmium	1.30	0.35	70.3	897	NS	--	--	NS	--	--	NS	--	--
Calcium	237,498	44,800	NE	NE	NS	--	--	NS	--	--	NS	--	--
Chromium	13.3	10.5	117,000	1.70E+06	NS	--	--	NS	--	--	NS	--	--
Cobalt	4.70	6.60	23[g]	300[g]	NS	--	--	NS	--	--	NS	--	--
Copper	8.30	18.3	3,130	45,400	NS	--	--	NS	--	--	NS	--	--
Iron	13,148	10,100	54,800	795,000	NS	--	--	NS	--	--	NS	--	--
Lead	8.70	12.0	400	800	NS	--	--	NS	--	--	NS	--	--
Magnesium	19,300	1,930	NE	NE	NS	--	--	NS	--	--	NS	--	--
Manganese	333	307	1,860	26,700	NS	--	--	NS	--	--	NS	--	--
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	NS	--	--	NS	--	--	NS	--	--
Nickel	14.9	11.0	1,560	22,500	NS	--	--	NS	--	--	NS	--	--
Potassium	2,512	2,691	NE	NE	NS	--	--	NS	--	--	NS	--	--
Selenium	1.10	0.26	391	5,680	4.8	1.3		2.3	0.82		6.4	1.3	J
Silver	2.65	0.40	391	5,680	12.5	0.25		3.3	0.16		27	0.26	J
Sodium	1,227	102	NE	NE	NS	--	--	NS	--	--	NS	--	--
Thallium	2.65	0.60	0.782	11.4	NS	--	--	NS	--	--	NS	--	--
Vanadium	32.8	23.3	391	5,680	NS	--	--	NS	--	--	NS	--	--
Zinc	30.6	32.2	23,500	341,000	NS	--	--	NS	--	--	NS	--	--
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Acetone	NE	NE	66,600	868,000	NS	--	--	NS	--	--	NS	--	--
Benzene	NE	NE	15.4	84.7	NS	--	--	NS	--	--	NS	--	--
Bromodichloromethane	NE	NE	5.41	30.1	NS	--	--	NS	--	--	NS	--	--
Bromoform	NE	NE	62.0[g]	220[g]	NS	--	--	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	NS	--	--	NS	--	--	NS	--	--
2-Butanone (MEK)	NE	NE	37,100	375,000	NS	--	--	NS	--	--	NS	--	--
Carbon disulfide	NE	NE	1,530	8,330	NS	--	--	NS	--	--	NS	--	--
Carbon tetrachloride	NE	NE	10.8	59.8	NS	--	--	NS	--	--	NS	--	--
Chlorobenzene	NE	NE	376	2,120	NS	--	--	NS	--	--	NS	--	--
Chloroethane	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	NS	--	--	NS	--	--	NS	--	--
Chloromethane	NE	NE	275	1,290	NS	--	--	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethane	NE	NE	64.5	359	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethane	NE	NE	7.89	43.5	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethene	NE	NE	449	2,290	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethene (total)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloropropane	NE	NE	15.2	84.4	NS	--	--	NS	--	--	NS	--	--
cis-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
trans-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Ethylbenzene	NE	NE	68.4	378	NS	--	--	NS	--	--	NS	--	--
2-Hexanone	NE	NE	210[g]	1400[g]	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD16			SD17			SD18		
FIELD ID					C103-SD16-0.5			C103-SD17-0.5			C103-SD18-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	NS	--	--	NS	--	--	NS	--	--
Methylene chloride	NE	NE	409	4,700	NS	--	--	NS	--	--	NS	--	--
Styrene	NE	NE	7,280	50,000	NS	--	--	NS	--	--	NS	--	--
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	NS	--	--	NS	--	--	NS	--	--
Tetrachloroethene	NE	NE	7.02	36.6	NS	--	--	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	NS	--	--	NS	--	--	NS	--	--
1,1,1-Trichloroethane	NE	NE	15,600	78,900	NS	--	--	NS	--	--	NS	--	--
1,1,2-Trichloroethane	NE	NE	2.81	13.3	NS	--	--	NS	--	--	NS	--	--
Trichloroethene	NE	NE	8.77	41.3	NS	--	--	NS	--	--	NS	--	--
Vinyl acetate	NE	NE	2,560	12,300	NS	--	--	NS	--	--	NS	--	--
Vinyl chloride	NE	NE	0.728	26.1	NS	--	--	NS	--	--	NS	--	--
Xylenes (total)	NE	NE	814	3,980	NS	--	--	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
Acenaphthene	NE	NE	3,440	36,700	NS	--	--	NS	--	--	NS	--	--
Acenaphthylene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Antracene	NE	NE	17,200	183,000	NS	--	--	NS	--	--	NS	--	--
Benzo(a)anthracene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--
Benzo(a)pyrene	NE	NE	0.148	2.34	NS	--	--	NS	--	--	NS	--	--
Benzo(b)fluoranthene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--
Benzo(g,h,i)perylene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Benzo(k)fluoranthene	NE	NE	14.8	234	NS	--	--	NS	--	--	NS	--	--
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	NS	--	--	NS	--	--	NS	--	--
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	NS	--	--	NS	--	--	NS	--	--
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS	--	--	NS	--	--	NS	--	--
4-Bromophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	NS	--	--	NS	--	--	NS	--	--
Carbazole	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
4-Chloro-3-methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
4-Chloroaniline	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
2-Chloronaphthalene	NE	NE	6,260	90,800	NS	--	--	NS	--	--	NS	--	--
2-Chlorophenol	NE	NE	391	5,680	NS	--	--	NS	--	--	NS	--	--
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Chrysene	NE	NE	148	2,340	NS	--	--	NS	--	--	NS	--	--
Di-n-butyl phthalate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Di-n-octyl phthalate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	NS	--	--	NS	--	--	NS	--	--
Dibenzofuran	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2-Dichlorobenzene	NE	NE	2,310	14,000	NS	--	--	NS	--	--	NS	--	--
1,3-Dichlorobenzene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,4-Dichlorobenzene	NE	NE	31.70	177	NS	--	--	NS	--	--	NS	--	--
2,4-Dichlorophenol	NE	NE	183	2,050	NS	--	--	NS	--	--	NS	--	--
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	NS	--	--	NS	--	--	NS	--	--
Diethyl phthalate	NE	NE	48,900	547,000	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD16			SD17			SD18		
FIELD ID					C103-SD16-0.5			C103-SD17-0.5			C103-SD18-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
2,4-Dimethylphenol	NE	NE	1,220	13,700	NS	--	--	NS	--	--	NS	--	--
Dimethyl phthalate	NE	NE	611,000	6.84E+06	NS	--	--	NS	--	--	NS	--	--
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrophenol	NE	NE	122	1,370	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrotoluene	NE	NE	15.7	61.8	NS	--	--	NS	--	--	NS	--	--
2,6-Dinitrotoluene	NE	NE	61.1	684	NS	--	--	NS	--	--	NS	--	--
Fluoranthene	NE	NE	2,290	24,400	NS	--	--	NS	--	--	NS	--	--
Fluorene	NE	NE	2,290	24,400	NS	--	--	NS	--	--	NS	--	--
Hexachlorobenzene	NE	NE	3.04	12.0	NS	--	--	NS	--	--	NS	--	--
Hexachlorobutadiene	NE	NE	61.1	246	NS	--	--	NS	--	--	NS	--	--
Hexachlorocyclopentadiene	NE	NE	367	4,100	NS	--	--	NS	--	--	NS	--	--
Hexachloroethane	NE	NE	42.8	479	NS	--	--	NS	--	--	NS	--	--
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--
Isophorone	NE	NE	5,120	137,000	NS	--	--	NS	--	--	NS	--	--
2-Methylnaphthalene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
2-Methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
4-Methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Naphthalene	NE	NE	43.0	241	NS	--	--	NS	--	--	NS	--	--
2-Nitroaniline	NE	NE	610[g]	6,000[g]	NS	--	--	NS	--	--	NS	--	--
3-Nitroaniline	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	NS	--	--	NS	--	--	NS	--	--
Nitrobenzene	NE	NE	53.5	300	NS	--	--	NS	--	--	NS	--	--
2-Nitrophenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
4-Nitrophenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	NS	--	--	NS	--	--	NS	--	--
N-Nitrosodiphenylamine	NE	NE	993	3,910	NS	--	--	NS	--	--	NS	--	--
Pentachlorophenol	NE	NE	8.94	30.00	NS	--	--	NS	--	--	NS	--	--
Phenanthrene	NE	NE	1,830	20,500	NS	--	--	NS	--	--	NS	--	--
Phenol	NE	NE	18,300	205,000	NS	--	--	NS	--	--	NS	--	--
Pyrene	NE	NE	1,720	18,300	NS	--	--	NS	--	--	NS	--	--
1,2,4-Trichlorobenzene	NE	NE	73.0	367	NS	--	--	NS	--	--	NS	--	--
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	NS	--	--	NS	--	--	NS	--	--
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	NS	--	--	NS	--	--	NS	--	--
PESTICIDES (mg/kg)													
Aroclor 1016	NE	NE	3.93	41.3	NS	--	--	NS	--	--	NS	--	--
Aroclor 1221	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--
Aroclor 1232	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--
Aroclor 1242	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--
Aroclor 1248	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--
Aroclor 1254	NE	NE	1.12	8.26	NS	--	--	NS	--	--	NS	--	--
Aroclor 1260	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--
4,4'-DDD	NE	NE	20.3	79.8	NS	--	--	NS	--	--	NS	--	--
4,4'-DDE	NE	NE	14.3	56.3	NS	--	--	NS	--	--	NS	--	--
4,4'-DDT	NE	NE	17.2	78.1	NS	--	--	NS	--	--	NS	--	--
Aldrin	NE	NE	0.284	1.12	NS	--	--	NS	--	--	NS	--	--
alpha-BHC	NE	NE	0.772	3.04	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD16			SD17			SD18		
FIELD ID					C103-SD16-0.5			C103-SD17-0.5			C103-SD18-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)													
alpha-Chlordane	NE	NE	16.2	71.9	NS	--	--	NS	--	--	NS	--	--
beta-BHC	NE	NE	2.70	10.6	NS	--	--	NS	--	--	NS	--	--
delta-BHC	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Dieldrin	NE	NE	0.304	1.20	NS	--	--	NS	--	--	NS	--	--
Endosulfan I	NE	NE	367	4,100	NS	--	--	NS	--	--	NS	--	--
Endosulfan II	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Endosulfan sulfate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Endrin	NE	NE	18.3	205	NS	--	--	NS	--	--	NS	--	--
Endrin aldehyde	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Endrin ketone	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
gamma-BHC (Lindane)	NE	NE	5.17	22.9	NS	--	--	NS	--	--	NS	--	--
gamma-Chlordane	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Heptachlor	NE	NE	1.08	4.26	NS	--	--	NS	--	--	NS	--	--
Heptachlor epoxide	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Methoxychlor	NE	NE	310.0[g]	3,100[g]	NS	--	--	NS	--	--	NS	--	--
Toxaphene	NE	NE	4.42	17.4	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)													
2,4-D	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
2,4-DB	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Dalapon	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--
Dicamba	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--
Dichlorprop	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Dinoseb	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--
MCPA	NE	NE	31.0[g]	310[g]	NS	--	--	NS	--	--	NS	--	--
MCPP	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)													
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	NS	--	--	NS	--	--	NS	--	--
2,4,5-TP (Silvex)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
POLYCHLORINATED BIPHENYLS (mg/kg)													
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD16 C103-SD16-0.5 0 - 0.5 October 20, 2010			SD17 C103-SD17-0.5 0 - 0.5 October 20, 2010			SD18 C103-SD18-0.5 0 - 0.5 October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)													
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)													
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--
TPH-DRO	NE	NE	1,000	1,000	ND	2.5	U	ND	1.6	U	ND	2.6	U
TPH-ORO	NE	NE	1,000	1,000	ND	25	U	ND	16	U	ND	26	U
TPH-GRO	NE	NE	1,000	1,000	ND	2.5	U	ND	1.6	U	ND	2.6	U

TABLE B-3

SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]

Cannon AFB, New Mexico

Notes:

[a] Woodward-Clyde Consultants, Inc., 1994. Table 19-2a. *RCRA Facility Investigation, Appendix III SWMUs, Phase I,* Cannon Air Force Base, New Mexico.

[b] Woodward-Clyde Consultants, Inc., 1997. Table A-5. *RCRA Facility Investigation, Appendix III SWMUs, Phase II,* Cannon Air Force Base, New Mexico, November.

[c] URS Group, Inc., 2011. Tables 7-3a through 7-3b. *Playa Lake (SWMU 103) Phase III RCRA Facility Investigation Report,* Cannon Air Force Base, New Mexico, May.

[d] Woodward-Clyde Consultants, Inc., 1997. Table 6-3. *Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon Air Force Base, New Mexico,* September.

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

unknown oil.

[g] U.S. Environmental Protection Agency (EPA), 2012. Regions 3, 6, and 9 Regional Screening Levels for Chemical Contaminants at Superfund Sites, November.

[h] Value is for elemental mercury.

BOLD indicates that analyte exceeds the 2012 NMED residential SSL.

Exceeds Background Value

-- = Placeholder, no data available since not sampled

AFB = Air Force Base

BGS = Below Ground Surface

DRO = Diesel Range Organic

EPA = U.S. Environmental Protection Agency

FT = Feet

GRO = Gasoline Range Organic

GW = Groundwater

ID = Identification

J = Estimated Detection

mg/kg = Milligram per Kilogram

NA = Not Available

ND = Result Not Detected

NE = Not Established

NMED = New Mexico Environment Department

NS = Not Sampled

ORO = Oil Range Organic

PCB = Polychlorinated Biphenyl

Qual = Qualifier

R = Data was unusable.

RCRA = Resource Conservation and Recovery Act

RL = Reporting Limit

SSL = Soil Screening Level

SWMU = Solid Waste Management Unit

TEQ = Toxic Equivalency Quotient

TPH = Total Petroleum Hydrocarbon

U = Nondetected value

UJ = Estimated nondetect

TABLE B-4

SWMU 103 (Wastewater Playa Lake) Historical Surface Water Analytical All Data Results [a,b]

Cannon AFB, New Mexico

SAMPLE LOCATION	NMWQCC WQS [c]	EPA MCL [d]	SW01			SW02			SW03			SW04			SW05		
FIELD ID			C103-SW01-00			C103-SW02-00			C103-SW03-00			C103-SW04-00			C103-SW05-00		
SAMPLE DEPTH (FT BGS)			NA			NA			NA			NA			NA		
DATE COLLECTED			October 18, 2010			October 18, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (µg/L)																	
Total Lead	50.0	15.0	ND	5.00	U	ND	5.00	U	ND	5.00	U	ND	5.00	UJ	ND	5.00	U
Total Selenium	50.0	50.0	ND	10.0	U	ND	10.0	U	ND	10.0	U	ND	10.0	U	ND	10.0	U
Total Silver	50.0	NE	ND	1.00	U	ND	1.00	U	ND	1.00	U	1.20	1.00		ND	1.00	U
Dissolved Lead	50.0	15.0	ND	5.00	U	ND	5.00	U	ND	5.00	U	ND	5.00	UJ	ND	5.00	U
Dissolved Selenium	50.0	50.0	ND	5.00	U	ND	5.00	U	ND	10.0	U	ND	10.0	U	ND	10.0	U
Dissolved Silver	50.0	NE	ND	1.00	U	ND	1.00	U	ND	1.00	U	ND	1.00	U	ND	1.00	U
Arsenic	100	10.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Barium	1,000	2,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Copper	1,000	1,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Lead	50.0	15.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Silver	50.0	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vanadium	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Zinc	10,000	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
POLYCHLORINATED BIPHENYLS (µg/L)																	
PCB 105	1.00	0.50	ND	1.80E-05	U	ND	2.10E-05	U	ND	2.40E-05	U	3.00E-05	3.00E-05	J	ND	2.60E-05	U
PCB 114	1.00	0.50	ND	1.40E-05	U	ND	2.90E-05	U	ND	2.00E-05	U	ND	7.50E-06	U	1.80E-05	1.80E-05	J
PCB 118	1.00	0.50	ND	4.20E-04	U	3.70E-04	3.70E-04		5.10E-04	5.10E-04		ND	3.40E-04	U	4.50E-04	4.50E-04	
PCB 123	1.00	0.50	ND	4.30E-06	U	ND	2.60E-05	U	ND	4.30E-06	U	ND	1.60E-05	U	ND	2.60E-06	U
PCB 126	1.00	0.50	ND	5.40E-06	U	ND	8.40E-06	U	ND	5.20E-06	U	ND	1.10E-05	U	ND	3.20E-06	U
PCB 156	1.00	0.50	ND	7.80E-06	U	4.90E-05	4.90E-05	J	8.10E-06	8.10E-06	J	ND	6.50E-06	U	1.30E-05	1.30E-05	J
PCB 157	1.00	0.50	ND	8.10E-06	U	ND	4.10E-06	U	ND	4.00E-06	U	ND	6.50E-06	U	ND	2.90E-06	U
PCB 167	1.00	0.50	ND	7.00E-06	U	ND	1.70E-05	U	ND	3.50E-06	U	ND	5.50E-06	U	ND	4.40E-06	U
PCB 169	1.00	0.50	ND	1.10E-05	U	ND	6.00E-06	U	ND	5.20E-06	U	ND	1.00E-05	U	ND	3.80E-06	U
PCB 170	1.00	0.50	ND	3.00E-05	U	3.50E-04	3.50E-04	J	ND	1.90E-05	U	ND	1.60E-05	U	ND	2.50E-05	U
PCB 180	1.00	0.50	1.20E-04	1.20E-04	J	9.00E-04	9.00E-04	J	5.00E-05	5.00E-05	J	5.00E-05	5.00E-05	J	5.80E-05	5.80E-05	J
PCB 189	1.00	0.50	ND	3.40E-06	U	ND	6.90E-06	U	ND	2.10E-06	U	ND	2.00E-06	U	ND	1.30E-06	U
PCB 77	1.00	0.50	ND	5.20E-06	U	ND	7.80E-06	U	ND	6.80E-06	U	ND	7.50E-06	U	7.60E-06	7.60E-06	J
PCB 81	1.00	0.50	ND	3.80E-06	U	ND	7.60E-07	U	ND	3.00E-06	U	ND	6.40E-06	U	ND	2.00E-06	U

TABLE B-4

SWMU 103 (Wastewater Playa Lake) Historical Surface Water Analytical All Data Results [a,b]

Cannon AFB, New Mexico

SAMPLE LOCATION	NMWQCC WQS [c]	EPA MCL [d]	SW01			SW02			SW03			SW04			SW05		
FIELD ID			C103-SW01-00			C103-SW02-00			C103-SW03-00			C103-SW04-00			C103-SW05-00		
SAMPLE DEPTH (FT BGS)			NA			NA			NA			NA			NA		
DATE COLLECTED			October 18, 2010			October 18, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (µg/L)																	
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	ND	1.00E-06	U	ND	2.10E-06	U	ND	8.40E-07	U	ND	2.30E-06	U	ND	1.30E-06	U
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	ND	8.80E-07	U	ND	1.00E-06	U	ND	1.10E-06	U	ND	1.70E-06	U	ND	1.60E-06	U
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	ND	1.20E-06	U	ND	1.40E-06	U	ND	1.50E-06	U	ND	2.30E-06	U	ND	1.10E-06	U
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	ND	2.20E-06	U	ND	3.30E-06	U	ND	1.60E-06	U	ND	1.00E-06	U	ND	1.30E-06	U
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	ND	1.40E-06	U	ND	8.50E-07	U	ND	8.30E-07	U	ND	5.30E-07	U	ND	5.20E-07	U
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	ND	1.50E-06	U	ND	1.80E-06	U	ND	1.10E-06	U	ND	7.10E-07	U	ND	1.20E-06	U
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	ND	8.70E-07	U	ND	8.40E-07	U	ND	7.00E-07	U	ND	4.50E-07	U	ND	4.40E-07	U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	ND	2.10E-06	U	ND	1.90E-06	U	ND	2.80E-06	U	ND	1.00E-06	U	ND	3.10E-07	U
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	ND	1.20E-06	U	ND	1.10E-06	U	ND	1.00E-06	U	ND	6.20E-07	U	ND	6.00E-07	U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	ND	1.50E-06	U	ND	1.40E-06	U	ND	8.80E-07	U	ND	1.40E-06	U	ND	8.50E-07	U
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	ND	1.10E-06	U	ND	1.10E-06	U	ND	1.00E-06	U	ND	8.20E-07	U	ND	7.10E-07	U
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	ND	1.00E-06	U	ND	1.00E-06	U	ND	8.40E-07	U	ND	5.40E-07	U	ND	5.00E-07	U
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	ND	1.10E-06	U	ND	5.00E-07	UJ	ND	6.90E-07	U	ND	5.40E-07	U	ND	7.00E-07	U
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	3.00E-05	ND	9.10E-07	U	ND	1.90E-06	U	ND	6.50E-07	U	ND	6.50E-07	U	ND	4.80E-07	U
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	ND	1.80E-06	U	ND	1.60E-06	U	ND	1.10E-06	U	ND	1.30E-06	U	ND	1.00E-06	U
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	ND	2.40E-06	U	ND	1.30E-05	U	ND	1.80E-05	U	ND	2.20E-06	U	1.90E-05	1.90E-05	J
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	ND	2.10E-06	U	ND	2.00E-06	U	ND	1.10E-06	U	ND	2.20E-06	U	ND	1.20E-06	U
TEQ	NE	NE	ND	NA	U	ND	NA	U	ND	NA	U	ND	NA	U	5.70E-09	NA	
CYANIDE (µg/L)																	
Cyanide	200	200	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
WATER QUALITY (µg/L)																	
Total Sulfide	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (µg/L)																	
Isophorone	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-4

SWMU 103 (Wastewater Playa Lake) Historical Surface Water Analytical All Data Results [a,b]

Cannon AFB, New Mexico

SAMPLE LOCATION	NMWQCC WQS [c]	EPA MCL [d]	SW06			10305			10306			10307		
FIELD ID			C103-SW06-00			CAN103-1035-3000			CAN103-1036-3000			CAN103-1037-3000		
SAMPLE DEPTH (FT BGS)			NA			NA			NA			NA		
DATE COLLECTED			October 19, 2010			September 21, 1993			September 21, 1993			September 21, 1993		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (µg/L)														
Total Lead	50.0	15.0	2.10	5.00	J	NS	--	--	NS	--	--	NS	--	--
Total Selenium	50.0	50.0	ND	10.0	U	NS	--	--	NS	--	--	NS	--	--
Total Silver	50.0	NE	ND	1.00	U	NS	--	--	NS	--	--	NS	--	--
Dissolved Lead	50.0	15.0	4.60	5.00	J	NS	--	--	NS	--	--	NS	--	--
Dissolved Selenium	50.0	50.0	ND	10.0	U	NS	--	--	NS	--	--	NS	--	--
Dissolved Silver	50.0	NE	ND	1.00	U	NS	--	--	NS	--	--	NS	--	--
Arsenic	100	10.0	NS	--	--	3.10	5.00	J	5.70	5.00	J	3.40	5.00	J
Barium	1,000	2,000	NS	--	--	76.0	10.0		70.0	10.0		66.0	10.0	
Copper	1,000	1,300	NS	--	--	6.90	20.0	J	51.0	20.0	J	7.20	20.0	J
Lead	50.0	15.0	NS	--	--	ND	5.00	UJ	6.00	5.00	J	ND	5.00	UJ
Silver	50.0	NE	NS	--	--	9.20	10.0	J	5.30	10.0	J	5.20	10.0	J
Vanadium	NE	NE	NS	--	--	8.90	10.0	J	4.80	10.0	J	8.10	10.0	J
Zinc	10,000	NE	NS	--	--	19.0	20.0	J	14.0	20.0	J	14.0	20.0	J
POLYCHLORINATED BIPHENYLS (µg/L)														
PCB 105	1.00	0.50	ND	1.90E-05	U	NS	--	--	NS	--	--	NS	--	--
PCB 114	1.00	0.50	ND	2.40E-05	U	NS	--	--	NS	--	--	NS	--	--
PCB 118	1.00	0.50	3.90E-04	3.90E-04		NS	--	--	NS	--	--	NS	--	--
PCB 123	1.00	0.50	ND	5.20E-06	U	NS	--	--	NS	--	--	NS	--	--
PCB 126	1.00	0.50	ND	6.70E-06	U	NS	--	--	NS	--	--	NS	--	--
PCB 156	1.00	0.50	ND	6.50E-06	U	NS	--	--	NS	--	--	NS	--	--
PCB 157	1.00	0.50	ND	6.70E-06	U	NS	--	--	NS	--	--	NS	--	--
PCB 167	1.00	0.50	ND	5.70E-06	U	NS	--	--	NS	--	--	NS	--	--
PCB 169	1.00	0.50	ND	9.50E-06	U	NS	--	--	NS	--	--	NS	--	--
PCB 170	1.00	0.50	ND	3.20E-05	U	NS	--	--	NS	--	--	NS	--	--
PCB 180	1.00	0.50	8.70E-05	8.70E-05	J	NS	--	--	NS	--	--	NS	--	--
PCB 189	1.00	0.50	ND	1.30E-06	U	NS	--	--	NS	--	--	NS	--	--
PCB 77	1.00	0.50	ND	8.20E-06	U	NS	--	--	NS	--	--	NS	--	--
PCB 81	1.00	0.50	ND	2.80E-06	U	NS	--	--	NS	--	--	NS	--	--

TABLE B-4

SWMU 103 (Wastewater Playa Lake) Historical Surface Water Analytical All Data Results [a,b]

Cannon AFB, New Mexico

SAMPLE LOCATION	NMWQCC WQS [c]	EPA MCL [d]	SW06			10305			10306			10307		
FIELD ID			C103-SW06-00			CAN103-1035-3000			CAN103-1036-3000			CAN103-1037-3000		
SAMPLE DEPTH (FT BGS)			NA			NA			NA			NA		
DATE COLLECTED			October 19, 2010			September 21, 1993			September 21, 1993			September 21, 1993		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (µg/L)														
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	ND	3.80E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	ND	1.40E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	ND	1.30E-05	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	ND	8.70E-07	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	ND	1.30E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	ND	1.80E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	ND	1.10E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	ND	1.30E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	ND	1.50E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	ND	1.90E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	ND	1.50E-06	U	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	ND	5.00E-06	U	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	ND	1.50E-06	U	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	3.00E-05	ND	1.00E-06	U	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	ND	2.20E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	ND	1.90E-05	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	ND	3.20E-06	U	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	ND	NA	U	NS	--	--	NS	--	--	NS	--	--
CYANIDE (µg/L)														
Cyanide	200	200	NS	--	--	14.0	10.0		11.0	10.0		ND	10.0	U
WATER QUALITY (µg/L)														
Total Sulfide	NE	NE	NS	--	--	800	100		570	100		650	100	
SEMIVOLATILE ORGANIC COMPOUNDS (µg/L)														
Isophorone	NE	NE	NS	--	--	ND	10.0	UJ	ND	10.0	U	1.40	10.0	J

TABLE B-4

SWMU 103 (Wastewater Playa Lake) Historical Surface Water Analytical All Data Results [a,b]

Cannon AFB, New Mexico

Notes:

[a] Woodward-Clyde Consultants, Inc., 1994. Table 19-2b. *RCRA Facility Investigation, Appendix III SWMUs, Phase I,* Cannon Air Force Base, N*ew Mexico* .

[b] URS Group, Inc., 2011. Tables 7-1a through 7-1b. *Playa Lake (SWMU 103) Phase III RCRA Facility Investigation Report,* Cannon Air Force Base, New Mexico, May.

[c] New Mexico Water Quality Control Commission (NMWQCC), 2001. 20.6.2.7(ww) New Mexico Administrative Code (NMAC),*Definitions - toxic pollutant* .

[d] U.S. Environmental Protection Agency (EPA), 2012. Regions 3, 6, and 9 Regional Screening Levels for Chemical Contaminants at Superfund Sites, November.

