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HAZARDOUS AND SOLID WASTE AMENDMENTS / CORRECTIVE ACTION-RELATED PERMIT MODIFICATION REQUEST

NO FURTHER ACTION PROPOSALS (SWMUs 127, 2, 76)

CANNON AFB, NEW MEXICO PERMIT NO. NM7572124454

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New Mexico Environment Department
Hazardous and Radioactive Materials Bureau

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CARL,

CAFB99

This is just for the purpose of verifying format, not necessarily content. I'll touch base with you soon to ensure we're heading in the right direction

JOHN FIKE

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Appendix A
Appendix B

2.1 SUMMARY

Solid Waste Management Unit (SWMU) 127 consisted of the Sand Trap and Leach Field associated with Facility 4095 (#1), and has been listed as an Appendix III site. A Phase I Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) of the Appendix III sites (W-C 1994a) found elevated levels of metals and organic compounds in the area of SWMU 127. The Phase I RFI report recommended conducting a Baseline Risk Assessment (BRA) at this site.

A BRA of the Appendix III SWMUs (W-C 1994b) found that no unacceptable human health or ecological risks due to chemical releases were expected at this SWMU. Based on this the BRA, no further action was recommended for SWMU 127.

A Phase II RFI of the Appendix III sites conducted in 1997 also found elevated levels of metals and organic compounds in the area of this SWMU. However, the report documenting this investigation noted that none of the concentrations of metals or organics exceeded the U.S. Environmental Protection Agency (USEPA) target risk range. The Phase II RFI report recommended no further investigation at this site.

The results of the human health and ecological risk evaluations conducted during the Corrective Measures Study (CMS) at SWMU 127 indicated no unacceptable risk to human health and the environment. Based on the maximum concentrations of chemicals of concern detected, and the results of vadose zone fate and transport modeling at SWMU 127, a no further action alternative was recommended.

The conclusions reached in the BRA, the Phase II RFI, and the CMS were consistent in recommending no further work at this site. Therefore, No Further Response Action Planned is warranted for SWMU 127, and this site should be removed from the Cannon Air Force Base (AFB) RCRA permit.

2.2 SITE DESCRIPTION AND OPERATIONAL HISTORY

2.2.1 Site Description

This SWMU consisted of a 135-gallon concrete sand trap and leach field that received wash water from the POL refueling truck wash rack at Facility 4095. The sand trap measured 2.5 feet by 4.5 feet in plan and extended approximately 3.5 feet below the pavement. The sand trap discharged to a rectangular leach field approximately 300 square feet in size, located approximately 60 feet east of the wash rack. There are no aboveground or underground tanks located at Facility 4095.

2.2.2 Operational History

The sand trap became active in 1977. However, the leach field ceased to function in the late 1980s. The old leach field was bypassed and an oil/water separator (OWS) enclosed in a concrete vault was subsequently installed in line with the wash rack's drainpipe and downstream

from the sand trap in 1991. The original leach field remains in place, but is no longer used. Wastewater now drains to a new leach field approximately 40 feet southeast of the wash rack. Potential contaminants include JP-4 fuel and oil and grease. The OWS vault was inspected as part of the Phase I RFI. The unit consists of a three-compartment steel tank with clean-out access for each compartment. No evidence of any leakage or spillage was found, and the OWS should not be considered part of SWMU 127.

2.3 LAND USE

2.3.1 Current

The wash rack sand trap continues to receive heavy usage. The wastewater from the OWS discharges to a new leach field located northeast of the former leach field, and recovered petroleum products are temporarily stored in the OWS for future recycling.

2.3.2 Future/Proposed

Cannon AFB is an integral part of the defense system of the United States; therefore, the Base will remain active for the foreseeable future. However, it is possible that a change in the flying mission of Cannon AFB could result in the closure of SWMU 127.

2.4 INVESTIGATIVE ACTIVITIES

2.4.1 Summary

A Phase I RFI of the Appendix III sites (W-C 1994a) found elevated levels of metals and organic compounds in the area of SWMU 127. A BRA of the Appendix III SWMUs (W-C 1994b) found that no unacceptable human health or ecological risks due to chemical releases are expected at this SWMU. A Phase II RFI of the Appendix III sites conducted in 1997 also found elevated levels of metals and organic compounds in the area of this SWMU. The results of the human health and ecological risk evaluations conducted during the CMS at SWMU 127 indicate there is no unacceptable risk to human health and the environment.

2.4.2 Investigation #1: RCRA Facility Investigation (RFI), Appendix III SWMUs – Phase I

2.4.2.1 Non-Sampling Data Collection

The Phase I RFI was purely a field investigation and data collection effort. Therefore, there was not any nonsampling data collected during this investigation.

2.4.2.2 Sampling Data Collection

A total of eight borings were installed (boring locations are shown in Figure 2-1) during the Phase I RFI. Two 10-foot borings were drilled through holes cut in the concrete wash rack to sample the soil beneath the pad. Soil samples were collected from the 0.5- to 2-foot, 2- to 4-foot, 4- to 6-foot, and 8- to 10-foot depth intervals to characterize the vertical distribution of potential

contaminants. Minor visual and olfactory indications of contamination, probably attributable to spillage of JP-4 jet fuel on the wash rack, were found in the soils directly beneath the concrete pad.

One 60-foot boring was drilled adjacent to the OWS and five 60-foot borings were drilled within the new and abandoned leach fields. Soil samples were collected from the surface and from the 1.5- to 3.5-foot, 4- to 6-foot, 8- to 10-foot, 18- to 20-foot, 28- to 30-foot, 38- to 40-foot, 48- to 50-foot, and 58- to 60-foot depth intervals to characterize the vertical distribution of potential leachate contaminants percolating into the soil. Odors indicating subsurface contamination beyond the wash rack were encountered during the drilling of Boring 12708, located in the new leach field.

Target analytes for all borings included volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), metals, and total recoverable petroleum hydrocarbons (TRPH). Surficial samples were collected from directly beneath the concrete wash rack and from the 0.2- to 0.5-foot depth interval in areas with plant cover to provide surface soil data for risk assessment purposes.

2.4.2.3 Data Gaps

It was concluded that the data available from this investigation was sufficient to complete a BRA. In addition, the data quality was deemed to be sufficient to meet the objectives of the Phase I RFI. Therefore, no data gaps exist after the completion of the Phase I RFI.

2.4.2.4 Results and Conclusions

Six organic compounds and three metals were found at levels exceeding the corresponding risk-based concentrations (RBCs). The highest concentrations of organics and metals were detected in near-surface samples. The vertical extent of contamination was characterized by the soil borings. The analytical results from this investigation are shown in Tables 2-1a and 2-1b.

Groundwater was not investigated because the potential impacts to groundwater were considered minimal. The potential was considered minimal since the depth to groundwater is greater than 250 feet, and the soil sampling results demonstrate that contaminants are not being transported significantly in a vertical direction beneath the SWMU.

The Phase I RFI recommended completing a BRA for SWMU 127.

2.4.3 Investigation #2: Baseline Risk Assessment (BRA) for Appendix III SWMUs – Phase I

2.4.3.1 Non-Sampling Data Collection

No additional data was collected as part of the BRA. However, a human health and ecological risk assessment that considered both present and future potential receptors and all appropriate exposure pathways was performed on the data collected during the Phase I RFI.

2.4.3.2 Sampling Data Collection

No data was collected during the BRA.

2.4.3.3 Data Gaps

It was concluded that the data collected during the Phase I RFI was sufficient to complete a BRA. In addition, the data quality was deemed to be sufficient to meet the objectives of the Phase I RFI and the BRA. Therefore, no data gaps exist.

2.4.3.4 Results and Conclusions

Potential receptors at SWMU 127 for human health risks included occupational workers, hypothetical future construction workers, and hypothetical future trespassers. The receptors were assumed to be exposed to soil via ingestion, dermal contact, and inhalation pathways. The maximum potential excess human risk at SWMU 127 was 2×10^{-5} for occupational workers. This level fell within the USEPA's target risk range of 1×10^{-6} to 1×10^{-4} for risk from releases at hazardous waste sites, and indicated that no unacceptable risk was expected. The primary contributor to the risk was ingestion of polynuclear aromatic hydrocarbons (PAHs) in surface soils. The concentrations of chemicals of concern identified during the BRA are shown in Table 2-2a and 2-2b. A summary of human health risks at SWMU 127 are shown in Table 2-2c.

Analytical data for soils was collected during the Phase I RFI, and fate and transport modeling was conducted to evaluate air and groundwater pathways for contaminants detected at SWMU 127. Both pathways were considered insignificant.

Based on the results of the BRA, no unacceptable human health or ecological risks due to chemical releases were expected from this SWMU. Therefore, no further response action was recommended at this SWMU.

2.4.4 Investigation #3: RFI, Appendix III SWMUs – Phase II

2.4.4.1 Non-Sampling Data Collection

The purpose of the Phase II RFI was to further characterize the nature and extent of contamination in the area of SWMU 127. In addition, the Phase II included a risk screening to verify whether the recommendation for no further action based on the BRA was appropriate for SWMU 127.

2.4.4.2 Sampling Data Collection

A total of eight borings were installed (boring locations are shown in Figure 2-2) during the Phase II RFI. Two borings to depths of 10 feet were drilled at the location of the POL wash rack. Three borings to depths of 60 feet were drilled in the area of the historic leach field and three borings to 60 feet were drilled in the area of the new leach field. The boring locations were chosen to further assess the lateral presence and extent of site-related soil contaminants.

Surface soil samples from all borings were collected from 0 to 0.5 feet. All eight borings were also sampled at intervals of 3 to 5 and 8 to 10 feet. Other samples collected from the 60-foot borings included depths of 13 to 15 feet, 18 to 20 feet, 23 to 25 feet, 28 to 30 feet, 33 to 35 feet, 38 to 40 feet, 48 to 50 feet, and 58 to 60 feet. Target analytes included VOCs, SVOCs, metals, and TRPH.

2.4.4.3 Data Gaps

Sufficient data was collected during the Phase II RFI to further characterize the nature and extent of contamination and conduct a risk screening at this SWMU. There were no sampling issues associated with the Phase II RFI that adversely affected data usability. In addition, the analytical data was judged acceptable for determining the nature and extent of contamination in the area of SWMU 127, and for completing the human health risk screening. Therefore, no data gaps exist.

2.4.4.4 Results and Conclusions

The Phase II RFI sampling results confirmed that contamination in the area of SWMU 127 is confined mainly to shallow soils. The New Mexico Environment Department (NMED) action levels for BTEX and benzene were not exceeded, but the maximum concentration of TRPH (11,600 mg/kg) did exceed the corresponding NMED action level of 1,000 mg/kg. However, TRPH was not detected in the 58- to 60-foot interval in any of the borings. Based on the fact that the depth to groundwater at Cannon AFB is greater than 250 feet, it was determined to be unlikely that the TRPH would impact the site groundwater.

Eight metals detected during the Phase II RFI exceeded the background levels, and six of these metals exceeded the levels detected during the Phase I.

Seventeen organic compounds were also detected at levels exceeding the concentrations detected during the Phase I RFI. However, only one compound, dibenzo(a,h)anthracene, exceeded the residential soil RBCs. The risk posed by the maximum detected concentration of this compound was estimated at 3×10^{-6}, a level within the acceptable USEPA target risk range of 1×10^{-6} to $1 \times 10\text{-}^{4}$ for exposure to chemicals released from hazardous waste sites. The analytical results from this investigation are shown in Tables 2-3a, 2-3b, 2-3c, and 2-3d.

Because there were no unacceptable health risks associated with SWMU 127, the Phase II RFI recommended that no further investigation was necessary for this SWMU.

2.4.5 Investigation #4: Corrective Measures Study (CMS) at SWMU 127

2.4.5.1 Non-Sampling Data Collection

The mathematical models used included the Hydrologic Evaluation of Landfill Performance (HELP) Model, Version 3.01 (Schroeder et al. 1994) and the Multimedia Exposure Assessment Model (MULTIMED) Version 2.00 (Salhorta et al. 1995). The models were applied to a conceptual vadose zone model of SWMU 127 to evaluate the potential for contaminants detected in the soil above the media-specific screening levels (MSSLs) to be transported to underlying groundwater.

2.4.5.2 Sampling Data Collection

No data was collected during the CMS.

2.4.5.3 Data Gaps

The data collected during the previous investigations was sufficient to perform human health and ecological risk evaluations and to evaluate the results of the vadose zone fate and transport modeling. Therefore, no data gaps exist.

2.4.5.4 Results and Conclusions

Results of the human health and ecological risk evaluations indicated that there was no unacceptable risk to human health and the environment based on the maximum detected concentrations of chemicals of concern in the soil at SWMU 127. In addition, results of the vadose zone fate and transport modeling showed, assuming sorption, dispersion, and biodegradation occurred, that the chemicals of concern would not reach groundwater above the maximum allowable concentrations for drinking water. The risk evaluations combined with the modeling were used to determine that the no further action alternative would be protective of human health and the environment at the lowest cost.

2.5 SITE CONCEPTUAL MODEL

2.5.1 Nature and Extent of Contamination

The Phase I and Phase II RFIs conducted at SWMU 127 found organic compounds and metals at levels of potential concern. A total of 16 borings (4 to depths of 10 feet and 12 to depths of 60 feet) were installed during the two phases of the RFIs to effectively delineate the horizontal extent of contamination. The highest concentrations of organics and metals were detected in near-surface samples. The vertical extent of contamination was characterized by the soil borings.

Groundwater at SWMU 127 was not investigated because the potential impacts to groundwater were considered minimal. The potential was considered minimal since the depth to groundwater is greater than 250 feet, and the soil sampling results demonstrate that contaminants were not being transported significantly in a vertical direction beneath the SWMU.

2.5.2 Environmental Fate

Because chemicals were detected in soil at levels above MSSLs at SWMU 127, the fate and transport of contaminants in the vadose zone was modeled as part of the CMS to evaluate the potential for contaminants in soil to be transported to underlying groundwater.

The mathematical models HELP and MULTIMED were applied to a conceptual vadose zone model of SWMU 127. The HELP model was used to estimate a net infiltration rate for input into

MULTIMED. MULTIMED was then used to model contaminant migration through the vadose zone to the water table.

The modeling results, which assumed that sorption, dispersion, and biodegradation would have occurred, predicted that the chemicals of concern would not reach groundwater above the allowable concentrations for drinking water. The calculation and the model-predicted concentrations are shown in Tables 2-4a and 2-4b, respectively.

2.6 SITE ASSESSMENTS

2.6.1 Summary

A BRA was conducted based on the results of the Phase I RFI for SWMU 127. Based on the results of the BRA, no unacceptable human health or ecological risks due to chemical releases were expected from this SWMU. Therefore, no further response action was recommended for SWMU 127.

A CMS was then conducted based on the results of the Phase I and II RFIs for SWMU 127. The results of the CMS are discussed below.

2.6.2 Screening Assessments

2.6.2.1 Human Health

For the Tier 1 evaluation, the maximum concentrations of chemicals of potential concern (COPCs) detected during the Phase I and II RFIs were compared to the USEPA Region VI Residential MSSLs as part of the CMS. The comparison is shown in Table 2-4b. Benzene, xylenes, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene all exceeded the Tier 1 values. Therefore, these six chemicals were considered the chemicals of concern (COCs) at SWMU 127 and a Tier 2 evaluation was performed (see Section 2.6.3.1).

2.6.2.2 Ecological

SWMU 127 encompassed a fenced area of mowed grass. It was maintained as a near monoculture of grass and there was limited forage and biomass production. Therefore, it was not expected to be ecologically significant – nor would any such forage be considered attractive to native (relevant) New Mexico species. Based on this, SWMU 127 did not contain any significant ecological component such that a formal ecological risk assessment was warranted.

2.6.3 Risk Assessments

2.6.3.1 Human Health

For the Tier 2 evaluation, site-specific target levels (SSTLs) were developed for the COCs using the RBCA Tool Kit for Chemical Releases (Groundwater Services, Inc. 1999). These Tier 2 evaluations assumed a more realistic industrial exposure to the COCs. The SSTLs for each of

the six COCs at SWMU 127, along with the maximum detected concentrations of the COCs, are shown in Table 2-4c. The maximum detected concentrations of benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene exceeded the corresponding SSTLs; the other COCs were below the corresponding SSTLs. The maximum concentrations of each of the three chemicals that exceeded the SSTLs were each detected during the Phase I RFI. Therefore, each of these detections were addressed by the BRA. The BRA included both human health and ecological risk evaluations and concluded that the risk was within USEPA acceptable levels.

Results of the human health risk evaluation indicated that there was no unacceptable risk to human health based on the maximum detected concentrations of COCs in soil at SWMU 127. In addition, results of the vadose zone fate and transport modeling showed, assuming sorption, dispersion, and biodegradation occurred, that the chemicals of concern would not reach groundwater above the allowable concentrations for drinking water. The risk evaluation, combined with the modeling, was used to determine that the no further action alternative would be protective of human health and the environment at the lowest cost.

2.6.3.2 Ecological

Based on the conclusions of the ecological risk screening, SWMU 127 did not contain any significant ecological component such that a formal ecological risk assessment was warranted.

2.6.4 Other Applicable Assessments

2.6.4.1 Surface Water

SWMU 127 contained no surface water.

2.6.4.2 Ground Water

Groundwater at Cannon AFB has been located at a depth greater than 250 feet; as such, this SWMU contained no means for groundwater discharges to occur.

2.6.4.3 Underground Storage Tanks (USTs)

There have never been any underground storage tanks (USTs) located at SWMU 127.

2.6.4.4 Other

No other assessments have been conducted in the area of SWMU 127.

2.7 NO FURTHER ACTION PROPOSAL

2.7.1 Rationale

Based on the conclusions reached in the BRA, the Phase II RFI and the CMS, no further response action has been recommended for SWMU 127.

2.7.2 Criterion

SWMU 127 is proposed for no further action based on NMED NFA Criterion 5: The SWMU has been characterized in accordance with the current applicable state and federal regulations, and the available data has indicated that the contaminants present pose an acceptable level of risk under current and projected future land use.

TABLE 2-1a
SUMMARY OF CHEMICALS REPORTED FOR NEAR-SURFACE SOIL SAMPLES COLLECTED FROM SWMU 31

LOCATOR	CAN031-0311-0000			CAN031-0311-0002			CAN031-0312-0000			CAN031-0312-0002			CAN031-0313-0000			CAN031-0313-0002		
LAB SAMPLE NUMBER	0311830016SA			0311830017SA			0311830010SA			0311830011SA			0311830002SA			0311830003SA		
COLLECT DATE	09/12/93			09/12/93			09/12/93			09/12/93			09/12/93			09/12/93		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (ug/kg)																		
Tetrachloroethene										<	5.6	U	3.6	6.1				
Semivolatile Organics (ug/kg)																		
Anthracene	600	4100	J							<	370	U	<	8000	U	<	390	U
Benzo(a)anthracene	2400	4100	J							<	370	U	<	8000	U	<	390	U
Benzo(a)pyrene	2700	4100	J							<	370	U	<	8000	U	<	390	U
Benzo(b)fluoranthene	5600	4100								65	370	J	<	8000	U	<	390	U
Benzo(g,h,i)perylene	2600	4100	J							<	370	U	<	8000	U	<	390	U
Carbazole	500	4100	J							<	370	U	<	8000	U	<	390	U
Chrysene	3100	4100	J							<	370	U	<	8000	U	<	390	U
Fluoranthene	5600	4100								55	370	J	<	8000	U	<	390	U
Indeno(1,2,3-cd)pyrene	2300	4100	J							<	370	U	<	8000	U	<	390	U
2-Methylnaphthalene	<	4100	U							45	370	J	<	8000	U	<	390	U
Phenanthrene	3200	4100	J							44	370	J	<	8000	U	<	390	U
Pyrene	4600	4100								44	370	J	<	8000	U	<	390	U
Metals (mg/kg)																		
Aluminum	5660	12.5		4160	24.1		4260	10.5		5430	11.2		6650	12.2		5740	11.7	
Antimony	1.9	7.5	J	<	14.4	U	<	6.3	U	<	6.7	U	<	7.3	U	<	7	U
Arsenic	3.2	0.62		2.3	0.6		2.4	0.52		2.9	0.56		4.4	0.61		2.2	0.59	
Barium	1460	1.2	J	120	2.4	J	166	1	J	201	1.1	J	229	1.2	J	119	1.2	J
Beryllium	0.36	0.25		0.26	0.48	J	0.22	0.21		0.27	0.22		0.25	0.24		0.25	0.23	

(1) Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Appendix A.