-- = Placeholder, no data available since not sampled

µg/L = Microgram per Liter

AFB = Air Force Base

bgs = Below Ground Surface

EPA = U.S. Environmental Protection Agency

FT = Feet

ID = Identification

J = Estimated Detection

MCL = Maximum Contaminant Level

NA = Not Applicable

ND = Result Not Detected

NE = Not Established

NMAC = New Mexico Administrative Code

NMWQCC = New Mexico Water Quality Control Commission

NS = Not Sampled

Qual = Qualifier

PCB = Polychlorinated Biphenyl

RCRA = Resource Conservation and Recovery Act

RL = Reporting Limit

SWMU = Solid Waste Management Unit

TEQ = Toxic Equivalency Quotient

U = Nondetected value

UJ = Estimated nondetect

WQS = Water Quality Standards

TABLE B-1

AOC A (MOGAS Spill Site) Historical Soil Analytical All Data Results [a,b,c]

Cannon AFB, New Mexico

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration [d]	Surface Background Concentration [d]	NMED Residential SSL Concentration [e]	NMED Industrial SSL Concentration [e]	CAA-SS01 0 - 0.5 December 6, 2011			CAA-SS02 0 - 0.5 December 6, 2011			CAA-SS03 0 - 0.5 December 6, 2011		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)													
Lead	8.70	12.0	400	800	17.1	1.13		19	1.04	J	10.5	1.12	
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Benzene	NE	NE	15.4	84.7	NS	--	--	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	NS	--	--	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	NS	--	--	NS	--	--	NS	--	--
Cyclohexane	NE	NE	7,000 [f]	29,000 [f]	NS	--	--	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	NS	--	--	NS	--	--
Ethylbezene	NE	NE	68.4	378	NS	--	--	NS	--	--	NS	--	--
Methylcyclohexane	NE	NE	5,630	26,500	NS	--	--	NS	--	--	NS	--	--
Methyl acetate	NE	NE	78,200	1.14E+06	NS	--	--	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	NS	--	--	NS	--	--	NS	--	--
m,p-xylene	NE	NE	814	3,980	NS	--	--	NS	--	--	NS	--	--
o-xylene	NE	NE	898	4,410	NS	--	--	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All SVOCs reported as non-detect	--	--	--	--	NS	--	--	NS	--	--	NS	--	--
PURGABLE ORGANIC COMPOUNDS (mg/kg)													
1,2-dichloroethane	NE	NE	7.89	43.5	NS	--	--	NS	--	--	NS	--	--
OIL AND GAS (mg/kg)													
Oil and gas results were reported as non-detect	--	--	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-1

AOC A (MOGAS Spill Site) Historical Soil Analytical All Data Results [a,b,c]

Cannon AFB, New Mexico

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration [d]	Surface Background Concentration [d]	NMED Residential SSL Concentration [e]	NMED Industrial SSL Concentration [e]	CAA-SS04 0 - 0.5 December 6, 2011			CAA-SS05 0 - 0.5 December 6, 2011			CAA-SB01-005 3 - 5 February 16, 2005		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)													
Lead	8.70	12.0	400	800	43.2	1.14	J	112	1.11		0.54	0.6	J
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Benzene	NE	NE	15.4	84.7	NS	--	--	NS	--	--	ND	0.0059	U
Bromomethane	NE	NE	16.5	86.5	NS	--	--	NS	--	--	ND	0.012	U
Chloroform	NE	NE	5.86	32.7	NS	--	--	NS	--	--	0.0092	0.0059	
Cyclohexane	NE	NE	7,000 [f]	29,000 [f]	NS	--	--	NS	--	--	0.0023	0.0059	J
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	NS	--	--	0.0026	0.0059	J
Ethylbezene	NE	NE	68.4	378	NS	--	--	NS	--	--	ND	0.0059	U
Methylcyclohexane	NE	NE	5,630	26,500	NS	--	--	NS	--	--	0.006	0.024	J
Methyl acetate	NE	NE	78,200	1.14E+06	NS	--	--	NS	--	--	ND	0.012	U
Toluene	NE	NE	5,270	57,700	NS	--	--	NS	--	--	0.019	0.0059	
m,p-xylene	NE	NE	814	3,980	NS	--	--	NS	--	--	0.0012	0.0059	J
o-xylene	NE	NE	898	4,410	NS	--	--	NS	--	--	ND	0.0059	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All SVOCs reported as non-detect	--	--	--	--	NS	--	--	NS	--	--	ND	NA	
PURGABLE ORGANIC COMPOUNDS (mg/kg)													
1,2-dichloroethane	NE	NE	7.89	43.5	NS	--	--	NS	--	--	NS	--	--
OIL AND GAS (mg/kg)													
Oil and gas results were reported as non-detect	--	--	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-1

AOC A (MOGAS Spill Site) Historical Soil Analytical All Data Results [a,b,c]

Cannon AFB, New Mexico

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration [d]	Surface Background Concentration [d]	NMED Residential SSL Concentration [e]	NMED Industrial SSL Concentration [e]	CAA-SB01-010 8 - 9.6 February 16, 2005			CAA-SB02-020 18 - 20 February 17, 2005			CAA-SB02-023 23 - 23.4 February 17, 2005		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)													
Lead	8.70	12.0	400	800	0.71	0.6		3.2	0.6		1.4	0.6	
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Benzene	NE	NE	15.4	84.7	ND	0.0056	U	ND	0.0059	U	ND	0.0059	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	0.0022	0.012	J	ND	0.012	UJ
Chloroform	NE	NE	5.86	32.7	ND	0.0056	U	0.0098	0.0059		0.012	0.0059	
Cyclohexane	NE	NE	7,000 [f]	29,000 [f]	ND	0.0056	U	0.0024	0.0059	J	0.0032	0.0059	J
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0056	U	0.0031	0.0059	J	0.0058	0.0059	J
Ethylbezene	NE	NE	68.4	378	ND	0.0056	U	ND	0.0059	U	ND	0.0059	U
Methylcyclohexane	NE	NE	5,630	26,500	ND	0.023	U	0.0068	0.024	J	0.011	0.024	J
Methyl acetate	NE	NE	78,200	1.14E+06	0.0027	0.011	J	0.0018	0.012	J	ND	0.012	U
Toluene	NE	NE	5,270	57,700	0.0015	0.0056	J	0.025	0.0059		0.046	0.0059	
m,p-xylene	NE	NE	814	3,980	ND	0.0056	U	0.0018	0.0059	J	0.0033	0.0059	J
o-xylene	NE	NE	898	4,410	ND	0.0056	U	ND	0.0059	U	ND	0.0059	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All SVOCs reported as non-detect	--	--	--	--	ND	NA		ND	NA		ND	NA	
PURGABLE ORGANIC COMPOUNDS (mg/kg)													
1,2-dichloroethane	NE	NE	7.89	43.5	NS	--	--	NS	--	--	NS	--	--
OIL AND GAS (mg/kg)													
Oil and gas results were reported as non-detect	--	--	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-1

AOC A (MOGAS Spill Site) Historical Soil Analytical All Data Results [a,b,c]

Cannon AFB, New Mexico

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration [d]	Surface Background Concentration [d]	NMED Residential SSL Concentration [e]	NMED Industrial SSL Concentration [e]	CAA-SB03-015 13 - 14.7 February 17, 2005			CAA-SB03-019 18 - 18.4 February 17, 2005			CAA-SB04-020 18 - 20 February 17, 2005		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)													
Lead	8.70	12.0	400	800	5.9	0.6		1.7	0.6		1.4	0.6	
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Benzene	NE	NE	15.4	84.7	0.0008	0.0055	J	0.0009	0.0057	J	ND	0.0058	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	ND	0.011	U	ND	0.012	U
Chloroform	NE	NE	5.86	32.7	0.012	0.005		0.011	0.0057		0.01	0.0058	
Cyclohexane	NE	NE	7,000 [f]	29,000 [f]	0.0031	0.005	J	0.003	0.0057	J	0.0029	0.0058	J
Dibromochloromethane	NE	NE	12.1	62.4	0.006	0.005		0.0047	0.0057	J	0.0033	0.0058	J
Ethylbezene	NE	NE	68.4	378	0.001	0.005	J	0.0009	0.0057	J	ND	0.0058	U
Methylcyclohexane	NE	NE	5,630	26,500	0.012	0.022	J	0.0093	0.023	J	0.0091	0.023	J
Methyl acetate	NE	NE	78,200	1.14E+06	0.0049	0.011	J	0.0088	0.011	J	0.0052	0.012	J
Toluene	NE	NE	5,270	57,700	0.044	0.0055		0.037	0.0057		0.03	0.0058	
m,p-xylene	NE	NE	814	3,980	ND	0.0055	U	0.003	0.0057	J	0.0023	0.0058	J
o-xylene	NE	NE	898	4,410	0.0007	0.0055	J	0.0007	0.0057	J	ND	0.0058	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All SVOCs reported as non-detect	--	--	--	--	ND	NA		ND	NA		ND	NA	
PURGABLE ORGANIC COMPOUNDS (mg/kg)													
1,2-dichloroethane	NE	NE	7.89	43.5	NS	--	--	NS	--	--	NS	--	--
OIL AND GAS (mg/kg)													
Oil and gas results were reported as non-detect	--	--	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-1

AOC A (MOGAS Spill Site) Historical Soil Analytical All Data Results [a,b,c]

Cannon AFB, New Mexico

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration [d]	Surface Background Concentration [d]	NMED Residential SSL Concentration [e]	NMED Industrial SSL Concentration [e]	CAA-SB04-025 23 - 24.5 February 17, 2005			19A-1 3.0 - 4.0 1986			19A-1A (Field Duplicate) 3.0 - 4.0 1986		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)													
Lead	8.70	12.0	400	800	4.4	0.6		1.5	NA		2.3	NA	
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Benzene	NE	NE	15.4	84.7	0.0008	0.0056	J	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	0.012	0.0056		NS	--	--	NS	--	--
Cyclohexane	NE	NE	7,000 [f]	29,000 [f]	0.0035	0.0056	J	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	0.0054	0.0056	J	NS	--	--	NS	--	--
Ethylbezene	NE	NE	68.4	378	0.0011	0.0056	J	NS	--	--	NS	--	--
Methylcyclohexane	NE	NE	5,630	26,500	0.013	0.022	J	NS	--	--	NS	--	--
Methyl acetate	NE	NE	78,200	1.14E+06	ND	0.011	U	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	0.047	0.0056		NS	--	--	NS	--	--
m,p-xylene	NE	NE	814	3,980	0.0039	0.0056	J	NS	--	--	NS	--	--
o-xylene	NE	NE	898	4,410	0.0007	0.0056	J	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All SVOCs reported as non-detect	--	--	--	--	ND	NA	--	NS	--	--	NS	--	--
PURGABLE ORGANIC COMPOUNDS (mg/kg)													
1,2-dichloroethane	NE	NE	7.89	43.5	NS	--	--	ND	NA		0.237	NA	NA
OIL AND GAS (mg/kg)													
Oil and gas results were reported as non-detect	--	--	--	--	NS	--	--	ND	NA		ND	NA	

TABLE B-1

AOC A (MOGAS Spill Site) Historical Soil Analytical All Data Results [a,b,c]

Cannon AFB, New Mexico

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration [d]	Surface Background Concentration [d]	NMED Residential SSL Concentration [e]	NMED Industrial SSL Concentration [e]	19A-2 8.0 - 9.0 1986			19A-3 45.0 - 47.0 1986			19B-1 0.0 - 1.0 1986		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)													
Lead	8.70	12.0	400	800	2.3	NA		1.1	NA		35.0	NA	
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Benzene	NE	NE	15.4	84.7	NS	--	--	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	NS	--	--	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	NS	--	--	NS	--	--	NS	--	--
Cyclohexane	NE	NE	7,000 [f]	29,000 [f]	NS	--	--	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	NS	--	--	NS	--	--
Ethylbezene	NE	NE	68.4	378	NS	--	--	NS	--	--	NS	--	--
Methylcyclohexane	NE	NE	5,630	26,500	NS	--	--	NS	--	--	NS	--	--
Methyl acetate	NE	NE	78,200	1.14E+06	NS	--	--	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	NS	--	--	NS	--	--	NS	--	--
m,p-xylene	NE	NE	814	3,980	NS	--	--	NS	--	--	NS	--	--
o-xylene	NE	NE	898	4,410	NS	--	--	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All SVOCs reported as non-detect	--	--	--	--	NS	--	--	NS	--	--	NS	--	--
PURGABLE ORGANIC COMPOUNDS (mg/kg)													
1,2-dichloroethane	NE	NE	7.89	43.5	ND	NA		ND	NA		ND	NA	
OIL AND GAS (mg/kg)													
Oil and gas results were reported as non-detect	--	--	--	--	ND	NA		ND	NA		ND	NA	

TABLE B-1

AOC A (MOGAS Spill Site) Historical Soil Analytical All Data Results [a,b,c]

Cannon AFB, New Mexico

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration [d]	Surface Background Concentration [d]	NMED Residential SSL Concentration [e]	NMED Industrial SSL Concentration [e]	19B-2 9.0 - 10.0 1986			19B-3 57.5 - 59.5 1986		
					Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)										
Lead	8.70	12.0	400	800	0.95	NA		0.99	NA	
VOLATILE ORGANIC COMPOUNDS (mg/kg)										
Benzene	NE	NE	15.4	84.7	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	NS	--	--	NS	--	--
Cyclohexane	NE	NE	7,000 [f]	29,000 [f]	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	NS	--	--
Ethylbezene	NE	NE	68.4	378	NS	--	--	NS	--	--
Methylcyclohexane	NE	NE	5,630	26,500	NS	--	--	NS	--	--
Methyl acetate	NE	NE	78,200	1.14E+06	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	NS	--	--	NS	--	--
m,p-xylene	NE	NE	814	3,980	NS	--	--	NS	--	--
o-xylene	NE	NE	898	4,410	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)										
All SVOCs reported as non-detect	--	--	--	--	NS	--	--	NS	--	--
PURGABLE ORGANIC COMPOUNDS (mg/kg)										
1,2-dichloroethane	NE	NE	7.89	43.5	ND	NA		ND	NA	
OIL AND GAS (mg/kg)										
Oil and gas results were reported as non-detect	--	--	--	--	ND	NA		ND	NA	

TABLE B-1

AOC A (MOGAS Spill Site) Historical Soil Analytical All Data Results [a,b,c]

Cannon AFB, New Mexico

Notes:

[a] Radian Corporation LLC, 1986. Table 4-19. *Installation Restoration Program Phase II - Confirmation/Quantification, Stage I*, Cannon Air Force Base, New Mexico, September.

[b] URS Group, Inc., 2005. Table 5-2. *Supplemental Assessment of Areas of Concern A, B, and C, Final Report*, Cannon Air Force Base, New Mexico, December.

[c] URS Group, Inc., 2013. Table 3-2. *Phase II Supplemental Assessment of Area of Concern A (SS-19)*, Cannon Air Force Base, New Mexico, February.

[d] Woodward-Clyde Consultants, Inc., 1997. Table 6-3. *Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon Air Force Base, New Mexico,* September.

[e] New Mexico Environment Department (NMED), 2012. Table A-1: NMED Soil Screening Levels, *Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document,* Hazardous Waste Bureau and Groundwater Quality Remediation Program, Table A-1 Updated June 2012.

[f] U.S. Environmental Protection Agency (EPA), 2012. Regions 3, 6, and 9 Regional Screening Levels for Chemical Contaminants at Superfund Sites, November.

BOLD indicates that analyte exceeds the 2012 NMED residential SSL.

Analyte exceeds background value

-- = Placeholder, no data available since not sampled

AFB = Air Force Base

AOC = Area of Concern

bgs = Below Ground Surface

FT = Feet

ID = Identification

J = Estimated value

mg/kg = Milligram per Kilogram

MOGAS = Motor Gasoline

NA = Not Available

ND = Result Not Detected

NE = Not Established

NMED = New Mexico Environment Department

NS = Not Sampled

Qual = Qualifier

RL = Reporting Limit

SB = Soil Boring

SSL = Soil Screening Level

SVOC = Semivolatile Organic Compound

U = Nondetected value

TABLE B-2

SWMU 91 (Recovered Fuel Tank No. 5114) Historical Soil Analytical All Data Results [a]

Cannon AFB, New Mexico

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Surface Background Concentration [b]	Subsurface Background Concentration [b]	NMED Residential SSL Concentration [c]	NMED Industrial SSL Concentration [c]	C91-SB01-000 0 - 4 October 23, 2008			C91-SB01-008 8 - 12 October 23, 2008			C91-SB01-012 12 - 16 October 23, 2008			C91-SB02-000 0 - 4 October 23, 2008			C91-SB02-008 8 - 12 October 23, 2008		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																			
TPH - DRO	NE	NE	1,000	3,000	ND	10.0	U	ND	10.0	U	ND	10.0	U	ND	10.0	U	ND	10.0	U
TPH - GRO	NE	NE	1,000	3,000	ND	1.1	U	ND	1.1	U	ND	1.2	U	ND	1.2	U	ND	1.1	U

FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Surface Background Concentration [b]	Subsurface Background Concentration [b]	NMED Residential SSL Concentration [c]	NMED Industrial SSL Concentration [c]	C91-SB02-012 12 - 16 October 23, 2008			C91-SB03-000 0 - 4 October 23, 2008			C91-SB03-008 8 - 12 October 23, 2008			C91-SB03-012 12 - 16 October 23, 2008		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
TPH - DRO	NE	NE	1,000	3,000	ND	10.0	U	ND	10.0	U	ND	10.0	U	ND	10.0	U
TPH - GRO	NE	NE	1,000	3,000	ND	1.2	U	ND	1.1	U	ND	1.2	U	ND	1.1	U

Notes:

[a] URS Group, Inc., 2009. Table C-4. Final RCRA Facility Investigation for SWMUs 34, 78, 85, 91, 95, and 107 Addendum Report, Cannon Air Force Base, New Mexico, June.

[b] Woodward-Clyde Consultants, Inc., 1997. Table 6-3. Naturally Occurring Concentrations of Inorganics and Background concentrations of Pesticides at Cannon Air Force Base, New Mexico, September.

[c] New Mexico Environment Department (NMED), 2012. Table 6-2. TPH Screening Guidelines for Potable Groundwater (GW-1), Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and the Ground Water Quality Bureau - Voluntary Remediation Program, February 2012. Values provided are for jet fuel and kerosene.

AFB = Air Force Base

BGS = Below Ground Surface

DRO = Diesel Range Organics

FT = Feet

GRO = Gasoline Range Organics

GW = Groundwater

ID = Identification

mg/kg = Milligram per kilogram

ND = Result Not Detected

NE = None Established

NMED = New Mexico Environment Department

Qual = Qualifier

RCRA = Resource Conservation and Recovery Act

RL = Reporting Limit

SB = Soil Boring

SSL = Soil Screening Level

SWMU = Solid Waste Management Unit

TPH = Total Petroleum Hydrocarbons

U = Nondetected

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10301			10302			10303			10304		
FIELD ID					CAN103-1031-5001			CAN103-1032-5001			CAN103-1033-5001			CAN103-1034-5001		
SAMPLE DEPTH (FT BGS)					0 - 1			0 - 1			0 - 1			0 - 1		
DATE COLLECTED					September 21, 1993			September 21, 1993			September 21, 1993			September 21, 1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	3,450	38.5		21,300	196		12,300	37.4		12,300	49.2	
Antimony	16.0	3.15	31.3	454	ND	NA		ND	NA		ND	NA		ND	NA	
Arsenic	4.30	3.60	3.90	17.7	2.40	1.9		**10.8**	9.8	J	3.3	1.9	J	**4.5**	2.5	
Barium	890	670	15,600	223,000	90.1	3.9		231	19.6		119	3.7		150	4.9	
Beryllium	0.73	0.78	156	2,260	ND	0.77	U	ND	3.9	U	0.69	0.75	J	0.99	0.98	
Cadmium	1.30	0.35	70.3	897	2.3	1.9		ND	9.8	U	ND	1.9	U	2.6	2.5	
Calcium	237,498	44,800	NE	NE	26,200	77		83,400	393		46,400	74.9		77,400	98.4	
Chromium	13.3	10.5	117,000	1.70E+06	10.4	3.9		35.5	19.6		13.5	3.7		19.8	4.9	
Cobalt	4.70	6.60	23[g]	300[g]	ND	3.9	UJ	ND	19.6	U	4	3.7		5.9	4.9	
Copper	8.30	18.3	3,130	45,400	40.3	7.7		102	39.3		29.4	7.5		44.3	9.8	
Iron	13,148	10,100	54,800	795,000	3,860	38.5		18,300	196		9,990	37.4		13,100	49.2	
Lead	8.70	12.0	400	800	14.6	1.9		39.3	9.8		16.5	1.9		16.7	2.5	
Magnesium	19,300	1,930	NE	NE	1,780	77		8700	393		4,140	74.9		5,640	98.4	
Manganese	333	307	1,860	26,700	38	3.9		228	19.6		158	3.7		196	4.9	
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.39	UJ	ND	2	U	0.39	0.37		0.51	0.49	
Nickel	14.9	11.0	1,560	22,500	5.3	15.4	J	27.7	78.6	J	12.1	15	J	14.6	19.7	J
Potassium	2,512	2,691	NE	NE	968	1,930	J	4,640	9,820	J	2,580	1,870		3,380	2,460	
Selenium	1.10	0.26	391	5,680	3.3	1.9		13.2	9.8		5.2	1.9	J	4.7	2.5	J
Silver	2.65	0.40	391	5,680	9.8	3.9		33.7	19.6		9.9	3.7		11.5	4.9	
Sodium	1,227	102	NE	NE	3,940	1,930	J	18,900	9,820	J	4,230	1,870	J	4,260	2,460	J
Thallium	2.65	0.60	0.782	11.4	ND	NA		ND	NA		ND	NA		ND	NA	
Vanadium	32.8	23.3	391	5,680	27.1	3.9		130	19.6		57.5	3.7		78.9	4.9	
Zinc	30.6	32.2	23,500	341,000	90.9	7.7		275	39.3		76.9	7.5		101	9.8	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	ND	NA		ND	NA		ND	NA		ND	NA	
Benzene	NE	NE	15.4	84.7	ND	0.019	UJ	0.022	0.098	J	0.0066	0.019	J	0.016	0.025	J
Bromodichloromethane	NE	NE	5.41	30.1	ND	NA		ND	NA		ND	NA		ND	NA	
Bromoform	NE	NE	62.0[g]	220[g]	ND	NA		ND	NA		ND	NA		ND	NA	
Bromomethane	NE	NE	16.5	86.5	ND	NA		ND	NA		ND	NA		ND	NA	
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.039	UJ	ND	0.2	UJ	0.018	0.037	J	0.068	0.049	J
Carbon disulfide	NE	NE	1,530	8,330	0.0084	0.019	J	0.022	0.098	J	0.011	0.019	J	0.023	0.025	J
Carbon tetrachloride	NE	NE	10.8	59.8	ND	NA		ND	NA		ND	NA		ND	NA	
Chlorobenzene	NE	NE	376	2,120	ND	NA		ND	NA		ND	NA		ND	NA	
Chloroethane	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Chloroform	NE	NE	5.86	32.7	ND	NA		ND	NA		ND	NA		ND	NA	
Chloromethane	NE	NE	275	1,290	0.004	0.039	J	ND	0.2	UJ	ND	0.037	UJ	ND	0.049	UJ
Dibromochloromethane	NE	NE	12.1	62.4	ND	NA		ND	NA		ND	NA		ND	NA	
1,1-Dichloroethane	NE	NE	64.5	359	ND	NA		ND	NA		ND	NA		ND	NA	
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	NA		ND	NA		ND	NA		ND	NA	
1,1-Dichloroethene	NE	NE	449	2,290	ND	NA		ND	NA		ND	NA		ND	NA	
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	NA		ND	NA		ND	NA		ND	NA	
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Ethylbenzene	NE	NE	68.4	378	ND	NA		ND	NA		ND	NA		ND	NA	
2-Hexanone	NE	NE	210[g]	1400[g]	ND	NA		ND	NA		ND	NA		ND	NA	

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10301			10302			10303			10304		
FIELD ID					CAN103-1031-5001			CAN103-1032-5001			CAN103-1033-5001			CAN103-1034-5001		
SAMPLE DEPTH (FT BGS)					0 - 1			0 - 1			0 - 1			0 - 1		
DATE COLLECTED					September 21, 1993			September 21, 1993			September 21, 1993			September 21, 1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	NA		ND	NA		ND	NA		ND	NA	
Methylene chloride	NE	NE	409	4,700	ND	NA		ND	NA		ND	NA		ND	NA	
Styrene	NE	NE	7,280	50,000	ND	NA		ND	NA		ND	NA		ND	NA	
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	NA		ND	NA		ND	NA		ND	NA	
Tetrachloroethene	NE	NE	7.02	36.6	ND	NA		ND	NA		ND	NA		ND	NA	
Toluene	NE	NE	5,270	57,700	ND	NA		ND	NA		ND	NA		ND	NA	
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	NA		ND	NA		ND	NA		ND	NA	
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	NA		ND	NA		ND	NA		ND	NA	
Trichloroethene	NE	NE	8.77	41.3	ND	NA		ND	NA		ND	NA		ND	NA	
Vinyl acetate	NE	NE	2,560	12,300	ND	NA		ND	NA		ND	NA		ND	NA	
Vinyl chloride	NE	NE	0.728	26.1	ND	NA		ND	NA		ND	NA		ND	NA	
Xylenes (total)	NE	NE	814	3,980	ND	NA		ND	NA		ND	NA		ND	NA	
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	NA		ND	NA		ND	NA		ND	NA	
Acenaphthylene	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Antracene	NE	NE	17,200	183,000	ND	NA		ND	NA		ND	NA		ND	NA	
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	NA		ND	NA		ND	NA		ND	NA	
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	NA		ND	NA		ND	NA		ND	NA	
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	NA		ND	NA		ND	NA		ND	NA	
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	NA		ND	NA		ND	NA		ND	NA	
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	NA		ND	NA		ND	NA		ND	NA	
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	NA		ND	NA		ND	NA		ND	NA	
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	NA		ND	NA		ND	NA		ND	NA	
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	NA		ND	NA		ND	NA		ND	NA	
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	NA		ND	NA		ND	NA		ND	NA	
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	2	1.3	J	3.9	6.5	J	0.76	1.2	J	1.7	1.6	UJ
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	1.3	UJ	ND	6.5	UJ	0.32	1.2	J	ND	1.6	UJ
Carbazole	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
4-Chloroaniline	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	NA		ND	NA		ND	NA		ND	NA	
2-Chlorophenol	NE	NE	391	5,680	ND	NA		ND	NA		ND	NA		ND	NA	
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Chrysene	NE	NE	148	2,340	ND	NA		ND	NA		ND	NA		ND	NA	
Di-n-butyl phthalate	NE	NE	NE	NE	ND	1.3	UJ	ND	6.5	UJ	0.2	1.2	J	ND	1.6	UJ
Di-n-octyl phthalate	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	NA		ND	NA		ND	NA		ND	NA	
Dibenzofuran	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	NA		ND	NA		ND	NA		ND	NA	
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	NA		ND	NA		ND	NA		ND	NA	
2,4-Dichlorophenol	NE	NE	183	2,050	ND	NA		ND	NA		ND	NA		ND	NA	
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	NA		ND	NA		ND	NA		ND	NA	
Diethyl phthalate	NE	NE	48,900	547,000	ND	NA		ND	NA		ND	NA		ND	NA	

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10301			10302			10303			10304		
FIELD ID					CAN103-1031-5001			CAN103-1032-5001			CAN103-1033-5001			CAN103-1034-5001		
SAMPLE DEPTH (FT BGS)					0 - 1			0 - 1			0 - 1			0 - 1		
DATE COLLECTED					September 21, 1993			September 21, 1993			September 21, 1993			September 21, 1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	NA		ND	NA		ND	NA		ND	NA	
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	NA		ND	NA		ND	NA		ND	NA	
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	NA		ND	NA		ND	NA		ND	NA	
2,4-Dinitrophenol	NE	NE	122	1,370	ND	NA		ND	NA		ND	NA		ND	NA	
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	NA		ND	NA		ND	NA		ND	NA	
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	NA		ND	NA		ND	NA		ND	NA	
Fluoranthene	NE	NE	2,290	24,400	ND	NA		ND	NA		ND	NA		ND	NA	
Fluorene	NE	NE	2,290	24,400	ND	NA		ND	NA		ND	NA		ND	NA	
Hexachlorobenzene	NE	NE	3.04	12.0	ND	NA		ND	NA		ND	NA		ND	NA	
Hexachlorobutadiene	NE	NE	61.1	246	ND	NA		ND	NA		ND	NA		ND	NA	
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	NA		ND	NA		ND	NA		ND	NA	
Hexachloroethane	NE	NE	42.8	479	ND	NA		ND	NA		ND	NA		ND	NA	
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	NA		ND	NA		ND	NA		ND	NA	
Isophorone	NE	NE	5,120	137,000	ND	NA		ND	NA		ND	NA		ND	NA	
2-Methylnaphthalene	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
2-Methylphenol	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
4-Methylphenol	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Naphthalene	NE	NE	43.0	241	ND	NA		ND	NA		ND	NA		ND	NA	
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	NA		ND	NA		ND	NA		ND	NA	
3-Nitroaniline	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	NA		ND	NA		ND	NA		ND	NA	
Nitrobenzene	NE	NE	53.5	300	ND	NA		ND	NA		ND	NA		ND	NA	
2-Nitrophenol	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
4-Nitrophenol	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	NA		ND	NA		ND	NA		ND	NA	
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	NA		ND	NA		ND	NA		ND	NA	
Pentachlorophenol	NE	NE	8.94	30.00	ND	NA		ND	NA		ND	NA		ND	NA	
Phenanthrene	NE	NE	1,830	20,500	ND	NA		ND	NA		ND	NA		ND	NA	
Phenol	NE	NE	18,300	205,000	ND	NA		ND	NA		ND	NA		ND	NA	
Pyrene	NE	NE	1,720	18,300	ND	NA		ND	NA		ND	NA		ND	NA	
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	NA		ND	NA		ND	NA		ND	NA	
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	NA		ND	NA		ND	NA		ND	NA	
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	NA		ND	NA		ND	NA		ND	NA	
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1221	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1232	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1242	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1248	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1254	NE	NE	1.12	8.26	ND	NA		ND	NA		ND	NA		ND	NA	
Aroclor 1260	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDD	NE	NE	20.3	79.8	ND	NA		ND	NA		ND	NA		ND	NA	
4,4'-DDE	NE	NE	14.3	56.3	ND	NA		ND	NA		ND	NA		ND	NA	
4,4'-DDT	NE	NE	17.2	78.1	ND	NA		ND	NA		ND	NA		ND	NA	
Aldrin	NE	NE	0.284	1.12	ND	NA		ND	NA		ND	NA		ND	NA	
alpha-BHC	NE	NE	0.772	3.04	ND	NA		ND	NA		ND	NA		ND	NA	

TABLE B-3
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Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10301			10302			10303			10304		
FIELD ID					CAN103-1031-5001			CAN103-1032-5001			CAN103-1033-5001			CAN103-1034-5001		
SAMPLE DEPTH (FT BGS)					0 - 1			0 - 1			0 - 1			0 - 1		
DATE COLLECTED					September 21, 1993			September 21, 1993			September 21, 1993			September 21, 1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	NA		ND	NA		ND	NA		ND	NA	
beta-BHC	NE	NE	2.70	10.6	ND	NA		ND	NA		ND	NA		ND	NA	
delta-BHC	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Dieldrin	NE	NE	0.304	1.20	ND	NA		ND	NA		ND	NA		ND	NA	
Endosulfan I	NE	NE	367	4,100	ND	NA		ND	NA		ND	NA		ND	NA	
Endosulfan II	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Endosulfan sulfate	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Endrin	NE	NE	18.3	205	ND	NA		ND	NA		ND	NA		ND	NA	
Endrin aldehyde	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Endrin ketone	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	NA		ND	NA		ND	NA		ND	NA	
gamma-Chlordane	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Heptachlor	NE	NE	1.08	4.26	ND	NA		ND	NA		ND	NA		ND	NA	
Heptachlor epoxide	NE	NE	NE	NE	ND	NA		ND	NA		ND	NA		ND	NA	
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	NA		ND	NA		ND	NA		ND	NA	
Toxaphene	NE	NE	4.42	17.4	ND	NA		ND	NA		ND	NA		ND	NA	
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-DB	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dalapon	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dicamba	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dichlorprop	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dinoseb	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
MCPA	NE	NE	31.0[g]	310[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
MCPP	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,5-TP (Silvex)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 114	NE	NE	1.14	4.24	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 118	NE	NE	1.14	4.24	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 123	NE	NE	1.14	4.24	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 126	NE	NE	0.00034	0.00127	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 156	NE	NE	1.14	4.24	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 157	NE	NE	1.14	4.24	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 167	NE	NE	1.14	4.24	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 169	NE	NE	0.00114	0.00424	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 170	NE	NE	0.34	1.27	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 180	NE	NE	3.41	12.7	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 189	NE	NE	1.14	4.24	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 77	NE	NE	0.34	1.27	ND	NA		ND	NA		ND	NA		ND	NA	
PCB 81	NE	NE	0.114	0.42	ND	NA		ND	NA		ND	NA		ND	NA	