J = Estimated value.
R = Rejected value. QUAL=Qualification
U = Nondetected value. RL = Reporting Limit.

TABLE 2-1a
SUMMARY OF CHEMICALS REPORTED FOR NEAR-SURFACE SOIL SAMPLES COLLECTED FROM SWMU 31

LOCATOR	CAN031-0311-0000			CAN031-0311-0002			CAN031-0312-0000			CAN031-0312-0002			CAN031-0313-0000			CAN031-0313-0002		
LAB SAMPLE NUMBER	0311830016SA			0311830017SA			0311830010SA			0311830011SA			0311830002SA			0311830003SA		
COLLECT DATE	09/12/93			09/12/93			09/12/93			09/12/93			09/12/93			09/12/93		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Cadmium	8.7	0.62		<	1.2	U	0.85	0.52		0.63	0.56		4.4	0.61		<	0.59	U
Calcium	6270	25		205000	48.1		48600	20.9		94400	22.3		42400	24.4		108000	23.4	
Chromium	130	1.2		4.2	2.4		9.9	1	J	8	1.1	J	24.3	1.2		6	1.2	
Cobalt	3.4	1.2		2.3	2.4	J	2.6	1		3.2	1.1		3.5	1.2		3.2	1.2	
Copper	61.4	2.5		2.7	4.8	J	9.3	2.1		10.9	2.2		18.8	2.4		4.7	2.3	
Iron	7150	12.5		3290	24.1		5570	10.5		6420	11.2		7950	12.2		5470	11.7	
Lead	930	125		3.5	1.2		46.9	5.2		22.3	5.6		77.7	6.1		4.7	0.59	
Magnesium	1150	25		2450	48.1		1810	20.9		2210	22.3		2310	24.4		1940	23.4	
Nickel	7.2	5		4.9	9.6	J	5.8	4.2		6.9	4.5		6.8	4.9		5.7	4.7	
Potassium	867	625		666	1200	J	1100	523		954	558		1550	610		998	586	
Selenium	<	1.2	UJ	<	1.2	UJ	<	1	UJ	<	1.1	UJ	0.24	1.2	J	<	1.2	UJ
Sodium	<	625	U	<	1200	U	<	523	U	<	558	U	193	610	J	<	586	U
Vanadium	13.8	1.2		10.4	2.4		13.8	1		17.1	1.1		16.6	1.2		13.1	1.2	
Zinc	479	2.5		9.2	4.8		57	2.1		33.5	2.2		85.8	2.4		12.6	2.3	
TPH (mg/kg)																		
Total Petroleum Hydrocarbons	3180	500		<	48.1	U	973	209		81	44.6		4070	488		<	46.9	U

(1) Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Appendix A.
J = Estimated value.
R = Rejected value. QUAL=Qualification
U = Nondetected value. RL = Reporting Limit.

TABLE 2-1a
SUMMARY OF CHEMICALS REPORTED FOR NEAR-SURFACE SOIL SAMPLES COLLECTED FROM SWMU 31

LOCATOR	CAN031-0314-0000			CAN031-0314-0002		
LAB SAMPLE NUMBER	0311830006SA			0311830008SA		
COLLECT DATE	09/12/93			09/12/93		
	Result	RL	Qual	Result	RL	Qual
Volatile Organics (ug/kg)						
Tetrachloroethene				<	5.8	U
Semivolatile Organics (ug/kg)						
Anthracene				<	380	U
Benzo(a)anthracene				<	380	U
Benzo(a)pyrene				<	380	U
Benzo(b)fluoranthene				<	380	U
Benzo(g,h,i)perylene				<	380	U
Carbazole				<	380	U
Chrysene				<	380	U
Fluoranthene				<	380	U
Indeno(1,2,3-cd)pyrene				<	380	U
2-Methylnaphthalene				<	380	U
Phenanthrene				<	380	U
Pyrene				<	380	U
Metals (mg/kg)						
Aluminum	9430	11.7		6090	11.7	J
Antimony	<	7	U	<	7	U
Arsenic	4.6	0.59		2.6	0.58	
Barium	104	1.2	J	107	1.2	J
Beryllium	0.69	0.23		0.34	0.23	

(1) Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Appendix A.
J = Estimated value.
R = Rejected value. QUAL=Qualification
U = Nondetected value. RL = Reporting Limit.

TABLE 2-1a
SUMMARY OF CHEMICALS REPORTED FOR NEAR-SURFACE SOIL SAMPLES COLLECTED FROM SWMU 31

LOCATOR	CAN031-0314-0000			CAN031-0314-0002		
LAB SAMPLE NUMBER	0311830006SA			0311830008SA		
COLLECT DATE	09/12/93			09/12/93		
	Result	RL	Qual	Result	RL	Qual
Cadmium	<	0.59	U	<	0.58	U
Calcium	4200	23.5		71300	23.3	J
Chromium	11.8	1.2		6.4	1.2	
Cobalt	5.1	1.2		3.2	1.2	
Copper	7.6	2.3		5.2	2.3	J
Iron	10700	11.7		6030	11.7	J
Lead	9.4	0.59		6.9	1.2	J
Magnesium	2130	23.5		1760	23.3	
Nickel	9.7	4.7		7	4.7	
Potassium	1610	587		1110	583	J
Selenium	0.15	1.2	J	0.16	1.2	J
Sodium	<	587	U	<	583	U
Vanadium	21.2	1.2		13.3	1.2	
Zinc	29.8	2.3		13.2	2.3	
TPH (mg/kg)						
Total Petroleum Hydrocarbons	<	46.9	U	<	46.6	U

(1) Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Appendix A.
J = Estimated value.
R = Rejected value. QUAL=Qualification
U = Nondetected value. RL = Reporting Limit.

TABLE 2-1b
SUMMARY OF CHEMICALS REPORTED FOR SUBSURFACE SOIL SAMPLES COLLECTED FROM SWMU 31

LOCATOR	CAN031-0311-0004			CAN031-0311-0008			CAN031-0312-0004			CAN031-0312-0008			CAN031-0313-0004			CAN031-0313-0008		
LAB SAMPLE NUMBER	0311830018SA			0311830001SA			0311830014SA			0311830015SA			0311830004SA			0311830005SA		
COLLECT DATE	09/12/93			09/12/93			09/12/93			09/12/93			09/12/93			09/12/93		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																		
Aluminum	7690	11.8		3210	11.2		4210	23.5		5820	11.4		4090	23.3		5460	11.4	
Arsenic	2.4	0.59		1.1	0.56		2.2	0.59		2.6	0.57		2.7	0.58		3	0.57	
Barium	81.2	1.2	J	327	1.1	J	273	2.4	J	237	1.1	J	130	2.3	J	411	1.1	J
Beryllium	0.29	0.24		<	0.22	U	<	0.47	U	0.35	0.23		0.24	0.47	J	0.53	0.23	
Calcium	22900	23.6		60300	22.4		217000	47		68100	22.9		142000	46.6		50700	22.8	
Chromium	8.2	1.2		3.8	1.1		6.5	2.4		6.1	1.1		4.9	2.3		6.1	1.1	
Cobalt	4.4	1.2		1.7	1.1		2.4	2.4		3.1	1.1		2.5	2.3		3	1.1	
Copper	5.9	2.4		2.2	2.2		3.6	4.7	J	3.8	2.3		2.7	4.7	J	3.6	2.3	
Iron	8140	11.8		3320	11.2		3930	23.5		5900	11.4		4050	23.3		5580	11.4	
Lead	6.7	1.2		4.5	1.1		5.4	0.59		6.6	0.57		4	0.58		5.8	1.1	
Magnesium	2000	23.6		2200	22.4		3250	47		3970	22.9		2500	46.6		2960	22.8	
Nickel	7.4	4.7		3.6	4.5	J	5.7	9.4	J	6.3	4.6		5.9	9.3	J	6.5	4.6	
Potassium	1450	590		892	560		688	1180		1090	572		762	1170		1140	570	
Selenium	<	1.2	UJ	0.12	1.1	J	<	1.2	UJ	<	1.1	UJ	<	1.2	UJ	<	1.1	UJ
Vanadium	16.4	1.2		11.2	1.1		14	2.4		23.4	1.1		15.4	2.3		22.6	1.1	
Zinc	18.8	2.4		8	2.2	J	9.6	4.7		12.9	2.3		9.8	4.7		12.1	2.3	

NOTE: Results presented here are only those chemicals which were detected at least once in near-surface soils at this SWMU and have passed data review.
A complete summary of chemical results are presented in Appendix A.
J = Estimated value.
R = Rejected value. RL = Reporting Limit.
U = Nondetected value. Qual = Qualifier

TABLE 2-1b
SUMMARY OF CHEMICALS REPORTED FOR SUBSURFACE SOIL SAMPLES COLLECTED FROM SWMU 31

LOCATOR	CAN031-0314-0004			CAN031-0314-0008		
LAB SAMPLE NUMBER	0311830009SA			0311830019SA		
COLLECT DATE	09/12/93			09/12/93		
	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)						
Aluminum	4830	23.5		2160	23.3	
Arsenic	3.1	0.59		1.5	0.58	
Barium	1130	2.4	J	143	2.3	J
Beryllium	<	0.47	U	<	0.47	U
Calcium	156000	47		222000	46.5	
Chromium	4.5	2.4		2.3	2.3	
Cobalt	2.4	2.4		<	2.3	U
Copper	2.5	4.7	J	1.5	4.7	J
Iron	4570	23.5		1680	23.3	
Lead	4.1	0.59		1.9	0.58	
Magnesium	3390	47		2920	46.5	
Nickel	6.2	9.4	J	3.6	9.3	J
Potassium	844	1180	J	<	1160	U
Selenium	<	1.2	UJ	<	1.2	UJ
Vanadium	18.7	2.4		6	2.3	
Zinc	11.9	4.7		5.6	4.7	

NOTE: Results presented here are only those chemicals which were detected at least once in near-surface soils at this SWMU and have passed data review.
A complete summary of chemical results are presented in Appendix A.

J = Estimated value.
R = Rejected value. RL = Reporting Limit.
U = Nondetected value. Qual = Qualifier

TABLE 2-2a

CONCENTRATIONS OF CHEMICALS OF CONCERN IN SURFACE SOILS AT POL WASH RACK (SWMU 127)

	1,2-Dichloroethane (µg/kg)			1,2-Dichloropropane (µg/kg)				Toluene (µg/kg)				Xylenes (total) (µg/kg)				Acenaphthene (µg/kg)		
Field ID	Result	Qual	RL	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL	Result	Qual	RL
CAN127-1271-0000		U	5.8	2.9	1.065	U	5.8	2.9	1.065	U	5.8	2.9	1.065	U	5.8		U	380
CAN127-1272-0000		U	5.8	2	0.693	U	5.8	2.9	1.065	U	5.8	2.9	1.065	U	5.8		U	380
CAN127-1273-0000		U	5.2	2.6	0.956	U	5.2	12	2.485		5.2	3.4	1.224		5.2		U	350
CAN127-1274-0000		U	5.5	2.75	1.012	U	5.5	2.3	0.833	J	5.5	1.5	0.405	J	5.5		U	370
CAN127-1275-0000		U	5.2	4.6	1.526		5.2	5.2	1.649		5.2	2.6	0.956	U	5.2	150	J	1400
CAN127-1276-0000	1.9	J	5.2	2.6	0.956	U	5.2	15	2.708		5.2	12	2.485		5.2		U	340
CAN127-1277-0000		U	5.3	2.65	0.975	U	5.3	5.5	1.705	J	5.3	5.9	1.775		5.3		U	350
CAN127-1278-0000		U	5.3	2.65	0.975	U	5.3	2.65	0.975	U	5.3	2.65	0.975	U	5.3		U	1400
Number	1			8	8			8	8			8	8			1		
Minimum detected	1.90			4.60				2.30				1.50				150		
Maximum detected	1.90			4.60				15.0				12.0				150		
Average	1.90			2.84	1.02			6.06	1.56			4.23	1.24			150		
H statistic					2.00				2.85				2.64					
Standard Deviation				0.76	0.23			4.81	0.71			3.38	0.63					
95% UCL				3.39	3.39			13.3	13.3			7.89	7.89					
RME	1.9			3.39				13.3				7.89				150		

RL = Laboratory reporting limit

RME = Lower of 95% UCL or maximum detected. 95% UCL concentrations were not calculated for sample sets with n < 3.

J = Estimated value below reporting limit or estimated based on data quality criteria

U = Not detected. Value shown is one-half RL

Where no RL is shown, no analysis was performed

TABLE 2-2a

CONCENTRATIONS OF CHEMICALS OF CONCERN IN SURFACE SOILS AT POL WASH RACK (SWMU 127)

	Anthracene (µg/kg)			Benzo(a)anthracene (µg/kg)				Benzo(a)pyrene (µg/kg)				Benzo(b)fluoranthene (µg/kg)				Carbazole (µg/kg)			
Field ID	Result	Qual	RL	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL
CAN127-1271-0000		U	380	190	5.247	U	380	190	5.247	U	380	190	5.247	U	380	190	5.247	U	380
CAN127-1272-0000		U	380	190	5.247	U	380	190	5.247	U	380	190	5.247	U	380	190	5.247	U	380
CAN127-1273-0000	48	J	350	510	6.234		350	550	6.310		350	960	6.867		350	46	3.829	J	350
CAN127-1274-0000		U	370	83	4.419	J	370	120	4.787	J	370	270	5.598	J	370	185	5.220	U	370
CAN127-1275-0000		U	1400	8000	8.987		1400	8600	9.060		1400	17000	9.741		1400	1500	7.313		1400
CAN127-1276-0000		U	340	160	5.075	J	340	230	5.438	J	340	410	6.016		340	170	5.136	U	340
CAN127-1277-0000		U	350	190	5.247	J	350	180	5.193	J	350	390	5.966		350	175	5.165	U	350
CAN127-1278-0000		U	1400	150	5.011	J	1400	180	5.193	J	1400	380	5.940	J	1400	700	6.551	U	1400
Number	1			8	8			8	8			8	8			8	8		
Minimum detected	48.0			83.0				120				270				46.0			
Maximum detected	48.0			8000				8600				17000				1500			
Average	48.0			1184	5.68			1280	5.81			2474	6.33			395	5.46		
H statistic					4.77				4.43				4.77				3.74		
Standard Deviation				2757	1.42			2961	1.38			5875	1.47			487.4	1.04		
95% UCL				10587	10587			8781	8781			23580	23580			1780	1780		
RME	48.0			8000				8600				17000				1500			

RL = Laboratory reporting limit

RME = Lower of 95% UCL or maximum detected. 95% UCL concentrations were not calculated for sample sets with n < 3.

J = Estimated value below reporting limit or estimated based on data quality criteria

U = Not detected. Value shown is one-half RL

Where no RL is shown, no analysis was performed

TABLE 2-2a

CONCENTRATIONS OF CHEMICALS OF CONCERN IN SURFACE SOILS AT POL WASH RACK (SWMU 127)

	Chrysene (µg/kg)				Fluoranthene (µg/kg)				Fluorene (µg/kg)				Indeno(1,2,3-cd)pyrene (µg/kg)			
Field ID	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL
CAN127-1271-0000	190	5.247	U	380	190	5.247	U	380	190	5.247	U	380	190	5.2470241	U	380
CAN127-1272-0000	190	5.247	U	380	190	5.247	U	380	190	5.247	U	380	190	5.2470241	U	380
CAN127-1273-0000	720	6.579		350	1500	7.313		350	175	5.165	U	350	390	5.9661467		350
CAN127-1274-0000	210	5.347	J	370	300	5.704	J	370	185	5.220	U	370	68	4.2195077	J	370
CAN127-1275-0000	14000	9.547		1400	17000	9.741		1400	290	5.670	J	1400	5100	8.5369958		1400
CAN127-1276-0000	300	5.704	J	340	570	6.346		340	170	5.136	U	340	160	5.0751738	J	340
CAN127-1277-0000	240	5.481	J	350	470	6.153		350	175	5.165	U	350	93	4.5325995	J	350
CAN127-1278-0000	260	5.561	J	1400	440	6.087	J	1400	700	6.551	U	1400	700	6.5510803	U	1400
Number	8	8			8	8			8	8			8	8		
Minimum detected	210				300				290				68.0			
Maximum detected	14000				17000				290				5100			
Average	2014	6.09			2583	6.48			259	5.43			861	5.67		
H statistic		4.77				4.77				2.36				4.43		
Standard Deviation	4846	1.46			5841	1.48			182	0.49			1725	1.37		
95% UCL	17920	17920			27726	27726			394	394			7420	7420		
RME	14000				17000				290				5100			

RL = Laboratory reporting limit

RME = Lower of 95% UCL or maximum detected. 95% UCL concentrations were not calculated for sample sets with n < 3.

J = Estimated value below reporting limit or estimated based on data quality criteria

U = Not detected. Value shown is one-half RL

Where no RL is shown, no analysis was performed

TABLE 2-2a

CONCENTRATIONS OF CHEMICALS OF CONCERN IN SURFACE SOILS AT POL WASH RACK (SWMU 127)

	Pyrene (mg/kg)				TPH (mg/kg)				Antimony (mg/kg)				Cadmium (mg/kg)			
Field ID	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL
CAN127-1271-0000	190	5.247	U	380	23.05	3.138	U	46.1	3.45	1.238	U	6.9	0.29	-1.238	UJ	0.58
CAN127-1272-0000	190	5.247	U	380	93.2	4.535		46.3	3.45	1.238	U	6.9	1.1	0.095		0.58
CAN127-1273-0000	1400	7.244		350	66.8	4.202		41.9	3.45	1.238	U	6.3	0.26	-1.347	U	0.52
CAN127-1274-0000	230	5.438	J	370	253	5.533		44.3	3.3	1.194	U	6.6	0.49	-0.713	J	0.55
CAN127-1275-0000	17000	9.741		1400	344	5.841		83.9	7.8	2.054		6.3	0.53	-0.635		0.52
CAN127-1276-0000	550	6.310		340	80.5	4.388		41.6	3.1	1.131	U	6.2	0.26	-1.347	U	0.52
CAN127-1277-0000	440	6.087		350	44.1	3.786		42.1	3.15	1.147	U	6.3	0.265	-1.328	U	0.53
CAN127-1278-0000	360	5.886	J	1400	21.1	3.049	U	42.2	3.15	1.147	U	6.3	0.265	-1.328	U	0.53
Number	8	8			8	8			8	8			8	8		
Minimum detected	230				44.1				7.80				0.49			
Maximum detected	17000				344				7.80				1.10			
Average	2545	6.40			116	4.31			3.86	1.30			0.43	-0.98		
H statistic		4.77				3.74				2.13			2.45	2.45		
Standard Deviation	5854	1.50			118	1.01			1.60	0.31			0.29	0.52		
95% UCL	28051	28051			517	517			4.93	4.93			0.70	0.70		
RME	17000				344				4.93				0.70			

RL = Laboratory reporting limit

RME = Lower of 95% UCL or maximum detected. 95% UCL concentrations were not calculated for sample sets with n < 3.

J = Estimated value below reporting limit or estimated based on data quality criteria

U = Not detected. Value shown is one-half RL

Where no RL is shown, no analysis was performed

TABLE 2-2a

CONCENTRATIONS OF CHEMICALS OF CONCERN IN SURFACE SOILS AT POL WASH RACK (SWMU 127)

	Copper (mg/kg)				Lead (mg/kg)				Mercury (mg/kg)				Silver (mg/kg)			
Field ID	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL
CAN127-1271-0000	8.9	2.186		2.3	7.3	1.988		0.58	0.06	-2.813	U	0.12	0.69	-0.371	J	1.2
CAN127-1272-0000	7.3	1.988		2.3	4.4	1.482		2.9	0.06	-2.813	U	0.12	0.68	-0.386	J	1.2
CAN127-1273-0000	6.8	1.917		2.1	30.8	3.428		10.5	0.05	-2.996	U	0.1	0.5	-0.693	U	1
CAN127-1274-0000	8.5	2.140		2.2	12.6	2.534		2.8	0.055	-2.900	U	0.11	0.55	-0.598	U	1.1
CAN127-1275-0000	25.9	3.254		2.1	29.2	3.374		5.2	0.05	-2.996	U	0.1	0.5	-0.693	U	1
CAN127-1276-0000	6.3	1.841		2.1	48.2	3.875		10.4	0.05	-2.996	U	0.1	0.5	-0.693	U	1
CAN127-1277-0000	7.1	1.960		2.1	43.2	3.766		5.3	0.055	-2.900	U	0.11	0.43	-0.844	J	1.1
CAN127-1278-0000	7.3	1.988		2.1	42.4	3.747		5.3	0.11	-2.207		0.11	0.53	-0.635	J	1.1
Number	8	8			8	8			8	8			8	8		
Minimum detected	6.30				4.40				0.11				0.43			
Maximum detected	25.9				48.2				0.11				0.69			
Average	9.76	2.16			27.3	3.02			0.06	-2.83			0.55	-0.61		
H statistic		2.36				3.30				2.06				1.95		
Standard Deviation	6.58	0.46			17.21	0.91			0.02	0.26			0.09	0.16		
95% UCL	14.5	14.5			96.4	96.4			0.08	0.08			0.62	0.62		
RME	14.5				48.2				0.08				0.62			

RL = Laboratory reporting limit

RME = Lower of 95% UCL or maximum detected. 95% UCL concentrations were not calculated for sample sets with n < 3.

J = Estimated value below reporting limit or estimated based on data quality criteria

U = Not detected. Value shown is one-half RL

Where no RL is shown, no analysis was performed

TABLE 2-2b
CONCENTRATIONS OF CHEMICALS OF CONCERN IN TOTAL SOIL AT POL WASH RACK (SWMU 127)

	1,2-Dichloropropane (ug/kg)				Toluene (µg/kg)			
Field ID	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL
CAN127-1271-0000	2.9	1.065	U	5.8	2.9	1.065	U	5.8
CAN127-1271-0002	2.9	1.065	U	5.8	2.9	1.065	U	5.8
CAN127-1271-0004	2.9	1.065	U	5.8	2.9	1.065	U	5.8
CAN127-1271-0008	2.85	1.047	U	5.7	2.85	1.047	U	5.7
CAN127-1272-0000	2.9	1.065	U	5.8	2.9	1.065	U	5.8
CAN127-1272-0002	3	1.099	U	6	3	1.099	U	6
CAN127-1272-0004	2.95	1.082	U	5.9	2.95	1.082	U	5.9
CAN127-1272-0008	2.95	1.082	U	5.9	2.95	1.082	U	5.9
CAN127-1273-0000	2.6	0.956	U	5.2	12	2.485		5.2
CAN127-1273-0002	2.75	1.012	U	5.5	2.75	1.012	U	5.5
CAN127-1273-0004	2.75	1.012	U	5.5	2.75	1.012	U	5.5
CAN127-1273-0008	2.75	1.012	U	5.5	2.75	1.012	U	5.5
CAN127-1273-0018	2.8	1.030	U	5.6	3.5	1.253	J	5.6
CAN127-1273-0028	2.75	1.012	U	5.5	2.75	1.012	U	5.5
CAN127-1273-0038	2.75	1.012	U	5.5	2.75	1.012	U	5.5
CAN127-1273-0048	2.75	1.012	U	5.5	2.75	1.012	U	5.5
CAN127-1273-0058	2.7	0.993	U	5.4	1.2	0.182	J	5.4
CAN127-1274-0000	2.75	1.012	U	5.5	2.3	0.833	J	5.5
CAN127-1274-0002	2.75	1.012	U	5.5	2.8	1.030	J	5.5
CAN127-1274-0004	2.75	1.012	U	5.5	2.75	1.012	U	5.5
CAN127-1274-0008	2.85	1.047	U	5.7	2.85	1.047	U	5.7
CAN127-1274-0018	2.75	1.012	U	5.5	2.75	1.012	U	5.5
CAN127-1274-0028	2.8	1.030	U	5.6	2.8	1.030	U	5.6
CAN127-1274-0038	2.8	1.030	U	5.6	2	0.693	J	5.6
CAN127-1274-0048	5.7	1.740		5.5	3.3	1.194	J	5.5
CAN127-1274-0058	13	2.565		5.4	1.6	0.470	J	5.4
CAN127-1275-0000	4.6	1.526	J	5.2	5.2	1.649		5.2
CAN127-1275-0002	2.9	1.065	U	5.8	2.9	1.065	U	5.8
CAN127-1275-0004	2.85	1.047	U	5.7	5.4	1.686	J	5.7
CAN127-1275-0008	2.9	1.065	U	5.8	18	2.890		5.8
CAN127-1275-0018	2.9	1.065	U	5.8	6.2	1.825		5.8
CAN127-1275-0028	2.8	1.030	U	5.6	2.9	1.065	U	5.6
CAN127-1275-0038	7.7	2.041		5.5	7.2	1.974		5.5
CAN127-1275-0048	2.8	1.030	U	5.6	12	2.485		5.6
CAN127-1275-0058	2.8	1.030	U	5.6	2.8	1.030	U	5.6
CAN127-1276-0000	2.6	0.956	U	5.2	15	2.708		5.2
CAN127-1276-0002	2.7	0.993	U	5.4	2.7	0.993	U	5.4
CAN127-1276-0004	2.7	0.993	U	5.4	2.7	0.993	U	5.4
CAN127-1276-0008	2.75	1.012	U	5.5	2.75	1.012	U	5.5
CAN127-1276-0018	2.75	1.012	U	5.5	2.75	1.012	U	5.5
CAN127-1276-0028	2.75	1.012	U	5.5	2.75	1.012	U	5.5
CAN127-1276-0038	2.75	1.012	U	5.5	2.75	1.012	U	5.5
CAN127-1276-0048	2.75	1.012	U	5.5	2.75	1.012	U	5.5
CAN127-1276-0058	2.7	0.993	U	5.4	2.5	0.916	J	5.4
CAN127-1277-0000	2.65	0.975	U	5.3	5.5	1.705	J	5.3
CAN127-1277-0002	2.7	0.993	U	5.4	3.8	1.335	J	5.4
CAN127-1277-0004	2.75	1.012	U	5.5	2.1	0.742	J	5.5

TABLE 2-2b
CONCENTRATIONS OF CHEMICALS OF CONCERN IN TOTAL SOIL AT POL WASH RACK (SWMU 127)

	1,2-Dichloropropane (ug/kg)				Toluene (µg/kg)			
Field ID	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL
CAN127-1277-0008	2.75	1.012	U	5.5	2.75	1.012	U	5.5
CAN127-1277-0018	2.85	1.047	U	5.7	2.85	1.047	U	5.7
CAN127-1277-0028	2.8	1.030	U	5.6	2.8	1.030	U	5.6
CAN127-1277-0038	2.75	1.012	U	5.5	1.7	0.531	J	5.5
CAN127-1277-0048	2.75	1.012	U	5.5	2	0.693	J	5.5
CAN127-1277-0058	2.75	1.012	U	5.5	2.6	0.956	J	5.5
CAN127-1278-0000	2.65	0.975	U	5.3	2.65	0.975	U	5.3
CAN127-1278-0002	2.7	0.993	U	5.4	2.7	0.993	U	5.4
CAN127-1278-0004	2.75	1.012	U	5.5	2.75	1.012	U	5.5
CAN127-1278-0008	2.8	1.030	U	5.6	2.8	1.030	UJ	5.6
CAN127-1278-0018	2.85	1.047	U	5.7	2.85	1.047	U	5.7
CAN127-1278-0028	2.8	1.030	U	5.6	2.8	1.030	U	5.6
CAN127-1278-0038	2.75	1.012	U	5.5	2.75	1.012	U	5.5
CAN127-1278-0048	2.8	1.030	U	5.6	2.8	1.030	U	5.6
CAN127-1278-0058	2.8	1.030	U	5.6	2.8	1.030	U	5.6
Number	62	62			62	62		
Minimum	4.60				1.20			
Maximum	13.0				18.0			
Average	3.10	1.084			3.71	1.152		
H statistic	1.73	1.733				1.830		
Standard Deviation	1.48	0.256			3.02	0.483		
95% UCL	3.23	3.235			3.98	3.982		
RME	3.23				3.98			

RL = Laboratory reporting limit

RME = Lower of 95% UCL or maximum detected. 95% UCL concentrations were not calculated for sample sets with n < 3.

J = Estimated value below reporting limit or estimated based on data quality criter

U = Not detected. Value shown is one-half RL

Where no RL is shown, no analysis was performed.

TABLE 2-2b
CONCENTRATIONS OF CHEMICALS OF CONCERN IN TOTAL SOIL AT POL WASH RACK (SWMU 127)

	Xylenes (total) (µg/kg)				Acenaphthene (µg/kg)			Anthracene (µg/kg)		
Field ID	Result	Log Result	Qual	RL	Result	Qual	RL	Result	Qual	RL
CAN127-1271-0000	2.9	1.065	U	5.8		U	380		U	380
CAN127-1271-0002	2.9	1.065	U	5.8						
CAN127-1271-0004	2.9	1.065	U	5.8		U	380		U	380
CAN127-1271-0008	2.85	1.047	U	5.7						
CAN127-1272-0000	2.9	1.065	U	5.8		U	380		U	380
CAN127-1272-0002	3	1.099	U	6		U	400		U	400
CAN127-1272-0004	2.95	1.082	U	5.9						
CAN127-1272-0008	2.95	1.082	U	5.9						
CAN127-1273-0000	3.4	1.224	J	5.2		U	350	48	J	350
CAN127-1273-0002	2.75	1.012	U	5.5						
CAN127-1273-0004	2.75	1.012	U	5.5						
CAN127-1273-0008	2.75	1.012	U	5.5		U	360		U	360
CAN127-1273-0018	2.8	1.030	U	5.6						
CAN127-1273-0028	2.75	1.012	U	5.5						
CAN127-1273-0038	2.75	1.012	U	5.5						
CAN127-1273-0048	2.75	1.012	U	5.5						
CAN127-1273-0058	2.7	0.993	U	5.4						
CAN127-1274-0000	1.5	0.405	J	5.5		U	370		U	370
CAN127-1274-0002	2.75	1.012	U	5.5						
CAN127-1274-0004	2.75	1.012	U	5.5						
CAN127-1274-0008	2.85	1.047	U	5.7						
CAN127-1274-0018	2.75	1.012	U	5.5						
CAN127-1274-0028	2.8	1.030	U	5.6						
CAN127-1274-0038	2.8	1.030	U	5.6						
CAN127-1274-0048	2.75	1.012	U	5.5		U	360		U	360
CAN127-1274-0058	2.7	0.993	U	5.4						
CAN127-1275-0000	2.6	0.956	U	5.2	150	J	1400		U	1400
CAN127-1275-0002	2.9	1.065	U	5.8		U	380		U	380
CAN127-1275-0004	2.85	1.047	U	5.7						
CAN127-1275-0008	2.9	1.065	U	5.8						
CAN127-1275-0018	2.4	0.875	J	5.8						
CAN127-1275-0028	2.8	1.030	U	5.6						
CAN127-1275-0038	2.75	1.012	U	5.5						
CAN127-1275-0048	2.8	1.030	U	5.6						
CAN127-1275-0058	2.8	1.030	U	5.6						
CAN127-1276-0000	12	2.485		5.2		U	340		U	340
CAN127-1276-0002	2.7	0.993	U	5.4						
CAN127-1276-0004	2.7	0.993	U	5.4						
CAN127-1276-0008	2.75	1.012	U	5.5						
CAN127-1276-0018	2.75	1.012	U	5.5		U	360		U	360
CAN127-1276-0028	2.75	1.012	U	5.5						
CAN127-1276-0038	2.75	1.012	U	5.5						
CAN127-1276-0048	2.75	1.012	U	5.5						
CAN127-1276-0058	2.7	0.993	U	5.4						
CAN127-1277-0000	5.9	1.775		5.3		U	350		U	350
CAN127-1277-0002	1.5	0.405	J	5.4						
CAN127-1277-0004	2.75	1.012	U	5.5						

TABLE 2-2b
CONCENTRATIONS OF CHEMICALS OF CONCERN IN TOTAL SOIL AT POL WASH RACK (SWMU 127)

	Xylenes (total) (µg/kg)				Acenaphthene (µg/kg)			Anthracene (µg/kg)		
Field ID	Result	Log Result	Qual	RL	Result	Qual	RL	Result	Qual	RL
CAN127-1277-0008	2.75	1.012	U	5.5		U	360		U	360
CAN127-1277-0018	2.85	1.047	U	5.7						
CAN127-1277-0028	2.8	1.030	U	5.6						
CAN127-1277-0038	2.75	1.012	U	5.5						
CAN127-1277-0048	2.75	1.012	U	5.5						
CAN127-1277-0058	2.75	1.012	U	5.5						
CAN127-1278-0000	2.65	0.975	U	5.3		U	1400		U	1400
CAN127-1278-0002	2.7	0.993	U	5.4						
CAN127-1278-0004	2.75	1.012	U	5.5						
CAN127-1278-0008	2.8	1.030	U	5.6		U	370		U	370
CAN127-1278-0018	2.85	1.047	U	5.7						
CAN127-1278-0028	2.8	1.030	U	5.6						
CAN127-1278-0038	2.75	1.012	U	5.5						
CAN127-1278-0048	2.8	1.030	U	5.6						
CAN127-1278-0058	2.8	1.030	U	5.6						
Number	62	62			1			1		
Minimum	1.50				150			48.0		
Maximum	12.0				150			48.0		
Average	2.95	1.041			150			48.0		
H statistic		1.714								
Standard Deviation	1.26	0.241								
95% UCL	3.07	3.074								
RME	3.07				150			48.0		

RL = Laboratory reporting limit

RME = Lower of 95% UCL or maximum detected. 95% UCL concentrations were not calculated for sample sets with n < 3.

J = Estimated value below reporting limit or estimated based on data quality c

U = Not detected. Value shown is one-half RL

Where no RL is shown, no analysis was performed.

TABLE 2-2b
CONCENTRATIONS OF CHEMICALS OF CONCERN IN TOTAL SOIL AT POL WASH RACK (SWMU 127)

	Benzo(a)anthracene (µg/kg)				Benzo(a)pyrene (µg/kg)			
Field ID	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL
CAN127-1271-0000	190	5.247	U	380	190	5.247	U	380
CAN127-1271-0002								
CAN127-1271-0004	190	5.247	U	380	190	5.247	U	380
CAN127-1271-0008								
CAN127-1272-0000	190	5.247	U	380	190	5.247	U	380
CAN127-1272-0002	200	5.298	U	400	200	5.298	U	400
CAN127-1272-0004								
CAN127-1272-0008								
CAN127-1273-0000	510	6.234		350	550	6.310		350
CAN127-1273-0002								
CAN127-1273-0004								
CAN127-1273-0008	180	5.193	U	360	180	5.193	U	360
CAN127-1273-0018								
CAN127-1273-0028								
CAN127-1273-0038								
CAN127-1273-0048								
CAN127-1273-0058								
CAN127-1274-0000	83	4.419	J	370	120	4.787	J	370
CAN127-1274-0002								
CAN127-1274-0004								
CAN127-1274-0008								
CAN127-1274-0018								
CAN127-1274-0028								
CAN127-1274-0038								
CAN127-1274-0048	180	5.193	U	360	180	5.193	U	360
CAN127-1274-0058								
CAN127-1275-0000	8000	8.987		1400	8600	9.060		1400
CAN127-1275-0002	190	5.247	U	380	190	5.247	U	380
CAN127-1275-0004								
CAN127-1275-0008								
CAN127-1275-0018								
CAN127-1275-0028								
CAN127-1275-0038								
CAN127-1275-0048								
CAN127-1275-0058								
CAN127-1276-0000	160	5.075	J	340	230	5.438	J	340
CAN127-1276-0002								
CAN127-1276-0004								
CAN127-1276-0008								
CAN127-1276-0018	180	5.193	U	360	180	5.193	U	360
CAN127-1276-0028								
CAN127-1276-0038								
CAN127-1276-0048								
CAN127-1276-0058								
CAN127-1277-0000	190	5.247	J	350	180	5.193	J	350
CAN127-1277-0002								
CAN127-1277-0004								

TABLE 2-2b
CONCENTRATIONS OF CHEMICALS OF CONCERN IN TOTAL SOIL AT POL WASH RACK (SWMU 127)

	Benzo(a)anthracene (µg/kg)				Benzo(a)pyrene (µg/kg)			
Field ID	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL
CAN127-1277-0008	180	5.193	U	360	180	5.193	U	360
CAN127-1277-0018								
CAN127-1277-0028								
CAN127-1277-0038								
CAN127-1277-0048								
CAN127-1277-0058								
CAN127-1278-0000	150	5.011	J	1400	180	5.193	J	1400
CAN127-1278-0002								
CAN127-1278-0004								
CAN127-1278-0008	185	5.220	U	370	185	5.220	U	370
CAN127-1278-0018								
CAN127-1278-0028								
CAN127-1278-0038								
CAN127-1278-0048								
CAN127-1278-0058								
Number	16	16			16	16		
Minimum	83.0				120			
Maximum	8000				8600			
Average	685	5.453			733	5.516		
H statistic		2.713				2.713		
Standard Deviation	1953	1.002			2100	0.992		
95% UCL	779	778.748			816	815.564		
RME	779				816			

RL = Laboratory reporting limit
RME = Lower of 95% UCL or maximum detected. 95% UCL concentrations were not calculated for sample sets with n < 3.
J = Estimated value below reporting limit or estimated based on data quality criter
U = Not detected. Value shown is one-half RL
Where no RL is shown, no analysis was performed.