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10301			10302			10303			10304		
FIELD ID					CAN103-1031-5001			CAN103-1032-5001			CAN103-1033-5001			CAN103-1034-5001		
SAMPLE DEPTH (FT BGS)					0 - 1			0 - 1			0 - 1			0 - 1		
DATE COLLECTED					September 21, 1993			September 21, 1993			September 21, 1993			September 21, 1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	**2,520**	154		**5,890**	786		**2,200**	150		**2,290**	197	
TPH-DRO	NE	NE	1,000	1,000	NS	NA		NS	NA		NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	NA		NS	NA		NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	NA		NS	NA		NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10308			10308			10308			10309		
FIELD ID					CAN103-1038-003			CAN103-1038-003			CAN103-1038-005			CAN103-1039-003		
SAMPLE DEPTH (FT BGS)					3			3			5			3		
DATE COLLECTED					December 1, 1994			December 1, 1994			December 1, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	NS	--	--	22,900	12.9		19,200	12.8		23,000	12.8	
Antimony	16.0	3.15	31.3	454	NS	--	--	ND	7.8	UJ	ND	7.7	UJ	ND	7.7	UJ
Arsenic	4.30	3.60	3.90	17.7	NS	--	--	2.2	0.65		1.9	0.64		2	0.64	
Barium	890	670	15,600	223,000	NS	--	--	183	1.3		176	1.3		184	1.3	
Beryllium	0.73	0.78	156	2,260	NS	--	--	1.5	0.26		1.4	0.26		1.4	0.26	
Cadmium	1.30	0.35	70.3	897	NS	--	--	ND	0.65	U	ND	0.64	U	ND	0.64	U
Calcium	237,498	44,800	NE	NE	NS	--	--	3,740	25.9		3,290	25.6		3,300	25.6	
Chromium	13.3	10.5	117,000	1.70E+06	NS	--	--	20.5	1.3		20.1	1.3		21.4	1.3	
Cobalt	4.70	6.60	23[g]	300[g]	NS	--	--	10.7	1.3		8.3	1.3		9.9	1.3	
Copper	8.30	18.3	3,130	45,400	NS	--	--	17.5	2.6		15	2.6		16.5	2.6	
Iron	13,148	10,100	54,800	795,000	NS	--	--	20,800	12.9		17,200	12.8		20,200	12.8	
Lead	8.70	12.0	400	800	NS	--	--	15.5	3.2	J	12.2	1.3	J	14	1.3	J
Magnesium	19,300	1,930	NE	NE	NS	--	--	4,730	25.9		3,920	25.6		4,400	25.6	
Manganese	333	307	1,860	26,700	NS	--	--	541	1.3		452	1.3		554	1.3	
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	NS	--	--	ND	0.13	U	ND	0.13	U	ND	0.13	U
Nickel	14.9	11.0	1,560	22,500	NS	--	--	16.4	5.2		15.2	5.1		15.2	5.1	
Potassium	2,512	2,691	NE	NE	NS	--	--	4,540	647		3,960	640		4,580	640	
Selenium	1.10	0.26	391	5,680	NS	--	--	ND	1.3	UJ	0.17	1.3	J	0.18	0.64	J
Silver	2.65	0.40	391	5,680	NS	--	--	ND	1.3	U	ND	1.3	U	ND	1.3	U
Sodium	1,227	102	NE	NE	NS	--	--	572	647	J	560	640	J	614	640	J
Thallium	2.65	0.60	0.782	11.4	NS	--	--	0.34	0.65	J	0.31	0.64	J	0.26	0.64	J
Vanadium	32.8	23.3	391	5,680	NS	--	--	27.3	1.3		24.6	1.3		26.2	1.3	
Zinc	30.6	32.2	23,500	341,000	NS	--	--	56.2	2.6		47.1	2.6		56.1	2.6	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	NS	--	--	0.1	0.013		0.085	0.013		0.061	0.013	
Benzene	NE	NE	15.4	84.7	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Bromodichloromethane	NE	NE	5.41	30.1	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Bromoform	NE	NE	62.0[g]	220[g]	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Bromomethane	NE	NE	16.5	86.5	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
2-Butanone (MEK)	NE	NE	37,100	375,000	NS	--	--	0.021	0.013		0.016	0.013		ND	0.013	U
Carbon disulfide	NE	NE	1,530	8,330	NS	--	--	ND	0.0065	U	ND	0.0064	U	0.013	0.0064	
Carbon tetrachloride	NE	NE	10.8	59.8	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Chlorobenzene	NE	NE	376	2,120	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Chloroethane	NE	NE	NE	NE	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
Chloroform	NE	NE	5.86	32.7	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Chloromethane	NE	NE	275	1,290	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
1,1-Dichloroethane	NE	NE	64.5	359	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
1,2-Dichloroethane	NE	NE	7.89	43.5	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
1,1-Dichloroethene	NE	NE	449	2,290	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
1,2-Dichloropropane	NE	NE	15.2	84.4	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Ethylbenzene	NE	NE	68.4	378	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
2-Hexanone	NE	NE	210[g]	1400[g]	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10308			10308			10308			10309		
FIELD ID					CAN103-1038-003			CAN103-1038-003			CAN103-1038-005			CAN103-1039-003		
SAMPLE DEPTH (FT BGS)					3			3			5			3		
DATE COLLECTED					December 1, 1994			December 1, 1994			December 1, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
Methylene chloride	NE	NE	409	4,700	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Styrene	NE	NE	7,280	50,000	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Tetrachloroethene	NE	NE	7.02	36.6	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Toluene	NE	NE	5,270	57,700	NS	--	--	0.0016	0.0065	J	0.0036	0.0064	J	0.0014	0.0064	J
1,1,1-Trichloroethane	NE	NE	15,600	78,900	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Trichloroethene	NE	NE	8.77	41.3	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
Vinyl acetate	NE	NE	2,560	12,300	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
Vinyl chloride	NE	NE	0.728	26.1	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
Xylenes (total)	NE	NE	814	3,980	NS	--	--	ND	0.0065	U	ND	0.0064	U	ND	0.0064	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Acenaphthylene	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Antracene	NE	NE	17,200	183,000	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Benzo(a)anthracene	NE	NE	1.48	23.4	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Benzo(a)pyrene	NE	NE	0.148	2.34	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Benzo(k)fluoranthene	NE	NE	14.8	234	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	NS	--	--	ND	2.1	U	ND	2	U	ND	2	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Carbazole	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
4-Chloroaniline	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2-Chloronaphthalene	NE	NE	6,260	90,800	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2-Chlorophenol	NE	NE	391	5,680	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Chrysene	NE	NE	148	2,340	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Di-n-butyl phthalate	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Di-n-octyl phthalate	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Dibenzofuran	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
1,3-Dichlorobenzene	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
1,4-Dichlorobenzene	NE	NE	31.70	177	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2,4-Dichlorophenol	NE	NE	183	2,050	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	NS	--	--	ND	0.85	U	ND	0.85	U	ND	0.85	U
Diethyl phthalate	NE	NE	48,900	547,000	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10308			10308			10308			10309		
FIELD ID					CAN103-1038-003			CAN103-1038-003			CAN103-1038-005			CAN103-1039-003		
SAMPLE DEPTH (FT BGS)					3			3			5			3		
DATE COLLECTED					December 1, 1994			December 1, 1994			December 1, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	NS	--	--	ND	2.1	U	ND	2	U	ND	2	U
2,4-Dinitrophenol	NE	NE	122	1,370	NS	--	--	ND	2.1	U	ND	2	U	ND	2	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2,6-Dinitrotoluene	NE	NE	61.1	684	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Fluoranthene	NE	NE	2,290	24,400	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Fluorene	NE	NE	2,290	24,400	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Hexachlorobenzene	NE	NE	3.04	12.0	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Hexachlorobutadiene	NE	NE	61.1	246	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Hexachloroethane	NE	NE	42.8	479	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Isophorone	NE	NE	5,120	137,000	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2-Methylnaphthalene	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2-Methylphenol	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
4-Methylphenol	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Naphthalene	NE	NE	43.0	241	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	NS	--	--	ND	2.1	U	ND	2	U	ND	2	U
3-Nitroaniline	NE	NE	NE	NE	NS	--	--	ND	2.1	U	ND	2	U	ND	2	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	NS	--	--	ND	2.1	U	ND	2	U	ND	2	U
Nitrobenzene	NE	NE	53.5	300	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2-Nitrophenol	NE	NE	NE	NE	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
4-Nitrophenol	NE	NE	NE	NE	NS	--	--	ND	2.1	U	ND	2	U	ND	2	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Pentachlorophenol	NE	NE	8.94	30.00	NS	--	--	ND	2.1	U	ND	2	U	ND	2	U
Phenanthrene	NE	NE	1,830	20,500	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Phenol	NE	NE	18,300	205,000	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
Pyrene	NE	NE	1,720	18,300	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	NS	--	--	ND	2.10	U	ND	2.00	U	ND	2.00	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	NS	--	--	ND	0.43	U	ND	0.42	U	ND	0.42	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.043	U	ND	0.043	U	ND	0.042	U	ND	0.042	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.043	U	ND	0.043	U	ND	0.042	U	ND	0.042	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.043	U	ND	0.043	U	ND	0.042	U	ND	0.042	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.043	U	ND	0.043	U	ND	0.042	U	ND	0.042	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.043	U	ND	0.043	U	ND	0.042	U	ND	0.042	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.043	U	ND	0.043	U	ND	0.042	U	ND	0.042	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.043	U	ND	0.043	U	ND	0.042	U	ND	0.042	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0043	U	ND	0.0043	U	ND	0.0042	U	ND	0.0042	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0043	U	ND	0.0043	U	ND	0.0042	U	ND	0.0042	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0043	U	0.0024	0.0043	J	ND	0.0042	U	ND	0.0042	U
Aldrin	NE	NE	0.284	1.12	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10308			10308			10308			10309		
FIELD ID					CAN103-1038-003			CAN103-1038-003			CAN103-1038-005			CAN103-1039-003		
SAMPLE DEPTH (FT BGS)					3			3			5			3		
DATE COLLECTED					December 1, 1994			December 1, 1994			December 1, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
delta-BHC	NE	NE	NE	NE	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0043	U	0.0024	0.0043	J	ND	0.0042	U	ND	0.0042	U
Endosulfan I	NE	NE	367	4,100	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
Endosulfan II	NE	NE	NE	NE	ND	0.0043	U	ND	0.0043	U	ND	0.0042	U	ND	0.0042	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0043	U	ND	0.0043	U	ND	0.0042	U	ND	0.0042	U
Endrin	NE	NE	18.3	205	ND	0.0043	U	0.0026	0.0043	J	ND	0.0042	U	ND	0.0042	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0043	U	ND	0.0043	U	ND	0.0042	U	ND	0.0042	U
Endrin ketone	NE	NE	NE	NE	ND	0.0043	U	ND	0.0043	U	ND	0.0042	U	ND	0.0042	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U	ND	0.0022	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.022	U	ND	0.022	U	ND	0.022	U	ND	0.022	U
Toxaphene	NE	NE	4.42	17.4	ND	0.22	U	ND	0.22	U	ND	0.22	U	ND	0.22	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	NS	--	--	ND	0.052	U	ND	0.051	U	ND	0.051	U
2,4-DB	NE	NE	NE	NE	NS	--	--	ND	0.13	U	ND	0.13	U	ND	0.13	U
Dalapon	NE	NE	1800[g]	18000[g]	NS	--	--	ND	0.13	U	ND	0.13	U	ND	0.13	U
Dicamba	NE	NE	1800[g]	18000[g]	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
Dichlorprop	NE	NE	NE	NE	NS	--	--	ND	0.026	U	ND	0.026	U	ND	0.026	U
Dinoseb	NE	NE	61.0[g]	620[g]	NS	--	--	ND	0.026	U	ND	0.026	U	ND	0.026	U
MCPA	NE	NE	31.0[g]	310[g]	NS	--	--	ND	6.5	U	ND	6.4	U	ND	6.4	U
MCPP	NE	NE	61.0[g]	620[g]	NS	--	--	ND	6.5	U	ND	6.4	U	ND	6.4	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	NS	--	--	ND	0.013	U	ND	0.013	U	ND	0.013	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10308			10308			10308			10309		
FIELD ID					CAN103-1038-003			CAN103-1038-003			CAN103-1038-005			CAN103-1039-003		
SAMPLE DEPTH (FT BGS)					3			3			5			3		
DATE COLLECTED					December 1, 1994			December 1, 1994			December 1, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	NS	--	--	ND	51.8	U	ND	51.2	U	ND	51.2	U
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10309			10310			10310			10310		
FIELD ID					CAN103-1039-005			CAN103-10310-003			CAN103-10310-603			CAN103-10310-005		
SAMPLE DEPTH (FT BGS)					5			3			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 2, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	24,700	12.7		13,200	11.4		14,100	11.4		12,400	11.5	
Antimony	16.0	3.15	31.3	454	ND	7.6	UJ	ND	6.8	UJ	ND	6.8	UJ	ND	6.9	UJ
Arsenic	4.30	3.60	3.90	17.7	1.9	0.64		**4.6**	0.57		**4.3**	0.57		3	0.57	
Barium	890	670	15,600	223,000	250	1.3		94.4	1.1		99.2	1.1		110	1.1	
Beryllium	0.73	0.78	156	2,260	1.6	0.25		0.86	0.23		0.82	0.23		0.72	0.23	
Cadmium	1.30	0.35	70.3	897	0.72	0.64		ND	0.57	U	0.93	0.57	J	0.66	0.57	
Calcium	237,498	44,800	NE	NE	4,780	25.4		2,100	22.8		2,140	22.8		2,180	23	
Chromium	13.3	10.5	117,000	1.70E+06	22.7	1.3		11.3	1.1		12.7	1.1		12.1	1.1	
Cobalt	4.70	6.60	23[g]	300[g]	11.3	1.3		5.1	1.1		5.8	1.1		7.2	1.1	
Copper	8.30	18.3	3,130	45,400	18.9	2.5		8.3	2.3		8.9	2.3		9.6	2.3	
Iron	13,148	10,100	54,800	795,000	21,700	12.7		12,500	11.4		12,800	11.4		12,200	11.5	
Lead	8.70	12.0	400	800	19.6	3.2	J	7.6	0.57	J	8.4	1.1	J	7.6	0.57	J
Magnesium	19,300	1,930	NE	NE	4,630	25.4		2,100	22.8		2,190	22.8		2,030	23	
Manganese	333	307	1,860	26,700	902	1.3		392	1.1		410	1.1		501	1.1	
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.13	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Nickel	14.9	11.0	1,560	22,500	17	5.1		9.6	4.6		10.1	4.6		10.6	4.6	
Potassium	2,512	2,691	NE	NE	4,750	636		2,370	569		2,460	569		2,280	574	
Selenium	1.10	0.26	391	5,680	0.18	1.3	J	0.13	0.57	J	0.16	0.57	J	ND	0.57	UJ
Silver	2.65	0.40	391	5,680	ND	1.3	U	ND	1.1	U	ND	1.1	U	ND	1.1	U
Sodium	1,227	102	NE	NE	576	636	J	99.1	569	J	170	569	J	124	574	J
Thallium	2.65	0.60	0.782	11.4	0.27	0.64	J	0.18	0.57	J	0.16	0.57	J	0.15	0.57	J
Vanadium	32.8	23.3	391	5,680	32.1	1.3		24.5	1.1		24.7	1.1		21.8	1.1	
Zinc	30.6	32.2	23,500	341,000	61.8	2.5		27.2	2.3		30	2.3		29	2.3	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	0.076	0.013		0.027	0.011		0.028	0.011		0.02	0.011	
Benzene	NE	NE	15.4	84.7	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Bromomethane	NE	NE	16.5	86.5	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2-Butanone (MEK)	NE	NE	37,100	375,000	0.014	0.013		ND	0.011	U	ND	0.011	U	ND	0.011	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Chloroethane	NE	NE	NE	NE	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Chloroform	NE	NE	5.86	32.7	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Chloromethane	NE	NE	275	1,290	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10309			10310			10310			10310		
FIELD ID					CAN103-1039-005			CAN103-10310-003			CAN103-10310-603			CAN103-10310-005		
SAMPLE DEPTH (FT BGS)					5			3			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 2, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Methylene chloride	NE	NE	409	4,700	ND	0.0064	U	0.0034	0.0057	J	0.0027	0.0057	J	0.0023	0.0057	J
Styrene	NE	NE	7,280	50,000	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Toluene	NE	NE	5,270	57,700	0.0027	0.0064	J	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0064	U	ND	0.0057	U	ND	0.0057	U	ND	0.0057	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Acenaphthylene	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Antracene	NE	NE	17,200	183,000	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	2	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.42	U	ND	0.38	U	0.038	0.38	J	ND	0.38	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.42	U	0.071	0.38	J	ND	0.38	U	ND	0.38	U
Carbazole	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Chrysene	NE	NE	148	2,340	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Dibenzofuran	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.84	U	ND	0.75	U	ND	0.75	U	ND	0.76	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10309			10310			10310			10310		
FIELD ID					CAN103-1039-005			CAN103-10310-003			CAN103-10310-603			CAN103-10310-005		
SAMPLE DEPTH (FT BGS)					5			3			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 2, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	2	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	2	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Fluoranthene	NE	NE	2,290	24,400	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Fluorene	NE	NE	2,290	24,400	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Hexachloroethane	NE	NE	42.8	479	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Isophorone	NE	NE	5,120	137,000	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2-Methylphenol	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
4-Methylphenol	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Naphthalene	NE	NE	43.0	241	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	2	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
3-Nitroaniline	NE	NE	NE	NE	ND	2	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	2	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Nitrobenzene	NE	NE	53.5	300	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
4-Nitrophenol	NE	NE	NE	NE	ND	2	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	2	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Phenol	NE	NE	18,300	205,000	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
Pyrene	NE	NE	1,720	18,300	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	2.00	U	ND	1.80	U	ND	1.80	U	ND	1.80	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.42	U	ND	0.38	U	ND	0.38	U	ND	0.38	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.042	U	ND	0.038	U	ND	0.038	U	ND	0.038	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.042	U	ND	0.038	U	ND	0.038	U	ND	0.038	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.042	U	ND	0.038	U	ND	0.038	U	ND	0.038	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.042	U	ND	0.038	U	ND	0.038	U	ND	0.038	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.042	U	ND	0.038	U	ND	0.038	U	ND	0.038	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.042	U	ND	0.038	U	ND	0.038	U	ND	0.038	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.042	U	ND	0.038	U	ND	0.038	U	ND	0.038	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0042	U	ND	0.0038	U	ND	0.0038	U	ND	0.0038	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0042	U	0.0036	0.0038	J	0.0032	0.0038	J	ND	0.0038	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0042	U	ND	0.0038	U	ND	0.0038	U	ND	0.0038	U
Aldrin	NE	NE	0.284	1.12	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10309			10310			10310			10310		
FIELD ID					CAN103-1039-005			CAN103-10310-003			CAN103-10310-603			CAN103-10310-005		
SAMPLE DEPTH (FT BGS)					5			3			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 2, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
delta-BHC	NE	NE	NE	NE	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0042	U	ND	0.0038	U	ND	0.0038	U	ND	0.0038	U
Endosulfan I	NE	NE	367	4,100	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Endosulfan II	NE	NE	NE	NE	ND	0.0042	U	ND	0.0038	U	ND	0.0038	U	ND	0.0038	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0042	U	ND	0.0038	U	ND	0.0038	U	ND	0.0038	U
Endrin	NE	NE	18.3	205	ND	0.0042	U	ND	0.0038	U	ND	0.0038	U	ND	0.0038	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0042	U	ND	0.0038	U	ND	0.0038	U	ND	0.0038	U
Endrin ketone	NE	NE	NE	NE	ND	0.0042	U	ND	0.0038	U	ND	0.0038	U	ND	0.0038	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0022	U	0.0024	0.0019		0.0022	0.0019		0.0012	0.002	J
Heptachlor	NE	NE	1.08	4.26	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0022	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.022	U	ND	0.019	U	ND	0.019	U	ND	0.02	U
Toxaphene	NE	NE	4.42	17.4	ND	0.22	U	ND	0.19	U	ND	0.19	U	ND	0.2	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.051	U	ND	0.046	U	ND	0.046	U	ND	0.046	U
2,4-DB	NE	NE	NE	NE	ND	0.13	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.13	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dichlorprop	NE	NE	NE	NE	ND	0.025	U	ND	0.023	U	ND	0.023	U	ND	0.023	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.025	U	ND	0.023	U	ND	0.023	U	ND	0.023	U
MCPA	NE	NE	31.0[g]	310[g]	ND	6.4	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
MCPP	NE	NE	61.0[g]	620[g]	ND	6.4	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.013	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10309			10310			10310			10310		
FIELD ID					CAN103-1039-005			CAN103-10310-003			CAN103-10310-603			CAN103-10310-005		
SAMPLE DEPTH (FT BGS)					5			3			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 2, 1994			December 2, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	ND	50.9	U	ND	45.5	U	47.5	45.5		ND	45.9	U
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10311			10311			10312			10312		
FIELD ID					CAN103-10311-003			CAN103-10311-005			CAN103-1312-003			CAN103-1312-005		
SAMPLE DEPTH (FT BGS)					3			5			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 4, 1994			December 4, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	13,900	12.1		11,600	11.8		9,780	24	J	6,460	23.4	J
Antimony	16.0	3.15	31.3	454	3.3	7.3	J	ND	7.1	UJ	ND	14.4	UJ	ND	14.1	UJ
Arsenic	4.30	3.60	3.90	17.7	1.2	0.6		2	0.59		0.92	0.6		0.84	0.59	
Barium	890	670	15,600	223,000	111	1.2		132	1.2		278	2.4	J	78.8	2.3	J
Beryllium	0.73	0.78	156	2,260	0.8	0.24		0.85	0.24		0.45	0.48	J	0.32	0.47	J
Cadmium	1.30	0.35	70.3	897	ND	0.6	U	ND	0.59	U	ND	1.2	U	ND	1.2	U
Calcium	237,498	44,800	NE	NE	1,290	24.2		1,410	23.6		143,000	48		173,000	46.9	
Chromium	13.3	10.5	117,000	1.70E+06	13.4	1.2		12.5	1.2		6.4	2.4		4	2.3	
Cobalt	4.70	6.60	23[g]	300[g]	6.4	1.2		7.6	1.2		ND	2.4	U	ND	2.3	U
Copper	8.30	18.3	3,130	45,400	9.2	2.4		9.9	2.4		3.9	4.8	J	2.9	4.7	J
Iron	13,148	10,100	54,800	795,000	12,400	12.1		11,300	11.8		6,340	24		4,380	23.4	
Lead	8.70	12.0	400	800	7.6	0.6	J	8.2	0.59	J	3.7	0.6	J	3.3	0.59	J
Magnesium	19,300	1,930	NE	NE	2,760	24.2		2,740	23.6		3,860	48		3,190	46.9	
Manganese	333	307	1,860	26,700	124	1.2		198	1.2		93.8	2.4		118	2.3	
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.12	U	ND	0.12	U	ND	0.12	U	ND	0.12	U
Nickel	14.9	11.0	1,560	22,500	10.1	4.8		11.3	4.7		8.6	9.6	J	3.5	9.4	J
Potassium	2,512	2,691	NE	NE	2,920	605		2,460	591		2,130	1,200		1,500	1,170	
Selenium	1.10	0.26	391	5,680	0.15	0.6	J	0.13	0.59	J	ND	2.4	UJ	ND	1.2	U
Silver	2.65	0.40	391	5,680	ND	1.2	U	ND	1.2	U	ND	2.4	U	ND	2.3	U
Sodium	1,227	102	NE	NE	392	605	J	345	591	J	ND	1,200	U	ND	1,170	U
Thallium	2.65	0.60	0.782	11.4	0.16	0.6	J	0.21	0.59	J	ND	1.2	UJ	ND	1.2	UJ
Vanadium	32.8	23.3	391	5,680	18.7	1.2		19.8	1.2		17	2.4	J	11	2.3	J
Zinc	30.6	32.2	23,500	341,000	28.9	2.4		27.1	2.4		15.1	4.8		10.5	4.7	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	0.06	0.012		0.035	0.012		0.034	0.012		0.081	0.012	
Benzene	NE	NE	15.4	84.7	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Bromomethane	NE	NE	16.5	86.5	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.012	U	ND	0.012	U	ND	0.012	U	0.012	0.012	
Carbon disulfide	NE	NE	1,530	8,330	ND	0.006	U	0.0071	0.0059		ND	0.006	U	ND	0.0059	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Chlorobenzene	NE	NE	376	2,120	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Chloroethane	NE	NE	NE	NE	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
Chloroform	NE	NE	5.86	32.7	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Chloromethane	NE	NE	275	1,290	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Ethylbenzene	NE	NE	68.4	378	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10311			10311			10312			10312		
FIELD ID					CAN103-10311-003			CAN103-10311-005			CAN103-1312-003			CAN103-1312-005		
SAMPLE DEPTH (FT BGS)					3			5			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 4, 1994			December 4, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
Methylene chloride	NE	NE	409	4,700	0.0026	0.006	J	0.0019	0.0059	J	ND	0.006	U	ND	0.0059	U
Styrene	NE	NE	7,280	50,000	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Toluene	NE	NE	5,270	57,700	ND	0.006	U	0.0027	0.0059	J	ND	0.006	U	ND	0.0059	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
Xylenes (total)	NE	NE	814	3,980	ND	0.006	U	ND	0.0059	U	ND	0.006	U	ND	0.0059	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Acenaphthylene	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Antracene	NE	NE	17,200	183,000	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.9	U	ND	1.9	U	ND	1.9	U	ND	1.9	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Carbazole	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Chrysene	NE	NE	148	2,340	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Dibenzofuran	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.8	U	ND	0.78	U	ND	0.79	U	ND	0.77	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10311			10311			10312			10312		
FIELD ID					CAN103-10311-003			CAN103-10311-005			CAN103-1312-003			CAN103-1312-005		
SAMPLE DEPTH (FT BGS)					3			5			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 4, 1994			December 4, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.9	U	ND	1.9	U	ND	1.9	U	ND	1.9	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.9	U	ND	1.9	U	ND	1.9	U	ND	1.9	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Fluoranthene	NE	NE	2,290	24,400	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Fluorene	NE	NE	2,290	24,400	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Hexachloroethane	NE	NE	42.8	479	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Isophorone	NE	NE	5,120	137,000	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2-Methylphenol	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
4-Methylphenol	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Naphthalene	NE	NE	43.0	241	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.9	U	ND	1.9	U	ND	1.9	U	ND	1.9	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.9	U	ND	1.9	U	ND	1.9	U	ND	1.9	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.9	U	ND	1.9	U	ND	1.9	U	ND	1.9	U
Nitrobenzene	NE	NE	53.5	300	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.9	U	ND	1.9	U	ND	1.9	U	ND	1.9	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.9	U	ND	1.9	U	ND	1.9	U	ND	1.9	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Phenol	NE	NE	18,300	205,000	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
Pyrene	NE	NE	1,720	18,300	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.4	U	ND	0.39	U	ND	0.4	U	ND	0.39	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.90	U	ND	1.90	U	ND	1.90	U	ND	1.90	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.40	U	ND	0.39	U	ND	0.40	U	ND	0.39	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.04	U	ND	0.039	U	ND	0.04	U	ND	0.039	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.04	U	ND	0.039	U	ND	0.04	U	ND	0.039	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.04	U	ND	0.039	U	ND	0.04	U	ND	0.039	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.04	U	ND	0.039	U	ND	0.04	U	ND	0.039	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.04	U	ND	0.039	U	ND	0.04	U	ND	0.039	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.04	U	ND	0.039	U	ND	0.04	U	ND	0.039	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.04	U	ND	0.039	U	ND	0.04	U	ND	0.039	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
Aldrin	NE	NE	0.284	1.12	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10311			10311			10312			10312		
FIELD ID					CAN103-10311-003			CAN103-10311-005			CAN103-1312-003			CAN103-1312-005		
SAMPLE DEPTH (FT BGS)					3			5			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 4, 1994			December 4, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
delta-BHC	NE	NE	NE	NE	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
Dieldrin	NE	NE	0.304	1.20	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
Endosulfan I	NE	NE	367	4,100	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
Endosulfan II	NE	NE	NE	NE	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
Endrin	NE	NE	18.3	205	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
Endrin ketone	NE	NE	NE	NE	ND	0.004	U	ND	0.0039	U	ND	0.004	U	ND	0.0039	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0021	U	ND	0.002	U	ND	0.002	U	ND	0.002	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.021	U	ND	0.02	U	ND	0.02	U	ND	0.02	U
Toxaphene	NE	NE	4.42	17.4	ND	0.21	U	ND	0.2	U	ND	0.2	U	ND	0.2	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.048	U	ND	0.047	U	ND	0.048	U	ND	0.047	U
2,4-DB	NE	NE	NE	NE	ND	0.12	U	ND	0.12	U	ND	0.12	U	ND	0.12	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.12	U	ND	0.12	U	ND	0.12	U	ND	0.12	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
Dichlorprop	NE	NE	NE	NE	ND	0.024	U	ND	0.024	U	ND	0.024	U	ND	0.023	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.024	U	ND	0.024	U	ND	0.024	U	ND	0.023	U
MCPA	NE	NE	31.0[g]	310[g]	ND	6	U	ND	5.9	U	ND	6	U	ND	5.9	U
MCPP	NE	NE	61.0[g]	620[g]	ND	6	U	ND	5.9	U	ND	6	U	ND	5.9	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.012	U	ND	0.012	U	ND	0.012	U	ND	0.012	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10311			10311			10312			10312		
FIELD ID					CAN103-10311-003			CAN103-10311-005			CAN103-1312-003			CAN103-1312-005		
SAMPLE DEPTH (FT BGS)					3			5			3			5		
DATE COLLECTED					December 2, 1994			December 2, 1994			December 4, 1994			December 4, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	ND	48.4	U	ND	47.2	U	ND	48	U	ND	46.9	U
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10313			10313			10313		
FIELD ID					CAN103-1313-0000			CAN103-1313-0005			CAN103-1313-0010			CAN103-1313-0015		
SAMPLE DEPTH (FT BGS)					0 - 0.5			3 - 5			8 - 10			13 - 15		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	4,740	20.3	J	2,480	55.9	J	4,940	21.9		4,050	11.3	
Antimony	16.0	3.15	31.3	454	ND	12.2	UJ	ND	33.5	UJ	ND	13.2	U	ND	6.8	U
Arsenic	4.30	3.60	3.90	17.7	1.2	0.51		2.5	0.56		2	0.55		1.5	0.56	
Barium	890	670	15,600	223,000	145	2	J	1,300	5.6	J	377	2.2		179	1.1	
Beryllium	0.73	0.78	156	2,260	0.26	0.41	J	ND	1.1	U	ND	0.44	U	0.25	0.23	
Cadmium	1.30	0.35	70.3	897	ND	1	U	ND	2.8	U	ND	1.1	U	ND	0.56	U
Calcium	237,498	44,800	NE	NE	162,000	40.6		329,000	112		191,000	43.8		91,700	22.6	
Chromium	13.3	10.5	117,000	1.70E+06	2.4	2	J	ND	5.6	UJ	5.3	2.2		3.6	1.1	
Cobalt	4.70	6.60	23[g]	300[g]	ND	2	U	ND	5.6	U	1.7	2.2	J	2.2	1.1	
Copper	8.30	18.3	3,130	45,400	2.6	4.1	J	ND	11.2	U	2.5	4.4	J	2.6	2.3	
Iron	13,148	10,100	54,800	795,000	3,780	20.3		1,530	55.9		3,620	21.9		2,730	11.3	
Lead	8.70	12.0	400	800	3.4	0.51		1.5	0.56		2.2	5.5	J	3.2	0.56	
Magnesium	19,300	1,930	NE	NE	2,360	40.6		4,880	112		5,950	43.8		5,800	22.6	
Manganese	333	307	1,860	26,700	42.6	2	J	15	5.6	J	50.6	2.2		51.9	1.1	
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.1	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Nickel	14.9	11.0	1,560	22,500	3.4	8.1	J	ND	22.4	U	6.6	8.8	J	4.4	4.5	J
Potassium	2,512	2,691	NE	NE	957	1,020	J	ND	2,800	U	812	1,100	J	837	565	
Selenium	1.10	0.26	391	5,680	ND	1	UJ	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ
Silver	2.65	0.40	391	5,680	ND	2	UJ	ND	5.6	UJ	ND	2.2	U	ND	1.1	U
Sodium	1,227	102	NE	NE	ND	1,020	U	ND	2,800	U	ND	1,100	U	ND	565	U
Thallium	2.65	0.60	0.782	11.4	ND	1	UJ	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ
Vanadium	32.8	23.3	391	5,680	10.4	2		9	5.6		20.8	2.2		17.4	1.1	
Zinc	30.6	32.2	23,500	341,000	9.9	4.1	J	5.7	11.2	J	9	4.4		6.1	2.3	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Benzene	NE	NE	15.4	84.7	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Bromomethane	NE	NE	16.5	86.5	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Chloroethane	NE	NE	NE	NE	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Chloroform	NE	NE	5.86	32.7	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Chloromethane	NE	NE	275	1,290	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10313			10313			10313		
FIELD ID					CAN103-1313-0000			CAN103-1313-0005			CAN103-1313-0010			CAN103-1313-0015		
SAMPLE DEPTH (FT BGS)					0 - 0.5			3 - 5			8 - 10			13 - 15		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Methylene chloride	NE	NE	409	4,700	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Styrene	NE	NE	7,280	50,000	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Toluene	NE	NE	5,270	57,700	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.01	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0051	U	ND	0.0056	U	ND	0.0055	U	ND	0.0056	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Acenaphthylene	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Antracene	NE	NE	17,200	183,000	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.6	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.57	U	ND	0.6	U	ND	0.6	U	ND	0.43	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Carbazole	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Chrysene	NE	NE	148	2,340	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Dibenzofuran	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.67	U	ND	0.74	U	ND	0.72	U	ND	0.75	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10313			10313			10313		
FIELD ID					CAN103-1313-0000			CAN103-1313-0005			CAN103-1313-0010			CAN103-1313-0015		
SAMPLE DEPTH (FT BGS)					0 - 0.5			3 - 5			8 - 10			13 - 15		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.6	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.6	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Fluoranthene	NE	NE	2,290	24,400	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Fluorene	NE	NE	2,290	24,400	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Hexachloroethane	NE	NE	42.8	479	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Isophorone	NE	NE	5,120	137,000	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2-Methylphenol	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
4-Methylphenol	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Naphthalene	NE	NE	43.0	241	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.6	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.6	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.6	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Nitrobenzene	NE	NE	53.5	300	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.6	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.6	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Phenol	NE	NE	18,300	205,000	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
Pyrene	NE	NE	1,720	18,300	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.60	U	ND	1.80	U	ND	1.80	U	ND	1.80	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.34	U	ND	0.37	U	ND	0.36	U	ND	0.37	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.034	U	ND	0.037	U	ND	0.036	U	ND	0.037	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.034	U	ND	0.037	U	ND	0.036	U	ND	0.037	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.034	U	ND	0.037	U	ND	0.036	U	ND	0.037	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.034	U	ND	0.037	U	ND	0.036	U	ND	0.037	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.034	U	ND	0.037	U	ND	0.036	U	ND	0.037	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.034	U	ND	0.037	U	ND	0.036	U	ND	0.037	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.034	U	ND	0.037	U	ND	0.036	U	ND	0.037	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
Aldrin	NE	NE	0.284	1.12	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10313			10313			10313		
FIELD ID					CAN103-1313-0000			CAN103-1313-0005			CAN103-1313-0010			CAN103-1313-0015		
SAMPLE DEPTH (FT BGS)					0 - 0.5			3 - 5			8 - 10			13 - 15		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
delta-BHC	NE	NE	NE	NE	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
Endosulfan I	NE	NE	367	4,100	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Endosulfan II	NE	NE	NE	NE	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
Endrin	NE	NE	18.3	205	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
Endrin ketone	NE	NE	NE	NE	ND	0.0034	U	ND	0.0037	U	ND	0.0036	U	ND	0.0037	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0017	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.017	U	ND	0.019	U	ND	0.019	U	ND	0.019	U
Toxaphene	NE	NE	4.42	17.4	ND	0.17	U	ND	0.19	U	ND	0.19	U	ND	0.19	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.041	UJ	ND	0.045	UJ	ND	0.044	U	ND	0.045	U
2,4-DB	NE	NE	NE	NE	ND	0.1	UJ	ND	0.11	UJ	ND	0.11	U	ND	0.11	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.1	UJ	ND	0.11	UJ	ND	0.11	U	ND	0.11	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.01	UJ	ND	0.011	UJ	ND	0.011	U	ND	0.011	U
Dichlorprop	NE	NE	NE	NE	ND	0.02	UJ	ND	0.022	UJ	ND	0.022	U	ND	0.023	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.02	UJ	ND	0.022	UJ	ND	0.022	U	ND	0.023	U
MCPA	NE	NE	31.0[g]	310[g]	ND	5.1	UJ	ND	5.6	UJ	ND	5.5	U	ND	5.6	U
MCPP	NE	NE	61.0[g]	620[g]	ND	5.1	UJ	ND	5.6	UJ	ND	5.5	U	ND	5.6	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.01	UJ	ND	0.011	UJ	ND	0.011	U	ND	0.011	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.01	UJ	ND	0.011	UJ	ND	0.011	U	ND	0.011	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313 CAN103-1313-0000 0 - 0.5 December 12, 1994			10313 CAN103-1313-0005 3 - 5 December 12, 1994			10313 CAN103-1313-0010 8 - 10 December 12, 1994			10313 CAN103-1313-0015 13 - 15 December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	ND	40.6	U	ND	44.7	U	ND	43.8	U	ND	45.2	U
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10314			10314			10314		
FIELD ID					CAN103-1313-0020			CAN103-1314-0000			CAN103-1314-0005			CAN103-1314-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	2,550	10.9	J	5,220	52.4	J	9,920	10.6	J	4,690	21.2	J
Antimony	16.0	3.15	31.3	454	ND	6.5	UJ	ND	31.4	UJ	ND	6.4	UJ	ND	12.7	UJ
Arsenic	4.30	3.60	3.90	17.7	0.96	0.54		2.1	0.52		2.9	0.53		1.6	0.53	
Barium	890	670	15,600	223,000	86.2	1.1	J	249	5.2	J	90.7	1.1	J	240	2.1	J
Beryllium	0.73	0.78	156	2,260	0.15	0.22	J	ND	1	U	0.4	0.21		ND	0.42	U
Cadmium	1.30	0.35	70.3	897	ND	0.54	U	ND	2.6	U	ND	0.53	U	ND	1.1	U
Calcium	237,498	44,800	NE	NE	81,100	21.8		260,000	105		58,700	21.2		193,000	42.4	
Chromium	13.3	10.5	117,000	1.70E+06	2.6	1.1	J	ND	5.2	UJ	8.4	1.1	J	2.4	2.1	J
Cobalt	4.70	6.60	23[g]	300[g]	1.4	1.1		2.7	5.2	J	3.4	1.1		1.7	2.1	J
Copper	8.30	18.3	3,130	45,400	1.3	2.2	J	6.4	10.5	J	5.2	2.1		2.6	4.2	J
Iron	13,148	10,100	54,800	795,000	1,860	10.9		4,430	52.4		7,990	10.6		3,640	21.2	
Lead	8.70	12.0	400	800	2.2	0.54		2.5	0.52		5.2	0.53		2.9	0.53	
Magnesium	19,300	1,930	NE	NE	3,400	21.8		2,850	105		2,260	21.2		2,880	42.4	
Manganese	333	307	1,860	26,700	21.7	1.1	J	175	5.2	J	96.3	1.1	J	95.6	2.1	J
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.11	U	ND	0.1	U	ND	0.11	U	ND	0.11	U
Nickel	14.9	11.0	1,560	22,500	2.5	4.4	J	ND	20.9	U	8.8	4.2	J	3.9	8.5	J
Potassium	2,512	2,691	NE	NE	604	545		918	2,620	J	1,560	531		980	1,060	J
Selenium	1.10	0.26	391	5,680	ND	1.1	UJ	ND	1	UJ	ND	1.1	UJ	ND	1.1	UJ
Silver	2.65	0.40	391	5,680	ND	1.1	UJ	ND	5.2	UJ	ND	1.1	UJ	ND	2.1	UJ
Sodium	1,227	102	NE	NE	ND	545	U	ND	2,620	U	ND	531	U	ND	1,060	U
Thallium	2.65	0.60	0.782	11.4	ND	1.1	UJ	ND	2.1	UJ	ND	1.1	UJ	ND	1.1	UJ
Vanadium	32.8	23.3	391	5,680	6.7	1.1		14.9	5.2		15.1	1.1		7.7	2.1	
Zinc	30.6	32.2	23,500	341,000	3.8	2.2	J	9.1	10.5	J	16.9	2.1	J	8.5	4.2	J
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	ND	0.011	U	0.0022	0.01	J	ND	0.011	U	ND	0.011	U
Benzene	NE	NE	15.4	84.7	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Chloroethane	NE	NE	NE	NE	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
Chloroform	NE	NE	5.86	32.7	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Chloromethane	NE	NE	275	1,290	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10314			10314			10314		
FIELD ID					CAN103-1313-0020			CAN103-1314-0000			CAN103-1314-0005			CAN103-1314-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
Methylene chloride	NE	NE	409	4,700	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Styrene	NE	NE	7,280	50,000	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Toluene	NE	NE	5,270	57,700	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0054	U	ND	0.0052	U	ND	0.0053	U	ND	0.0053	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Acenaphthylene	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Antracene	NE	NE	17,200	183,000	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.7	U	ND	1.7	U	ND	1.7	U	ND	1.7	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.62	U	ND	0.35	U	ND	0.35	U	ND	0.8	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Carbazole	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Chrysene	NE	NE	148	2,340	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Dibenzofuran	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.72	U	ND	0.69	U	ND	0.7	U	ND	0.7	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10314			10314			10314		
FIELD ID					CAN103-1313-0020			CAN103-1314-0000			CAN103-1314-0005			CAN103-1314-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.7	U	ND	1.7	U	ND	1.7	U	ND	1.7	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.7	U	ND	1.7	U	ND	1.7	U	ND	1.7	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Fluoranthene	NE	NE	2,290	24,400	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Fluorene	NE	NE	2,290	24,400	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Hexachloroethane	NE	NE	42.8	479	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Isophorone	NE	NE	5,120	137,000	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2-Methylphenol	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
4-Methylphenol	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Naphthalene	NE	NE	43.0	241	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.7	U	ND	1.7	U	ND	1.7	U	ND	1.7	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.7	U	ND	1.7	U	ND	1.7	U	ND	1.7	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.7	U	ND	1.7	U	ND	1.7	U	ND	1.7	U
Nitrobenzene	NE	NE	53.5	300	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.7	U	ND	1.7	U	ND	1.7	U	ND	1.7	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.7	U	ND	1.7	U	ND	1.7	U	ND	1.7	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Phenol	NE	NE	18,300	205,000	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
Pyrene	NE	NE	1,720	18,300	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.70	U	ND	1.70	U	ND	1.70	U	ND	1.70	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.36	U	ND	0.35	U	ND	0.35	U	ND	0.35	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.036	U	ND	0.035	U	ND	0.035	U	ND	0.035	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.036	U	ND	0.035	U	ND	0.035	U	ND	0.035	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.036	U	ND	0.035	U	ND	0.035	U	ND	0.035	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.036	U	ND	0.035	U	ND	0.035	U	ND	0.035	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.036	U	ND	0.035	U	ND	0.035	U	ND	0.035	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.036	U	ND	0.035	U	ND	0.035	U	ND	0.035	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.036	U	ND	0.035	U	ND	0.035	U	ND	0.035	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
Aldrin	NE	NE	0.284	1.12	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10314			10314			10314		
FIELD ID					CAN103-1313-0020			CAN103-1314-0000			CAN103-1314-0005			CAN103-1314-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
delta-BHC	NE	NE	NE	NE	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
Endosulfan I	NE	NE	367	4,100	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
Endosulfan II	NE	NE	NE	NE	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
Endrin	NE	NE	18.3	205	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
Endrin ketone	NE	NE	NE	NE	ND	0.0036	U	ND	0.0035	U	ND	0.0035	U	ND	0.0035	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0019	U	ND	0.0018	U	ND	0.0018	U	ND	0.0018	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.019	U	ND	0.018	U	ND	0.018	U	ND	0.018	U
Toxaphene	NE	NE	4.42	17.4	ND	0.19	U	ND	0.18	U	ND	0.18	U	ND	0.18	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.044	U	ND	0.042	U	ND	0.042	U	ND	0.042	U
2,4-DB	NE	NE	NE	NE	ND	0.11	U	ND	0.1	U	ND	0.11	U	ND	0.11	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.11	U	ND	0.1	U	ND	0.11	U	ND	0.11	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
Dichlorprop	NE	NE	NE	NE	ND	0.022	U	ND	0.021	U	ND	0.021	U	ND	0.021	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.022	U	ND	0.021	U	ND	0.021	U	ND	0.021	U
MCPA	NE	NE	31.0[g]	310[g]	ND	5.4	U	ND	5.2	U	ND	5.3	U	ND	5.3	U
MCPP	NE	NE	61.0[g]	620[g]	ND	5.4	U	ND	5.2	U	ND	5.3	U	ND	5.3	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.011	U	ND	0.01	U	ND	0.011	U	ND	0.011	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10313			10314			10314			10314		
FIELD ID					CAN103-1313-0020			CAN103-1314-0000			CAN103-1314-0005			CAN103-1314-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	ND	43.6	U	ND	41.9	U	ND	42.5	U	ND	42.4	U
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10314			10314			10314			10315		
FIELD ID					CAN103-1314-1363			CAN103-1314-0015			CAN103-1314-0020			CAN103-1315-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	5,920	21.1		5,490	21.6	J	5,860	11		4,680	11.9	
Antimony	16.0	3.15	31.3	454	ND	12.7	U	ND	13	UJ	ND	6.6	U	ND	7.2	UJ
Arsenic	4.30	3.60	3.90	17.7	1.7	0.53		1.6	0.54		0.87	0.55		1.2	0.6	
Barium	890	670	15,600	223,000	226	2.1		309	2.2	J	146	1.1		87.5	1.2	
Beryllium	0.73	0.78	156	2,260	ND	0.42	U	ND	0.43	U	0.25	0.22		0.4	0.24	
Cadmium	1.30	0.35	70.3	897	ND	1.1	U	ND	1.1	U	ND	0.55	U	ND	0.6	U
Calcium	237,498	44,800	NE	NE	195,000	42.3		190,000	43.3		99,500	21.9		21,700	23.8	J
Chromium	13.3	10.5	117,000	1.70E+06	4.1	2.1		3.1	2.2	J	3.8	1.1		5.6	1.2	
Cobalt	4.70	6.60	23[g]	300[g]	1.1	2.1	J	1.6	2.2	J	1.6	1.1		2.7	1.2	
Copper	8.30	18.3	3,130	45,400	2.6	4.2	J	2.9	4.3	J	2.3	2.2		7.1	2.4	
Iron	13,148	10,100	54,800	795,000	4,110	21.1		3,640	21.6		3,750	11		6,010	11.9	
Lead	8.70	12.0	400	800	3.2	0.53		2.7	0.54		3.6	0.55		6.9	0.6	J
Magnesium	19,300	1,930	NE	NE	2,980	42.3		4,550	43.3		3,840	21.9		1,960	23.8	
Manganese	333	307	1,860	26,700	116	2.1		56.8	2.2	J	31.4	1.1		94.7	1.2	
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.12	U
Nickel	14.9	11.0	1,560	22,500	3.9	8.5	J	4.9	8.7	J	4.2	4.4	J	5.7	4.8	
Potassium	2,512	2,691	NE	NE	1,210	1,060		1,030	1,080	J	1,130	548		2,280	596	
Selenium	1.10	0.26	391	5,680	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ	ND	1.2	UJ
Silver	2.65	0.40	391	5,680	ND	2.1	U	ND	2.2	UJ	ND	1.1	U	ND	1.2	U
Sodium	1,227	102	NE	NE	ND	1,060	U	ND	1,080	U	ND	548	U	ND	596	U
Thallium	2.65	0.60	0.782	11.4	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ	0.14	0.6	J
Vanadium	32.8	23.3	391	5,680	8.1	2.1		7.8	2.2		6.6	1.1		12.4	1.2	
Zinc	30.6	32.2	23,500	341,000	10	4.2		8.8	4.3	J	7.3	2.2		18.7	2.4	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
Benzene	NE	NE	15.4	84.7	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Chloroethane	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
Chloroform	NE	NE	5.86	32.7	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Chloromethane	NE	NE	275	1,290	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10314			10314			10314			10315		
FIELD ID					CAN103-1314-1363			CAN103-1314-0015			CAN103-1314-0020			CAN103-1315-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
Methylene chloride	NE	NE	409	4,700	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.0068	U
Styrene	NE	NE	7,280	50,000	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Toluene	NE	NE	5,270	57,700	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0053	U	ND	0.0054	U	ND	0.0055	U	ND	0.006	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Acenaphthylene	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Antracene	NE	NE	17,200	183,000	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.36	U	ND	0.36	U	0.053	0.39	J
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.35	U	ND	0.36	U	ND	0.36	U	0.061	0.39	J
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.36	U	ND	0.36	U	0.095	0.39	J
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.7	U	ND	1.7	U	ND	1.8	U	ND	1.9	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.52	U	ND	0.51	U	ND	0.48	U	ND	0.39	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Carbazole	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Chrysene	NE	NE	148	2,340	ND	0.35	U	ND	0.36	U	ND	0.36	U	0.067	0.39	J
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Dibenzofuran	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.7	U	ND	0.71	U	ND	0.72	U	ND	0.79	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10314			10314			10314			10315		
FIELD ID					CAN103-1314-1363			CAN103-1314-0015			CAN103-1314-0020			CAN103-1315-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.7	U	ND	1.7	U	ND	1.8	U	ND	1.9	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.7	U	ND	1.7	U	ND	1.8	U	ND	1.9	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Fluoranthene	NE	NE	2,290	24,400	ND	0.35	U	ND	0.36	U	ND	0.36	U	0.069	0.39	J
Fluorene	NE	NE	2,290	24,400	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Hexachloroethane	NE	NE	42.8	479	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Isophorone	NE	NE	5,120	137,000	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2-Methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
4-Methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Naphthalene	NE	NE	43.0	241	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.7	U	ND	1.7	U	ND	1.8	U	ND	1.9	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.7	U	ND	1.7	U	ND	1.8	U	ND	1.9	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.7	U	ND	1.7	U	ND	1.8	U	ND	1.9	U
Nitrobenzene	NE	NE	53.5	300	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.7	U	ND	1.7	U	ND	1.8	U	ND	1.9	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.7	U	ND	1.7	U	ND	1.8	U	ND	1.9	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Phenol	NE	NE	18,300	205,000	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
Pyrene	NE	NE	1,720	18,300	ND	0.35	U	ND	0.36	U	ND	0.36	U	0.071	0.39	J
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.70	U	ND	1.70	U	ND	1.80	U	ND	1.90	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.35	U	ND	0.36	U	ND	0.36	U	ND	0.39	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.035	U	ND	0.036	U	ND	0.036	U	ND	0.39	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.035	U	ND	0.036	U	ND	0.036	U	ND	0.39	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.035	U	ND	0.036	U	ND	0.036	U	ND	0.39	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.035	U	ND	0.036	U	ND	0.036	U	ND	0.39	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.035	U	ND	0.036	U	ND	0.036	U	0.75	0.39	
Aroclor 1254	NE	NE	1.12	8.26	ND	0.035	U	ND	0.036	U	ND	0.036	U	ND	0.39	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.035	U	ND	0.036	U	ND	0.036	U	ND	0.39	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
Aldrin	NE	NE	0.284	1.12	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10314			10314			10314			10315		
FIELD ID					CAN103-1314-1363			CAN103-1314-0015			CAN103-1314-0020			CAN103-1315-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
delta-BHC	NE	NE	NE	NE	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
Endosulfan I	NE	NE	367	4,100	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
Endosulfan II	NE	NE	NE	NE	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
Endrin	NE	NE	18.3	205	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
Endrin ketone	NE	NE	NE	NE	ND	0.0035	U	ND	0.0036	U	ND	0.0036	U	ND	0.039	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0018	U	ND	0.0018	U	ND	0.0019	U	ND	0.02	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.018	U	ND	0.018	U	ND	0.019	U	ND	0.2	U
Toxaphene	NE	NE	4.42	17.4	ND	0.18	U	ND	0.18	U	ND	0.19	U	ND	2	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.042	U	ND	0.043	U	ND	0.044	U	ND	0.048	U
2,4-DB	NE	NE	NE	NE	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.12	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.12	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
Dichlorprop	NE	NE	NE	NE	ND	0.021	U	ND	0.022	U	ND	0.022	U	ND	0.024	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.021	U	ND	0.022	U	ND	0.022	U	ND	0.024	U
MCPA	NE	NE	31.0[g]	310[g]	ND	5.3	U	ND	5.4	U	ND	5.5	U	ND	6	U
MCPP	NE	NE	61.0[g]	620[g]	ND	5.3	U	ND	5.4	U	ND	5.5	U	ND	6	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.012	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10314			10314			10314			10315		
FIELD ID					CAN103-1314-1363			CAN103-1314-0015			CAN103-1314-0020			CAN103-1315-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	ND	42.3	U	ND	43.3	U	ND	43.9	U	734	47.7	J
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10315			10315			10315		
FIELD ID					CAN103-1315-0005			CAN103-1315-0010			CAN103-1315-0015			CAN103-1315-1362		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			13 - 15		
DATE COLLECTED					December 11, 1994			December 11, 1994			December 11, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	5,280	10.7		2,800	55.5		3,250	56		2,600	22.3	
Antimony	16.0	3.15	31.3	454	ND	6.4	UJ	ND	33.3	UJ	ND	33.6	U	ND	13.4	UJ
Arsenic	4.30	3.60	3.90	17.7	1.4	0.53		1.6	0.55		1.6	0.56		1.3	0.56	
Barium	890	670	15,600	223,000	143	1.1		176	5.5		147	5.6		111	2.2	
Beryllium	0.73	0.78	156	2,260	0.37	0.21		ND	1.1	U	ND	1.1	U	ND	0.45	U
Cadmium	1.30	0.35	70.3	897	ND	0.53	U	ND	2.8	U	ND	2.8	U	ND	1.1	U
Calcium	237,498	44,800	NE	NE	78,600	21.4	J	305,000	111	J	249,000	112	J	203,000	44.6	J
Chromium	13.3	10.5	117,000	1.70E+06	9.4	1.1		ND	5.5	U	ND	5.6	U	1.7	2.2	J
Cobalt	4.70	6.60	23[g]	300[g]	2.4	1.1		ND	5.5	U	ND	5.6	U	2.2	2.2	
Copper	8.30	18.3	3,130	45,400	6.4	2.1		2.5	11.1	J	4.1	11.2	J	3.3	4.5	J
Iron	13,148	10,100	54,800	795,000	5,890	10.7		3,180	55.5		3,740	56		3,060	22.3	
Lead	8.70	12.0	400	800	5.3	1.1	J	1.7	1.1	J	1.5	0.56	J	1.6	0.56	J
Magnesium	19,300	1,930	NE	NE	1,900	21.4		5,800	111		6,650	112		5,600	44.6	
Manganese	333	307	1,860	26,700	139	1.1		110	5.5		107	5.6		99.3	2.2	
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Nickel	14.9	11.0	1,560	22,500	6.3	4.3		ND	22.2	U	ND	22.4	U	4.6	8.9	J
Potassium	2,512	2,691	NE	NE	1,230	534		385	2,770	J	431	2,800	J	595	1,120	J
Selenium	1.10	0.26	391	5,680	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ
Silver	2.65	0.40	391	5,680	ND	1.1	U	ND	5.5	U	ND	5.6	U	ND	2.2	U
Sodium	1,227	102	NE	NE	213	534	J	ND	2,770	U	ND	2,800	U	ND	1,120	U
Thallium	2.65	0.60	0.782	11.4	ND	1.1	UJ	ND	2.2	U	ND	1.1	UJ	ND	1.1	UJ
Vanadium	32.8	23.3	391	5,680	13.4	1.1		16.9	5.5		18.2	5.6		15.9	2.2	
Zinc	30.6	32.2	23,500	341,000	14.2	2.1		4.9	11.1	J	3.3	11.2	J	3.6	4.5	J
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	ND	0.011	U	ND	0.011	U	ND		U	ND	0.011	U
Benzene	NE	NE	15.4	84.7	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Chloroethane	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Chloroform	NE	NE	5.86	32.7	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Chloromethane	NE	NE	275	1,290	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10315			10315			10315		
FIELD ID					CAN103-1315-0005			CAN103-1315-0010			CAN103-1315-0015			CAN103-1315-1362		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			13 - 15		
DATE COLLECTED					December 11, 1994			December 11, 1994			December 11, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Methylene chloride	NE	NE	409	4,700	ND	0.0053	U	ND	0.0055	U	ND	NA	U	ND	0.0056	U
Styrene	NE	NE	7,280	50,000	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Toluene	NE	NE	5,270	57,700	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0053	U	ND	0.0055	U	ND	0.0056	U	ND	0.0056	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Acenaphthylene	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Antracene	NE	NE	17,200	183,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Carbazole	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Chrysene	NE	NE	148	2,340	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Dibenzofuran	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.71	U	ND	0.73	U	ND	0.74	U	ND	0.74	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10315			10315			10315		
FIELD ID					CAN103-1315-0005			CAN103-1315-0010			CAN103-1315-0015			CAN103-1315-1362		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			13 - 15		
DATE COLLECTED					December 11, 1994			December 11, 1994			December 11, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Fluoranthene	NE	NE	2,290	24,400	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Fluorene	NE	NE	2,290	24,400	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Hexachloroethane	NE	NE	42.8	479	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Isophorone	NE	NE	5,120	137,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Naphthalene	NE	NE	43.0	241	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Nitrobenzene	NE	NE	53.5	300	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Phenol	NE	NE	18,300	205,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Pyrene	NE	NE	1,720	18,300	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.70	U	ND	1.80	U	ND	1.80	U	ND	1.80	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.035	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.035	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.035	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.035	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1248	NE	NE	2.22	8.26	0.48	0.035		ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.035	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.035	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Aldrin	NE	NE	0.284	1.12	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10315			10315			10315		
FIELD ID					CAN103-1315-0005			CAN103-1315-0010			CAN103-1315-0015			CAN103-1315-1362		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			13 - 15		
DATE COLLECTED					December 11, 1994			December 11, 1994			December 11, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
delta-BHC	NE	NE	NE	NE	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endosulfan I	NE	NE	367	4,100	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Endosulfan II	NE	NE	NE	NE	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endrin	NE	NE	18.3	205	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endrin ketone	NE	NE	NE	NE	ND	0.0035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.018	U	ND	0.019	U	ND	0.019	U	ND	0.019	U
Toxaphene	NE	NE	4.42	17.4	ND	0.18	U	ND	0.19	U	ND	0.19	U	ND	0.19	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.043	U	ND	0.044	U	ND	0.045	U	ND	0.045	U
2,4-DB	NE	NE	NE	NE	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dichlorprop	NE	NE	NE	NE	ND	0.021	U	ND	0.022	U	ND	0.022	U	ND	0.022	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.021	U	ND	0.022	U	ND	0.022	U	ND	0.022	U
MCPA	NE	NE	31.0[g]	310[g]	ND	5.3	U	ND	5.5	U	ND	5.6	U	ND	5.6	U
MCPP	NE	NE	61.0[g]	620[g]	ND	5.3	U	ND	5.5	U	ND	5.6	U	ND	5.6	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10315			10315			10315		
FIELD ID					CAN103-1315-0005			CAN103-1315-0010			CAN103-1315-0015			CAN103-1315-1362		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			13 - 15		
DATE COLLECTED					December 11, 1994			December 11, 1994			December 11, 1994			December 11, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	ND	NA	R	ND	NA	R	ND	44.8	U	ND	NA	R
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10316			10316			10316		
FIELD ID					CAN103-1315-0020			CAN103-1316-0000			CAN103-1316-0005			CAN103-1316-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 11, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	2,410	11.2		3,370	22.1	J	6,370	10.4	J	3,860	10.7	J
Antimony	16.0	3.15	31.3	454	ND	6.7	UJ	ND	13.3	UJ	ND	6.2	UJ	ND	6.4	UJ
Arsenic	4.30	3.60	3.90	17.7	0.65	0.56		1.5	0.55		0.76	0.52		1.1	0.54	
Barium	890	670	15,600	223,000	82.2	1.1		182	2.2	J	58.7	1	J	47	1.1	J
Beryllium	0.73	0.78	156	2,260	ND	0.22	U	0.32	0.44	J	0.4	0.21		0.36	0.21	
Cadmium	1.30	0.35	70.3	897	ND	0.56	U	ND	1.1	U	ND	0.52	U	ND	0.54	U
Calcium	237,498	44,800	NE	NE	96,500	22.3	J	176,000	44.2	J	1,520	20.8	J	28,900	21.5	
Chromium	13.3	10.5	117,000	1.70E+06	2.3	1.1		1.4	2.2	J	9.1	1	J	3.9	1.1	J
Cobalt	4.70	6.60	23[g]	300[g]	0.87	1.1	J	1.5	2.2	J	2.3	1		3.4	1.1	
Copper	8.30	18.3	3,130	45,400	1.8	2.2	J	3.7	4.4	J	7.1	2.1		3.9	2.1	
Iron	13,148	10,100	54,800	795,000	2,370	11.2		3,110	22.1	J	7,110	10.4	J	4,750	10.7	
Lead	8.70	12.0	400	800	1.6	0.56	J	3.6	1.1	J	7.2	0.52	J	5.9	0.54	
Magnesium	19,300	1,930	NE	NE	2,240	22.3		2,860	44.2		1,160	20.8		1,940	21.5	
Manganese	333	307	1,860	26,700	54.8	1.1		83.8	2.2		31.2	1		77.1	1.1	J
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.11	U	ND	0.11	U	0.14	0.1		ND	0.11	U
Nickel	14.9	11.0	1,560	22,500	ND	4.5	U	5.5	8.8	J	4.9	4.2		6.1	4.3	J
Potassium	2,512	2,691	NE	NE	684	559		1,430	1,100		1,410	521		1,060	537	
Selenium	1.10	0.26	391	5,680	ND	1.1	UJ	ND	1.1	UJ	ND	0.52	UJ	ND	1.1	U
Silver	2.65	0.40	391	5,680	ND	1.1	U	ND	2.2	U	1.9	1		ND	1.1	UJ
Sodium	1,227	102	NE	NE	ND	559	U	ND	1,100	U	ND	521	U	ND	537	U
Thallium	2.65	0.60	0.782	11.4	ND	1.1	UJ	ND	1.1	UJ	ND	0.52	UJ	ND	1.1	U
Vanadium	32.8	23.3	391	5,680	5.5	1.1		10	2.2	J	15.5	1	J	16.6	1.1	
Zinc	30.6	32.2	23,500	341,000	4.4	2.2		9	4.4	J	31.3	2.1	J	8.3	2.1	J
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	ND		U	ND	0.011	U	ND	0.01	U	ND	0.011	U
Benzene	NE	NE	15.4	84.7	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	ND	0.011	U	ND	0.01	U	ND	0.011	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.011	U	ND	0.011	U	ND	0.01	U	ND	0.011	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Chloroethane	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.01	U	ND	0.011	U
Chloroform	NE	NE	5.86	32.7	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Chloromethane	NE	NE	275	1,290	ND	0.011	U	ND	0.011	U	ND	0.01	U	ND	0.011	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.011	U	ND	0.011	U	ND	0.01	U	ND	0.011	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10316			10316			10316		
FIELD ID					CAN103-1315-0020			CAN103-1316-0000			CAN103-1316-0005			CAN103-1316-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 11, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.011	U	ND	0.011	U	ND	0.01	U	ND	0.011	U
Methylene chloride	NE	NE	409	4,700	ND	NA	U	0.002	0.0055	J	0.002	0.0052	J	ND	0.0054	U
Styrene	NE	NE	7,280	50,000	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Toluene	NE	NE	5,270	57,700	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.011	U	ND	0.011	U	ND	0.01	U	ND	0.011	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.011	U	ND	0.011	U	ND	0.01	U	ND	0.011	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0056	U	ND	0.0055	U	ND	0.0052	U	ND	0.0054	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Acenaphthylene	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Antracene	NE	NE	17,200	183,000	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.8	U	ND	1.8	U	ND	1.7	U	ND	1.7	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	5.8	0.37		ND	0.36	U	ND	0.57	U	ND	0.62	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Carbazole	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Chrysene	NE	NE	148	2,340	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Di-n-octyl phthalate	NE	NE	NE	NE	0.43	0.37		ND	0.36	U	ND	0.34	U	ND	0.35	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Dibenzofuran	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.74	U	ND	0.73	U	ND	0.69	U	ND	0.71	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10316			10316			10316		
FIELD ID					CAN103-1315-0020			CAN103-1316-0000			CAN103-1316-0005			CAN103-1316-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 11, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.8	U	ND	1.8	U	ND	1.7	U	ND	1.7	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.8	U	ND	1.8	U	ND	1.7	U	ND	1.7	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Fluoranthene	NE	NE	2,290	24,400	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Fluorene	NE	NE	2,290	24,400	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Hexachloroethane	NE	NE	42.8	479	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Isophorone	NE	NE	5,120	137,000	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2-Methylphenol	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
4-Methylphenol	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Naphthalene	NE	NE	43.0	241	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.8	U	ND	1.8	U	ND	1.7	U	ND	1.7	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.8	U	ND	1.8	U	ND	1.7	U	ND	1.7	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.8	U	ND	1.8	U	ND	1.7	U	ND	1.7	U
Nitrobenzene	NE	NE	53.5	300	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.8	U	ND	1.8	U	ND	1.7	U	ND	1.7	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.8	U	ND	1.8	U	ND	1.7	U	ND	1.7	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Phenol	NE	NE	18,300	205,000	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
Pyrene	NE	NE	1,720	18,300	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.80	U	ND	1.80	U	ND	1.70	U	ND	1.70	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.37	U	ND	0.36	U	ND	0.34	U	ND	0.35	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.037	U	NS	--	--	NS	--	--	ND	0.035	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.037	U	NS	--	--	NS	--	--	ND	0.035	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.037	U	NS	--	--	NS	--	--	ND	0.035	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.037	U	NS	--	--	NS	--	--	ND	0.035	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.037	U	NS	--	--	NS	--	--	ND	0.035	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.037	U	NS	--	--	NS	--	--	ND	0.035	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.037	U	NS	--	--	NS	--	--	ND	0.035	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
Aldrin	NE	NE	0.284	1.12	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10316			10316			10316		
FIELD ID					CAN103-1315-0020			CAN103-1316-0000			CAN103-1316-0005			CAN103-1316-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 11, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
delta-BHC	NE	NE	NE	NE	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
Endosulfan I	NE	NE	367	4,100	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
Endosulfan II	NE	NE	NE	NE	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
Endrin	NE	NE	18.3	205	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
Endrin ketone	NE	NE	NE	NE	ND	0.0037	U	NS	--	--	NS	--	--	ND	0.0035	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0019	U	NS	--	--	NS	--	--	ND	0.0018	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.019	U	NS	--	--	NS	--	--	ND	0.018	U
Toxaphene	NE	NE	4.42	17.4	ND	0.19	U	NS	--	--	NS	--	--	ND	0.18	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.045	U	NS	--	--	NS	--	--	ND	0.043	U
2,4-DB	NE	NE	NE	NE	ND	0.11	U	NS	--	--	NS	--	--	ND	0.11	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.11	U	NS	--	--	NS	--	--	ND	0.11	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.011	U	NS	--	--	NS	--	--	ND	0.011	U
Dichlorprop	NE	NE	NE	NE	ND	0.022	U	NS	--	--	NS	--	--	ND	0.021	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.022	U	NS	--	--	NS	--	--	ND	0.021	U
MCPA	NE	NE	31.0[g]	310[g]	ND	5.6	U	NS	--	--	NS	--	--	ND	5.4	U
MCPP	NE	NE	61.0[g]	620[g]	ND	5.6	U	NS	--	--	NS	--	--	ND	5.4	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.011	U	NS	--	--	NS	--	--	ND	0.011	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.011	U	NS	--	--	NS	--	--	ND	0.011	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10315			10316			10316			10316		
FIELD ID					CAN103-1315-0020			CAN103-1316-0000			CAN103-1316-0005			CAN103-1316-0010		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			3 - 5			8 - 10		
DATE COLLECTED					December 11, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	ND	NA	R	ND	44.2	U	ND	41.7	U	58.5	43	
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10316			10316			10316			10317		
FIELD ID					CAN103-1316-1364			CAN103-1316-0015			CAN103-1316-0020			CAN103-1317-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	7,300	10.7	J	4,530	22.8	J	3,870	11.2	J	6,220	10.8	
Antimony	16.0	3.15	31.3	454	ND	6.4	UJ	ND	13.7	UJ	ND	6.7	UJ	4.9	6.5	J
Arsenic	4.30	3.60	3.90	17.7	1.2	0.54		1.5	0.57		0.78	0.56		2.2	0.54	
Barium	890	670	15,600	223,000	48.8	1.1	J	313	2.3	J	92.4	1.1	J	105	1.1	
Beryllium	0.73	0.78	156	2,260	0.43	0.21		ND	0.46	U	0.3	0.22		0.43	0.22	
Cadmium	1.30	0.35	70.3	897	ND	0.54	U	ND	1.1	U	ND	0.56	U	ND	0.54	U
Calcium	237,498	44,800	NE	NE	22,800	21.5		144,000	45.7		29,300	22.3		73,600	21.7	
Chromium	13.3	10.5	117,000	1.70E+06	7	1.1	J	2.9	2.3	J	3.5	1.1	J	5.4	1.1	
Cobalt	4.70	6.60	23[g]	300[g]	3.5	1.1		2.2	2.3	J	2.6	1.1		2.6	1.1	
Copper	8.30	18.3	3,130	45,400	3.9	2.1		4.5	4.6	J	2.9	2.2		6.6	2.2	
Iron	13,148	10,100	54,800	795,000	7,690	10.7		4,680	22.8		3,710	11.2		5,670	10.8	
Lead	8.70	12.0	400	800	6.3	0.54		6.2	1.1		4	2.8		6	0.54	
Magnesium	19,300	1,930	NE	NE	2,440	21.5		3,140	45.7		2,110	22.3		1,950	21.7	
Manganese	333	307	1,860	26,700	105	1.1	J	74.9	2.3	J	41.2	1.1	J	127	1.1	J
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Nickel	14.9	11.0	1,560	22,500	8.1	4.3	J	3.3	9.1	J	4.7	4.5	J	6.9	4.3	
Potassium	2,512	2,691	NE	NE	1,600	536		1,380	1,140		1,250	558		2,140	542	
Selenium	1.10	0.26	391	5,680	ND	1.1	UJ	ND	2.3	UJ	ND	1.1	UJ	ND	1.1	UJ
Silver	2.65	0.40	391	5,680	ND	1.1	UJ	ND	2.3	UJ	ND	1.1	UJ	ND	1.1	U
Sodium	1,227	102	NE	NE	ND	536	U	ND	1,140	U	ND	558	U	ND	542	U
Thallium	2.65	0.60	0.782	11.4	ND	0.54	UJ	ND	1.1	UJ	ND	0.56	UJ	ND	1.1	UJ
Vanadium	32.8	23.3	391	5,680	18.8	1.1		13.8	2.3		9.5	1.1		15.6	1.1	
Zinc	30.6	32.2	23,500	341,000	13.6	2.1	J	8.2	4.6	J	8.3	2.2	J	15.7	2.2	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	0.0049	0.011	J	ND	0.011	U	0.008	0.011	J	ND	0.011	U
Benzene	NE	NE	15.4	84.7	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Chloroethane	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Chloroform	NE	NE	5.86	32.7	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Chloromethane	NE	NE	275	1,290	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10316			10316			10316			10317		
FIELD ID					CAN103-1316-1364			CAN103-1316-0015			CAN103-1316-0020			CAN103-1317-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Methylene chloride	NE	NE	409	4,700	0.0049	0.0054	J	ND	0.0057	U	ND	0.0056	U	ND	0.0054	UJ
Styrene	NE	NE	7,280	50,000	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Toluene	NE	NE	5,270	57,700	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0054	U	ND	0.0057	U	ND	0.0056	U	ND	0.0054	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Acenaphthylene	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Antracene	NE	NE	17,200	183,000	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.7	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.72	U	ND	0.97	U	ND	0.49	U	ND	0.36	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Carbazole	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
4-Chloroaniline	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2-Chlorophenol	NE	NE	391	5,680	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Chrysene	NE	NE	148	2,340	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Dibenzofuran	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.71	U	ND	0.75	U	ND	0.74	U	ND	0.72	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10316			10316			10316			10317		
FIELD ID					CAN103-1316-1364			CAN103-1316-0015			CAN103-1316-0020			CAN103-1317-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.7	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.7	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Fluoranthene	NE	NE	2,290	24,400	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Fluorene	NE	NE	2,290	24,400	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Hexachloroethane	NE	NE	42.8	479	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Isophorone	NE	NE	5,120	137,000	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2-Methylphenol	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
4-Methylphenol	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Naphthalene	NE	NE	43.0	241	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.7	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.7	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.7	U
Nitrobenzene	NE	NE	53.5	300	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2-Nitrophenol	NE	NE	NE	NE	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.7	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.7	U
Phenanthrene	NE	NE	1,830	20,500	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Phenol	NE	NE	18,300	205,000	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
Pyrene	NE	NE	1,720	18,300	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	3.5	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.70	U	ND	1.80	U	ND	1.80	U	ND	1.70	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	3.50	U	ND	0.38	U	ND	0.37	U	ND	0.36	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.035	U	ND	0.038	U	ND	0.037	U	ND	0.036	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.035	U	ND	0.038	U	ND	0.037	U	ND	0.036	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.035	U	ND	0.038	U	ND	0.037	U	ND	0.036	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.035	U	ND	0.038	U	ND	0.037	U	ND	0.036	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.035	U	ND	0.038	U	ND	0.037	U	ND	0.036	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.035	U	ND	0.038	U	ND	0.037	U	ND	0.036	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.035	U	ND	0.038	U	ND	0.037	U	ND	0.036	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
Aldrin	NE	NE	0.284	1.12	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10316			10316			10316			10317		
FIELD ID					CAN103-1316-1364			CAN103-1316-0015			CAN103-1316-0020			CAN103-1317-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
delta-BHC	NE	NE	NE	NE	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
Endosulfan I	NE	NE	367	4,100	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
Endosulfan II	NE	NE	NE	NE	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
Endrin	NE	NE	18.3	205	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
Endrin ketone	NE	NE	NE	NE	ND	0.0035	U	ND	0.0038	U	ND	0.0037	U	ND	0.0036	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0018	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.018	U	ND	0.019	U	ND	0.019	U	ND	0.018	U
Toxaphene	NE	NE	4.42	17.4	ND	0.18	U	ND	0.19	U	ND	0.19	U	ND	0.18	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.043	U	ND	0.046	U	ND	0.045	U	ND	0.043	U
2,4-DB	NE	NE	NE	NE	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dichlorprop	NE	NE	NE	NE	ND	0.021	U	ND	0.023	U	ND	0.022	U	ND	0.022	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.021	U	ND	0.023	U	ND	0.022	U	ND	0.022	U
MCPA	NE	NE	31.0[g]	310[g]	ND	5.4	U	ND	5.7	U	ND	5.6	U	ND	5.4	U
MCPP	NE	NE	61.0[g]	620[g]	ND	5.4	U	ND	5.7	U	ND	5.6	U	ND	5.4	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10316			10316			10316			10317		
FIELD ID					CAN103-1316-1364			CAN103-1316-0015			CAN103-1316-0020			CAN103-1317-0000		
SAMPLE DEPTH (FT BGS)					8 - 10			13 - 15			18 - 20			0 - 0.5		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	50.8	42.9		ND	45.7	U	ND	44.6	U	ND	43.4	U
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10317			10317			10317			10317		
FIELD ID					CAN103-1317-0005			CAN103-1317-0010			CAN103-1317-0015			CAN103-1317-0020		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			18 - 20		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	5,390	10.6		4,090	22.4		4,440	22.4		6,170	11.1	
Antimony	16.0	3.15	31.3	454	ND	6.4	UJ	ND	13.5	UJ	ND	13.5	UJ	ND	6.6	UJ
Arsenic	4.30	3.60	3.90	17.7	1.7	0.53		1.8	0.56		1	0.56		1.2	0.55	
Barium	890	670	15,600	223,000	144	1.1		333	2.2		67.5	2.2		223	1.1	
Beryllium	0.73	0.78	156	2,260	0.36	0.21		ND	0.45	U	ND	0.45	U	0.4	0.22	
Cadmium	1.30	0.35	70.3	897	ND	0.53	U	ND	1.1	U	ND	1.1	U	ND	0.55	U
Calcium	237,498	44,800	NE	NE	77,700	21.3		197,000	44.9		140,000	44.9		11,800	22.1	
Chromium	13.3	10.5	117,000	1.70E+06	6.3	1.1		3.9	2.2		2.2	2.2		5.5	1.1	
Cobalt	4.70	6.60	23[g]	300[g]	2.9	1.1		3.2	2.2		1.7	2.2	J	2.3	1.1	
Copper	8.30	18.3	3,130	45,400	8.6	2.1		2.6	4.5	J	1.4	4.5	J	3	2.2	
Iron	13,148	10,100	54,800	795,000	5,310	10.6		2,460	22.4		2,920	22.4		5,140	11.1	
Lead	8.70	12.0	400	800	6.2	1.1		1.7	1.1		2.4	1.1		4.3	0.55	
Magnesium	19,300	1,930	NE	NE	1,980	21.3		9,160	44.9		7,140	44.9		5,120	22.1	
Manganese	333	307	1,860	26,700	77.3	1.1	J	24.9	2.2	J	30.1	2.2	J	34.6	1.1	J
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	0.14	0.11		ND	0.11	U	ND	0.11	U	ND	0.11	U
Nickel	14.9	11.0	1,560	22,500	6.7	4.3		9.2	9		5.2	9	J	5.5	4.4	
Potassium	2,512	2,691	NE	NE	1,280	532		723	1,120	J	696	1,120	J	2,100	553	
Selenium	1.10	0.26	391	5,680	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ
Silver	2.65	0.40	391	5,680	4.6	1.1		ND	2.2	U	ND	2.2	U	ND	1.1	U
Sodium	1,227	102	NE	NE	354	532	J	ND	1,120	U	ND	1,120	U	310	553	J
Thallium	2.65	0.60	0.782	11.4	ND	1.1	UJ	ND	2.2	U	ND	1.1	UJ	ND	0.55	U
Vanadium	32.8	23.3	391	5,680	16.4	1.1		18.4	2.2		18.7	2.2		14.3	1.1	
Zinc	30.6	32.2	23,500	341,000	43.3	2.1		6.2	4.5		6.3	4.5		9.3	2.2	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	ND	0.011	UJ	ND	0.011	UJ	0.0057	0.011	J	ND	0.011	U
Benzene	NE	NE	15.4	84.7	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Chloroethane	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Chloroform	NE	NE	5.86	32.7	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Chloromethane	NE	NE	275	1,290	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10317			10317			10317			10317		
FIELD ID					CAN103-1317-0005			CAN103-1317-0010			CAN103-1317-0015			CAN103-1317-0020		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			18 - 20		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Methylene chloride	NE	NE	409	4,700	ND	0.0053	UJ	ND	0.0056	UJ	0.0024	0.0056	J	ND	0.0055	UJ
Styrene	NE	NE	7,280	50,000	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Toluene	NE	NE	5,270	57,700	0.002	0.0053	J	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0053	U	ND	0.0056	U	ND	0.0056	U	ND	0.0055	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Acenaphthylene	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Antracene	NE	NE	17,200	183,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Carbazole	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Chrysene	NE	NE	148	2,340	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Dibenzofuran	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.7	U	ND	0.74	U	ND	0.74	U	ND	0.73	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10317			10317			10317			10317		
FIELD ID					CAN103-1317-0005			CAN103-1317-0010			CAN103-1317-0015			CAN103-1317-0020		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			18 - 20		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Fluoranthene	NE	NE	2,290	24,400	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Fluorene	NE	NE	2,290	24,400	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Hexachloroethane	NE	NE	42.8	479	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Isophorone	NE	NE	5,120	137,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Methylphenol	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Naphthalene	NE	NE	43.0	241	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Nitrobenzene	NE	NE	53.5	300	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.7	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Phenol	NE	NE	18,300	205,000	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
Pyrene	NE	NE	1,720	18,300	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.70	U	ND	1.80	U	ND	1.80	U	ND	1.80	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.35	U	ND	0.37	U	ND	0.37	U	ND	0.37	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.35	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.35	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.35	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.35	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.35	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.35	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.35	U	ND	0.037	U	ND	0.037	U	ND	0.037	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
4,4'-DDE	NE	NE	14.3	56.3	0.20	0.035		ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
4,4'-DDT	NE	NE	17.2	78.1	0.24	0.035		ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Aldrin	NE	NE	0.284	1.12	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10317			10317			10317			10317		
FIELD ID					CAN103-1317-0005			CAN103-1317-0010			CAN103-1317-0015			CAN103-1317-0020		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			18 - 20		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
beta-BHC	NE	NE	2.70	10.6	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
delta-BHC	NE	NE	NE	NE	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Dieldrin	NE	NE	0.304	1.20	ND	0.035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endosulfan I	NE	NE	367	4,100	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Endosulfan II	NE	NE	NE	NE	ND	0.035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endrin	NE	NE	18.3	205	ND	0.035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
Endrin ketone	NE	NE	NE	NE	ND	0.035	U	ND	0.0037	U	ND	0.0037	U	ND	0.0037	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Heptachlor	NE	NE	1.08	4.26	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.018	U	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.18	U	ND	0.019	U	ND	0.019	U	ND	0.019	U
Toxaphene	NE	NE	4.42	17.4	ND	1.8	U	ND	0.19	U	ND	0.19	U	ND	0.19	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.043	U	ND	0.045	U	ND	0.045	U	ND	0.044	U
2,4-DB	NE	NE	NE	NE	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dichlorprop	NE	NE	NE	NE	ND	0.021	U	ND	0.022	U	ND	0.022	U	ND	0.022	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.021	U	ND	0.022	U	ND	0.022	U	ND	0.022	U
MCPA	NE	NE	31.0[g]	310[g]	ND	5.3	U	ND	5.6	U	ND	5.6	U	ND	5.5	U
MCPP	NE	NE	61.0[g]	620[g]	ND	5.3	U	ND	5.6	U	ND	5.6	U	ND	5.5	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10317			10317			10317			10317		
FIELD ID					CAN103-1317-0005			CAN103-1317-0010			CAN103-1317-0015			CAN103-1317-0020		
SAMPLE DEPTH (FT BGS)					3 - 5			8 - 10			13 - 15			18 - 20		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	64.4	42.5		ND	44.9	U	ND	44.9	U	ND	44.2	U
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			10318			10318			10318		
FIELD ID					CAN103-1318-0000			CAN103-1318-0005			CAN103-1318-0010			CAN103-1318-0015		
SAMPLE DEPTH (FT BGS)					0 - 0.5			3 - 5			8 - 10			13 - 15		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	7,140	11		5,330	22.6		6,250	11.2		3,690	23	
Antimony	16.0	3.15	31.3	454	ND	6.6	UJ	ND	13.6	U	ND	6.7	UJ	ND	13.8	UJ
Arsenic	4.30	3.60	3.90	17.7	1.9	0.55		0.95	0.57		1.5	0.56		1.1	0.57	
Barium	890	670	15,600	223,000	124	1.1		133	2.3		89.6	1.1		88.8	2.3	
Beryllium	0.73	0.78	156	2,260	0.48	0.22		ND	0.45	U	0.44	0.22		ND	0.46	U
Cadmium	1.30	0.35	70.3	897	ND	0.55	U	ND	1.1	U	ND	0.56	U	ND	1.1	U
Calcium	237,498	44,800	NE	NE	22,300	22.1		147,000	45.2		50,000	22.4		172,000	45.9	
Chromium	13.3	10.5	117,000	1.70E+06	6.8	1.1		3.8	2.3		5.7	1.1		1.6	2.3	J
Cobalt	4.70	6.60	23[g]	300[g]	2.9	1.1		2.4	2.3		3.7	1.1		3	2.3	
Copper	8.30	18.3	3,130	45,400	7.2	2.2		5.1	4.5		6.6	2.2		2.2	4.6	J
Iron	13,148	10,100	54,800	795,000	6,900	11		4,450	22.6		5,730	11.2		2,690	23	
Lead	8.70	12.0	400	800	9.8	1.1		3.8	0.57		5.3	0.56		2.1	0.57	
Magnesium	19,300	1,930	NE	NE	1,700	22.1		2,840	45.2		2,650	22.4		5,230	45.9	
Manganese	333	307	1,860	26,700	142	1.1	J	70.5	2.3		336	1.1	J	25.8	2.3	J
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Nickel	14.9	11.0	1,560	22,500	6.5	4.4		4.3	9	J	7.7	4.5		8	9.2	J
Potassium	2,512	2,691	NE	NE	1,750	552		1,060	1130	J	1,360	560		656	1,150	J
Selenium	1.10	0.26	391	5,680	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ
Silver	2.65	0.40	391	5,680	ND	1.1	U	ND	2.3	U	ND	1.1	U	ND	2.3	U
Sodium	1,227	102	NE	NE	ND	552	U	ND	1130	U	ND	560	U	ND	1,150	U
Thallium	2.65	0.60	0.782	11.4	ND	0.55	U	0.12	1.1	UJ	ND	1.1	UJ	ND	1.1	UJ
Vanadium	32.8	23.3	391	5,680	15.6	1.1		10.2	2.3		10.8	1.1		9.8	2.3	
Zinc	30.6	32.2	23,500	341,000	20.6	2.2		11.9	4.5		14.5	2.2		5.8	4.6	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	ND	0.011	UJ	ND	0.011	U	0.0038	0.011	J	0.022	0.011	
Benzene	NE	NE	15.4	84.7	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Chloroethane	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Chloroform	NE	NE	5.86	32.7	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Chloromethane	NE	NE	275	1,290	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			10318			10318			10318		
FIELD ID					CAN103-1318-0000			CAN103-1318-0005			CAN103-1318-0010			CAN103-1318-0015		
SAMPLE DEPTH (FT BGS)					0 - 0.5			3 - 5			8 - 10			13 - 15		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Methylene chloride	NE	NE	409	4,700	ND	0.0055	UJ	ND	0.0057	U	0.0055	0.0056	J	ND	0.0057	UJ
Styrene	NE	NE	7,280	50,000	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Toluene	NE	NE	5,270	57,700	0.0011	0.0055	J	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0055	U	ND	0.0057	U	ND	0.0056	U	ND	0.0057	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Acenaphthylene	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Antracene	NE	NE	17,200	183,000	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.8	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Carbazole	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
4-Chloroaniline	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Chrysene	NE	NE	148	2,340	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Dibenzofuran	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.73	U	ND	0.75	U	ND	0.74	U	ND	0.76	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			10318			10318			10318		
FIELD ID					CAN103-1318-0000			CAN103-1318-0005			CAN103-1318-0010			CAN103-1318-0015		
SAMPLE DEPTH (FT BGS)					0 - 0.5			3 - 5			8 - 10			13 - 15		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.8	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.8	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Fluoranthene	NE	NE	2,290	24,400	0.044	0.36	J	ND	0.37	U	ND	0.37	U	ND	0.38	U
Fluorene	NE	NE	2,290	24,400	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Hexachloroethane	NE	NE	42.8	479	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Isophorone	NE	NE	5,120	137,000	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2-Methylphenol	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
4-Methylphenol	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Naphthalene	NE	NE	43.0	241	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.8	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.8	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.8	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Nitrobenzene	NE	NE	53.5	300	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.8	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.8	U	ND	1.8	U	ND	1.8	U	ND	1.8	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Phenol	NE	NE	18,300	205,000	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
Pyrene	NE	NE	1,720	18,300	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.80	U	ND	1.80	U	ND	1.80	U	ND	1.80	U
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.36	U	ND	0.37	U	ND	0.37	U	ND	0.38	U
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.036	U	ND	0.037	U	ND	0.037	U	ND	0.038	U
Aroclor 1221	NE	NE	1.49	6.24	ND	0.036	U	ND	0.037	U	ND	0.037	U	ND	0.038	U
Aroclor 1232	NE	NE	1.49	6.24	ND	0.036	U	ND	0.037	U	ND	0.037	U	ND	0.038	U
Aroclor 1242	NE	NE	2.22	8.26	ND	0.036	U	ND	0.037	U	ND	0.037	U	ND	0.038	U
Aroclor 1248	NE	NE	2.22	8.26	ND	0.036	U	ND	0.037	U	ND	0.037	U	ND	0.038	U
Aroclor 1254	NE	NE	1.12	8.26	ND	0.036	U	ND	0.037	U	ND	0.037	U	ND	0.038	U
Aroclor 1260	NE	NE	2.22	8.26	ND	0.036	U	ND	0.037	U	ND	0.037	U	ND	0.038	U
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0036	U	ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
4,4'-DDE	NE	NE	14.3	56.3	0.0024	0.0036	J	ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
4,4'-DDT	NE	NE	17.2	78.1	0.0037	0.0036		ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
Aldrin	NE	NE	0.284	1.12	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
alpha-BHC	NE	NE	0.772	3.04	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			10318			10318			10318		
FIELD ID					CAN103-1318-0000			CAN103-1318-0005			CAN103-1318-0010			CAN103-1318-0015		
SAMPLE DEPTH (FT BGS)					0 - 0.5			3 - 5			8 - 10			13 - 15		
DATE COLLECTED					December 12, 1994			December 12, 1994			December 12, 1994			December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
beta-BHC	NE	NE	2.70	10.6	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
delta-BHC	NE	NE	NE	NE	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Dieldrin	NE	NE	0.304	1.20	ND	0.0036	U	ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
Endosulfan I	NE	NE	367	4,100	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Endosulfan II	NE	NE	NE	NE	ND	0.0036	U	ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0036	U	ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
Endrin	NE	NE	18.3	205	ND	0.0036	U	ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
Endrin aldehyde	NE	NE	NE	NE	ND	0.0036	U	ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
Endrin ketone	NE	NE	NE	NE	ND	0.0036	U	ND	0.0037	U	ND	0.0037	U	ND	0.0038	U
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
gamma-Chlordane	NE	NE	NE	NE	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Heptachlor	NE	NE	1.08	4.26	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0019	U	ND	0.0019	U	ND	0.0019	U	ND	0.002	U
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.019	U	ND	0.019	U	ND	0.019	U	ND	0.02	U
Toxaphene	NE	NE	4.42	17.4	ND	0.19	U	ND	0.19	U	ND	0.19	U	ND	0.2	U
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.044	U	ND	0.045	U	ND	0.045	U	ND	0.046	U
2,4-DB	NE	NE	NE	NE	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.11	U	ND	0.11	U	ND	0.11	U	ND	0.11	U
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
Dichlorprop	NE	NE	NE	NE	ND	0.022	U	ND	0.023	U	ND	0.022	U	ND	0.023	U
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.022	U	ND	0.023	U	ND	0.022	U	ND	0.023	U
MCPA	NE	NE	31.0[g]	310[g]	ND	5.5	U	ND	5.7	U	ND	5.6	U	ND	5.7	U
MCPP	NE	NE	61.0[g]	620[g]	ND	5.5	U	ND	5.7	U	ND	5.6	U	ND	5.7	U
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.011	U	ND	0.011	U	ND	0.011	U	ND	0.011	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318 CAN103-1318-0000 0 - 0.5 December 12, 1994			10318 CAN103-1318-0005 3 - 5 December 12, 1994			10318 CAN103-1318-0010 8 - 10 December 12, 1994			10318 CAN103-1318-0015 13 - 15 December 12, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	132	44.2		ND	45.2	U	ND	44.8	U	ND	45.9	U
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			SD01			SD02			SD03		
FIELD ID					CAN103-1318-0020			C103-SD01-0.5			C103-SD02-0.5			C103-SD03-0.5		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					December 12, 1994			October 18, 2010			October 18, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	2,550	22.2		NS	--	--	NS	--	--	NS	--	--
Antimony	16.0	3.15	31.3	454	ND	13.3	UJ	NS	--	--	NS	--	--	NS	--	--
Arsenic	4.30	3.60	3.90	17.7	1.1	0.55		1.6	0.66		1.6	0.71		1.6	1	
Barium	890	670	15,600	223,000	66.5	2.2		NS	--	--	NS	--	--	NS	--	--
Beryllium	0.73	0.78	156	2,260	ND	0.44	U	NS	--	--	NS	--	--	NS	--	--
Cadmium	1.30	0.35	70.3	897	ND	1.1	U	NS	--	--	NS	--	--	NS	--	--
Calcium	237,498	44,800	NE	NE	127,000	44.3		NS	--	--	NS	--	--	NS	--	--
Chromium	13.3	10.5	117,000	1.70E+06	1.8	2.2	J	NS	--	--	NS	--	--	NS	--	--
Cobalt	4.70	6.60	23[g]	300[g]	2	2.2	J	NS	--	--	NS	--	--	NS	--	--
Copper	8.30	18.3	3,130	45,400	1.9	4.4	J	NS	--	--	NS	--	--	NS	--	--
Iron	13,148	10,100	54,800	795,000	2,220	22.2		NS	--	--	NS	--	--	NS	--	--
Lead	8.70	12.0	400	800	1.7	1.1		NS	--	--	NS	--	--	NS	--	--
Magnesium	19,300	1,930	NE	NE	2,310	44.3		NS	--	--	NS	--	--	NS	--	--
Manganese	333	307	1,860	26,700	28.2	2.2	J	NS	--	--	NS	--	--	NS	--	--
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	ND	0.11	U	NS	--	--	NS	--	--	NS	--	--
Nickel	14.9	11.0	1,560	22,500	5	8.9	J	NS	--	--	NS	--	--	NS	--	--
Potassium	2,512	2,691	NE	NE	678	1,110	J	NS	--	--	NS	--	--	NS	--	--
Selenium	1.10	0.26	391	5,680	ND	1.1	UJ	0.33	0.66	J	ND	0.71	U	3.7	1	
Silver	2.65	0.40	391	5,680	ND	2.2	U	0.76	0.13		1.1	0.14	J	10.2	0.21	
Sodium	1,227	102	NE	NE	ND	1,110	U	NS	--	--	NS	--	--	NS	--	--
Thallium	2.65	0.60	0.782	11.4	ND	1.1	UJ	NS	--	--	NS	--	--	NS	--	--
Vanadium	32.8	23.3	391	5,680	5.2	2.2		6.8	0.66		7.1	0.71	J	29.7	1	
Zinc	30.6	32.2	23,500	341,000	4.8	4.4		NS	--	--	NS	--	--	NS	--	--
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	0.018	0.011		NS	--	--	NS	--	--	NS	--	--
Benzene	NE	NE	15.4	84.7	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Bromoform	NE	NE	62.0[g]	220[g]	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Chlorobenzene	NE	NE	376	2,120	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Chloroethane	NE	NE	NE	NE	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Chloromethane	NE	NE	275	1,290	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethene (total)	NE	NE	NE	NE	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Ethylbenzene	NE	NE	68.4	378	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
2-Hexanone	NE	NE	210[g]	1400[g]	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			SD01			SD02			SD03		
FIELD ID					CAN103-1318-0020			C103-SD01-0.5			C103-SD02-0.5			C103-SD03-0.5		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					December 12, 1994			October 18, 2010			October 18, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
Methylene chloride	NE	NE	409	4,700	ND	0.0055	UJ	NS	--	--	NS	--	--	NS	--	--
Styrene	NE	NE	7,280	50,000	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	0.0019	0.0055	J	NS	--	--	NS	--	--	NS	--	--
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Trichloroethene	NE	NE	8.77	41.3	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
Vinyl acetate	NE	NE	2,560	12,300	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
Vinyl chloride	NE	NE	0.728	26.1	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
Xylenes (total)	NE	NE	814	3,980	ND	0.0055	U	NS	--	--	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Acenaphthylene	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Antracene	NE	NE	17,200	183,000	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	ND	1.8	U	NS	--	--	NS	--	--	NS	--	--
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Carbazole	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
4-Chloroaniline	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2-Chlorophenol	NE	NE	391	5,680	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Chrysene	NE	NE	148	2,340	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Di-n-butyl phthalate	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Dibenzofuran	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
1,4-Dichlorobenzene	NE	NE	31.70	177	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.73	U	NS	--	--	NS	--	--	NS	--	--
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			SD01			SD02			SD03		
FIELD ID					CAN103-1318-0020			C103-SD01-0.5			C103-SD02-0.5			C103-SD03-0.5		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					December 12, 1994			October 18, 2010			October 18, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Dimethyl phthalate	NE	NE	611,000	6.84E+06	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	ND	1.8	U	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.8	U	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Fluoranthene	NE	NE	2,290	24,400	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Fluorene	NE	NE	2,290	24,400	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Hexachlorobenzene	NE	NE	3.04	12.0	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Hexachloroethane	NE	NE	42.8	479	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Isophorone	NE	NE	5,120	137,000	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2-Methylnaphthalene	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2-Methylphenol	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
4-Methylphenol	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Naphthalene	NE	NE	43.0	241	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2-Nitroaniline	NE	NE	610[g]	6,000[g]	ND	1.8	U	NS	--	--	NS	--	--	NS	--	--
3-Nitroaniline	NE	NE	NE	NE	ND	1.8	U	NS	--	--	NS	--	--	NS	--	--
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	ND	1.8	U	NS	--	--	NS	--	--	NS	--	--
Nitrobenzene	NE	NE	53.5	300	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2-Nitrophenol	NE	NE	NE	NE	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
4-Nitrophenol	NE	NE	NE	NE	ND	1.8	U	NS	--	--	NS	--	--	NS	--	--
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Pentachlorophenol	NE	NE	8.94	30.00	ND	1.8	U	NS	--	--	NS	--	--	NS	--	--
Phenanthrene	NE	NE	1,830	20,500	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Phenol	NE	NE	18,300	205,000	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
Pyrene	NE	NE	1,720	18,300	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
1,2,4-Trichlorobenzene	NE	NE	73.0	367	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	ND	1.80	U	NS	--	--	NS	--	--	NS	--	--
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	ND	0.37	U	NS	--	--	NS	--	--	NS	--	--
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	ND	0.037	U	NS	--	--	NS	--	--	NS	--	--
Aroclor 1221	NE	NE	1.49	6.24	ND	0.037	U	NS	--	--	NS	--	--	NS	--	--
Aroclor 1232	NE	NE	1.49	6.24	ND	0.037	U	NS	--	--	NS	--	--	NS	--	--
Aroclor 1242	NE	NE	2.22	8.26	ND	0.037	U	NS	--	--	NS	--	--	NS	--	--
Aroclor 1248	NE	NE	2.22	8.26	ND	0.037	U	NS	--	--	NS	--	--	NS	--	--
Aroclor 1254	NE	NE	1.12	8.26	ND	0.037	U	NS	--	--	NS	--	--	NS	--	--
Aroclor 1260	NE	NE	2.22	8.26	ND	0.037	U	NS	--	--	NS	--	--	NS	--	--
4,4'-DDD	NE	NE	20.3	79.8	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
4,4'-DDE	NE	NE	14.3	56.3	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
4,4'-DDT	NE	NE	17.2	78.1	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
Aldrin	NE	NE	0.284	1.12	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
alpha-BHC	NE	NE	0.772	3.04	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			SD01			SD02			SD03		
FIELD ID					CAN103-1318-0020			C103-SD01-0.5			C103-SD02-0.5			C103-SD03-0.5		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					December 12, 1994			October 18, 2010			October 18, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
beta-BHC	NE	NE	2.70	10.6	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
delta-BHC	NE	NE	NE	NE	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
Dieldrin	NE	NE	0.304	1.20	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
Endosulfan I	NE	NE	367	4,100	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
Endosulfan II	NE	NE	NE	NE	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
Endosulfan sulfate	NE	NE	NE	NE	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
Endrin	NE	NE	18.3	205	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
Endrin aldehyde	NE	NE	NE	NE	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
Endrin ketone	NE	NE	NE	NE	ND	0.0037	U	NS	--	--	NS	--	--	NS	--	--
gamma-BHC (Lindane)	NE	NE	5.17	22.9	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
gamma-Chlordane	NE	NE	NE	NE	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
Heptachlor	NE	NE	1.08	4.26	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
Heptachlor epoxide	NE	NE	NE	NE	ND	0.0019	U	NS	--	--	NS	--	--	NS	--	--
Methoxychlor	NE	NE	310.0[g]	3,100[g]	ND	0.019	U	NS	--	--	NS	--	--	NS	--	--
Toxaphene	NE	NE	4.42	17.4	ND	0.19	U	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	ND	0.044	U	NS	--	--	NS	--	--	NS	--	--
2,4-DB	NE	NE	NE	NE	ND	0.11	U	NS	--	--	NS	--	--	NS	--	--
Dalapon	NE	NE	1800[g]	18000[g]	ND	0.11	U	NS	--	--	NS	--	--	NS	--	--
Dicamba	NE	NE	1800[g]	18000[g]	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
Dichlorprop	NE	NE	NE	NE	ND	0.022	U	NS	--	--	NS	--	--	NS	--	--
Dinoseb	NE	NE	61.0[g]	620[g]	ND	0.022	U	NS	--	--	NS	--	--	NS	--	--
MCPA	NE	NE	31.0[g]	310[g]	ND	5.5	U	NS	--	--	NS	--	--	NS	--	--
MCPP	NE	NE	61.0[g]	620[g]	ND	5.5	U	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
2,4,5-TP (Silvex)	NE	NE	NE	NE	ND	0.011	U	NS	--	--	NS	--	--	NS	--	--
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	2.3E-08	2.30E-08		1.50E-07	1.50E-07		2.30E-07	2.30E-07	J
PCB 114	NE	NE	1.14	4.24	NS	--	--	ND	3.30E-09	U	1.40E-08	1.40E-08		2.00E-08	2.00E-08	J
PCB 118	NE	NE	1.14	4.24	NS	--	--	ND	0.00000007	U	3.80E-07	3.80E-07	J	5.40E-07	5.40E-07	J
PCB 123	NE	NE	1.14	4.24	NS	--	--	ND	6.20E-10	U	ND	5.90E-10	U	ND	4.50E-10	U
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	ND	7.50E-10	U	3.40E-09	3.40E-09	J	7.50E-09	7.50E-09	J
PCB 156	NE	NE	1.14	4.24	NS	--	--	8.60E-09	8.60E-09	J	5.80E-08	5.80E-08		6.40E-08	6.40E-08	J
PCB 157	NE	NE	1.14	4.24	NS	--	--	2E-09	2E-09	J	1.10E-08	1.10E-08		ND	3.70E-10	U
PCB 167	NE	NE	1.14	4.24	NS	--	--	ND	3.20E-10	U	1.30E-08	1.30E-08		ND	3.20E-10	U
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	ND	5.00E-10	U	ND	1.00E-09	U	ND	4.90E-10	U
PCB 170	NE	NE	0.34	1.27	NS	--	--	3.1E-08	3.1E-08	J	2.30E-07	2.30E-07	J	2.30E-07	2.30E-07	J
PCB 180	NE	NE	3.41	12.7	NS	--	--	0.00000058	5.8E-08	J	4.40E-07	4.40E-07	J	4.90E-07	4.90E-07	J
PCB 189	NE	NE	1.14	4.24	NS	--	--	9.70E-10	1E-09	J	ND	5.50E-09	U	ND	5.20E-09	U
PCB 77	NE	NE	0.34	1.27	NS	--	--	6.70E-09	6.70E-09	J	2.10E-08	2.10E-08		6.80E-08	6.80E-08	J
PCB 81	NE	NE	0.114	0.42	NS	--	--	ND	4.20E-10	U	7.30E-10	7.30E-10	J	3.00E-09	3.00E-09	J