TABLE 2-2b
CONCENTRATIONS OF CHEMICALS OF CONCERN IN TOTAL SOIL AT POL WASH RACK (SWMU 127)

	Benzo(b)fluoranthene (µg/kg)				Butyl benzyl phthalate (µg/kg)		
Field ID	Result	Log Result	Qual	RL	Result	Qual	RL
CAN127-1271-0000	190	5.247	U	380		U	380
CAN127-1271-0002							
CAN127-1271-0004	190	5.247	U	380	110	J	380
CAN127-1271-0008							
CAN127-1272-0000	190	5.247	U	380		U	380
CAN127-1272-0002	200	5.298	U	400		U	400
CAN127-1272-0004							
CAN127-1272-0008							
CAN127-1273-0000	960	6.867		350		U	350
CAN127-1273-0002							
CAN127-1273-0004							
CAN127-1273-0008	180	5.193	U	360		U	360
CAN127-1273-0018							
CAN127-1273-0028							
CAN127-1273-0038							
CAN127-1273-0048							
CAN127-1273-0058							
CAN127-1274-0000	270	5.598	J	370		U	370
CAN127-1274-0002							
CAN127-1274-0004							
CAN127-1274-0008							
CAN127-1274-0018							
CAN127-1274-0028							
CAN127-1274-0038							
CAN127-1274-0048	180	5.193	U	360		U	360
CAN127-1274-0058							
CAN127-1275-0000	17000	9.741		1400		U	1400
CAN127-1275-0002	190	5.247	U	380		U	380
CAN127-1275-0004							
CAN127-1275-0008							
CAN127-1275-0018							
CAN127-1275-0028							
CAN127-1275-0038							
CAN127-1275-0048							
CAN127-1275-0058							
CAN127-1276-0000	410	6.016		340		U	340
CAN127-1276-0002							
CAN127-1276-0004							
CAN127-1276-0008							
CAN127-1276-0018	180	5.193	U	360		U	360
CAN127-1276-0028							
CAN127-1276-0038							
CAN127-1276-0048							
CAN127-1276-0058							
CAN127-1277-0000	390	5.966		350		U	350
CAN127-1277-0002							
CAN127-1277-0004							

TABLE 2-2b
CONCENTRATIONS OF CHEMICALS OF CONCERN IN TOTAL SOIL AT POL WASH RACK (SWMU 127)

	Benzo(b)fluoranthene (µg/kg)				Butyl benzyl phthalate (µg/kg)		
Field ID	Result	Log Result	Qual	RL	Result	Qual	RL
CAN127-1277-0008	180	5.193	U	360		U	360
CAN127-1277-0018							
CAN127-1277-0028							
CAN127-1277-0038							
CAN127-1277-0048							
CAN127-1277-0058							
CAN127-1278-0000	380	5.940	J	1400		U	1400
CAN127-1278-0002							
CAN127-1278-0004							
CAN127-1278-0008	185	5.220	U	370		U	370
CAN127-1278-0018							
CAN127-1278-0028							
CAN127-1278-0038							
CAN127-1278-0048							
CAN127-1278-0058							
Number	16	16			1		
Minimum	270				110		
Maximum	17000				110		
Average	1330	5.775			110		
H statistic		3.121					
Standard Deviation	4183	1.157					
95% UCL	1599	1599					
RME	1599				110		

RL = Laboratory reporting limit
RME = Lower of 95% UCL or maximum detected. 95% UCL concentrations were not calculated for sample sets with n < 3.
J = Estimated value below reporting limit or estimated based on data quality criteria
U = Not detected. Value shown is one-half RL
Where no RL is shown, no analysis was performed.

TABLE 2-2b
CONCENTRATIONS OF CHEMICALS OF CONCERN IN TOTAL SOIL AT POL WASH RACK (SWMU 127)

	Carbazole (µg/kg)				Chrysene (µg/kg)			
Field ID	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL
CAN127-1271-0000	190	5.247	U	380	190	5.247	U	380
CAN127-1271-0002								
CAN127-1271-0004	190	5.247	U	380	190	5.247	U	380
CAN127-1271-0008								
CAN127-1272-0000	190	5.247	U	380	190	5.247	U	380
CAN127-1272-0002	200	5.298	U	400	200	5.298	U	400
CAN127-1272-0004								
CAN127-1272-0008								
CAN127-1273-0000	46	3.829	J	350	720	6.579		350
CAN127-1273-0002								
CAN127-1273-0004								
CAN127-1273-0008	180	5.193	U	360	180	5.193	U	360
CAN127-1273-0018								
CAN127-1273-0028								
CAN127-1273-0038								
CAN127-1273-0048								
CAN127-1273-0058								
CAN127-1274-0000	185	5.220	U	370	210	5.347	J	370
CAN127-1274-0002								
CAN127-1274-0004								
CAN127-1274-0008								
CAN127-1274-0018								
CAN127-1274-0028								
CAN127-1274-0038								
CAN127-1274-0048	180	5.193	U	360	180	5.193	U	360
CAN127-1274-0058								
CAN127-1275-0000	1500	7.313		1400	14000	9.547		1400
CAN127-1275-0002	190	5.247	U	380	190	5.247	U	380
CAN127-1275-0004								
CAN127-1275-0008								
CAN127-1275-0018								
CAN127-1275-0028								
CAN127-1275-0038								
CAN127-1275-0048								
CAN127-1275-0058								
CAN127-1276-0000	170	5.136	U	340	300	5.704	J	340
CAN127-1276-0002								
CAN127-1276-0004								
CAN127-1276-0008								
CAN127-1276-0018	180	5.193	U	360	180	5.193	U	360
CAN127-1276-0028								
CAN127-1276-0038								
CAN127-1276-0048								
CAN127-1276-0058								
CAN127-1277-0000	175	5.165	U	350	240	5.481	J	350
CAN127-1277-0002								
CAN127-1277-0004								

TABLE 2-2b
CONCENTRATIONS OF CHEMICALS OF CONCERN IN TOTAL SOIL AT POL WASH RACK (SWMU 127)

	Carbazole (µg/kg)				Chrysene (µg/kg)			
Field ID	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL
CAN127-1277-0008	180	5.193	U	360	180	5.193	U	360
CAN127-1277-0018								
CAN127-1277-0028								
CAN127-1277-0038								
CAN127-1277-0048								
CAN127-1277-0058								
CAN127-1278-0000	700	6.551	U	1400	260	5.561		1400
CAN127-1278-0002								
CAN127-1278-0004								
CAN127-1278-0008	185	5.220	U	370	185	5.220	U	370
CAN127-1278-0018								
CAN127-1278-0028								
CAN127-1278-0038								
CAN127-1278-0048								
CAN127-1278-0058								
Number	16	16			16	16		
Minimum	46.0				210			
Maximum	1500				14000			
Average	290	5.343			1100	5.656		
H statistic		2.351				2.899		
Standard Deviation	350	0.724			3443	1.095		
95% UCL	422	422			1181	1181		
RME	422				1181			

RL = Laboratory reporting limit
RME = Lower of 95% UCL or maximum detected. 95% UCL concentrations were not calculated for sample sets with n < 3.
J = Estimated value below reporting limit or estimated based on data quality criteria
U = Not detected. Value shown is one-half RL
Where no RL is shown, no analysis was performed.

TABLE 2-2b
CONCENTRATIONS OF CHEMICALS OF CONCERN IN TOTAL SOIL AT POL WASH RACK (SWMU 127)

	Fluoranthene (µg/kg)				Fluorene (µg/kg)			
Field ID	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL
CAN127-1271-0000	190	5.247	U	380	190	5.247	U	380
CAN127-1271-0002								
CAN127-1271-0004	190	5.247	U	380	190	5.247	U	380
CAN127-1271-0008								
CAN127-1272-0000	190	5.247	U	380	190	5.247	U	380
CAN127-1272-0002	200	5.298	U	400	200	5.298	U	400
CAN127-1272-0004								
CAN127-1272-0008								
CAN127-1273-0000	1500	7.313		350	175	5.165	U	350
CAN127-1273-0002								
CAN127-1273-0004								
CAN127-1273-0008	180	5.193	U	360	180	5.193	U	360
CAN127-1273-0018								
CAN127-1273-0028								
CAN127-1273-0038								
CAN127-1273-0048								
CAN127-1273-0058								
CAN127-1274-0000	300	5.704	J	370	175	5.165	U	370
CAN127-1274-0002								
CAN127-1274-0004								
CAN127-1274-0008								
CAN127-1274-0018								
CAN127-1274-0028								
CAN127-1274-0038								
CAN127-1274-0048	180	5.193	U	360	180	5.193	U	360
CAN127-1274-0058								
CAN127-1275-0000	17000	9.741		1400	290	5.670	J	1400
CAN127-1275-0002	190	5.247	U	380	190	5.247	U	380
CAN127-1275-0004								
CAN127-1275-0008								
CAN127-1275-0018								
CAN127-1275-0028								
CAN127-1275-0038								
CAN127-1275-0048								
CAN127-1275-0058								
CAN127-1276-0000	570	6.346		340	170	5.136	U	340
CAN127-1276-0002								
CAN127-1276-0004								
CAN127-1276-0008								
CAN127-1276-0018	180	5.193	U	360	180	5.193	U	360
CAN127-1276-0028								
CAN127-1276-0038								
CAN127-1276-0048								
CAN127-1276-0058								
CAN127-1277-0000	470	6.153		350	175	5.165	U	350
CAN127-1277-0002								
CAN127-1277-0004								

TABLE 2-2b
CONCENTRATIONS OF CHEMICALS OF CONCERN IN TOTAL SOIL AT POL WASH RACK (SWMU 127)

	Fluoranthene (µg/kg)				Fluorene (µg/kg)			
Field ID	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL
CAN127-1277-0008	180	5.193	U	360	180	5.193	U	360
CAN127-1277-0018								
CAN127-1277-0028								
CAN127-1277-0038								
CAN127-1277-0048								
CAN127-1277-0058								
CAN127-1278-0000	440	6.087	J	1400	700	6.551	U	1400
CAN127-1278-0002								
CAN127-1278-0004								
CAN127-1278-0008	185	5.220	U	370	185	5.220	U	370
CAN127-1278-0018								
CAN127-1278-0028								
CAN127-1278-0038								
CAN127-1278-0048								
CAN127-1278-0058								
Number	16	16			16	16		
Minimum	300				290			
Maximum	17000				290			
Average	1384	5.851			222	5.321		
H statistic		3.121				1.914		
Standard Deviation	4178	1.199			130	0.350		
95% UCL	1876	1876			259	259		
RME	1876				259			

RL = Laboratory reporting limit
RME = Lower of 95% UCL or maximum detected. 95% UCL concentrations were not calculated for sample sets with n < 3.
J = Estimated value below reporting limit or estimated based on data quality criteria
U = Not detected. Value shown is one-half RL
Where no RL is shown, no analysis was per

TABLE 2-2b
CONCENTRATIONS OF CHEMICALS OF CONCERN IN TOTAL SOIL AT POL WASH RACK (SWMU 127)

	Indeno(1,2,3-cd)pyrene (µg/kg)				Pyrene (µg/kg)			
Field ID	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL
CAN127-1271-0000	190	5.247	U	380	190	5.247	U	380
CAN127-1271-0002								
CAN127-1271-0004	190	5.247	U	380			U	380
CAN127-1271-0008								
CAN127-1272-0000	190	5.247	U	380	190	5.247	U	380
CAN127-1272-0002	200	5.298	U	400	200	5.298	U	400
CAN127-1272-0004								
CAN127-1272-0008								
CAN127-1273-0000	390	5.966		350	1400	7.244		350
CAN127-1273-0002								
CAN127-1273-0004								
CAN127-1273-0008	180	5.193	U	360	180	5.193	U	360
CAN127-1273-0018								
CAN127-1273-0028								
CAN127-1273-0038								
CAN127-1273-0048								
CAN127-1273-0058								
CAN127-1274-0000	68	4.220	J	370	230	5.438	J	370
CAN127-1274-0002								
CAN127-1274-0004								
CAN127-1274-0008								
CAN127-1274-0018								
CAN127-1274-0028								
CAN127-1274-0038								
CAN127-1274-0048	180	5.193	U	360	180	5.193	U	360
CAN127-1274-0058								
CAN127-1275-0000	5100	8.537		1400	17000	9.741		1400
CAN127-1275-0002	190	5.247	U	380	190	5.247	U	380
CAN127-1275-0004								
CAN127-1275-0008								
CAN127-1275-0018								
CAN127-1275-0028								
CAN127-1275-0038								
CAN127-1275-0048								
CAN127-1275-0058								
CAN127-1276-0000	160	5.075	J	340	550	6.310		340
CAN127-1276-0002								
CAN127-1276-0004								
CAN127-1276-0008								
CAN127-1276-0018	180	5.193	U	360	180	5.193	U	360
CAN127-1276-0028								
CAN127-1276-0038								
CAN127-1276-0048								
CAN127-1276-0058								
CAN127-1277-0000	93	4.533	J	350	440	6.087		350
CAN127-1277-0002								
CAN127-1277-0004								

TABLE 2-2b
CONCENTRATIONS OF CHEMICALS OF CONCERN IN TOTAL SOIL AT POL WASH RACK (SWMU 127)

	Indeno(1,2,3-cd)pyrene (µg/kg)				Pyrene (µg/kg)			
Field ID	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL
CAN127-1277-0008	180	5.193	U	360	180	5.193	U	360
CAN127-1277-0018								
CAN127-1277-0028								
CAN127-1277-0038								
CAN127-1277-0048								
CAN127-1277-0058								
CAN127-1278-0000	700	6.551	U	1400	360	5.886	J	1400
CAN127-1278-0002								
CAN127-1278-0004								
CAN127-1278-0008	185	5.220	U	370	185	5.220	U	370
CAN127-1278-0018								
CAN127-1278-0028								
CAN127-1278-0038								
CAN127-1278-0048								
CAN127-1278-0058								
Number	16	16			15	15		
Minimum	68.0				230			
Maximum	5100				17000			
Average	524	5.448			1444	5.849		
H statistic		2.713				3.163		
Standard Deviation	1229	0.966			4315	1.226		
95% UCL	729	729			2073	2073		
RME	729				2073			

RL = Laboratory reporting limit
RME = Lower of 95% UCL or maximum detected. 95% UCL concentrations were not calculated for sample sets with n < 3.
J = Estimated value below reporting limit or estimated based on data quality criteria
U = Not detected. Value shown is one-half RL
Where no RL is shown, no analysis was performed.

TABLE 2-2b
CONCENTRATIONS OF CHEMICALS OF CONCERN IN TOTAL SOIL AT POL WASH RACK (SWMU 127)

	TPH (mg/kg)				Antimony (mg/kg)			
Field ID	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL
CAN127-1271-0000	23.05	3.138	U	46.1	3.45	1.238	U	6.9
CAN127-1271-0002	23.05	3.138	U	46.1	6.9	1.932	U	13.8
CAN127-1271-0004	46.6	3.842		46.2	6.95	1.939	U	13.9
CAN127-1271-0008	48.6	3.884		45.7	6.85	1.924	U	13.7
CAN127-1272-0000	93.2	4.535		46.3	3.45	1.238	U	6.9
CAN127-1272-0002	48.7	3.886		48.4	18.15	2.899	U	36.3
CAN127-1272-0004	50.1	3.914		47.1	17.65	2.871	U	35.3
CAN127-1272-0008	23.75	3.168	U	47.5	7.15	1.967	U	14.3
CAN127-1273-0000	66.8	4.202		41.9	3.15	1.147	U	6.3
CAN127-1273-0002	21.8	3.082	U	43.6	3.25	1.179	U	6.5
CAN127-1273-0004	21.85	3.084	U	43.7	6.55	1.879	U	13.1
CAN127-1273-0008	21.95	3.089	U	43.9	3.3	1.194	U	6.6
CAN127-1273-0018	22.4	3.109	U	44.8	6.75	1.910	U	13.5
CAN127-1273-0028	22.1	3.096	U	44.2	3.3	1.194	U	6.6
CAN127-1273-0038	22.1	3.096	U	44.2	3.3	1.194	U	6.6
CAN127-1273-0048	21.95	3.089	U	43.9	3.3	1.194	U	6.6
CAN127-1273-0058	21.4	3.063	U	42.8	3.2	1.163	U	6.4
CAN127-1274-0000	253	5.533		44.3	3.3	1.194	U	6.6
CAN127-1274-0002	22	3.091	U	44	3.3	1.194	U	6.6
CAN127-1274-0004	22.05	3.093	U	44.1	6.6	1.887	U	13.2
CAN127-1274-0008	22.65	3.120	U	45.3	6.8	1.917	U	13.6
CAN127-1274-0018	22	3.091	U	44	3.3	1.194	U	6.6
CAN127-1274-0028	22.35	3.107	U	44.7	6.7	1.902	U	13.4
CAN127-1274-0038	22.45	3.111	U	44.9	3.35	1.209	U	6.7
CAN127-1274-0048	21.95	3.089	U	43.9	3.3	1.194	U	6.6
CAN127-1274-0058	21.55	3.070	U	43.1	3.25	1.179	U	6.5
CAN127-1275-0000	344	5.841		83.9	7.8	2.054		6.3
CAN127-1275-0002	23.05	3.138	U	46.1	6.9	1.932	U	13.8
CAN127-1275-0004	22.9	3.131	U	45.8	17.15	2.842	U	34.3
CAN127-1275-0008	23.3	3.148	U	46.6	7	1.946	U	14
CAN127-1275-0018	23.05	3.138	U	46.1	17.3	2.851	U	34.6
CAN127-1275-0028	22.45	3.111	U	44.9	6.75	1.910	U	13.5
CAN127-1275-0038	22.15	3.098	U	44.3	3.3	1.194	U	6.6
CAN127-1275-0048	22.25	3.102	U	44.5	3.35	1.209	U	6.7
CAN127-1275-0058	22.35	3.107	U	44.7	3.35	1.209	U	6.7
CAN127-1276-0000	80.5	4.388		41.6	3.1	1.131	U	6.2
CAN127-1276-0002	21.6	3.073	U	43.2	3.25	1.179	U	6.5
CAN127-1276-0004	21.65	3.075	U	43.3	6.5	1.872	U	13
CAN127-1276-0008	22.05	3.093	U	44.1	6.6	1.887	U	13.2
CAN127-1276-0018	21.95	3.089	U	43.9	3.3	1.194	U	6.6
CAN127-1276-0028	21.85	3.084	U	43.7	3.25	1.179	U	6.5
CAN127-1276-0038	22.05	3.093	U	44.1	3.3	1.194	U	6.6
CAN127-1276-0048	21.95	3.089	U	43.9	3.3	1.194	U	6.6
CAN127-1276-0058	21.6	3.073	U	43.2	3.25	1.179	U	6.5
CAN127-1277-0000	44.1	3.786		42.1	3.15	1.147	U	6.3
CAN127-1277-0002	21.55	3.070	U	43.1	3.25	1.179	U	6.5
CAN127-1277-0004	21.8	3.082	U	43.6	3.25	1.179	U	6.5

TABLE 2-2b
CONCENTRATIONS OF CHEMICALS OF CONCERN IN TOTAL SOIL AT POL WASH RACK (SWMU 127)

	TPH (mg/kg)				Antimony (mg/kg)			
Field ID	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL
CAN127-1277-0008	22.1	3.096	U	44.2	3.3	1.194	U	6.6
CAN127-1277-0018	22.7	3.122	U	45.4	3.4	1.224	U	6.8
CAN127-1277-0028	22.3	3.105	U	44.6	3.35	1.209	U	6.7
CAN127-1277-0038	22.05	3.093	U	44.1	3.3	1.194	U	6.6
CAN127-1277-0048	22	3.091	U	44	3.3	1.194	U	6.6
CAN127-1277-0058	22.1	3.096	U	44.2	3.3	1.194	U	6.6
CAN127-1278-0000	21.1	3.049	U	42.2	3.15	1.147	U	6.3
CAN127-1278-0002	21.8	3.082	U	43.6	3.25	1.179	U	6.5
CAN127-1278-0004	21.8	3.082	U	43.6	6.55	1.879	U	13.1
CAN127-1278-0008	170	5.136		44.4	3.35	1.209	U	6.7
CAN127-1278-0018	55.9	4.024		45.7	6.85	1.924	U	13.7
CAN127-1278-0028	21.45	3.066	U	44.9	3.35	1.209	U	6.7
CAN127-1278-0038	22.1	3.096	U	44.2	3.3	1.194	U	6.6
CAN127-1278-0048	22.2	3.100	U	44.4	3.35	1.209	U	6.7
CAN127-1278-0058	22.55	3.116	U	45.1	3.4	1.224	U	6.8
Number	62	62			62	62.		
Minimum	46.6				7.80			
Maximum	344				7.80			
Average	38.9	3.353			5.18	1.500		
H statistic		1.925				1.830		
Standard Deviation	53.8	0.605			3.64	0.486		
95% UCL	39.9	39.9			5.65	5.65		
RME	39.9				5.65			

RL = Laboratory reporting limit

RME = Lower of 95% UCL or maximum detected. 95% UCL concentrations were not calculated for sample sets with n < 3.