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	10318			SD01			SD02			SD03		
FIELD ID					CAN103-1318-0020			C103-SD01-0.5			C103-SD02-0.5			C103-SD03-0.5		
SAMPLE DEPTH (FT BGS)					18 - 20			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					December 12, 1994			October 18, 2010			October 18, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	2.80E-06	2.80E-06	J	2.10E-05	2.10E-05	J	8.10E-06	8.10E-06	J
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	ND	0.00000052	U	3.10E-06	3.10E-06	J	ND	1.90E-06	U
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	ND	0.00000017	U	ND	1.00E-06	UJ	ND	0.00000054	U
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	ND	0.00000036	U	ND	0.00000084	UJ	ND	0.00000075	U
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	ND	1.00E-07	U	ND	5.00E-07	UJ	ND	0.00000029	U
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	ND	0.00000028	U	1.00E-06	1.00E-06	J	ND	0.00000068	U
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	ND	0.00000029	U	ND	1.50E-06	UJ	ND	0.00000026	U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	ND	0.00000036	U	ND	6.00E-07	UJ	ND	0.00000073	U
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	ND	0.00000011	U	ND	0.00000057	UJ	ND	0.00000044	U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	ND	0.00000016	U	ND	0.00000051	UJ	ND	0.00000033	U
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	ND	0.00000039	U	ND	5.00E-07	UJ	ND	0.00000044	U
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	ND	1.60E-06	U	ND	7.80E-06	UJ	ND	0.00000031	U
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	ND	2.00E-07	U	ND	0.00000036	UJ	ND	4.00E-07	U
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	7.90E-07	0.00000079	J	7.60E-06	7.60E-06	J	ND	0.00000019	U
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	1.30E-06	1.30E-06	J	3.60E-06	3.60E-06	J	2.50E-06	2.50E-06	J
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	2.00E-05	2.00E-05	J	2.50E-04	2.50E-04	J	5.90E-05	5.90E-05	
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	ND	0.00000012	U	8.00E-06	8.00E-06	J	ND	0.00000039	U
TEQ	NE	NE	NE	NE	NS	--	--	9.50E-07	NA		8.40E-06	NA		3.50E-07	NA	
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	ND	44.3	U	NS	--	--	NS	--	--	NS	--	--
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	ND	1.3	U	19	1.4	J	36	2.1	J
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	ND	13	U	30	14		46	21	J
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	ND	1.3	U	ND	1.4	U	ND	2.1	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD04			SD05			SD06			SD07		
FIELD ID					C103-SD04-0.5			C103-SD05-0.5			C103-SD06-0.5			C103-SD07-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Antimony	16.0	3.15	31.3	454	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Arsenic	4.30	3.60	3.90	17.7	**3.9**	1.3		3.6	1.3		0.21	0.76	J	NS	--	--
Barium	890	670	15,600	223,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Beryllium	0.73	0.78	156	2,260	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Cadmium	1.30	0.35	70.3	897	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Calcium	237,498	44,800	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chromium	13.3	10.5	117,000	1.70E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Cobalt	4.70	6.60	23[g]	300[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Copper	8.30	18.3	3,130	45,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Iron	13,148	10,100	54,800	795,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Lead	8.70	12.0	400	800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Magnesium	19,300	1,930	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Manganese	333	307	1,860	26,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Nickel	14.9	11.0	1,560	22,500	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Potassium	2,512	2,691	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Selenium	1.10	0.26	391	5,680	7	1.3		4.9	1.3		0.7	0.76	J	2.7	1.3	
Silver	2.65	0.40	391	5,680	23.7	0.26	J	16.5	0.186		1.8	0.15		NS	--	--
Sodium	1,227	102	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Thallium	2.65	0.60	0.782	11.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vanadium	32.8	23.3	391	5,680	52.1	1.3		52.2	0.28		9.5	0.76		NS	--	--
Zinc	30.6	32.2	23,500	341,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzene	NE	NE	15.4	84.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromodichloromethane	NE	NE	5.41	30.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromoform	NE	NE	62.0[g]	220[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Butanone (MEK)	NE	NE	37,100	375,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbon disulfide	NE	NE	1,530	8,330	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbon tetrachloride	NE	NE	10.8	59.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chlorobenzene	NE	NE	376	2,120	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloroethane	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloromethane	NE	NE	275	1,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethane	NE	NE	64.5	359	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethane	NE	NE	7.89	43.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethene	NE	NE	449	2,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethene (total)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloropropane	NE	NE	15.2	84.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
cis-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
trans-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Ethylbenzene	NE	NE	68.4	378	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Hexanone	NE	NE	210[g]	1400[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD04			SD05			SD06			SD07		
FIELD ID					C103-SD04-0.5			C103-SD05-0.5			C103-SD06-0.5			C103-SD07-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Methylene chloride	NE	NE	409	4,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Styrene	NE	NE	7,280	50,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Tetrachloroethene	NE	NE	7.02	36.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,1-Trichloroethane	NE	NE	15,600	78,900	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,2-Trichloroethane	NE	NE	2.81	13.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Trichloroethene	NE	NE	8.77	41.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vinyl acetate	NE	NE	2,560	12,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vinyl chloride	NE	NE	0.728	26.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Xylenes (total)	NE	NE	814	3,980	NS	--	--	NS	--	--	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Acenaphthylene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Antracene	NE	NE	17,200	183,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(a)anthracene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(a)pyrene	NE	NE	0.148	2.34	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(b)fluoranthene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(g,h,i)perylene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(k)fluoranthene	NE	NE	14.8	234	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Bromophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbazole	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chloro-3-methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chloroaniline	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Chloronaphthalene	NE	NE	6,260	90,800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Chlorophenol	NE	NE	391	5,680	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chrysene	NE	NE	148	2,340	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Di-n-butyl phthalate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Di-n-octyl phthalate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibenzofuran	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichlorobenzene	NE	NE	2,310	14,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,3-Dichlorobenzene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,4-Dichlorobenzene	NE	NE	31.70	177	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dichlorophenol	NE	NE	183	2,050	NS	--	--	NS	--	--	NS	--	--	NS	--	--
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Diethyl phthalate	NE	NE	48,900	547,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD04			SD05			SD06			SD07		
FIELD ID					C103-SD04-0.5			C103-SD05-0.5			C103-SD06-0.5			C103-SD07-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dimethyl phthalate	NE	NE	611,000	6.84E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrophenol	NE	NE	122	1,370	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrotoluene	NE	NE	15.7	61.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,6-Dinitrotoluene	NE	NE	61.1	684	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Fluoranthene	NE	NE	2,290	24,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Fluorene	NE	NE	2,290	24,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorobenzene	NE	NE	3.04	12.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorobutadiene	NE	NE	61.1	246	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorocyclopentadiene	NE	NE	367	4,100	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachloroethane	NE	NE	42.8	479	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Isophorone	NE	NE	5,120	137,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Methylnaphthalene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Naphthalene	NE	NE	43.0	241	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Nitroaniline	NE	NE	610[g]	6,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
3-Nitroaniline	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Nitrobenzene	NE	NE	53.5	300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Nitrophenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Nitrophenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
N-Nitrosodiphenylamine	NE	NE	993	3,910	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Pentachlorophenol	NE	NE	8.94	30.00	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Phenanthrene	NE	NE	1,830	20,500	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Phenol	NE	NE	18,300	205,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Pyrene	NE	NE	1,720	18,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,4-Trichlorobenzene	NE	NE	73.0	367	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1221	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1232	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1242	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1248	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1254	NE	NE	1.12	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1260	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDD	NE	NE	20.3	79.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDE	NE	NE	14.3	56.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDT	NE	NE	17.2	78.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aldrin	NE	NE	0.284	1.12	NS	--	--	NS	--	--	NS	--	--	NS	--	--
alpha-BHC	NE	NE	0.772	3.04	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD04			SD05			SD06			SD07		
FIELD ID					C103-SD04-0.5			C103-SD05-0.5			C103-SD06-0.5			C103-SD07-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	NS	--	--	NS	--	--	NS	--	--	NS	--	--
beta-BHC	NE	NE	2.70	10.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
delta-BHC	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dieldrin	NE	NE	0.304	1.20	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan I	NE	NE	367	4,100	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan II	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan sulfate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin	NE	NE	18.3	205	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin aldehyde	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin ketone	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
gamma-BHC (Lindane)	NE	NE	5.17	22.9	NS	--	--	NS	--	--	NS	--	--	NS	--	--
gamma-Chlordane	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Heptachlor	NE	NE	1.08	4.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Heptachlor epoxide	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Methoxychlor	NE	NE	310.0[g]	3,100[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Toxaphene	NE	NE	4.42	17.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-DB	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dalapon	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dicamba	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dichlorprop	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dinoseb	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
MCPA	NE	NE	31.0[g]	310[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
MCPP	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,5-TP (Silvex)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	1.30E-06	1.30E-06		2.30E-07	2.30E-07	J	2.30E-07	2.30E-07	J	NS	--	--
PCB 114	NE	NE	1.14	4.24	1.20E-07	1.20E-07		2.10E-08	2.10E-08	J	2.40E-08	2.40E-08	J	NS	--	--
PCB 118	NE	NE	1.14	4.24	3.00E-06	3.00E-06		5.80E-07	5.80E-07	J	5.60E-07	5.60E-07	J	NS	--	--
PCB 123	NE	NE	1.14	4.24	ND	2.60E-09	U	ND	5.90E-10	U	ND	1.10E-09	U	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	3.60E-08	3.60E-08		ND	7.50E-09	U	ND	4.00E-09	U	NS	--	--
PCB 156	NE	NE	1.14	4.24	3.40E-07	3.40E-07		7.30E-08	7.30E-08	J	6.70E-08	6.70E-08	J	NS	--	--
PCB 157	NE	NE	1.14	4.24	7.10E-08	7.10E-08		1.50E-08	1.50E-08	J	ND	6.60E-10	U	NS	--	--
PCB 167	NE	NE	1.14	4.24	9.30E-08	9.30E-08		2.00E-08	2.00E-08	J	ND	5.90E-10	U	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	ND	1.40E-09	U	ND	3.70E-10	U	ND	9.00E-10	U	NS	--	--
PCB 170	NE	NE	0.34	1.27	ND	1.40E-06	U	2.70E-07	2.70E-07	J	2.20E-07	2.20E-07	J	NS	--	--
PCB 180	NE	NE	3.41	12.7	ND	1.00E-07	UJ	5.70E-07	5.70E-07	J	4.70E-07	4.70E-07	J	NS	--	--
PCB 189	NE	NE	1.14	4.24	ND	1.80E-06	UJ	ND	6.80E-09	U	6.50E-09	6.50E-09	J	NS	--	--
PCB 77	NE	NE	0.34	1.27	2.90E-07	2.90E-07		6.60E-08	6.60E-08	J	5.30E-08	5.30E-08	J	NS	--	--
PCB 81	NE	NE	0.114	0.42	3.40E-08	3.40E-08		7.60E-09	7.60E-09	J	ND	1.80E-09	U	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD04			SD05			SD06			SD07		
FIELD ID					C103-SD04-0.5			C103-SD05-0.5			C103-SD06-0.5			C103-SD07-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	3.50E-05	3.50E-05		2.50E-05	2.50E-05		7.00E-06	7.00E-06	J	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	7.40E-06	7.40E-06	J	ND	4.20E-06	U	ND	2.10E-06	U	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	2.80E-06	2.80E-06	J	2.90E-06	2.90E-06	J	ND	9.00E-07	U	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	2.40E-06	2.40E-06	J	ND	2.90E-06	U	ND	3.60E-07	U	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	2.30E-06	2.30E-06	J	2.50E-06	2.50E-06	J	ND	4.20E-07	U	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	ND	2.50E-06	U	ND	3.00E-06	U	ND	2.50E-07	U	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	ND	2.30E-06	U	ND	2.50E-06	U	ND	5.00E-07	U	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	ND	2.40E-06	U	ND	1.90E-06	U	ND	4.90E-07	U	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	ND	1.60E-06	U	ND	2.40E-06	U	ND	5.90E-07	U	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	ND	0.00000065	U	ND	4.10E-07	U	ND	1.90E-07	U	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	ND	0.00000044	U	ND	3.60E-07	U	ND	2.20E-07	U	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	2.20E-06	2.20E-06	J	ND	8.00E-06	U	ND	2.40E-06	U	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	ND	3.00E-07	U	1.70E-06	1.70E-06	J	ND	1.80E-07	U	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	1.80E-06	1.80E-06	J	1.40E-06	1.40E-06	J	5.50E-07	5.50E-07	J	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	ND	1.60E-06	U	ND	2.70E-06	U	ND	5.30E-07		NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	2.60E-04	2.60E-04		1.60E-04	1.60E-04		6.70E-05	6.70E-05		NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	1.10E-05	1.10E-05	J	ND	5.40E-06	U	3.00E-06	3.00E-06	J	NS	--	--
TEQ	NE	NE	NE	NE	3.00E-06	NA		2.50E-06	NA		6.40E-07	NA		NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-DRO	NE	NE	1,000	1,000	63	2.6		ND	2.6	U	ND	1.5	U	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	68	26		ND	26	U	40	15		NS	--	--
TPH-GRO	NE	NE	1,000	1,000	19	2.6	J	ND	2.6	U	ND	1.5	U	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD08 C103-SD08-0.3 0 - 0.3 October 19, 2010			SD09 C103-SD09-0.3 0 - 0.3 October 19, 2010			SD10 C103-SD10-0.5 0 - 0.5 October 19, 2010			SD11 C103-SD11-0.5 0 - 0.5 October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Antimony	16.0	3.15	31.3	454	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Arsenic	4.30	3.60	3.90	17.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Barium	890	670	15,600	223,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Beryllium	0.73	0.78	156	2,260	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Cadmium	1.30	0.35	70.3	897	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Calcium	237,498	44,800	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chromium	13.3	10.5	117,000	1.70E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Cobalt	4.70	6.60	23[g]	300[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Copper	8.30	18.3	3,130	45,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Iron	13,148	10,100	54,800	795,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Lead	8.70	12.0	400	800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Magnesium	19,300	1,930	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Manganese	333	307	1,860	26,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Nickel	14.9	11.0	1,560	22,500	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Potassium	2,512	2,691	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Selenium	1.10	0.26	391	5,680	ND	0.62	U	ND	0.75	U	ND	0.63	U	4	0.99	
Silver	2.65	0.40	391	5,680	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Sodium	1,227	102	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Thallium	2.65	0.60	0.782	11.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vanadium	32.8	23.3	391	5,680	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Zinc	30.6	32.2	23,500	341,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzene	NE	NE	15.4	84.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromodichloromethane	NE	NE	5.41	30.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromoform	NE	NE	62.0[g]	220[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Butanone (MEK)	NE	NE	37,100	375,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbon disulfide	NE	NE	1,530	8,330	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbon tetrachloride	NE	NE	10.8	59.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chlorobenzene	NE	NE	376	2,120	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloroethane	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloromethane	NE	NE	275	1,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethane	NE	NE	64.5	359	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethane	NE	NE	7.89	43.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethene	NE	NE	449	2,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethene (total)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloropropane	NE	NE	15.2	84.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
cis-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
trans-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Ethylbenzene	NE	NE	68.4	378	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Hexanone	NE	NE	210[g]	1400[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD08			SD09			SD10			SD11		
FIELD ID					C103-SD08-0.3			C103-SD09-0.3			C103-SD10-0.5			C103-SD11-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.3			0 - 0.3			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Methylene chloride	NE	NE	409	4,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Styrene	NE	NE	7,280	50,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Tetrachloroethene	NE	NE	7.02	36.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,1-Trichloroethane	NE	NE	15,600	78,900	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,2-Trichloroethane	NE	NE	2.81	13.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Trichloroethene	NE	NE	8.77	41.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vinyl acetate	NE	NE	2,560	12,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vinyl chloride	NE	NE	0.728	26.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Xylenes (total)	NE	NE	814	3,980	NS	--	--	NS	--	--	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Acenaphthylene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Antracene	NE	NE	17,200	183,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(a)anthracene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(a)pyrene	NE	NE	0.148	2.34	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(b)fluoranthene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(g,h,i)perylene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(k)fluoranthene	NE	NE	14.8	234	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Bromophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbazole	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chloro-3-methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chloroaniline	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Chloronaphthalene	NE	NE	6,260	90,800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Chlorophenol	NE	NE	391	5,680	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chrysene	NE	NE	148	2,340	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Di-n-butyl phthalate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Di-n-octyl phthalate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibenzofuran	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichlorobenzene	NE	NE	2,310	14,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,3-Dichlorobenzene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,4-Dichlorobenzene	NE	NE	31.70	177	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dichlorophenol	NE	NE	183	2,050	NS	--	--	NS	--	--	NS	--	--	NS	--	--
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Diethyl phthalate	NE	NE	48,900	547,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD08			SD09			SD10			SD11		
FIELD ID					C103-SD08-0.3			C103-SD09-0.3			C103-SD10-0.5			C103-SD11-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.3			0 - 0.3			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dimethyl phthalate	NE	NE	611,000	6.84E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrophenol	NE	NE	122	1,370	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrotoluene	NE	NE	15.7	61.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,6-Dinitrotoluene	NE	NE	61.1	684	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Fluoranthene	NE	NE	2,290	24,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Fluorene	NE	NE	2,290	24,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorobenzene	NE	NE	3.04	12.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorobutadiene	NE	NE	61.1	246	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorocyclopentadiene	NE	NE	367	4,100	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachloroethane	NE	NE	42.8	479	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Isophorone	NE	NE	5,120	137,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Methylnaphthalene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Naphthalene	NE	NE	43.0	241	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Nitroaniline	NE	NE	610[g]	6,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
3-Nitroaniline	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Nitrobenzene	NE	NE	53.5	300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Nitrophenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Nitrophenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
N-Nitrosodiphenylamine	NE	NE	993	3,910	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Pentachlorophenol	NE	NE	8.94	30.00	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Phenanthrene	NE	NE	1,830	20,500	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Phenol	NE	NE	18,300	205,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Pyrene	NE	NE	1,720	18,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,4-Trichlorobenzene	NE	NE	73.0	367	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1221	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1232	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1242	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1248	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1254	NE	NE	1.12	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1260	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDD	NE	NE	20.3	79.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDE	NE	NE	14.3	56.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDT	NE	NE	17.2	78.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aldrin	NE	NE	0.284	1.12	NS	--	--	NS	--	--	NS	--	--	NS	--	--
alpha-BHC	NE	NE	0.772	3.04	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD08			SD09			SD10			SD11		
FIELD ID					C103-SD08-0.3			C103-SD09-0.3			C103-SD10-0.5			C103-SD11-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.3			0 - 0.3			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	NS	--	--	NS	--	--	NS	--	--	NS	--	--
beta-BHC	NE	NE	2.70	10.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
delta-BHC	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dieldrin	NE	NE	0.304	1.20	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan I	NE	NE	367	4,100	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan II	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan sulfate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin	NE	NE	18.3	205	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin aldehyde	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin ketone	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
gamma-BHC (Lindane)	NE	NE	5.17	22.9	NS	--	--	NS	--	--	NS	--	--	NS	--	--
gamma-Chlordane	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Heptachlor	NE	NE	1.08	4.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Heptachlor epoxide	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Methoxychlor	NE	NE	310.0[g]	3,100[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Toxaphene	NE	NE	4.42	17.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-DB	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dalapon	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dicamba	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dichlorprop	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dinoseb	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
MCPA	NE	NE	31.0[g]	310[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
MCPP	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,5-TP (Silvex)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD08 C103-SD08-0.3 0 - 0.3 October 19, 2010			SD09 C103-SD09-0.3 0 - 0.3 October 19, 2010			SD10 C103-SD10-0.5 0 - 0.5 October 19, 2010			SD11 C103-SD11-0.5 0 - 0.5 October 19, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD12			SD13			SD14			SD15		
FIELD ID					C103-SD12-0.5			C103-SD13-0.5			C103-SD14-0.5			C103-SD15-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																
Aluminum	12,214	8,950	78,000	1.13E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Antimony	16.0	3.15	31.3	454	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Arsenic	4.30	3.60	3.90	17.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Barium	890	670	15,600	223,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Beryllium	0.73	0.78	156	2,260	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Cadmium	1.30	0.35	70.3	897	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Calcium	237,498	44,800	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chromium	13.3	10.5	117,000	1.70E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Cobalt	4.70	6.60	23[g]	300[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Copper	8.30	18.3	3,130	45,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Iron	13,148	10,100	54,800	795,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Lead	8.70	12.0	400	800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Magnesium	19,300	1,930	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Manganese	333	307	1,860	26,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Nickel	14.9	11.0	1,560	22,500	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Potassium	2,512	2,691	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Selenium	1.10	0.26	391	5,680	5.4	1.6	J	1.7	1.1		1.2	0.97		5.1	1.3	
Silver	2.65	0.40	391	5,680	NS	--	--	2.9	0.22		1.4	0.19		16.6	0.26	
Sodium	1,227	102	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Thallium	2.65	0.60	0.782	11.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vanadium	32.8	23.3	391	5,680	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Zinc	30.6	32.2	23,500	341,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acetone	NE	NE	66,600	868,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzene	NE	NE	15.4	84.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromodichloromethane	NE	NE	5.41	30.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromoform	NE	NE	62.0[g]	220[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Butanone (MEK)	NE	NE	37,100	375,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbon disulfide	NE	NE	1,530	8,330	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbon tetrachloride	NE	NE	10.8	59.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chlorobenzene	NE	NE	376	2,120	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloroethane	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chloromethane	NE	NE	275	1,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethane	NE	NE	64.5	359	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethane	NE	NE	7.89	43.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethene	NE	NE	449	2,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethene (total)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloropropane	NE	NE	15.2	84.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
cis-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
trans-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Ethylbenzene	NE	NE	68.4	378	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Hexanone	NE	NE	210[g]	1400[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD12			SD13			SD14			SD15		
FIELD ID					C103-SD12-0.5			C103-SD13-0.5			C103-SD14-0.5			C103-SD15-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Methylene chloride	NE	NE	409	4,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Styrene	NE	NE	7,280	50,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Tetrachloroethene	NE	NE	7.02	36.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,1-Trichloroethane	NE	NE	15,600	78,900	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,1,2-Trichloroethane	NE	NE	2.81	13.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Trichloroethene	NE	NE	8.77	41.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vinyl acetate	NE	NE	2,560	12,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vinyl chloride	NE	NE	0.728	26.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Xylenes (total)	NE	NE	814	3,980	NS	--	--	NS	--	--	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
Acenaphthene	NE	NE	3,440	36,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Acenaphthylene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Antracene	NE	NE	17,200	183,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(a)anthracene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(a)pyrene	NE	NE	0.148	2.34	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(b)fluoranthene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(g,h,i)perylene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzo(k)fluoranthene	NE	NE	14.8	234	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	NS	--	--	NS	--	--	NS	--	--	NS	--	--
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Bromophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Carbazole	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chloro-3-methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chloroaniline	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Chloronaphthalene	NE	NE	6,260	90,800	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Chlorophenol	NE	NE	391	5,680	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Chrysene	NE	NE	148	2,340	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Di-n-butyl phthalate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Di-n-octyl phthalate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dibenzofuran	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2-Dichlorobenzene	NE	NE	2,310	14,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,3-Dichlorobenzene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,4-Dichlorobenzene	NE	NE	31.70	177	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dichlorophenol	NE	NE	183	2,050	NS	--	--	NS	--	--	NS	--	--	NS	--	--
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Diethyl phthalate	NE	NE	48,900	547,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD12			SD13			SD14			SD15		
FIELD ID					C103-SD12-0.5			C103-SD13-0.5			C103-SD14-0.5			C103-SD15-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
2,4-Dimethylphenol	NE	NE	1,220	13,700	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dimethyl phthalate	NE	NE	611,000	6.84E+06	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrophenol	NE	NE	122	1,370	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrotoluene	NE	NE	15.7	61.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,6-Dinitrotoluene	NE	NE	61.1	684	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Fluoranthene	NE	NE	2,290	24,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Fluorene	NE	NE	2,290	24,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorobenzene	NE	NE	3.04	12.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorobutadiene	NE	NE	61.1	246	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachlorocyclopentadiene	NE	NE	367	4,100	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Hexachloroethane	NE	NE	42.8	479	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Isophorone	NE	NE	5,120	137,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Methylnaphthalene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Naphthalene	NE	NE	43.0	241	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Nitroaniline	NE	NE	610[g]	6,000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
3-Nitroaniline	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Nitrobenzene	NE	NE	53.5	300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2-Nitrophenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4-Nitrophenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
N-Nitrosodiphenylamine	NE	NE	993	3,910	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Pentachlorophenol	NE	NE	8.94	30.00	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Phenanthrene	NE	NE	1,830	20,500	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Phenol	NE	NE	18,300	205,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Pyrene	NE	NE	1,720	18,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,4-Trichlorobenzene	NE	NE	73.0	367	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PESTICIDES (mg/kg)																
Aroclor 1016	NE	NE	3.93	41.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1221	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1232	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1242	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1248	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1254	NE	NE	1.12	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aroclor 1260	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDD	NE	NE	20.3	79.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDE	NE	NE	14.3	56.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--
4,4'-DDT	NE	NE	17.2	78.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Aldrin	NE	NE	0.284	1.12	NS	--	--	NS	--	--	NS	--	--	NS	--	--
alpha-BHC	NE	NE	0.772	3.04	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD12			SD13			SD14			SD15		
FIELD ID					C103-SD12-0.5			C103-SD13-0.5			C103-SD14-0.5			C103-SD15-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)																
alpha-Chlordane	NE	NE	16.2	71.9	NS	--	--	NS	--	--	NS	--	--	NS	--	--
beta-BHC	NE	NE	2.70	10.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--
delta-BHC	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dieldrin	NE	NE	0.304	1.20	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan I	NE	NE	367	4,100	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan II	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endosulfan sulfate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin	NE	NE	18.3	205	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin aldehyde	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Endrin ketone	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
gamma-BHC (Lindane)	NE	NE	5.17	22.9	NS	--	--	NS	--	--	NS	--	--	NS	--	--
gamma-Chlordane	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Heptachlor	NE	NE	1.08	4.26	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Heptachlor epoxide	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Methoxychlor	NE	NE	310.0[g]	3,100[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Toxaphene	NE	NE	4.42	17.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4-D	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4-DB	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dalapon	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dicamba	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dichlorprop	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Dinoseb	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
MCPA	NE	NE	31.0[g]	310[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
MCPP	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)																
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,4,5-TP (Silvex)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD12			SD13			SD14			SD15		
FIELD ID					C103-SD12-0.5			C103-SD13-0.5			C103-SD14-0.5			C103-SD15-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 19, 2010			October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)																
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--
TPH-DRO	NE	NE	1,000	1,000	NS	--	--	ND	2.2	U	ND	1.9	U	ND	2.6	U
TPH-ORO	NE	NE	1,000	1,000	NS	--	--	ND	22	U	ND	19	U	ND	26	U
TPH-GRO	NE	NE	1,000	1,000	NS	--	--	ND	2.2	U	ND	1.9	U	ND	2.6	U