J = Estimated value below reporting limit or estimated based on data quality criteria

U = Not detected. Value shown is one-half RL

Where no RL is shown, no analysis was performed.

TABLE 2-2b
CONCENTRATIONS OF CHEMICALS OF CONCERN IN TOTAL SOIL AT POL WASH RACK (SWMU 127)

	Barium (mg/kg)				Cadmium (mg/kg)			
Field ID	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL
CAN127-1271-0000	91.7	4.519		1.2	0.29	-1.238	U	0.58
CAN127-1271-0002	971	6.878		2.3	3	1.099		1.2
CAN127-1271-0004	285	5.652		2.3	2.1	0.742		1.2
CAN127-1271-0008	163	5.094		2.3	2	0.693		1.1
CAN127-1272-0000	91.9	4.521		1.2	1.1	0.095		0.58
CAN127-1272-0002	206	5.328		6	4.2	1.435		3
CAN127-1272-0004	435	6.075		5.9	2.9	1.065		2.9
CAN127-1272-0008	98.4	4.589		2.4	1.8	0.588		1.2
CAN127-1273-0000	115	4.745		1	0.26	-1.347	U	0.52
CAN127-1273-0002	99	4.595		1.1	0.275	-1.291	U	0.55
CAN127-1273-0004	255	5.541		2.2	0.55	-0.598	U	1.1
CAN127-1273-0008	93.9	4.542		1.1	0.275	-1.291	U	0.55
CAN127-1273-0018	110	4.700		2.2	0.55	-0.598	U	1.1
CAN127-1273-0028	137	4.920		1.1	0.275	-1.291	U	0.55
CAN127-1273-0038	61.9	4.126		1.1	0.275	-1.291	U	0.55
CAN127-1273-0048	106	4.663		1.1	0.275	-1.291	U	0.55
CAN127-1273-0058	12.9	2.557		1.1	0.27	-1.309	U	0.54
CAN127-1274-0000	125	4.828	J	1.1	0.49	-0.713	J	0.55
CAN127-1274-0002	75.7	4.327	J	1.1	0.275	-1.291	U	0.55
CAN127-1274-0004	517	6.248		2.2	0.55	-0.598	U	1.1
CAN127-1274-0008	100	4.605	J	2.3	0.55	-0.598	U	1.1
CAN127-1274-0018	68.2	4.222	J	1.1	0.275	-1.291	U	0.55
CAN127-1274-0028	74.4	4.309	J	2.2	0.55	-0.598	U	1.1
CAN127-1274-0038	42.6	3.752	J	1.1	0.28	-1.273	U	0.56
CAN127-1274-0048	56.1	4.027	J	1.1	0.275	-1.291	U	0.55
CAN127-1274-0058	17.1	2.839	J	1.1	0.27	-1.309	U	0.54
CAN127-1275-0000	245	5.501	J	1	0.53	-0.635		0.52
CAN127-1275-0002	104	4.644	J	2.3	0.6	-0.511	U	1.2
CAN127-1275-0004	435	6.075	J	5.7	1.45	0.372	U	2.9
CAN127-1275-0008	167	5.118	J	2.3	0.6	-0.511	U	1.2
CAN127-1275-0018	445	6.098	J	5.8	1.45	0.372	U	2.9
CAN127-1275-0028	65.4	4.181	J	2.2	0.55	-0.598	U	1.1
CAN127-1275-0038	148	4.997	J	1.1	0.275	-1.291	U	0.55
CAN127-1275-0048	36.6	3.600	J	1.1	0.28	-1.273	U	0.56
CAN127-1275-0058	545	6.301	J	1.1	0.28	-1.273	U	0.56
CAN127-1276-0000	74.3	4.308		1	0.26	-1.347	U	0.52
CAN127-1276-0002	105	4.654		1.1	0.27	-1.309	U	0.54
CAN127-1276-0004	107	4.673		2.2	0.55	-0.598	U	1.1
CAN127-1276-0008	95.7	4.561		2.2	0.55	-0.598	U	1.1
CAN127-1276-0018	302	5.710		1.1	0.275	-1.291	U	0.55
CAN127-1276-0028	96.4	4.569		1.1	0.275	-1.291	U	0.55
CAN127-1276-0038	23.7	3.165		1.1	0.275	-1.291	U	0.55
CAN127-1276-0048	27.8	3.325		1.1	0.275	-1.291	U	0.55
CAN127-1276-0058	20.6	3.025		1.1	0.27	-1.309	U	0.54
CAN127-1277-0000	84.1	4.432		1.1	0.265	-1.328	U	0.53
CAN127-1277-0002	102	4.625		1.1	0.27	-1.309	U	0.54
CAN127-1277-0004	72.9	4.289		1.1	1.5	0.405		0.55

TABLE 2-2b
CONCENTRATIONS OF CHEMICALS OF CONCERN IN TOTAL SOIL AT POL WASH RACK (SWMU 127)

	Barium (mg/kg)				Cadmium (mg/kg)			
Field ID	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL
CAN127-1277-0008	98.4	4.589		1.1	0.92	-0.083		0.55
CAN127-1277-0018	101	4.615		1.1	1.1	0.095		0.57
CAN127-1277-0028	157	5.056		1.1	1.2	0.182		0.56
CAN127-1277-0038	158	5.063		1.1	0.86	-0.151		0.55
CAN127-1277-0048	41.7	3.731		1.1	0.275	-1.291	U	0.55
CAN127-1277-0058	84.6	4.438		1.1	1.1	0.095		0.55
CAN127-1278-0000	83.8	4.428		1.1	0.265	-1.328	U	0.53
CAN127-1278-0002	79.4	4.374		1.1	0.27	-1.309	U	0.54
CAN127-1278-0004	227	5.425		2.2	2.6	0.956		1.1
CAN127-1278-0008	204	5.318		1.1	1.2	0.182		0.56
CAN127-1278-0018	242	5.489		2.3	2.4	0.875		1.1
CAN127-1278-0028	189	5.242		1.1	0.71	-0.342		0.56
CAN127-1278-0038	74.4	4.309		1.1	0.88	-0.128		0.55
CAN127-1278-0048	113	4.727		1.1	0.28	-1.273	U	0.56
CAN127-1278-0058	31.6	3.453		1.1	0.28	-1.273	U	0.56
Number	62	62			62	62		
Minimum	12.90				0.49			
Maximum	971				4.20			
Average		4.683			0.80	-0.605		
H statistic	2.08	2.075				2.075		
Standard Deviation	159.5	0.849			0.83	0.812		
95% UCL	194	194			0.94	0.94		
RME	194				0.94			

RL = Laboratory reporting limit

RME = Lower of 95% UCL or maximum detected. 95% UCL concentrations were not calculated for sample sets with n < 3.

J = Estimated value below reporting limit or estimated based on data quality criteria

U = Not detected. Value shown is one-half RL

Where no RL is shown, no analysis was performed.

TABLE 2-2b
CONCENTRATIONS OF CHEMICALS OF CONCERN IN TOTAL SOIL AT POL WASH RACK (SWMU 127)

	Copper (mg/kg)				Lead (mg/kg)			
Field ID	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL
CAN127-1271-0000	8.9	2.186		2.3	7.3	1.988		0.58
CAN127-1271-0002	2.8	1.030	J	4.6	2.7	0.993	J	2.9
CAN127-1271-0004	5	1.609	J	4.6	3.2	1.163		1.2
CAN127-1271-0008	2.2	0.788	J	4.6	2.5	0.916	J	2.9
CAN127-1272-0000	7.3	1.988		2.3	4.4	1.482		2.9
CAN127-1272-0002	2.6	0.956	J	12.1	1.6	0.470	J	6
CAN127-1272-0004	1.9	0.642	J	11.8	2.4	0.875	J	2.9
CAN127-1272-0008	2.2	0.788	J	4.8	2.4	0.875	J	3
CAN127-1273-0000	6.8	1.917		2.1	30.8	3.428		10.5
CAN127-1273-0002	7.9	2.067		2.2	8	2.079		1.1
CAN127-1273-0004	5.2	1.649		4.4	4.2	1.435		0.55
CAN127-1273-0008	2.6	0.956		2.2	3.2	1.163		0.55
CAN127-1273-0018	2.3	0.833	J	4.5	4	1.386		0.56
CAN127-1273-0028	2	0.693	J	2.2	3.1	1.131		2.8
CAN127-1273-0038	2.2	0.788		2.2	2.9	1.065		0.55
CAN127-1273-0048	1.5	0.405	J	2.2	2.3	0.833		0.55
CAN127-1273-0058	1.3	0.262	J	2.1	1.6	0.470		0.54
CAN127-1274-0000	8.5	2.140		2.2	12.6	2.534		2.8
CAN127-1274-0002	8	2.079		2.2	8.4	2.128		0.55
CAN127-1274-0004	2.5	0.916	J	4.4	4.6	1.526		0.55
CAN127-1274-0008	1.1	0.095	J	4.5	3.2	1.163		0.57
CAN127-1274-0018	3	1.099		2.2	4.4	1.482		1.1
CAN127-1274-0028	1.3	0.262	J	4.5	2.9	1.065		0.56
CAN127-1274-0038	1.3	0.262	J	2.2	2.4	0.875		0.56
CAN127-1274-0048	1.2	0.182	J	2.2	2.3	0.833		0.55
CAN127-1274-0058	1.1	0.095	J	2.2	2	0.693		0.54
CAN127-1275-0000	25.9	3.254		2.1	29.2	3.374		5.2
CAN127-1275-0002	5.9	1.775		4.6	6.7	1.902		0.58
CAN127-1275-0004	5.7	1.740	U	11.4	3	1.099		0.57
CAN127-1275-0008	1.8	0.588	J	4.7	2.7	0.993		0.58
CAN127-1275-0018	3.2	1.163	J	11.5	3.1	1.131		0.58
CAN127-1275-0028	1.7	0.531	J	4.5	1.7	0.531		0.56
CAN127-1275-0038	2.7	0.993		2.2	1.9	0.642		0.55
CAN127-1275-0048	1.9	0.642	J	2.2	2.2	0.788		0.56
CAN127-1275-0058	1.5	0.405	J	2.2	2.5	0.916		0.56
CAN127-1276-0000	6.3	1.841		2.1	48.2	3.875		10.4
CAN127-1276-0002	8.4	2.128		2.2	9.2	2.219		1.1
CAN127-1276-0004	4.8	1.569		4.3	5.8	1.758		1.1
CAN127-1276-0008	1.5	0.405	J	4.4	3.1	1.131		1.1
CAN127-1276-0018	2.7	0.993		2.2	4.5	1.504		1.1
CAN127-1276-0028	2.8	1.030		2.2	3.1	1.131		0.55
CAN127-1276-0038	1.8	0.588	J	2.2	2.5	0.916		1.1
CAN127-1276-0048	2	0.693	J	2.2	2.6	0.956		1.1
CAN127-1276-0058	2.7	0.993		2.2	2.6	0.956		1.1
CAN127-1277-0000	7.1	1.960		2.1	43.2	3.766		5.3
CAN127-1277-0002	9.9	2.293		2.2	9.2	2.219		1.1
CAN127-1277-0004	5.4	1.686		2.2	3.05	1.115	U	6.1

TABLE 2-2b
CONCENTRATIONS OF CHEMICALS OF CONCERN IN TOTAL SOIL AT POL WASH RACK (SWMU 127)

	Copper (mg/kg)				Lead (mg/kg)			
Field ID	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL
CAN127-1277-0008	2.8	1.030		2.2	4.6	1.526		0.55
CAN127-1277-0018	5.5	1.705		2.3	7.4	2.001		1.1
CAN127-1277-0028	2.4	0.875		2.2	3.1	1.131		0.56
CAN127-1277-0038	2.2	0.788		2.2	3.4	1.224		0.55
CAN127-1277-0048	2.1	0.742	J	2.2	3	1.099		0.55
CAN127-1277-0058	54.9	4.006		2.2	3.9	1.361		0.55
CAN127-1278-0000	7.3	1.988		2.1	42.4	3.747		5.3
CAN127-1278-0002	9.1	2.208		2.2	7.5	2.015		0.54
CAN127-1278-0004	4.1	1.411	J	4.4	4.9	1.589		0.55
CAN127-1278-0008	4	1.386		2.2	5.8	1.758		0.56
CAN127-1278-0018	3.7	1.308	J	4.6	5.1	1.629		0.57
CAN127-1278-0028	3.1	1.131		2.2	4	1.386		0.56
CAN127-1278-0038	2	0.693	J	2.2	4.2	1.435		0.55
CAN127-1278-0048	1.6	0.470	J	2.2	2.1	0.742		0.56
CAN127-1278-0058	1.8	0.588	J	2.3	2.3	0.833		0.56
Number	62	62			62	62		
Minimum	1.10				1.60			
Maximum	54.9				48.2			
Average	4.92	1.198			6.83	1.459		
H statistic		2.035				2.035		
Standard Deviation	7.45	0.769			10.01	0.800		
95% UCL	5.44	5.44			7.29	7.29		
RME	5.44				7.29			

RL = Laboratory reporting limit

RME = Lower of 95% UCL or maximum detected. 95% UCL concentrations were not calculated for sample sets with n < 3.

J = Estimated value below reporting limit or estimated based on data quality criteria

U = Not detected. Value shown is one-half RL

Where no RL is shown, no analysis was performed.

TABLE 2-2b
CONCENTRATIONS OF CHEMICALS OF CONCERN IN TOTAL SOIL AT POL WASH RACK (SWMU 127)

	Mercury (mg/kg)				Silver (mg/kg)				Thallium (mg/kg)		
Field ID	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL	Result	Qual	RL
CAN127-1271-0000	0.06	-2.813	U	0.12	0.69	-0.371	J	1.2		U	2.3
CAN127-1271-0002	0.06	-2.813	U	0.12	1.1	0.095	J	2.3		UJ	1.2
CAN127-1271-0004	0.06	-2.813	U	0.12	1.2	0.182	J	2.3		UJ	1.2
CAN127-1271-0008	0.055	-2.900	U	0.11	0.84	-0.174	J	2.3		UJ	1.1
CAN127-1272-0000	0.06	-2.813	U	0.12	0.68	-0.386	J	1.2		UJ	1.2
CAN127-1272-0002	0.06	-2.813	U	0.12	3.6	1.281	J	6		UJ	1.2
CAN127-1272-0004	0.06	-2.813	U	0.12	2.6	0.956	J	5.9		UJ	1.2
CAN127-1272-0008	0.06	-2.813	U	0.12	1.4	0.336	J	2.4		UJ	1.2
CAN127-1273-0000	0.05	-2.996	U	0.1	0.5	-0.693	U	1		U	0.52
CAN127-1273-0002	0.055	-2.900	U	0.11	0.55	-0.598	U	1.1	0.13	J	0.55
CAN127-1273-0004	0.055	-2.900	U	0.11	1.1	0.095	U	2.2		UJ	1.1
CAN127-1273-0008	0.055	-2.900	U	0.11	0.55	-0.598	U	1.1		UJ	1.1
CAN127-1273-0018	0.055	-2.900	U	0.11	1.1	0.095	U	2.2		UJ	1.1
CAN127-1273-0028	0.055	-2.900	U	0.11	0.55	-0.598	U	1.1		UJ	1.1
CAN127-1273-0038	0.055	-2.900	U	0.11	0.55	-0.598	U	1.1		U	0.55
CAN127-1273-0048	0.055	-2.900	U	0.11	0.55	-0.598	U	1.1		U	0.55
CAN127-1273-0058	0.055	-2.900	U	0.11	0.55	-0.598	U	1.1		U	0.54
CAN127-1274-0000	0.055	-2.900	U	0.11	0.55	-0.598	U	1.1		U	0.55
CAN127-1274-0002	0.055	-2.900	U	0.11	0.55	-0.598	U	1.1		U	0.55
CAN127-1274-0004	0.055	-2.900	U	0.11	1.1	0.095	U	2.2		UJ	1.1
CAN127-1274-0008	0.055	-2.900	U	0.11	1.15	0.140	U	2.3		UJ	1.1
CAN127-1274-0018	0.055	-2.900	U	0.11	0.55	-0.598	U	1.1		UJ	0.55
CAN127-1274-0028	0.055	-2.900	U	0.11	1.1	0.095	U	2.2		UJ	0.56
CAN127-1274-0038	0.055	-2.900	U	0.11	0.55	-0.598	U	1.1		UJ	0.56
CAN127-1274-0048	0.055	-2.900	U	0.11	0.55	-0.598	U	1.1		UJ	0.55
CAN127-1274-0058	0.055	-2.900	U	0.11	0.55	-0.598	U	1.1		UJ	0.54
CAN127-1275-0000	0.05	-2.996	U	0.1	0.5	-0.693	U	1		U	0.52
CAN127-1275-0002	0.06	-2.813	U	0.12	1.15	0.140	U	2.3		UJ	0.58
CAN127-1275-0004	0.055	-2.900	U	0.11	2.85	1.047	U	5.7		UJ	1.1
CAN127-1275-0008	0.06	-2.813	U	0.12	1.15	0.140	U	2.3		UJ	1.2
CAN127-1275-0018	0.06	-2.813	U	0.12	2.9	1.065	U	5.8		UJ	1.2
CAN127-1275-0028	0.055	-2.900	U	0.11	1.1	0.095	U	2.2		UJ	1.1
CAN127-1275-0038	0.055	-2.900	U	0.11	0.55	-0.598	U	1.1		UJ	0.55
CAN127-1275-0048	0.055	-2.900	U	0.11	0.55	-0.598	U	1.1		UJ	0.56
CAN127-1275-0058	0.055	-2.900	U	0.11	0.55	-0.598	U	1.1		UJ	1.1
CAN127-1276-0000	0.05	-2.996	U	0.1	0.5	-0.693	U	1		U	0.52
CAN127-1276-0002	0.055	-2.900	U	0.11	0.55	-0.598	U	1.1	0.14	J	0.54
CAN127-1276-0004	0.055	-2.900	U	0.11	1.1	0.095	U	2.2		UJ	1.1
CAN127-1276-0008	0.055	-2.900	U	0.11	1.1	0.095	U	2.2		UJ	1.1
CAN127-1276-0018	0.055	-2.900	U	0.11	0.55	-0.598	U	1.1		UJ	1.1
CAN127-1276-0028	0.055	-2.900	U	0.11	0.55	-0.598	U	1.1		UJ	1.1
CAN127-1276-0038	0.055	-2.900	U	0.11	0.55	-0.598	U	1.1		U	0.55
CAN127-1276-0048	0.055	-2.900	U	0.11	0.55	-0.598	U	1.1		U	0.55
CAN127-1276-0058	0.055	-2.900	U	0.11	0.55	-0.598	U	1.1		U	0.54
CAN127-1277-0000	0.055	-2.900	U	0.11	0.43	-0.844	J	1.1		U	0.53
CAN127-1277-0002	0.055	-2.900	U	0.11	0.47	-0.755	J	1.1		U	0.54
CAN127-1277-0004	0.055	-2.900	U	0.11	0.47	-0.755	J	1.1		UJ	1.1

TABLE 2-2b
CONCENTRATIONS OF CHEMICALS OF CONCERN IN TOTAL SOIL AT POL WASH RACK (SWMU 127)

	Mercury (mg/kg)				Silver (mg/kg)				Thallium (mg/kg)		
Field ID	Result	Log Result	Qual	RL	Result	Log Result	Qual	RL	Result	Qual	RL
CAN127-1277-0008	0.055	-2.900	U	0.11	0.54	-0.616	J	1.1		UJ	1.1
CAN127-1277-0018	0.055	-2.900	U	0.11	0.55	-0.598	U	1.1		U	0.57
CAN127-1277-0028	0.055	-2.900	U	0.11	0.43	-0.844	J	1.1		U	0.56
CAN127-1277-0038	0.055	-2.900	U	0.11	0.51	-0.673	J	1.1		UJ	1.1
CAN127-1277-0048	0.055	-2.900	U	0.11	0.48	-0.734	J	1.1		U	0.55
CAN127-1277-0058	0.055	-2.900	U	0.11	0.35	-1.050	J	1.1		U	0.55
CAN127-1278-0000	0.11	-2.207		0.11	0.53	-0.635	J	1.1		U	0.53
CAN127-1278-0002	0.055	-2.900	U	0.11	0.45	-0.799	J	1.1		U	0.54
CAN127-1278-0004	0.055	-2.900	U	0.11	1.2	0.182	J	2.2		UJ	1.1
CAN127-1278-0008	0.055	-2.900	U	0.11	0.8	-0.223	J	1.1		U	0.56
CAN127-1278-0018	0.055	-2.900	U	0.11	1.6	0.470	J	2.3		UJ	1.1
CAN127-1278-0028	0.055	-2.900	U	0.11	0.48	-0.734	J	1.1		UJ	1.1
CAN127-1278-0038	0.055	-2.900	U	0.11	0.62	-0.478	J	1.1		U	0.55
CAN127-1278-0048	0.055	-2.900	U	0.11	0.55	-0.598	U	1.1		UJ	0.56
CAN127-1278-0058	0.055	-2.900	U	0.11	0.55	-0.598	U	1.1		UJ	0.56
Number	62	62			62	62.000			2		
Minimum	0.11				0.35				0.13		
Maximum	0.11				3.00				0.14		
Average	0.06	-2.880			0.86	-0.319			0.14		
H statistic		1.670				1.860					
Standard Deviation	0.01	0.096			0.64	0.516					
95% UCL	0.06	0.06			0.94	0.94					
RME	0.06				0.94				0.14		

RL = Laboratory reporting limit

RME = Lower of 95% UCL or maximum detected. 95% UCL concentrations were not calculated for sample sets with n < 3.