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD16			SD17			SD18		
FIELD ID					C103-SD16-0.5			C103-SD17-0.5			C103-SD18-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)													
Aluminum	12,214	8,950	78,000	1.13E+06	NS	--	--	NS	--	--	NS	--	--
Antimony	16.0	3.15	31.3	454	NS	--	--	NS	--	--	NS	--	--
Arsenic	4.30	3.60	3.90	17.7	NS	--	--	NS	--	--	NS	--	--
Barium	890	670	15,600	223,000	NS	--	--	NS	--	--	NS	--	--
Beryllium	0.73	0.78	156	2,260	NS	--	--	NS	--	--	NS	--	--
Cadmium	1.30	0.35	70.3	897	NS	--	--	NS	--	--	NS	--	--
Calcium	237,498	44,800	NE	NE	NS	--	--	NS	--	--	NS	--	--
Chromium	13.3	10.5	117,000	1.70E+06	NS	--	--	NS	--	--	NS	--	--
Cobalt	4.70	6.60	23[g]	300[g]	NS	--	--	NS	--	--	NS	--	--
Copper	8.30	18.3	3,130	45,400	NS	--	--	NS	--	--	NS	--	--
Iron	13,148	10,100	54,800	795,000	NS	--	--	NS	--	--	NS	--	--
Lead	8.70	12.0	400	800	NS	--	--	NS	--	--	NS	--	--
Magnesium	19,300	1,930	NE	NE	NS	--	--	NS	--	--	NS	--	--
Manganese	333	307	1,860	26,700	NS	--	--	NS	--	--	NS	--	--
Mercury	0.019	0.056	15.6 [h]	73.6 [h]	NS	--	--	NS	--	--	NS	--	--
Nickel	14.9	11.0	1,560	22,500	NS	--	--	NS	--	--	NS	--	--
Potassium	2,512	2,691	NE	NE	NS	--	--	NS	--	--	NS	--	--
Selenium	1.10	0.26	391	5,680	4.8	1.3		2.3	0.82		6.4	1.3	J
Silver	2.65	0.40	391	5,680	12.5	0.25		3.3	0.16		27	0.26	J
Sodium	1,227	102	NE	NE	NS	--	--	NS	--	--	NS	--	--
Thallium	2.65	0.60	0.782	11.4	NS	--	--	NS	--	--	NS	--	--
Vanadium	32.8	23.3	391	5,680	NS	--	--	NS	--	--	NS	--	--
Zinc	30.6	32.2	23,500	341,000	NS	--	--	NS	--	--	NS	--	--
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Acetone	NE	NE	66,600	868,000	NS	--	--	NS	--	--	NS	--	--
Benzene	NE	NE	15.4	84.7	NS	--	--	NS	--	--	NS	--	--
Bromodichloromethane	NE	NE	5.41	30.1	NS	--	--	NS	--	--	NS	--	--
Bromoform	NE	NE	62.0[g]	220[g]	NS	--	--	NS	--	--	NS	--	--
Bromomethane	NE	NE	16.5	86.5	NS	--	--	NS	--	--	NS	--	--
2-Butanone (MEK)	NE	NE	37,100	375,000	NS	--	--	NS	--	--	NS	--	--
Carbon disulfide	NE	NE	1,530	8,330	NS	--	--	NS	--	--	NS	--	--
Carbon tetrachloride	NE	NE	10.8	59.8	NS	--	--	NS	--	--	NS	--	--
Chlorobenzene	NE	NE	376	2,120	NS	--	--	NS	--	--	NS	--	--
Chloroethane	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Chloroform	NE	NE	5.86	32.7	NS	--	--	NS	--	--	NS	--	--
Chloromethane	NE	NE	275	1,290	NS	--	--	NS	--	--	NS	--	--
Dibromochloromethane	NE	NE	12.1	62.4	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethane	NE	NE	64.5	359	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethane	NE	NE	7.89	43.5	NS	--	--	NS	--	--	NS	--	--
1,1-Dichloroethene	NE	NE	449	2,290	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloroethene (total)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2-Dichloropropane	NE	NE	15.2	84.4	NS	--	--	NS	--	--	NS	--	--
cis-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
trans-1,3-Dichloropropene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Ethylbenzene	NE	NE	68.4	378	NS	--	--	NS	--	--	NS	--	--
2-Hexanone	NE	NE	210[g]	1400[g]	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD16			SD17			SD18		
FIELD ID					C103-SD16-0.5			C103-SD17-0.5			C103-SD18-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
4-Methyl-2-pentanone (MIBK)	NE	NE	5,820	73,800	NS	--	--	NS	--	--	NS	--	--
Methylene chloride	NE	NE	409	4,700	NS	--	--	NS	--	--	NS	--	--
Styrene	NE	NE	7,280	50,000	NS	--	--	NS	--	--	NS	--	--
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	NS	--	--	NS	--	--	NS	--	--
Tetrachloroethene	NE	NE	7.02	36.6	NS	--	--	NS	--	--	NS	--	--
Toluene	NE	NE	5,270	57,700	NS	--	--	NS	--	--	NS	--	--
1,1,1-Trichloroethane	NE	NE	15,600	78,900	NS	--	--	NS	--	--	NS	--	--
1,1,2-Trichloroethane	NE	NE	2.81	13.3	NS	--	--	NS	--	--	NS	--	--
Trichloroethene	NE	NE	8.77	41.3	NS	--	--	NS	--	--	NS	--	--
Vinyl acetate	NE	NE	2,560	12,300	NS	--	--	NS	--	--	NS	--	--
Vinyl chloride	NE	NE	0.728	26.1	NS	--	--	NS	--	--	NS	--	--
Xylenes (total)	NE	NE	814	3,980	NS	--	--	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
Acenaphthene	NE	NE	3,440	36,700	NS	--	--	NS	--	--	NS	--	--
Acenaphthylene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Antracene	NE	NE	17,200	183,000	NS	--	--	NS	--	--	NS	--	--
Benzo(a)anthracene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--
Benzo(a)pyrene	NE	NE	0.148	2.34	NS	--	--	NS	--	--	NS	--	--
Benzo(b)fluoranthene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--
Benzo(g,h,i)perylene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Benzo(k)fluoranthene	NE	NE	14.8	234	NS	--	--	NS	--	--	NS	--	--
Benzoic acid	NE	NE	240,000[g]	2.5E+06[g]	NS	--	--	NS	--	--	NS	--	--
Benzyl alcohol	NE	NE	6,100[g]	62,000[g]	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethoxy) methane	NE	NE	180[g]	18,000[g]	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroethyl) ether	NE	NE	2.68	14.20	NS	--	--	NS	--	--	NS	--	--
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	NS	--	--	NS	--	--	NS	--	--
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS	--	--	NS	--	--	NS	--	--
4-Bromophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Butyl benzyl phthalate	NE	NE	260[g]	910[g]	NS	--	--	NS	--	--	NS	--	--
Carbazole	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
4-Chloro-3-methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
4-Chloroaniline	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
2-Chloronaphthalene	NE	NE	6,260	90,800	NS	--	--	NS	--	--	NS	--	--
2-Chlorophenol	NE	NE	391	5,680	NS	--	--	NS	--	--	NS	--	--
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Chrysene	NE	NE	148	2,340	NS	--	--	NS	--	--	NS	--	--
Di-n-butyl phthalate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Di-n-octyl phthalate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	NS	--	--	NS	--	--	NS	--	--
Dibenzofuran	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2-Dichlorobenzene	NE	NE	2,310	14,000	NS	--	--	NS	--	--	NS	--	--
1,3-Dichlorobenzene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,4-Dichlorobenzene	NE	NE	31.70	177	NS	--	--	NS	--	--	NS	--	--
2,4-Dichlorophenol	NE	NE	183	2,050	NS	--	--	NS	--	--	NS	--	--
3-3-Dichlorobenzidine	NE	NE	10.8	42.6	NS	--	--	NS	--	--	NS	--	--
Diethyl phthalate	NE	NE	48,900	547,000	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD16			SD17			SD18		
FIELD ID					C103-SD16-0.5			C103-SD17-0.5			C103-SD18-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
2,4-Dimethylphenol	NE	NE	1,220	13,700	NS	--	--	NS	--	--	NS	--	--
Dimethyl phthalate	NE	NE	611,000	6.84E+06	NS	--	--	NS	--	--	NS	--	--
4,6-Dinitro-2-methylphenol	NE	NE	4.89	54.7	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrophenol	NE	NE	122	1,370	NS	--	--	NS	--	--	NS	--	--
2,4-Dinitrotoluene	NE	NE	15.7	61.8	NS	--	--	NS	--	--	NS	--	--
2,6-Dinitrotoluene	NE	NE	61.1	684	NS	--	--	NS	--	--	NS	--	--
Fluoranthene	NE	NE	2,290	24,400	NS	--	--	NS	--	--	NS	--	--
Fluorene	NE	NE	2,290	24,400	NS	--	--	NS	--	--	NS	--	--
Hexachlorobenzene	NE	NE	3.04	12.0	NS	--	--	NS	--	--	NS	--	--
Hexachlorobutadiene	NE	NE	61.1	246	NS	--	--	NS	--	--	NS	--	--
Hexachlorocyclopentadiene	NE	NE	367	4,100	NS	--	--	NS	--	--	NS	--	--
Hexachloroethane	NE	NE	42.8	479	NS	--	--	NS	--	--	NS	--	--
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	NS	--	--	NS	--	--	NS	--	--
Isophorone	NE	NE	5,120	137,000	NS	--	--	NS	--	--	NS	--	--
2-Methylnaphthalene	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
2-Methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
4-Methylphenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Naphthalene	NE	NE	43.0	241	NS	--	--	NS	--	--	NS	--	--
2-Nitroaniline	NE	NE	610[g]	6,000[g]	NS	--	--	NS	--	--	NS	--	--
3-Nitroaniline	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
4-Nitroaniline	NE	NE	24.0[g]	86.0[g]	NS	--	--	NS	--	--	NS	--	--
Nitrobenzene	NE	NE	53.5	300	NS	--	--	NS	--	--	NS	--	--
2-Nitrophenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
4-Nitrophenol	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
N-Nitroso-di-n-propylamine	NE	NE	0.0069[g]	0.25[g]	NS	--	--	NS	--	--	NS	--	--
N-Nitrosodiphenylamine	NE	NE	993	3,910	NS	--	--	NS	--	--	NS	--	--
Pentachlorophenol	NE	NE	8.94	30.00	NS	--	--	NS	--	--	NS	--	--
Phenanthrene	NE	NE	1,830	20,500	NS	--	--	NS	--	--	NS	--	--
Phenol	NE	NE	18,300	205,000	NS	--	--	NS	--	--	NS	--	--
Pyrene	NE	NE	1,720	18,300	NS	--	--	NS	--	--	NS	--	--
1,2,4-Trichlorobenzene	NE	NE	73.0	367	NS	--	--	NS	--	--	NS	--	--
2,4,5-Trichlorophenol	NE	NE	6110.0	68,400	NS	--	--	NS	--	--	NS	--	--
2,4,6-Trichlorophenol	NE	NE	61.1	684.0	NS	--	--	NS	--	--	NS	--	--
PESTICIDES (mg/kg)													
Aroclor 1016	NE	NE	3.93	41.3	NS	--	--	NS	--	--	NS	--	--
Aroclor 1221	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--
Aroclor 1232	NE	NE	1.49	6.24	NS	--	--	NS	--	--	NS	--	--
Aroclor 1242	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--
Aroclor 1248	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--
Aroclor 1254	NE	NE	1.12	8.26	NS	--	--	NS	--	--	NS	--	--
Aroclor 1260	NE	NE	2.22	8.26	NS	--	--	NS	--	--	NS	--	--
4,4'-DDD	NE	NE	20.3	79.8	NS	--	--	NS	--	--	NS	--	--
4,4'-DDE	NE	NE	14.3	56.3	NS	--	--	NS	--	--	NS	--	--
4,4'-DDT	NE	NE	17.2	78.1	NS	--	--	NS	--	--	NS	--	--
Aldrin	NE	NE	0.284	1.12	NS	--	--	NS	--	--	NS	--	--
alpha-BHC	NE	NE	0.772	3.04	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD16			SD17			SD18		
FIELD ID					C103-SD16-0.5			C103-SD17-0.5			C103-SD18-0.5		
SAMPLE DEPTH (FT BGS)					0 - 0.5			0 - 0.5			0 - 0.5		
DATE COLLECTED					October 20, 2010			October 20, 2010			October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES (mg/kg)													
alpha-Chlordane	NE	NE	16.2	71.9	NS	--	--	NS	--	--	NS	--	--
beta-BHC	NE	NE	2.70	10.6	NS	--	--	NS	--	--	NS	--	--
delta-BHC	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Dieldrin	NE	NE	0.304	1.20	NS	--	--	NS	--	--	NS	--	--
Endosulfan I	NE	NE	367	4,100	NS	--	--	NS	--	--	NS	--	--
Endosulfan II	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Endosulfan sulfate	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Endrin	NE	NE	18.3	205	NS	--	--	NS	--	--	NS	--	--
Endrin aldehyde	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Endrin ketone	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
gamma-BHC (Lindane)	NE	NE	5.17	22.9	NS	--	--	NS	--	--	NS	--	--
gamma-Chlordane	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Heptachlor	NE	NE	1.08	4.26	NS	--	--	NS	--	--	NS	--	--
Heptachlor epoxide	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Methoxychlor	NE	NE	310.0[g]	3,100[g]	NS	--	--	NS	--	--	NS	--	--
Toxaphene	NE	NE	4.42	17.4	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)													
2,4-D	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
2,4-DB	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Dalapon	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--
Dicamba	NE	NE	1800[g]	18000[g]	NS	--	--	NS	--	--	NS	--	--
Dichlorprop	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
Dinoseb	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--
MCPA	NE	NE	31.0[g]	310[g]	NS	--	--	NS	--	--	NS	--	--
MCPP	NE	NE	61.0[g]	620[g]	NS	--	--	NS	--	--	NS	--	--
HERBICIDES (mg/kg)													
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	NS	--	--	NS	--	--	NS	--	--
2,4,5-TP (Silvex)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
POLYCHLORINATED BIPHENYLS (mg/kg)													
PCB 105	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--
PCB 114	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--
PCB 118	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--
PCB 123	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--
PCB 126	NE	NE	0.00034	0.00127	NS	--	--	NS	--	--	NS	--	--
PCB 156	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--
PCB 157	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--
PCB 167	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--
PCB 169	NE	NE	0.00114	0.00424	NS	--	--	NS	--	--	NS	--	--
PCB 170	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--
PCB 180	NE	NE	3.41	12.7	NS	--	--	NS	--	--	NS	--	--
PCB 189	NE	NE	1.14	4.24	NS	--	--	NS	--	--	NS	--	--
PCB 77	NE	NE	0.34	1.27	NS	--	--	NS	--	--	NS	--	--
PCB 81	NE	NE	0.114	0.42	NS	--	--	NS	--	--	NS	--	--