J = Estimated value below reporting limit or estimated based on data quality criteria

U = Not detected. Value shown is one-half RL

Where no RL is shown, no analysis was performed.

TABLE 2-3a

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127
CANNON AFB

LOCATOR	CAN127-2709-0000			CAN127-2709-0005			CAN127-2709-0010			CAN127-2710-0000			CAN127-2710-0005			CAN127-2710-0010		
LAB SAMPLE NUMBER	0398710011SA			0398710009SA			0398710008SA			0398710005SA			0398710003SA			0398710007SA		
COLLECT DATE	12/13/94			12/13/94			12/13/94			12/13/94			12/13/94			12/13/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (µg/kg)																		
Acetone	5000	14000	J	7.3	12	J	11	11		7500	14000	J	12	12		11	11	
Benzene	<	7000	U	<	5.8	U	<	5.7	U	3800	7200	J	<	5.9	U	<	5.5	U
Ethylbenzene	3900	7000	J	<	5.8	U	<	5.7	U	54000	7200		<	5.9	U	<	5.5	U
Methylene chloride	<	7000	U	<	5.8	U	<	5.7	U	<	7200	U	<	5.9	U	<	5.5	U
Toluene	14000	7000		<	5.8	U	<	5.7	U	82000	7200		<	5.9	U	<	5.5	U
Xylenes (total)	33000	7000		<	5.8	U	<	5.7	U	260000	7200		<	5.9	U	<	5.5	U
Semivolatile Organics (µg/kg)																		
Acenaphthene	<	37000	U	<	380	U	<	380	U	<	38000	U	<	390	U	<	360	U
Anthracene	<	37000	U	<	380	U	<	380	U	<	38000	U	<	390	U	<	360	U
Benzo(a)anthracene	<	37000	U	<	380	U	<	380	U	<	38000	U	<	390	U	<	360	U
Benzo(a)pyrene	<	37000	U	<	380	U	<	380	U	<	38000	U	<	390	U	<	360	U
Benzo(b)fluoranthene	<	37000	U	<	380	U	<	380	U	<	38000	U	<	390	U	<	360	U
Benzo(g,h,i)perylene	<	37000	U	<	380	U	<	380	U	<	38000	U	<	390	U	<	360	U
Benzo(k)fluoranthene	<	37000	U	<	380	U	<	380	U	<	38000	U	<	390	U	<	360	U
Carbazole	<	37000	U	<	380	U	<	380	U	<	38000	U	<	390	U	<	360	U
Chrysene	<	37000	U	<	380	U	<	380	U	<	38000	U	<	390	U	<	360	U
Dibenz(a,h)anthracene	<	37000	U	<	380	U	<	380	U	<	38000	U	<	390	U	<	360	U
Fluoranthene	<	37000	U	<	380	U	<	380	U	<	38000	U	<	390	U	<	360	U
Fluorene	<	37000	U	<	380	U	<	380	U	<	38000	U	<	390	U	<	360	U
Indeno(1,2,3-cd)pyrene	<	37000	U	<	380	U	<	380	U	<	38000	U	<	390	U	<	360	U
2-Methylnaphthalene	4900	37000	J	<	380	U	<	380	U	40000	38000		<	390	U	<	360	U
Naphthalene	<	37000	U	<	380	U	<	380	U	21000	38000	J	<	390	U	<	360	U
Phenanthrene	<	37000	U	<	380	U	<	380	U	<	38000	U	<	390	U	<	360	U
Pyrene	<	37000	U	<	380	U	<	380	U	<	38000	U	<	390	U	<	360	U

Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Appendix A-2a.
J = Estimated value.
R = Rejected value. D = Sample was diluted for analysis.
U = Nondetected value. RL = Reporting Limit.
(1) Duplicate for preceding sample number.

TABLE 2-3a

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127
CANNON AFB

LOCATOR	CAN127-2709-0000			CAN127-2709-0005			CAN127-2709-0010			CAN127-2710-0000			CAN127-2710-0005			CAN127-2710-0010		
LAB SAMPLE NUMBER	0398710011SA			0398710009SA			0398710008SA			0398710005SA			0398710003SA			0398710007SA		
COLLECT DATE	12/13/94			12/13/94			12/13/94			12/13/94			12/13/94			12/13/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																		
Aluminum	9240	11.2		7350	23.1		6950	22.8		11100	11.5		4530	58.8		4900	11	
Arsenic	3	0.56		2.3	0.58		1.3	0.57		2.4	0.58		1.6	0.59		0.88	0.55	
Barium	638	1.1	J	866	2.3	J	1540	2.3	J	205	1.2	J	329	5.9	J	128	1.1	J
Beryllium	0.43	0.22		0.43	0.46	J	0.4	0.46	J	0.55	0.23		<	1.2	U	0.34	0.22	
Cadmium	0.64	0.56		<	1.2	U	<	1.1	U	<	0.58	U	<	2.9	U	<	0.55	U
Calcium	53500	22.4		204000	46.2		135000	45.5		20500	23		254000	118		75700	22	
Chromium	11.3	1.1		4.4	2.3		4.6	2.3		10.5	1.2		<	5.9	U	3.9	1.1	
Cobalt	8	1.1		3.2	2.3		<	2.3	U	5.3	1.2		3	5.9	J	2.5	1.1	
Copper	8.5	2.2		4.5	4.6	J	3	4.6	J	8.8	2.3		<	11.8	U	2.1	2.2	J
Iron	10800	11.2		5780	23.1		5300	22.8		10400	11.5		3560	58.8		4120	11	
Lead	6.4	0.56	J	3.9	0.58	J	3.5	0.57	J	7.6	0.58	J	3.1	0.59	J	3.3	0.55	J
Magnesium	2220	22.4		3480	46.2		3490	45.5		2000	23		3600	118		2520	22	
Manganese	340	1.1		80.1	2.3		47	2.3		174	1.2		36.5	5.9		60.8	1.1	
Nickel	10.5	4.5		6.9	9.2	J	4.9	9.1	J	9	4.6		6.5	23.5	J	5.5	4.4	
Potassium	1330	560		1330	1150		1730	1140		1920	576		735	2940	J	1300	550	
Sodium	<	560	U	<	1150	U	<	1140	U	<	576	U	<	2940	U	<	550	U
Thallium	<	1.1	UJ	<	1.2	UJ	<	2.3	UJ	<	1.2	UJ	<	2.4	UJ	<	1.1	UJ
Vanadium	18.5	1.1		15.3	2.3		12.9	2.3		19.8	1.2		11.1	5.9		11.7	1.1	
Zinc	25.2	2.2		14.2	4.6		12	4.6		25.4	2.3		9.8	11.8	J	10	2.2	
TRPH (mg/kg)																		
Total Recoverable Petroleum Hydrocarb	<	44.8	U	<	46.2	U	<	45.5	U	11600	1150		<	47	U	<	44	U

Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Appendix A-2a.
J = Estimated value.
R = Rejected value. D = Sample was diluted for analysis.
U = Nondetected value. RL = Reporting Limit.
(1) Duplicate for preceding sample number.

TABLE 2-3a

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127
CANNON AFB

LOCATOR	CAN127-2711-0000			CAN127-2711-0005			CAN127-2711-0010			CAN127-2711-0015			CAN127-2711-0020		
LAB SAMPLE NUMBER	0397370007SA			0397370008SA			0397370009SA			0397370010SA			0397370011SA		
COLLECT DATE	12/09/94			12/09/94			12/09/94			12/09/94			12/09/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (µg/kg)															
Acetone	<	11	U	4.6	11	J	5.3	11	J	7	11	J	5	11	J
Benzene	<	5.4	U	<	5.3	U	<	5.7	U	<	5.5	U	<	5.6	U
Ethylbenzene	<	5.4	U	<	5.3	U	<	5.7	U	<	5.5	U	<	5.6	U
Methylene chloride	<	5.4	U	<	5.3	U	1.3	5.7	J	<	5.5	U	1.2	5.6	J
Toluene	<	5.4	U	<	5.3	U	<	5.7	U	<	5.5	U	<	5.6	U
Xylenes (total)	<	5.4	U	<	5.3	U	<	5.7	U	<	5.5	U	<	5.6	U
Semivolatile Organics (µg/kg)															
Acenaphthene	<	360	U	<	350	U	<	370	U	<	370	U	<	370	U
Anthracene	68	360	J	<	350	U	<	370	U	<	370	U	<	370	U
Benzo(a)anthracene	910	360		<	350	U	<	370	U	<	370	U	<	370	U
Benzo(a)pyrene	1100	360		<	350	U	<	370	U	<	370	U	<	370	U
Benzo(b)fluoranthene	1100	360	J	<	350	UJ	<	370	UJ	<	370	UJ	<	370	UJ
Benzo(g,h,i)perylene	700	360		<	350	U	<	370	U	<	370	U	<	370	U
Benzo(k)fluoranthene	1600	360		<	350	U	<	370	U	<	370	U	<	370	U
Carbazole	170	360	J	<	350	U	<	370	U	<	370	U	<	370	U
Chrysene	1500	360		<	350	U	<	370	U	<	370	U	<	370	U
Dibenz(a,h)anthracene	280	360	J	<	350	U	<	370	U	<	370	U	<	370	U
Fluoranthene	2800	360		<	350	U	<	370	U	<	370	U	<	370	U
Fluorene	<	360	U	<	350	U	<	370	U	<	370	U	<	370	U
Indeno(1,2,3-cd)pyrene	700	360		<	350	U	<	370	U	<	370	U	<	370	U
2-Methylnaphthalene	<	360	U	<	350	U	<	370	U	<	370	U	<	370	U
Naphthalene	<	360	U	<	350	U	<	370	U	<	370	U	<	370	U
Phenanthrene	1100	360		<	350	U	<	370	U	<	370	U	<	370	U
Pyrene	2300	360		<	350	U	<	370	U	<	370	U	<	370	U

Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Appendix A-2a.
J = Estimated value.
R = Rejected value. D = Sample was diluted for analysis.
U = Nondetected value. RL = Reporting Limit.
(1) Duplicate for preceding sample number.

TABLE 2-3a

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127
CANNON AFB

LOCATOR	CAN127-2711-0000			CAN127-2711-0005			CAN127-2711-0010			CAN127-2711-0015			CAN127-2711-0020		
LAB SAMPLE NUMBER	0397370007SA			0397370008SA			0397370009SA			0397370010SA			0397370011SA		
COLLECT DATE	12/09/94			12/09/94			12/09/94			12/09/94			12/09/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)															
Aluminum	11000	10.8	J	7000	10.6	J	6940	22.7	J	10200	11.1	J	6390	11.2	J
Arsenic	2.4	0.54		1.6	0.53		1.5	0.57		2	0.55		1.9	0.56	
Barium	105	1.1	J	86.2	1.1	J	232	2.3	J	241	1.1	J	54.9	1.1	J
Beryllium	0.5	0.22		0.3	0.21		0.47	0.45		0.5	0.22		0.58	0.22	
Cadmium	<	0.54	U	<	0.53	U	<	1.1	U	<	0.55	U	<	0.56	U
Calcium	19300	21.6		63300	21.1		161000	45.3		63500	22.2		57400	22.4	
Chromium	15.5	1.1		6.4	1.1		4.7	2.3		7.4	1.1		5.3	1.1	
Cobalt	3.4	1.1		2.1	1.1		2.5	2.3		3	1.1		3.3	1.1	
Copper	7.5	2.2		4.5	2.1		2.6	4.5	J	4.8	2.2		4.7	2.2	
Iron	9760	10.8	J	6140	10.6	J	5560	22.7	J	7640	11.1	J	5610	11.2	J
Lead	83.9	5.4		4.5	0.53		4.1	0.57		6.9	0.55		6.2	0.56	
Magnesium	1980	21.6		2070	21.1		4690	45.3		4600	22.2		3890	22.4	
Manganese	183	1.1	J	83.9	1.1	J	55.9	2.3	J	111	1.1	J	111	1.1	J
Nickel	8.1	4.3		6.3	4.2		8.5	9.1	J	8	4.4		7.2	4.5	
Potassium	2030	541		1310	528		1600	1130		2620	554		2040	559	
Sodium	<	541	U	<	528	U	<	1130	U	248	554	J	<	559	U
Thallium	<	0.54	U	<	0.53	U	<	1.1	UJ	<	1.1	UJ	<	0.56	U
Vanadium	17.8	1.1		12.5	1.1		13.5	2.3		15.4	1.1		15.6	1.1	
Zinc	34.7	2.2		15.1	2.1		13.3	4.5		20.8	2.2		13.7	2.2	
TRPH (mg/kg)															
Total Recoverable Petroleum Hydrocarbon	130	43.3		<	42.2	U	<	45.3	U	<	44.3	U	<	44.7	U

Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Appendix A-2a.

J = Estimated value.

R = Rejected value. D = Sample was diluted for analysis.

U = Nondetected value. RL = Reporting Limit.

(1) Duplicate for preceding sample number.

TABLE 2-3a

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127
CANNON AFB

LOCATOR	CAN127-2711-0025			CAN127-2711-0030			CAN127-2711-0035			CAN127-2711-0040			CAN127-2711-0050			CAN127-2711-0060		
LAB SAMPLE NUMBER	0397370012SA			0397370013SA			0397740013SA			0397740014SA			0397740015SA			0397740016SA		
COLLECT DATE	12/09/94			12/09/94			12/09/94			12/09/94			12/09/94			12/09/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (µg/kg)																		
Acetone	8.6	11	J	<	11	U	1.3	11	J	<	11	U	<	11	U	<	11	U
Benzene	<	5.6	U	<	5.6	U	<	5.6	U	<	5.5	U	<	5.6	U	<	5.6	U
Ethylbenzene	<	5.6	U	<	5.6	U	<	5.6	U	<	5.5	U	<	5.6	U	<	5.6	U
Methylene chloride	<	5.6	U	<	5.6	U	1.6	5.6	UJ	1.2	5.5	UJ	1.5	5.6	UJ	1.6	5.6	UJ
Toluene	<	5.6	U	<	5.6	U	<	5.6	U	<	5.5	U	<	5.6	U	<	5.6	U
Xylenes (total)	<	5.6	U	<	5.6	U	<	5.6	U	<	5.5	U	<	5.6	U	<	5.6	U
Semivolatile Organics (µg/kg)																		
Acenaphthene	<	370	U	<	370	U	<	370	U	<	360	U	<	370	U	<	370	U
Anthracene	<	370	U	<	370	U	<	370	U	<	360	U	<	370	U	<	370	U
Benzo(a)anthracene	<	370	U	<	370	U	<	370	U	<	360	U	<	370	U	<	370	U
Benzo(a)pyrene	<	370	U	<	370	U	<	370	U	<	360	U	<	370	U	<	370	U
Benzo(b)fluoranthene	<	370	UJ	<	370	UJ	<	370	U	<	360	U	<	370	U	<	370	U
Benzo(g,h,i)perylene	<	370	U	<	370	U	<	370	U	<	360	U	<	370	U	<	370	U
Benzo(k)fluoranthene	<	370	U	<	370	U	<	370	U	<	360	U	<	370	U	<	370	U
Carbazole	<	370	U	<	370	U	<	370	U	<	360	U	<	370	U	<	370	U
Chrysene	<	370	U	<	370	U	<	370	U	<	360	U	<	370	U	<	370	U
Dibenz(a,h)anthracene	<	370	U	<	370	U	<	370	U	<	360	U	<	370	U	<	370	U
Fluoranthene	<	370	U	<	370	U	<	370	U	<	360	U	<	370	U	<	370	U
Fluorene	<	370	U	<	370	U	<	370	U	<	360	U	<	370	U	<	370	U
Indeno(1,2,3-cd)pyrene	<	370	U	<	370	U	<	370	U	<	360	U	<	370	U	<	370	U
2-Methylnaphthalene	<	370	U	<	370	U	<	370	U	<	360	U	<	370	U	<	370	U
Naphthalene	<	370	U	<	370	U	<	370	U	<	360	U	<	370	U	<	370	U
Phenanthrene	<	370	U	<	370	U	<	370	U	<	360	U	<	370	U	<	370	U
Pyrene	<	370	U	<	370	U	<	370	U	<	360	U	<	370	U	<	370	U

Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Appendix A-2a_.
J = Estimated value.
R = Rejected value. D = Sample was diluted for analysis.
U = Nondetected value. RL = Reporting Limit.
(1) Duplicate for preceding sample number.

TABLE 2-3a

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127
CANNON AFB

LOCATOR	CAN127-2711-0025			CAN127-2711-0030			CAN127-2711-0035			CAN127-2711-0040			CAN127-2711-0050			CAN127-2711-0060		
LAB SAMPLE NUMBER	0397370012SA			0397370013SA			0397740013SA			0397740014SA			0397740015SA			0397740016SA		
COLLECT DATE	12/09/94			12/09/94			12/09/94			12/09/94			12/09/94			12/09/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																		
Aluminum	2880	22.3	J	7120	11.3	J	7040	11.2		5410	10.9		4770	11.1		3590	11.1	
Arsenic	1.7	0.56		1.4	0.56		1.3	0.56		2.2	0.55		1.6	0.56		1.8	0.56	
Barium	109	2.2	J	144	1.1	J	27	1.1		22.5	1.1		42.7	1.1		24.5	1.1	
Beryllium	0.29	0.45	J	0.21	0.23	J	0.27	0.22		0.27	0.22		0.24	0.22		0.19	0.22	J
Cadmium	<	1.1	U	<	0.56	U	<	0.56	U	<	0.55	U	<	0.56	U	<	0.56	U
Calcium	190000	44.6		81300	22.6		30700	22.3		30400	21.9		64400	22.3		32400	22.2	
Chromium	2.7	2.2		5.4	1.1		6.4	1.1		4.5	1.1		5.5	1.1		3.2	1.1	
Cobalt	<	2.2	U	1.1	1.1		1.3	1.1		1.7	1.1		2.3	1.1		1.4	1.1	
Copper	1.6	4.5	J	1.8	2.3	J	2.1	2.2	J	2.1	2.2	J	2.2	2.2		2.1	2.2	J
Iron	2190	22.3	J	4590	11.3	J	5200	11.2		4690	10.9		3930	11.1		3450	11.1	
Lead	3	0.56		3.3	0.56		2.8	0.56	J	3.5	0.55	J	2.3	0.56	J	1.9	0.56	J
Magnesium	5440	44.6		6760	22.6		6810	22.3	J	3670	21.9		5350	22.3	J	3520	22.2	J
Manganese	15.7	2.2	J	36.5	1.1	J	40.7	1.1		50.9	1.1		46.3	1.1		35.8	1.1	
Nickel	3.3	8.9	J	5.7	4.5		4.6	4.5		4	4.4	J	4.2	4.5	J	2	4.4	J
Potassium	842	1120	J	1250	564		1310	558		1180	547		936	557		665	556	
Sodium	<	1120	U	<	564	U	<	558	U	<	547	U	<	557	U	<	556	U
Thallium	<	1.1	UJ	0.16	0.56	J	<	1.1	UJ	<	1.1	UJ	<	0.56	UJ	<	0.56	UJ
Vanadium	11.8	2.2		17.1	1.1		23.2	1.1		17	1.1		19.8	1.1		15.1	1.1	
Zinc	5.6	4.5		10.7	2.3		10.8	2.2		10.6	2.2		8.8	2.2		7.8	2.2	
TRPH (mg/kg)																		
Total Recoverable Petroleum Hydrocarbo	<	44.6	U	<	45.1	U	<	44.7	UJ	<	43.8	UJ	<	44.6	UJ	<	44.4	UJ

Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Appendix A-2a.
J = Estimated value.
R = Rejected value. D = Sample was diluted for analysis.
U = Nondetected value. RL = Reporting Limit.
(1) Duplicate for preceding sample number.

TABLE 2-3b

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127
CANNON AFB

LOCATOR	CAN127-2712-0000			CAN127-2712-0005			CAN127-2712-0010			CAN127-2712-0015			CAN127-2712-0020		
LAB SAMPLE NUMBER	0397130001SA			0397130002SA			0397130003SA			0397130004SA			0397130005SA		
COLLECT DATE	12/08/94			12/08/94			12/08/94			12/08/94			12/08/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (µg/kg)															
Acetone	<	11	U	<	11	U	14	11		<	11	U	<	11	U
4-Methyl-2-pentanone (MIBK)	<	11	U	<	11	U	<	11	U	<	11	U	<	11	U
Methylene chloride	<	6	U	<	6.1	U	<	5.7	U	<	5.5	U	<	6.9	U
Toluene	<	5.5	U	<	5.5	U	<	5.4	U	<	5.5	U	<	5.6	U
Semivolatile Organics (µg/kg)															
Anthracene	56	360	J	<	370	U	<	360	U	<	360	U	<	370	U
Benzo(a)anthracene	660	360		<	370	U	<	360	U	<	360	U	<	370	U
Benzo(a)pyrene	800	360		<	370	U	<	360	U	<	360	U	<	370	U
Benzo(b)fluoranthene	1600	360		<	370	U	<	360	U	<	360	U	<	370	U
Benzo(g,h,i)perylene	640	360		<	370	U	<	360	U	<	360	U	<	370	U
bis(2-Ethylhexyl)phthalate	68	360	J	<	370	U	<	360	U	<	360	U	<	370	U
Carbazole	120	360	J	<	370	U	<	360	U	<	360	U	<	370	U
Chrysene	1000	360		<	370	U	<	360	U	<	360	U	<	370	U
Dibenz(a,h)anthracene	120	360	J	<	370	U	<	360	U	<	360	U	<	370	U
Fluoranthene	1800	360		<	370	U	<	360	U	<	360	U	<	370	U
Indeno(1,2,3-cd)pyrene	570	360		<	370	U	<	360	U	<	360	U	<	370	U
Phenanthrene	880	360		<	370	U	<	360	U	<	360	U	<	370	U
Pyrene	1900	360		<	370	U	<	360	U	<	360	U	<	370	U
Metals (mg/kg)															
Aluminum	11800	11	J	6970	22.1	J	4560	10.9	J	4270	11	J	9520	22.6	J
Arsenic	2.4	0.55		2.3	0.55		1.5	0.54		1.7	0.55		1.8	0.56	
Barium	108	1.1		197	2.2		169	1.1		360	1.1		337	2.3	
Beryllium	0.43	0.22		0.57	0.44		0.27	0.22		0.29	0.22		0.64	0.45	

Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Table A-2b.

J = Estimated value.
R = Rejected value. D = Sample was diluted for analysis.
U = Nondetected value. RL = Reporting Limit.

TABLE 2-3b

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127
CANNON AFB

LOCATOR	CAN127-2712-0000			CAN127-2712-0005			CAN127-2712-0010			CAN127-2712-0015			CAN127-2712-0020		
LAB SAMPLE NUMBER	0397130001SA			0397130002SA			0397130003SA			0397130004SA			0397130005SA		
COLLECT DATE	12/08/94			12/08/94			12/08/94			12/08/94			12/08/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Calcium	12200	21.9	J	173000	44.3	J	96200	21.7	J	80500	22	J	195000	45.1	J
Chromium	21.4	1.1	J	6	2.2	J	3.8	1.1	J	4	1.1	J	7	2.3	J
Cobalt	3.7	1.1		3.4	2.2		2.1	1.1		2.4	1.1		<	2.3	U
Copper	7.4	2.2		5.7	4.4		2.5	2.2		2.1	2.2	J	3.9	4.5	J
Iron	9550	11	J	6380	22.1	J	3870	10.9	J	3700	11	J	6720	22.6	J
Lead	60.9	5.5	J	6.4	1.1	J	3.9	0.54	J	4.2	0.55	J	3.8	0.56	J
Magnesium	1880	21.9		3290	44.3		2640	21.7		2690	22		7850	45.1	
Manganese	167	1.1	J	99.2	2.2	J	62.9	1.1	J	65.8	1.1	J	61.5	2.3	J
Nickel	7.5	4.4		8.8	8.9	J	5.3	4.3		5.3	4.4		4.8	9	J
Potassium	2090	548		1410	1110		1200	543		1230	551		2470	1130	
Thallium	0.16	0.55	J	0.12	1.1	J	0.12	1.1	J	0.11	1.1	J	0.11	1.1	J
Vanadium	17.5	1.1	J	17	2.2	J	12.5	1.1	J	10.9	1.1	J	15.7	2.3	J
Zinc	41.1	2.2		18.3	4.4		9.6	2.2		9.9	2.2		16.4	4.5	
TRPH (mg/kg)															
Total Recoverable Petroleum Hydrocarb	168	43.9		<	44.3	U	<	43.4	U	48	44.1		293	45.1	

Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Table A-2b.

J = Estimated value.

R = Rejected value. D = Sample was diluted for analysis.

U = Nondetected value. RL = Reporting Limit.

TABLE 2-3b

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127
CANNON AFB

LOCATOR	CAN127-2712-0025			CAN127-2712-0030			CAN127-2712-0035			CAN127-2712-0040			CAN127-2712-0050			CAN127-2712-0060		
LAB SAMPLE NUMBER	0397130006SA			0397130007SA			0397130008SA			0397130009SA			0397130010SA			0397130011SA		
COLLECT DATE	12/08/94			12/08/94			12/08/94			12/08/94			12/08/94			12/08/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (µg/kg)																		
Acetone	<	11	U	<	11	U	<	12	U	<	11	U	<	11	U	<	11	U
4-Methyl-2-pentanone (MIBK)	<	11	U	<	11	U	<	12	U	<	11	U	<	11	U	<	11	U
Methylene chloride	<	6	U	<	6.7	U	<	5.8	U	<	6	U	<	6	U	<	5.6	U
Toluene	<	5.6	U	<	5.6	U	<	5.8	U	<	5.6	U	<	5.6	U	<	5.6	U
Semivolatile Organics (µg/kg)																		
Anthracene	<	370	U	<	370	U	<	380	U	<	370	U	<	370	U	<	370	U
Benzo(a)anthracene	<	370	U	<	370	U	<	380	U	<	370	U	<	370	U	<	370	U
Benzo(a)pyrene	<	370	U	<	370	U	<	380	U	<	370	U	<	370	U	<	370	U
Benzo(b)fluoranthene	<	370	U	<	370	U	<	380	U	<	370	U	<	370	U	<	370	U
Benzo(g,h,i)perylene	<	370	U	<	370	U	<	380	U	<	370	U	<	370	U	<	370	U
bis(2-Ethylhexyl)phthalate	<	370	U	<	370	U	<	380	U	<	370	U	<	370	U	<	370	U
Carbazole	<	370	U	<	370	U	<	380	U	<	370	U	<	370	U	<	370	U
Chrysene	<	370	U	<	370	U	<	380	U	<	370	U	<	370	U	<	370	U
Dibenz(a,h)anthracene	<	370	U	<	370	U	<	380	U	<	370	U	<	370	U	<	370	U
Fluoranthene	<	370	U	<	370	U	<	380	U	<	370	U	<	370	U	<	370	U
Indeno(1,2,3-cd)pyrene	<	370	U	<	370	U	<	380	U	<	370	U	<	370	U	<	370	U
Phenanthrene	<	370	U	<	370	U	<	380	U	<	370	U	<	370	U	<	370	U
Pyrene	<	370	U	<	370	U	<	380	U	<	370	U	<	370	U	<	370	U
Metals (mg/kg)																		
Aluminum	6100	11.1	J	6870	11.3	J	5210	11.5	J	5330	11.1	J	5480	11.3	J	4600	11.2	J
Arsenic	2	0.56		1.8	0.56		1.3	0.58		1.1	0.56		1.4	0.56		1.8	0.56	
Barium	108	1.1		91.4	1.1		28.6	1.2		24	1.1		59.9	1.1		28.4	1.1	
Beryllium	0.21	0.22	J	0.32	0.23		0.15	0.23	J	0.17	0.22	J	0.19	0.23	J	0.15	0.22	J

Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Table A-2b.
J = Estimated value.
R = Rejected value. D = Sample was diluted for analysis.
U = Nondetected value. RL = Reporting Limit.

TABLE 2-3b

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127
CANNON AFB

LOCATOR	CAN127-2712-0025			CAN127-2712-0030			CAN127-2712-0035			CAN127-2712-0040			CAN127-2712-0050			CAN127-2712-0060		
LAB SAMPLE NUMBER	0397130006SA			0397130007SA			0397130008SA			0397130009SA			0397130010SA			0397130011SA		
COLLECT DATE	12/08/94			12/08/94			12/08/94			12/08/94			12/08/94			12/08/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Calcium	88400	22.2	J	66000	22.6	J	66700	23	J	35500	22.2	J	51100	22.5	J	26900	22.3	J
Chromium	4.8	1.1	J	5.4	1.1	J	4.2	1.2	J	5.8	1.1	J	6.1	1.1	J	5.2	1.1	J
Cobalt	2	1.1		2.2	1.1		1.5	1.2		1.5	1.1		2.7	1.1		1.2	1.1	
Copper	2.8	2.2		2.7	2.3		1.8	2.3	J	3.6	2.2		2.7	2.3		2.3	2.2	
Iron	4350	11.1	J	5080	11.3	J	3520	11.5	J	3690	11.1	J	4050	11.3	J	3700	11.2	J
Lead	3.8	0.56	J	3.3	0.56	J	2.3	0.58	J	1.9	0.56	J	2.5	0.56	J	2	2.8	J
Magnesium	6090	22.2		5900	22.6		6920	23		9070	22.2		15000	22.5		10000	22.3	
Manganese	56.5	1.1	J	57.8	1.1	J	34.2	1.2	J	48.4	1.1	J	80.8	1.1	J	37.1	1.1	J
Nickel	5.7	4.4		5.9	4.5		3.9	4.6	J	4.5	4.4		4.3	4.5	J	3.8	4.5	J
Potassium	1640	556		1630	565		1040	576		1040	555		1070	563		936	558	
Thallium	<	0.56	U	<	0.56	U	0.12	0.58	J	<	0.56	U	<	0.56	U	<	0.56	U
Vanadium	13.3	1.1	J	20.5	1.1	J	16.1	1.2	J	18.6	1.1	J	21.5	1.1	J	16	1.1	J
Zinc	10.5	2.2		12	2.3		8.1	2.3		9.8	2.2		9.5	2.3		14	2.2	
TRPH (mg/kg)																		
Total Recoverable Petroleum Hydrocar	<	44.5	U	<	45.2	U	<	46	U	67.4	44.4		<	45.1	U	<	44.6	U

Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.

A complete summary of chemical results are presented in Table A-2b.

J = Estimated value.

R = Rejected value. D = Sample was diluted for analysis.

U = Nondetected value. RL = Reporting Limit.

TABLE 2-3b

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127
CANNON AFB

LOCATOR	CAN127-2713-0000			CAN127-2713-0000			CAN127-2713-0005			CAN127-2713-0010			CAN127-2713-0010			CAN127-2713-0015		
LAB SAMPLE NUMBER	0397380001SA			0397380013SA			0397380002SA			0397380003RA			0397380003SA			0397380004RA		
COLLECT DATE	12/09/94			12/09/94			12/09/94			12/09/94			12/09/94			12/09/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (µg/kg)																		
Acetone	<	11	U				<	11	U				<	11	U			
4-Methyl-2-pentanone (MIBK)	<	11	U				<	11	U				<	11	U			
Methylene chloride	6.7	6.7					<	6.5	U				<	7	U			
Toluene	1.3	5.5	J				<	5.5	U				1.2	5.6	J			
Semivolatile Organics (µg/kg)																		
Anthracene	<	360	U	<	360	UJ	<	360	UJ	<	370	UJ	<	370	U	<	380	UJ
Benzo(a)anthracene	95	360	J	89	360	J	91	360	J	<	370	UJ	<	370	U	<	380	UJ
Benzo(a)pyrene	130	360	J	110	360	J	100	360	J	<	370	UJ	<	370	U	<	380	UJ
Benzo(b)fluoranthene	310	360	J	230	360	J	250	360	J	<	370	UJ	<	370	U	<	380	UJ
Benzo(g,h,i)perylene	100	360	J	<	360	UJ	<	360	UJ	<	370	UJ	<	370	U	<	380	UJ
bis(2-Ethylhexyl)phthalate	<	780	U	<	360	UJ	<	360	UJ	<	370	UJ	<	410	U	<	380	UJ
Carbazole	<	360	U	<	360	UJ	<	360	UJ	<	370	UJ	<	370	U	<	380	UJ
Chrysene	190	360	J	160	360	J	150	360	J	<	370	UJ	<	370	U	<	380	UJ
Dibenz(a,h)anthracene	43	360	J	<	360	UJ	<	360	UJ	<	370	UJ	<	370	U	<	380	UJ
Fluoranthene	310	360	J	310	360	J	310	360	J	<	370	UJ	<	370	U	<	380	UJ
Indeno(1,2,3-cd)pyrene	88	360	J	<	360	UJ	<	360	UJ	<	370	UJ	<	370	U	<	380	UJ
Phenanthrene	110	360	J	100	360	J	100	360	J	<	370	UJ	<	370	U	<	380	UJ
Pyrene	260	360	J	260	360	J	250	360	J	<	370	UJ	<	370	U	<	380	UJ
Metals (mg/kg)																		
Aluminum	14500	11	J				11700	10.9	J				6930	22.4	J			
Arsenic	2.6	0.55					2.6	0.55					2.5	0.56				
Barium	170	1.1	J				176	1.1	J				253	2.2	J			
Beryllium	0.71	0.22	J				0.76	0.22	J				<	0.45	UJ			

Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Table A-2b.

J = Estimated value.
R = Rejected value. D = Sample was diluted for analysis.
U = Nondetected value. RL = Reporting Limit.

TABLE 2-3b

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127
CANNON AFB

LOCATOR	CAN127-2713-0000			CAN127-2713-0000			CAN127-2713-0005			CAN127-2713-0010			CAN127-2713-0010			CAN127-2713-0015		
LAB SAMPLE NUMBER	0397380001SA			0397380013SA			0397380002SA			0397380003RA			0397380003SA			0397380004RA		
COLLECT DATE	12/09/94			12/09/94			12/09/94			12/09/94			12/09/94			12/09/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Calcium	41400	21.9	J				40100	21.9	J				135000	44.8	J			
Chromium	12.9	1.1	J				11.6	1.1	J				11.7	2.2	J			
Cobalt	4.6	1.1	J				4.7	1.1	J				3	2.2	J			
Copper	8.5	2.2	J				8.6	2.2	J				5.6	4.5	J			
Iron	11500	11	J				10900	10.9	J				6410	22.4	J			
Lead	13.4	2.7	J				12.5	2.7	J				4.9	0.56	J			
Magnesium	2760	21.9					2560	21.9					2960	44.8				
Manganese	187	1.1	J				200	1.1	J				84.6	2.2	J			
Nickel	10.4	4.4					9.4	4.4					7	9	J			
Potassium	2390	548	J				2080	547	J				1360	1120	J			
Thallium	0.12	0.55	J				<	0.55	U				<	0.56	U			
Vanadium	20.8	1.1					22	1.1					16.1	2.2				
Zinc	30.3	2.2	J				26.4	2.2	J				15.8	4.5	J			
TRPH (mg/kg)																		
Total Recoverable Petroleum Hydrocar	66.5	43.9					52.3	43.8					<	44.8	U			

Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Table A-2b.
J = Estimated value.
R = Rejected value. D = Sample was diluted for analysis.
U = Nondetected value. RL = Reporting Limit.