TABLE B-3
SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]
Cannon AFB, New Mexico

SAMPLE LOCATION FIELD ID SAMPLE DEPTH (FT BGS) DATE COLLECTED	Subsurface Background Concentration Soil [d]	Surface Background Concentration Soil [d]	NMED Residential SSL Concentration [e,f]	NMED Industrial SSL Concentration [e,f]	SD16 C103-SD16-0.5 0 - 0.5 October 20, 2010			SD17 C103-SD17-0.5 0 - 0.5 October 20, 2010			SD18 C103-SD18-0.5 0 - 0.5 October 20, 2010		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (mg/kg)													
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	NE	4.50E-05	2.04E-04	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	4.50E-04	0.00204	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	NE	NE	NS	--	--	NS	--	--	NS	--	--
TOTAL PETROLEUM HYDROCARBONS (mg/kg)													
Total Recoverable Petroleum Hydrocarbons	NE	NE	1,000	1,000	NS	--	--	NS	--	--	NS	--	--
TPH-DRO	NE	NE	1,000	1,000	ND	2.5	U	ND	1.6	U	ND	2.6	U
TPH-ORO	NE	NE	1,000	1,000	ND	25	U	ND	16	U	ND	26	U
TPH-GRO	NE	NE	1,000	1,000	ND	2.5	U	ND	1.6	U	ND	2.6	U

TABLE B-3

SWMU 103 (Wastewater Playa Lake) Historical Soil Analytical All Data Results [a,b,c]

Cannon AFB, New Mexico

Notes:

[a] Woodward-Clyde Consultants, Inc., 1994. Table 19-2a. *RCRA Facility Investigation, Appendix III SWMUs, Phase I,* Cannon Air Force Base, New Mexico.

[b] Woodward-Clyde Consultants, Inc., 1997. Table A-5. *RCRA Facility Investigation, Appendix III SWMUs, Phase II,* Cannon Air Force Base, New Mexico, November.

[c] URS Group, Inc., 2011. Tables 7-3a through 7-3b. *Playa Lake (SWMU 103) Phase III RCRA Facility Investigation Report,* Cannon Air Force Base, New Mexico, May.

[d] Woodward-Clyde Consultants, Inc., 1997. Table 6-3. *Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon Air Force Base, New Mexico,* September.

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

unknown oil.

[g] U.S. Environmental Protection Agency (EPA), 2012. Regions 3, 6, and 9 Regional Screening Levels for Chemical Contaminants at Superfund Sites, November.

[h] Value is for elemental mercury.

BOLD indicates that analyte exceeds the 2012 NMED residential SSL.

Exceeds Background Value

-- = Placeholder, no data available since not sampled

AFB = Air Force Base

BGS = Below Ground Surface

DRO = Diesel Range Organic

EPA = U.S. Environmental Protection Agency

FT = Feet

GRO = Gasoline Range Organic

GW = Groundwater

ID = Identification

J = Estimated Detection

mg/kg = Milligram per Kilogram

NA = Not Available

ND = Result Not Detected

NE = Not Established

NMED = New Mexico Environment Department

NS = Not Sampled

ORO = Oil Range Organic

PCB = Polychlorinated Biphenyl

Qual = Qualifier

R = Data was unusable.

RCRA = Resource Conservation and Recovery Act

RL = Reporting Limit

SSL = Soil Screening Level

SWMU = Solid Waste Management Unit

TEQ = Toxic Equivalency Quotient

TPH = Total Petroleum Hydrocarbon

U = Nondetected value

UJ = Estimated nondetect

TABLE B-4

SWMU 103 (Wastewater Playa Lake) Historical Surface Water Analytical All Data Results [a,b]

Cannon AFB, New Mexico

SAMPLE LOCATION	NMWQCC WQS [c]	EPA MCL [d]	SW01			SW02			SW03			SW04			SW05		
FIELD ID			C103-SW01-00			C103-SW02-00			C103-SW03-00			C103-SW04-00			C103-SW05-00		
SAMPLE DEPTH (FT BGS)			NA			NA			NA			NA			NA		
DATE COLLECTED			October 18, 2010			October 18, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (µg/L)																	
Total Lead	50.0	15.0	ND	5.00	U	ND	5.00	U	ND	5.00	U	ND	5.00	UJ	ND	5.00	U
Total Selenium	50.0	50.0	ND	10.0	U	ND	10.0	U	ND	10.0	U	ND	10.0	U	ND	10.0	U
Total Silver	50.0	NE	ND	1.00	U	ND	1.00	U	ND	1.00	U	1.20	1.00		ND	1.00	U
Dissolved Lead	50.0	15.0	ND	5.00	U	ND	5.00	U	ND	5.00	U	ND	5.00	UJ	ND	5.00	U
Dissolved Selenium	50.0	50.0	ND	5.00	U	ND	5.00	U	ND	10.0	U	ND	10.0	U	ND	10.0	U
Dissolved Silver	50.0	NE	ND	1.00	U	ND	1.00	U	ND	1.00	U	ND	1.00	U	ND	1.00	U
Arsenic	100	10.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Barium	1,000	2,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Copper	1,000	1,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Lead	50.0	15.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Silver	50.0	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Vanadium	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Zinc	10,000	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
POLYCHLORINATED BIPHENYLS (µg/L)																	
PCB 105	1.00	0.50	ND	1.80E-05	U	ND	2.10E-05	U	ND	2.40E-05	U	3.00E-05	3.00E-05	J	ND	2.60E-05	U
PCB 114	1.00	0.50	ND	1.40E-05	U	ND	2.90E-05	U	ND	2.00E-05	U	ND	7.50E-06	U	1.80E-05	1.80E-05	J
PCB 118	1.00	0.50	ND	4.20E-04	U	3.70E-04	3.70E-04		5.10E-04	5.10E-04		ND	3.40E-04	U	4.50E-04	4.50E-04	
PCB 123	1.00	0.50	ND	4.30E-06	U	ND	2.60E-05	U	ND	4.30E-06	U	ND	1.60E-05	U	ND	2.60E-06	U
PCB 126	1.00	0.50	ND	5.40E-06	U	ND	8.40E-06	U	ND	5.20E-06	U	ND	1.10E-05	U	ND	3.20E-06	U
PCB 156	1.00	0.50	ND	7.80E-06	U	4.90E-05	4.90E-05	J	8.10E-06	8.10E-06	J	ND	6.50E-06	U	1.30E-05	1.30E-05	J
PCB 157	1.00	0.50	ND	8.10E-06	U	ND	4.10E-06	U	ND	4.00E-06	U	ND	6.50E-06	U	ND	2.90E-06	U
PCB 167	1.00	0.50	ND	7.00E-06	U	ND	1.70E-05	U	ND	3.50E-06	U	ND	5.50E-06	U	ND	4.40E-06	U
PCB 169	1.00	0.50	ND	1.10E-05	U	ND	6.00E-06	U	ND	5.20E-06	U	ND	1.00E-05	U	ND	3.80E-06	U
PCB 170	1.00	0.50	ND	3.00E-05	U	3.50E-04	3.50E-04	J	ND	1.90E-05	U	ND	1.60E-05	U	ND	2.50E-05	U
PCB 180	1.00	0.50	1.20E-04	1.20E-04	J	9.00E-04	9.00E-04	J	5.00E-05	5.00E-05	J	5.00E-05	5.00E-05	J	5.80E-05	5.80E-05	J
PCB 189	1.00	0.50	ND	3.40E-06	U	ND	6.90E-06	U	ND	2.10E-06	U	ND	2.00E-06	U	ND	1.30E-06	U
PCB 77	1.00	0.50	ND	5.20E-06	U	ND	7.80E-06	U	ND	6.80E-06	U	ND	7.50E-06	U	7.60E-06	7.60E-06	J
PCB 81	1.00	0.50	ND	3.80E-06	U	ND	7.60E-07	U	ND	3.00E-06	U	ND	6.40E-06	U	ND	2.00E-06	U

TABLE B-4

SWMU 103 (Wastewater Playa Lake) Historical Surface Water Analytical All Data Results [a,b]

Cannon AFB, New Mexico

SAMPLE LOCATION	NMWQCC WQS [c]	EPA MCL [d]	SW01			SW02			SW03			SW04			SW05		
FIELD ID			C103-SW01-00			C103-SW02-00			C103-SW03-00			C103-SW04-00			C103-SW05-00		
SAMPLE DEPTH (FT BGS)			NA			NA			NA			NA			NA		
DATE COLLECTED			October 18, 2010			October 18, 2010			October 19, 2010			October 19, 2010			October 19, 2010		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (µg/L)																	
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	ND	1.00E-06	U	ND	2.10E-06	U	ND	8.40E-07	U	ND	2.30E-06	U	ND	1.30E-06	U
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	ND	8.80E-07	U	ND	1.00E-06	U	ND	1.10E-06	U	ND	1.70E-06	U	ND	1.60E-06	U
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	ND	1.20E-06	U	ND	1.40E-06	U	ND	1.50E-06	U	ND	2.30E-06	U	ND	1.10E-06	U
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	ND	2.20E-06	U	ND	3.30E-06	U	ND	1.60E-06	U	ND	1.00E-06	U	ND	1.30E-06	U
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	ND	1.40E-06	U	ND	8.50E-07	U	ND	8.30E-07	U	ND	5.30E-07	U	ND	5.20E-07	U
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	ND	1.50E-06	U	ND	1.80E-06	U	ND	1.10E-06	U	ND	7.10E-07	U	ND	1.20E-06	U
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	ND	8.70E-07	U	ND	8.40E-07	U	ND	7.00E-07	U	ND	4.50E-07	U	ND	4.40E-07	U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	ND	2.10E-06	U	ND	1.90E-06	U	ND	2.80E-06	U	ND	1.00E-06	U	ND	3.10E-07	U
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	ND	1.20E-06	U	ND	1.10E-06	U	ND	1.00E-06	U	ND	6.20E-07	U	ND	6.00E-07	U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	ND	1.50E-06	U	ND	1.40E-06	U	ND	8.80E-07	U	ND	1.40E-06	U	ND	8.50E-07	U
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	ND	1.10E-06	U	ND	1.10E-06	U	ND	1.00E-06	U	ND	8.20E-07	U	ND	7.10E-07	U
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	ND	1.00E-06	U	ND	1.00E-06	U	ND	8.40E-07	U	ND	5.40E-07	U	ND	5.00E-07	U
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	ND	1.10E-06	U	ND	5.00E-07	UJ	ND	6.90E-07	U	ND	5.40E-07	U	ND	7.00E-07	U
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	3.00E-05	ND	9.10E-07	U	ND	1.90E-06	U	ND	6.50E-07	U	ND	6.50E-07	U	ND	4.80E-07	U
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	ND	1.80E-06	U	ND	1.60E-06	U	ND	1.10E-06	U	ND	1.30E-06	U	ND	1.00E-06	U
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	ND	2.40E-06	U	ND	1.30E-05	U	ND	1.80E-05	U	ND	2.20E-06	U	1.90E-05	1.90E-05	J
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	ND	2.10E-06	U	ND	2.00E-06	U	ND	1.10E-06	U	ND	2.20E-06	U	ND	1.20E-06	U
TEQ	NE	NE	ND	NA	U	ND	NA	U	ND	NA	U	ND	NA	U	5.70E-09	NA	
CYANIDE (µg/L)																	
Cyanide	200	200	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
WATER QUALITY (µg/L)																	
Total Sulfide	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (µg/L)																	
Isophorone	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

TABLE B-4

SWMU 103 (Wastewater Playa Lake) Historical Surface Water Analytical All Data Results [a,b]

Cannon AFB, New Mexico

SAMPLE LOCATION	NMWQCC WQS [c]	EPA MCL [d]	SW06			10305			10306			10307		
FIELD ID			C103-SW06-00			CAN103-1035-3000			CAN103-1036-3000			CAN103-1037-3000		
SAMPLE DEPTH (FT BGS)			NA			NA			NA			NA		
DATE COLLECTED			October 19, 2010			September 21, 1993			September 21, 1993			September 21, 1993		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (µg/L)														
Total Lead	50.0	15.0	2.10	5.00	J	NS	--	--	NS	--	--	NS	--	--
Total Selenium	50.0	50.0	ND	10.0	U	NS	--	--	NS	--	--	NS	--	--
Total Silver	50.0	NE	ND	1.00	U	NS	--	--	NS	--	--	NS	--	--
Dissolved Lead	50.0	15.0	4.60	5.00	J	NS	--	--	NS	--	--	NS	--	--
Dissolved Selenium	50.0	50.0	ND	10.0	U	NS	--	--	NS	--	--	NS	--	--
Dissolved Silver	50.0	NE	ND	1.00	U	NS	--	--	NS	--	--	NS	--	--
Arsenic	100	10.0	NS	--	--	3.10	5.00	J	5.70	5.00	J	3.40	5.00	J
Barium	1,000	2,000	NS	--	--	76.0	10.0		70.0	10.0		66.0	10.0	
Copper	1,000	1,300	NS	--	--	6.90	20.0	J	51.0	20.0	J	7.20	20.0	J
Lead	50.0	15.0	NS	--	--	ND	5.00	UJ	6.00	5.00	J	ND	5.00	UJ
Silver	50.0	NE	NS	--	--	9.20	10.0	J	5.30	10.0	J	5.20	10.0	J
Vanadium	NE	NE	NS	--	--	8.90	10.0	J	4.80	10.0	J	8.10	10.0	J
Zinc	10,000	NE	NS	--	--	19.0	20.0	J	14.0	20.0	J	14.0	20.0	J
POLYCHLORINATED BIPHENYLS (µg/L)														
PCB 105	1.00	0.50	ND	1.90E-05	U	NS	--	--	NS	--	--	NS	--	--
PCB 114	1.00	0.50	ND	2.40E-05	U	NS	--	--	NS	--	--	NS	--	--
PCB 118	1.00	0.50	3.90E-04	3.90E-04		NS	--	--	NS	--	--	NS	--	--
PCB 123	1.00	0.50	ND	5.20E-06	U	NS	--	--	NS	--	--	NS	--	--
PCB 126	1.00	0.50	ND	6.70E-06	U	NS	--	--	NS	--	--	NS	--	--
PCB 156	1.00	0.50	ND	6.50E-06	U	NS	--	--	NS	--	--	NS	--	--
PCB 157	1.00	0.50	ND	6.70E-06	U	NS	--	--	NS	--	--	NS	--	--
PCB 167	1.00	0.50	ND	5.70E-06	U	NS	--	--	NS	--	--	NS	--	--
PCB 169	1.00	0.50	ND	9.50E-06	U	NS	--	--	NS	--	--	NS	--	--
PCB 170	1.00	0.50	ND	3.20E-05	U	NS	--	--	NS	--	--	NS	--	--
PCB 180	1.00	0.50	8.70E-05	8.70E-05	J	NS	--	--	NS	--	--	NS	--	--
PCB 189	1.00	0.50	ND	1.30E-06	U	NS	--	--	NS	--	--	NS	--	--
PCB 77	1.00	0.50	ND	8.20E-06	U	NS	--	--	NS	--	--	NS	--	--
PCB 81	1.00	0.50	ND	2.80E-06	U	NS	--	--	NS	--	--	NS	--	--

TABLE B-4

SWMU 103 (Wastewater Playa Lake) Historical Surface Water Analytical All Data Results [a,b]

Cannon AFB, New Mexico

SAMPLE LOCATION	NMWQCC WQS [c]	EPA MCL [d]	SW06			10305			10306			10307		
FIELD ID			C103-SW06-00			CAN103-1035-3000			CAN103-1036-3000			CAN103-1037-3000		
SAMPLE DEPTH (FT BGS)			NA			NA			NA			NA		
DATE COLLECTED			October 19, 2010			September 21, 1993			September 21, 1993			September 21, 1993		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
DIOXINS/FURANS (µg/L)														
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	NE	NE	ND	3.80E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	NE	NE	ND	1.40E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	NE	NE	ND	1.30E-05	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	ND	8.70E-07	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	ND	1.30E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	ND	1.80E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	ND	1.10E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	NE	NE	ND	1.30E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	NE	NE	ND	1.50E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	NE	NE	ND	1.90E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	ND	1.50E-06	U	NS	--	--	NS	--	--	NS	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	NE	NE	ND	5.00E-06	U	NS	--	--	NS	--	--	NS	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	NE	NE	ND	1.50E-06	U	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	NE	3.00E-05	ND	1.00E-06	U	NS	--	--	NS	--	--	NS	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	NE	NE	ND	2.20E-06	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Heptachlorodibenzo-p-dioxin (OCDD)	NE	NE	ND	1.90E-05	U	NS	--	--	NS	--	--	NS	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	NE	NE	ND	3.20E-06	U	NS	--	--	NS	--	--	NS	--	--
TEQ	NE	NE	ND	NA	U	NS	--	--	NS	--	--	NS	--	--
CYANIDE (µg/L)														
Cyanide	200	200	NS	--	--	14.0	10.0		11.0	10.0		ND	10.0	U
WATER QUALITY (µg/L)														
Total Sulfide	NE	NE	NS	--	--	800	100		570	100		650	100	
SEMIVOLATILE ORGANIC COMPOUNDS (µg/L)														
Isophorone	NE	NE	NS	--	--	ND	10.0	UJ	ND	10.0	U	1.40	10.0	J

TABLE B-4

SWMU 103 (Wastewater Playa Lake) Historical Surface Water Analytical All Data Results [a,b]

Cannon AFB, New Mexico

Notes:

[a] Woodward-Clyde Consultants, Inc., 1994. Table 19-2b. *RCRA Facility Investigation, Appendix III SWMUs, Phase I,* Cannon Air Force Base, N*ew Mexico* .

[b] URS Group, Inc., 2011. Tables 7-1a through 7-1b. *Playa Lake (SWMU 103) Phase III RCRA Facility Investigation Report,* Cannon Air Force Base, New Mexico, May.

[c] New Mexico Water Quality Control Commission (NMWQCC), 2001. 20.6.2.7(ww) New Mexico Administrative Code (NMAC),*Definitions - toxic pollutant* .

[d] U.S. Environmental Protection Agency (EPA), 2012. Regions 3, 6, and 9 Regional Screening Levels for Chemical Contaminants at Superfund Sites, November.

-- = Placeholder, no data available since not sampled

µg/L = Microgram per Liter

AFB = Air Force Base

bgs = Below Ground Surface

EPA = U.S. Environmental Protection Agency

FT = Feet

ID = Identification

J = Estimated Detection

MCL = Maximum Contaminant Level

NA = Not Applicable

ND = Result Not Detected

NE = Not Established

NMAC = New Mexico Administrative Code

NMWQCC = New Mexico Water Quality Control Commission

NS = Not Sampled

Qual = Qualifier

PCB = Polychlorinated Biphenyl

RCRA = Resource Conservation and Recovery Act

RL = Reporting Limit

SWMU = Solid Waste Management Unit

TEQ = Toxic Equivalency Quotient

U = Nondetected value

UJ = Estimated nondetect

WQS = Water Quality Standards

Appendix C: Geochemical Evaluation of Arsenic in Soil at SWMU-103, Cannon Air Force Base

Final Version 09-03-2013

This section provides the methodology and results of a geochemical evaluation of arsenic concentrations in soil and sediment samples from the SWMU 103 site at Cannon Air Force Base (AFB). The evaluated data includes chemical analyses of 15 sediment samples obtained at depths from 0 to 5 feet below ground surface (bgs), and 33 soil samples obtained at depths from 0 to 20 feet bgs. Each sample was analyzed for the Target Analyte List of 23 elements. Analyses of 37 previously collected background samples were used for comparison in the evaluation. Descriptions of the background samples can be found in *Naturally Occurring Concentrations of Inorganics and Background concentrations of Pesticides at Cannon Air Force Base* (Woodward-Clyde, 1997).

The arsenic concentrations in three of the 15 sediment samples exceeded both the Cannon AFB background screening value of 4.3 mg/kg for subsurface soil and the NMED residential SSL of 3.9 mg/kg. These three samples had arsenic concentrations of 4.5, 4.6, and 10.8 mg/kg, and were collected at depths ranging from 0-3 ft bgs. One sediment sample exceeded the 2012 NMED residential SSL of 3.9 mg/kg, but the sample concentration (4.3 mg/kg) did not exceed the Cannon AFB background screening concentration of 4.3 mg/kg for subsurface soil. No other elements had concentrations that exceeded both the 2012 NMED residential SSLs and Cannon AFB background screening values.

Evaluation Methodology

Trace element distributions in soil are often right-skewed and can span a wide range of concentrations. Trace elements in soil can naturally exceed risk-based screening levels because these screening levels do not consider natural site-specific distributions of trace element concentrations.

Comparisons of concentrations in site samples to background screening values can also be problematic. The background screening values used here are based on the 95th upper tolerance limits of background distributions. By definition, one would expect that five percent, or one in 20 samples will on average exceed the background screening value even if no contamination is present.

Comparisons to risk-based screening levels and background screening values only consider the absolute concentrations of individual elements, and disregard the interdependence of element concentrations and the geochemical mechanisms controlling element behavior. However, it is well established that trace elements naturally associate with specific minerals in soil and sediment, and the preferential enrichment of a sample with these minerals will result in naturally elevated trace element concentrations. It is thus important to be able to identify these naturally high concentrations and distinguish them from potential contamination.

Recent publications indicate that geochemical evaluations are assuming a larger role in environmental investigations (e.g., EPA, 1995; Barclift, *et al*., 2000; U.S. Navy, 2002, 2003; Myers and Thorbjornsen, 2004; Thorbjornsen and Myers, 2007a, 2007b, 2008). A properly executed geochemical evaluation can distinguish between naturally high element concentrations versus contamination, and can identify the specific samples that may contain some component of site-related contamination.

Geochemical Evaluation Methodology for Soil. Trace elements naturally associate with specific soil-forming minerals, and geochemical evaluations are predicated on these known associations. For example, in most uncontaminated oxic soils, arsenic exhibits an association with iron oxide minerals. Arsenic exists in oxic soil pore fluid as oxyanions such as $HAsO_4^{-2}$ and $H_2AsO_4^{-}$ (Brookins, 1988), and these negatively charged species have a strong affinity to adsorb on iron oxides, which tend to maintain a net positive surface charge (Electric Power Research Institute, 1984). (In this report, the term "iron oxide" encompasses oxides, hydroxides, oxyhydroxides, and hydrous oxides of iron.) This association is expressed as a positive correlation between arsenic concentrations and iron concentrations for uncontaminated samples.

As a result of these associations, soil samples with a low percentage of iron oxides will contain proportionally lower arsenic concentrations, and soil samples that are enriched in iron oxides will contain proportionally higher arsenic concentrations (Bowell, 1994). Although there is variability in the absolute concentrations of arsenic (As) and iron (Fe) in soil at a site, the As/Fe ratios of the samples will be relatively constant if no contamination is present (Myers and Thorbjornsen, 2004). Samples that contain excess arsenic from a contaminant source (herbicides, treated wood, etc.) will exhibit anomalously high As/Fe ratios compared to the uncontaminated samples.

The reference elements against which trace elements are evaluated reflect the affinities that the trace elements have for specific minerals, which is a function of the specific geochemical environment. The concentrations of iron and aluminum serve as qualitative indicators of the amounts of iron oxide and clay minerals that are present in the soil samples (all clay minerals contain aluminum as a major component). Along with arsenic, selenium and vanadium are present in oxic soil pore fluid as anions and have an affinity to adsorb on iron oxides, which tend to maintain a net positive surface charge. Concentrations of arsenic, selenium, or vanadium in a set of samples can be evaluated through comparison to the corresponding iron concentrations. Barium, cobalt, cadmium, lead, and zinc are typically present in soil as divalent cations and have an affinity to adsorb on clay minerals, which tend to maintain a net negative surface charge. Concentrations of these elements can be evaluated through comparison to the corresponding aluminum concentrations.

To perform the geochemical evaluation, correlation plots are constructed to explore the elemental associations and identify potentially contaminated samples. The detected concentrations of the trace element of interest (dependent variable) are plotted against the detected concentrations of the reference element (independent variable), which represents the mineral to which the trace element may be adsorbed. In the case of arsenic, the arsenic concentrations for a given set of samples would be plotted on the y-axis and the corresponding iron concentrations would be plotted on the x-axis.

If no contamination is present, then the samples will exhibit a common trend with a positive slope, and the samples with the highest trace element concentrations will fall on this trend. This indicates that the elevated trace element concentrations are due to the preferential enrichment of the minerals represented by the reference element concentrations in those samples, and that the trace element has a natural source. If, however, the samples with high trace element concentrations have low or moderate reference element concentrations, then those samples will lie above the trend established by the other samples. This indicates that the anomalous samples contain excess trace elements beyond that which can be explained by the natural reference element content, and such samples may contain a component of contamination.

Site samples with a trace element present as a contaminant will exhibit anomalously high trace-versus-major element ratios compared to background trace-versus-major element ratios. These elevated ratios may not always be apparent in log-log correlation plots,

especially at the upper end of the concentration range. Therefore, ratio plots—which depict trace element concentrations on the y-axis and trace/reference element ratios on the x-axis—are employed in conjunction with correlation plots in those cases where it is not immediately apparent which site samples have anomalously high elemental ratios on the correlation plots. Ratio plots have high resolution over the entire concentration range and permit easy visual identification of samples with anomalously high elemental ratios relative to background.

It is important to note that there is natural variability, as well as analytical uncertainty, in the element ratios of uncontaminated soil samples. Trace/reference element ratios are calculated from two uncertain analytical results, so the resulting uncertainties in the ratios can produce some scatter in the points on a ratio plot. This is especially true when estimated ("J"-qualified) analytical results are used. This can be seen on some of the plots that show more scatter of the points at the lower end of the concentration range, where analytical uncertainties are higher and analytical results are reported with fewer significant figures.

Evaluation Results

Aluminum and iron are evaluated first to determine if the iron concentrations are natural and if iron is therefore suitable for use as reference element for the evaluation of arsenic.

Aluminum and Iron – Aluminum has a mean concentration of 7,900 mg/kg in the 48 soil and sediment site samples. Aluminum is a primary component of common soil-forming minerals such as clays, feldspars, and micas. Aluminum is always trivalent (as Al^{3+}) and can substitute for ferric iron (Fe^{3+}) in iron oxide minerals. It can also adsorb on iron oxide surfaces (Cornell and Schwertmann, 2003).

Iron has a mean concentration of 7,000 mg/kg in the 48 soil and sediment site samples, and is dominantly present as iron oxides. Iron oxides are common soil-forming minerals and occur as discrete mineral grains or as coatings on silicate minerals (Cornell and Schwertmann, 2003).

Clays and iron oxides tend to exist as very fine particles, so both aluminum and iron are enriched in samples with finer grain sizes. A plot of iron versus aluminum concentrations can be used to qualitatively assess the relative abundance of these minerals in site soil and sediment, as shown in Figure C-1. The 15 site sediment samples are represented by

circles, the 33 site soil samples are represented by squares, and the 37 background soil samples are represented by triangles in the Figure. This figure shows that all three types of samples fall on the same trend in the plot, indicating that all of the samples have similar Al/Fe ratios. It also shows that the sediment samples have higher concentrations of iron and aluminum than the soil samples, even though the As/Fe ratios are similar. These higher concentrations and similar ratios imply that the sediment samples are finer grained and thus contain higher proportions of aluminum-bearing clay and iron oxide minerals relative to the Site and background soil samples.

The Al/Fe ratios can be seen more clearly on Figure C-2, which shows iron concentrations versus Fe/Al ratios for each sample. The fact that the site and background samples have ratios that fall well within one order of magnitude indicates that the site samples do not contain excess aluminum or iron from a contaminant source and that their aluminum and iron concentrations are natural.

Iron is the reference element for the evaluation of arsenic, so these results also indicate that the observed iron concentrations are suitable for use in identifying arsenic sources. As discussed previously, clays and iron oxides have an affinity to adsorb specific trace elements, so samples that are enriched in these minerals are expected to contain naturally high concentrations of trace elements, including arsenic. These are the sediment samples that lie on the upper end of the positive trend in Figure C-1 and the top of the vertical stack in Figure C-2.

Arsenic – Arsenic is known to associate with iron oxide minerals as discussed above. A soil or sediment sample that is naturally enriched in iron oxides is expected to be naturally enriched in arsenic. Figure C-3 provides a plot of arsenic versus iron in the Site and Background samples. The Site and background samples fall on the same general trend, although this trend is less correlated than the iron versus aluminum trend shown in Figure C-1. The sediment samples have higher arsenic as well as iron and aluminum concentrations, which is expected due to their finer grain size distributions.

Figure C-4 provides a ratio plot of the same arsenic and iron results. This perspective reveals that the sediment samples have As/Fe ratios that fall within the range of the background ratios. The consistent As/Fe ratios in the Site samples, and the agreement with the background ratios indicates that the observed arsenic concentrations are most

likely natural, and that the elevated (above SSL) arsenic concentrations are likely due to the finer-grained nature of the sediment samples.

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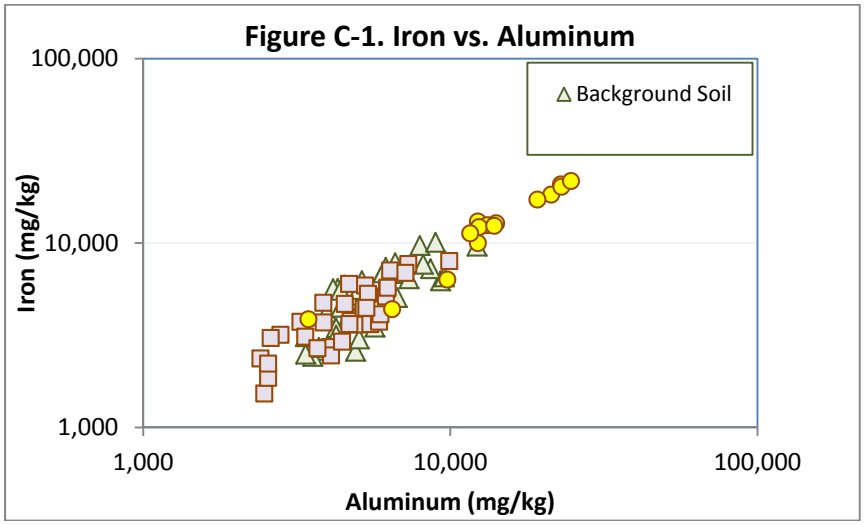
Figure C-1. Iron vs. Aluminum
100,000
10,000
1,000
Iron (mg/kg)
1,000
10,000
100,000
Aluminum (mg/kg)
Background Soil

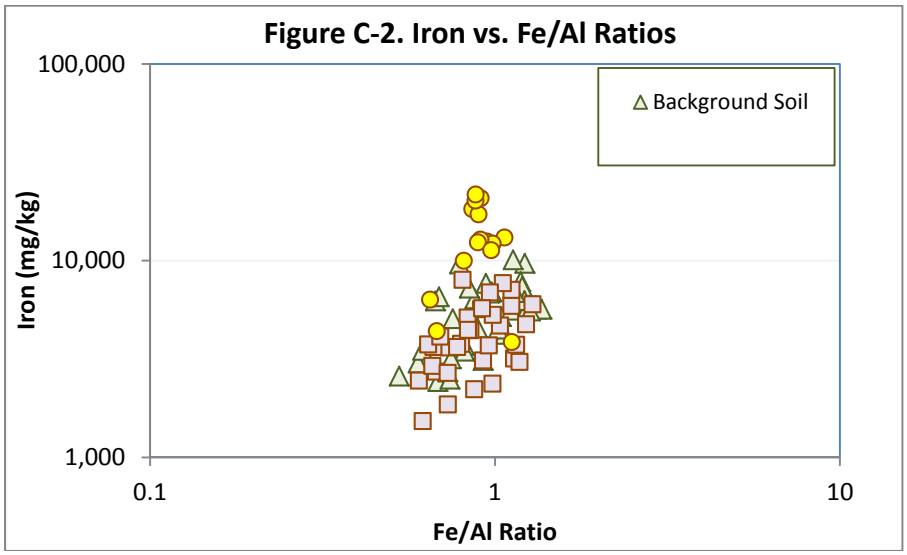
Figure C-2. Iron vs. Fe/Al Ratios
100,000
10,000
1,000
Iron (mg/kg)
0.1
1
10
Fe/Al Ratio
Background Soil

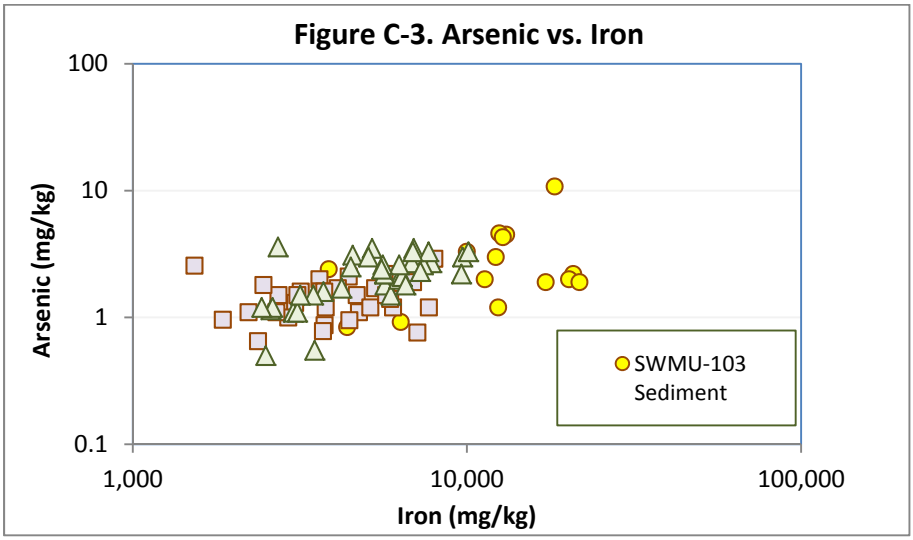
Figure C-3. Arsenic vs. Iron
100
10
1
0.1
Arsenic (mg/kg)
1,000
10,000
100,000
Iron (mg/kg)
SWMU-103 Sediment

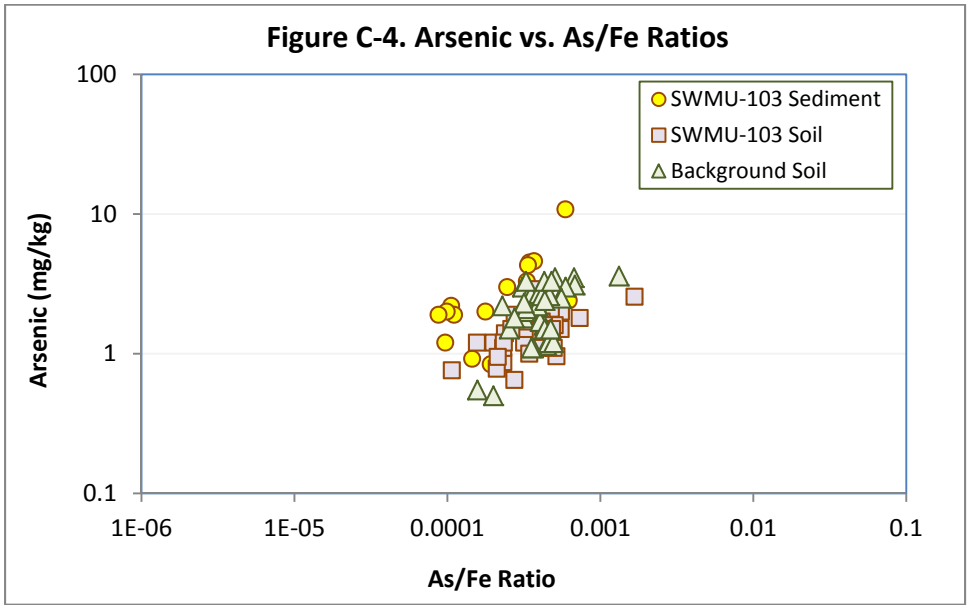
Figure C-4. Arsenic vs. As/Fe Ratios
100
10
1
0.1
Arsenic (mg/kg)
1E-06
1E-05
0.0001
0.001
0.01
0.1
As/Fe Ratio
SWMU-103 Sediment
SWMU-103 Soil
Background Soil