TABLE 2-3b

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127
CANNON AFB

LOCATOR	CAN127-2713-0015			CAN127-2713-0020			CAN127-2713-0020			CAN127-2713-0025			CAN127-2713-0025		
LAB SAMPLE NUMBER	0397380004SA			0397380005RA			0397380005SA			0397380006RA			0397380006SA		
COLLECT DATE	12/09/94			12/09/94			12/09/94			12/09/94			12/09/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (µg/kg)															
Acetone	<	11	U				<	11	U				<	12	U
4-Methyl-2-pentanone (MIBK)	<	11	U				<	11	U				<	12	U
Methylene chloride	<	6.3	U				<	5.5	U				<	6.3	U
Toluene	<	5.7	U				<	5.5	U				<	5.8	U
Semivolatile Organics (µg/kg)															
Anthracene	<	380	U	<	360	UJ	<	360	U	<	380	UJ	<	380	U
Benzo(a)anthracene	<	380	U	<	360	UJ	<	360	U	<	380	UJ	<	380	U
Benzo(a)pyrene	<	380	U	<	360	UJ	<	360	U	<	380	UJ	<	380	U
Benzo(b)fluoranthene	<	380	U	<	360	UJ	<	360	U	<	380	UJ	<	380	U
Benzo(g,h,i)perylene	<	380	U	<	360	UJ	<	360	U	<	380	UJ	<	380	U
bis(2-Ethylhexyl)phthalate	<	380	U	<	360	UJ	<	360	U	<	380	UJ	<	380	U
Carbazole	<	380	U	<	360	UJ	<	360	U	<	380	UJ	<	380	U
Chrysene	<	380	U	<	360	UJ	<	360	U	<	380	UJ	<	380	U
Dibenz(a,h)anthracene	<	380	U	<	360	UJ	<	360	U	<	380	UJ	<	380	U
Fluoranthene	<	380	U	<	360	UJ	<	360	U	<	380	UJ	<	380	U
Indeno(1,2,3-cd)pyrene	<	380	U	<	360	UJ	<	360	U	<	380	UJ	<	380	U
Phenanthrene	<	380	U	<	360	UJ	<	360	U	<	380	UJ	<	380	U
Pyrene	<	380	U	<	360	UJ	<	360	U	<	380	UJ	<	380	U
Metals (mg/kg)															
Aluminum	4600	22.8	J				7190	22.1	J				14700	23.3	J
Arsenic	1.8	0.57					1.7	0.55					2.3	0.58	
Barium	404	2.3	J				238	2.2	J				241	2.3	J
Beryllium	0.39	0.46	J				0.56	0.44	J				0.51	0.47	J

Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Table A-2b.

J = Estimated value.
R = Rejected value. D = Sample was diluted for analysis.
U = Nondetected value. RL = Reporting Limit.

TABLE 2-3b

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127
CANNON AFB

LOCATOR	CAN127-2713-0015			CAN127-2713-0020			CAN127-2713-0020			CAN127-2713-0025			CAN127-2713-0025		
LAB SAMPLE NUMBER	0397380004SA			0397380005RA			0397380005SA			0397380006RA			0397380006SA		
COLLECT DATE	12/09/94			12/09/94			12/09/94			12/09/94			12/09/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Calcium	218000	45.6	J				121000	44.2	J				180000	46.5	J
Chromium	3.2	2.3	J				6.7	2.2	J				7.1	2.3	J
Cobalt	2.1	2.3	J				3.1	2.2	J				2.1	2.3	J
Copper	2.3	4.6	J				4.1	4.4	J				3.5	4.7	J
Iron	3720	22.8	J				6340	22.1	J				8010	23.3	J
Lead	3.8	0.57	J				4.9	0.55	J				4.4	0.58	J
Magnesium	4300	45.6					4560	44.2					12600	46.5	
Manganese	46.5	2.3	J				89.2	2.2	J				49.7	2.3	J
Nickel	6.5	9.1	J				5.4	8.8	J				9.2	9.3	J
Potassium	1230	1140	J				1990	1110	J				3230	1160	J
Thallium	<	1.1	UJ				<	0.55	U				<	1.2	UJ
Vanadium	12.5	2.3					16.3	2.2					22.2	2.3	
Zinc	10	4.6	J				16.2	4.4	J				19.4	4.7	J
TRPH (mg/kg)															
Total Recoverable Petroleum Hydrocar	<	45.6	U				<	44.2	U				<	46.5	U

Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Table A-2b.

J = Estimated value.

R = Rejected value. D = Sample was diluted for analysis.

U = Nondetected value. RL = Reporting Limit.

TABLE 2-3c

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127
CANNON AFB

LOCATOR	CAN127-2713-0030			CAN127-2713-0030			CAN127-2713-0035			CAN127-2713-0035			CAN127-2713-0040			CAN127-2713-0040		
LAB SAMPLE NUMBER	0397380007RA			0397380007SA			0397380008RA			0397380008SA			0397380009RA			0397380009SA		
COLLECT DATE	12/09/94			12/09/94			12/09/94			12/09/94			12/09/94			12/09/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qua	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Arsenic				1.9	0.56					1.4	0.57					1.4	0.56	
Barium				290	2.2	J				445	2.3	J				62.3	1.1	J
Beryllium				0.5	0.45	J				0.25	0.46	J				0.32	0.22	J
Calcium				186000	44.8	J				149000	45.9	J				30900	22.2	J
Chromium				8.8	2.2	J				4.4	2.3	J				7.2	1.1	J
Cobalt				2.2	2.2	J				1.2	2.3	J				1.9	1.1	J
Copper				4.6	4.5	J				2	4.6	J				2.1	2.2	J
Iron				5670	22.4	J				4510	23	J				5290	11.1	J
Lead				3	0.56	J				3	0.57	J				2.9	0.56	J
Magnesium				6630	44.8					6520	45.9					4540	22.2	
Manganese				38.7	2.2	J				36.3	2.3	J				47.2	1.1	J
Nickel				6.9	9	J				3.7	9.2	J				4.3	4.4	J
Potassium				1730	1120	J				1250	1150	J				1270	556	J
Sodium				521	1120	J				<	1150	U				<	556	U
Thallium				<	1.1	UJ				<	0.57	U				<	0.56	U
Vanadium				19.3	2.2					18	2.3					18.9	1.1	
Zinc				13.1	4.5	J				10.1	4.6	J				11.1	2.2	J
TRPH (mg/kg)																		
Total Recoverable Petroleum Hydrocarbons				47.1	44.8					<	45.9	U				<	44.5	

Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Table A-2c.
J = Estimated value.
R = Rejected value. D = Sample was diluted for analysis.
U = Nondetected value. RL = Reporting Limit.

TABLE 2-3c

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127 CANNON AFB

LOCATOR	CAN127-2713-0050			CAN127-2713-0050			CAN127-2713-0060			CAN127-2713-0060		
LAB SAMPLE NUMBER	0397380010RA			0397380010SA			0397380011RA			0397380011SA		
COLLECT DATE	12/09/94			12/09/94			12/09/94			12/09/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (µg/kg)												
Acetone				3.1	11	J				25	11	
2-Butanone (MEK)				<	11	U				6.2	11	J
Methylene chloride				<	5.7	U				<	5.6	U
Toluene				<	5.7	U				<	5.6	U
Semivolatile Organics (µg/kg)												
Anthracene	<	370	UJ	<	370	U	<	370	UJ	<	370	U
Benzo(a)anthracene	<	370	UJ	<	370	U	<	370	UJ	<	370	U
Benzo(a)pyrene	<	370	UJ	<	370	U	<	370	UJ	<	370	U
Benzo(b)fluoranthene	<	370	UJ	<	370	U	<	370	UJ	<	370	U
Benzo(g,h,i)perylene	<	370	UJ	<	370	U	<	370	UJ	<	370	U
Benzo(k)fluoranthene	<	370	UJ	<	370	U	<	370	UJ	<	370	U
bis(2-Ethylhexyl)phthalate	<	370	UJ	<	600	U	<	370	UJ	<	590	U
Carbazole	<	370	UJ	<	370	U	<	370	UJ	<	370	U
Chrysene	<	370	UJ	<	370	U	<	370	UJ	<	370	U
Di-n-butyl phthalate	<	370	UJ	<	370	U	<	370	UJ	<	370	U
Dibenz(a,h)anthracene	<	370	UJ	<	370	U	<	370	UJ	<	370	U
Fluoranthene	<	370	UJ	<	370	U	<	370	UJ	<	370	U
Indeno(1,2,3-cd)pyrene	<	370	UJ	<	370	U	<	370	UJ	<	370	U
Phenanthrene	<	370	UJ	<	370	U	<	370	UJ	<	370	U
Pyrene	<	370	UJ	<	370	U	<	370	UJ	<	370	U
Metals (mg/kg)												
Aluminum				5550	11.3	J				5450	11.1	J
Antimony				<	6.8	UJ				<	6.7	UJ

Results presented here are only those chemicals which were detected at least once at this SWMU and have pass
A complete summary of chemical results are presented in Table A-2c.

J = Estimated value.

R = Rejected value. D = Sample was diluted for analysis.

U = Nondetected value. RL = Reporting Limit.

TABLE 2-3c

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127
CANNON AFB

LOCATOR	CAN127-2713-0050			CAN127-2713-0050			CAN127-2713-0060			CAN127-2713-0060		
LAB SAMPLE NUMBER	0397380010RA			0397380010SA			0397380011RA			0397380011SA		
COLLECT DATE	12/09/94			12/09/94			12/09/94			12/09/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Arsenic				1.9	0.57					1.8	0.56	
Barium				23.8	1.1	J				132	1.1	J
Beryllium				0.29	0.23	J				0.28	0.22	J
Calcium				39800	22.7	J				53600	22.2	J
Chromium				6.1	1.1	J				13.4	1.1	J
Cobalt				1.4	1.1	J				2.2	1.1	J
Copper				2.7	2.3	J				9.3	2.2	J
Iron				4390	11.3	J				6110	11.1	J
Lead				3.2	0.57	J				3.1	0.56	J
Magnesium				6500	22.7					4910	22.2	
Manganese				48.2	1.1	J				75.4	1.1	J
Nickel				4.2	4.5	J				6.1	4.4	
Potassium				1110	566	J				1110	555	J
Sodium				<	566	U				<	555	U
Thallium				<	0.57	U				<	0.56	U
Vanadium				21.6	1.1					20.2	1.1	
Zinc				9.9	2.3	J				9.6	2.2	J
TRPH (mg/kg)												
Total Recoverable Petroleum Hydrocarbons				47.9	45.3					<	44.4	U

Results presented here are only those chemicals which were detected at least once at this SWMU and have pass
A complete summary of chemical results are presented in Table A-2c.

J = Estimated value.

R = Rejected value. D = Sample was diluted for analysis.

U = Nondetected value. RL = Reporting Limit.

TABLE 2-3c

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127
CANNON AFB

LOCATOR	CAN127-2714-0000			CAN127-2714-0005			CAN127-2714-0010			CAN127-2714-0015			CAN127-2714-0020			CAN127-2714-0025		
LAB SAMPLE NUMBER	0396880006SA			0396880008SA			0396880009SA			0396880010SA			0396880011SA			0396880012SA		
COLLECT DATE	12/07/94			12/07/94			12/07/94			12/07/94			12/07/94			12/07/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (µg/kg)																		
Acetone	<		U	<	11	U	<	11	U	<	11	U	<	11	U	<	11	U
2-Butanone (MEK)	<	11	U	<	11	U	<	11	U	<	11	U	<	11	U	1.3	11	J
Methylene chloride	<	5.6	U	4.4	5.4		<	8	U	4.2	5.4	J	<	5.5	U	<	5.5	J
Toluene	<	5.6	U	<	5.4	U	<	5.4	U	<	5.4	U	<	5.5	U	<	5.5	U
Semivolatile Organics (µg/kg)																		
Anthracene	52	370	J	<	360	U	<	360	U	<	360	U	<	360	U	<	360	U
Benzo(a)anthracene	450	370		96	360	J	<	360	U	<	360	U	<	360	U	<	360	U
Benzo(a)pyrene	640	370		140	360	J	<	360	U	<	360	U	<	360	U	<	360	U
Benzo(b)fluoranthene	750	370		150	360	J	37	360	J	<	360	U	<	360	U	<	360	U
Benzo(g,h,i)perylene	340	370	J	90	360	J	<	360	U	<	360	U	<	360	U	<	360	U
Benzo(k)fluoranthene	800	370		170	360	J	<	360	U	<	360	U	<	360	U	<	360	U
bis(2-Ethylhexyl)phthalate	450	370		300	360	J	290	360	J	290	360	J	310	360	J	550	360	
Carbazole	100	370	J	<	360	U	<	360	U	<	360	U	<	360	U	<	360	U
Chrysene	820	370		170	360	J	<	360	U	<	360	U	<	360	U	<	360	U
Di-n-butyl phthalate	<	370	U	<	360	U	<	360	U	<	360	U	<	360	U	<	360	U
Dibenz(a,h)anthracene	150	370	J	43	360	J	<	360	U	<	360	U	<	360	U	<	360	U
Fluoranthene	1400	370		330	360	J	50	360	J	<	360	U	<	360	U	<	360	U
Indeno(1,2,3-cd)pyrene	360	370	J	94	360	J	<	360	U	<	360	U	<	360	U	<	360	U
Phenanthrene	570	370		160	360	J	<	360	U	<	360	U	<	360	U	<	360	U
Pyrene	1300	370		290	360	J	41	360	J	<	360	U	<	360	U	<	360	U
Metals (mg/kg)																		
Aluminum	7050	11.2		9210	10.9		6200	21.8		6230	10.8		7840	11		4610	22.1	
Antimony	<	6.7	UJ	<	6.5	UJ	<	13.1	UJ	<	6.5	UJ	4.6	6.6	UJ	<	13.3	UJ

ed data review.

Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.

A complete summary of chemical results are presented in Table A-2c.

J = Estimated value.

R = Rejected value. D = Sample was diluted for analysis.

U = Nondetected value. RL = Reporting Limit.

TABLE 2-3c

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127
CANNON AFB

LOCATOR	CAN127-2714-0000			CAN127-2714-0005			CAN127-2714-0010			CAN127-2714-0015			CAN127-2714-0020			CAN127-2714-0025		
LAB SAMPLE NUMBER	0396880006SA			0396880008SA			0396880009SA			0396880010SA			0396880011SA			0396880012SA		
COLLECT DATE	12/07/94			12/07/94			12/07/94			12/07/94			12/07/94			12/07/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Arsenic	1.9	0.56		2	0.54	J	1.3	0.54		1.3	0.54	J	1.4	0.55	J	0.84	0.55	J
Barium	92.4	1.1	J	96.1	1.1	J	161	2.2	J	115	1.1	J	78.5	1.1	J	119	2.2	J
Beryllium	0.39	0.22		0.51	0.22		0.35	0.44	J	0.35	0.22		0.5	0.22		<	0.44	U
Calcium	18100	22.4		23600	21.7		135000	43.6		52600	21.6		69200	22.1		206000	44.2	
Chromium	9.2	1.1		11.9	1.1		3.7	2.2		5.5	1.1		6.4	1.1		5.8	2.2	
Cobalt	2.9	1.1		3.6	1.1		<	2.2	U	2.2	1.1		3.1	1.1		<	2.2	U
Copper	6.8	2.2		8.3	2.2		3.7	4.4	J	2.8	2.2		5	2.2		8.8	4.4	
Iron	7130	11.2		8550	10.9		4450	21.8		5640	10.8		6510	11		4210	22.1	
Lead	<		R	<		R	<		R	<		R	<		R	<		R
Magnesium	1470	22.4		1950	21.7		2780	43.6		2790	21.6		3840	22.1		5030	44.2	
Manganese	160	1.1		172	1.1		61.7	2.2		94.3	1.1		117	1.1		30.8	2.2	
Nickel	6.7	4.5		8.6	4.3		4.7	8.7	J	5.7	4.3		7	4.4		3.9	8.8	J
Potassium	1790	560		1830	543		1140	1090		1630	540		2040	552		959	1110	J
Sodium	<	560	U	<	543	U	<	1090	U	<	540	U	<	552	U	<	1110	U
Thallium	<	0.56	U	0.11	0.54	J	<	0.54	U	<	0.54	U	<	0.55	U	0.38	0.55	J
Vanadium	13.4	1.1		15.1	1.1		9.4	2.2		14.5	1.1		14.4	1.1		9.3	2.2	
Zinc	31.5	2.2		25.5	2.2		11.9	4.4		13.5	2.2		16.7	2.2		10.3	4.4	
TRPH (mg/kg)																		
Total Recoverable Petroleum Hydroc	<	44.8	U	69.4	43.4		<	43.6	U	<	43.2	U	<	44.2	U	<	44.2	U

ed data review.

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A complete summary of chemical results are presented in Table A-2c.

J = Estimated value.
R = Rejected value. D = Sample was diluted for analysis.
U = Nondetected value. RL = Reporting Limit.

TABLE 2-3c

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127 CANNON AFB

LOCATOR	CAN127-2714-0030			CAN127-2714-0035			CAN127-2714-0040			CAN127-2714-0050			CAN127-2714-0060		
LAB SAMPLE NUMBER	0396880013SA			0396880014SA			0396880015SA			0396880016SA			0396880017SA		
COLLECT DATE	12/07/94			12/07/94			12/07/94			12/07/94			12/07/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (µg/kg)															
Acetone	<	11	U	<	13	U	<	11	U	<	11	U	<	11	U
2-Butanone (MEK)	<	11	U	<	11	U	<	11	U	<	11	U	<	11	U
Methylene chloride	<	5.5	U	<	5.5	U	<	5.4		<	5.4	U	<	5.4	U
Toluene	<	5.5	U	<	5.5	U	<	5.4	U	<	5.4	U	<	5.4	U
Semivolatile Organics (µg/kg)															
Anthracene	<	360	U	<	360	U	<	360	U	<	360	U	<	350	U
Benzo(a)anthracene	<	360	U	<	360	U	<	360	U	<	360	U	<	350	U
Benzo(a)pyrene	<	360	U	<	360	U	<	360	U	<	360	U	<	350	U
Benzo(b)fluoranthene	<	360	U	<	360	U	<	360	U	<	360	U	<	350	U
Benzo(g,h,i)perylene	<	360	U	<	360	U	<	360	U	<	360	U	<	350	U
Benzo(k)fluoranthene	<	360	U	<	360	U	<	360	U	<	360	U	<	350	U
bis(2-Ethylhexyl)phthalate	270	360	J	710	360		550	360		830	360		640	350	
Carbazole	<	360	U	<	360	U	<	360	U	<	360	U	<	350	U
Chrysene	<	360	U	<	360	U	<	360	U	<	360	U	<	350	U
Di-n-butyl phthalate	<	360	U	<	360	U	<	360	U	<	360	U	<	350	U
Dibenz(a,h)anthracene	<	360	U	<	360	U	<	360	U	<	360	U	<	350	U
Fluoranthene	<	360	U	<	360	U	<	360	U	<	360	U	<	350	U
Indeno(1,2,3-cd)pyrene	<	360	U	<	360	U	<	360	U	<	360	U	<	350	U
Phenanthrene	<	360	U	<	360	U	<	360	U	<	360	U	<	350	U
Pyrene	<	360	U	<	360	U	<	360	U	<	360	U	<	350	U
Metals (mg/kg)															
Aluminum	6230	11		6000	11		5460	10.9		4980	10.9		4500	10.7	
Antimony	<	6.6	UJ	<	6.6	UJ	<	6.5	U	<	6.5	UJ	<	6.4	UJ

Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Table A-2c.
J = Estimated value.
R = Rejected value. D = Sample was diluted for analysis.
U = Nondetected value. RL = Reporting Limit.

TABLE 2-3c

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127 CANNON AFB

LOCATOR	CAN127-2714-0030			CAN127-2714-0035			CAN127-2714-0040			CAN127-2714-0050			CAN127-2714-0060		
LAB SAMPLE NUMBER	0396880013SA			0396880014SA			0396880015SA			0396880016SA			0396880017SA		
COLLECT DATE	12/07/94			12/07/94			12/07/94			12/07/94			12/07/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Arsenic	1.1	0.55	J	0.77	0.55	J	0.98	0.54	J	0.9	0.54	J	1.3	0.54	J
Barium	92.2	1.1	J	90.3	1.1	J	26.7	1.1		97.8	1.1	J	23.8	1.1	J
Beryllium	0.2	0.22	J	0.17	0.22	J	0.16	0.22	J	0.17	0.22	J	0.19	0.21	J
Calcium	104000	22.1		50300	22.1		49300	21.8		38400	21.8		18300	21.5	
Chromium	5.2	1.1		7.4	1.1		6.6	1.1		6.3	1.1		4.5	1.1	
Cobalt	1.3	1.1		1	1.1	J	1.3	1.1		1.6	1.1		2.2	1.1	
Copper	2.6	2.2		7.4	2.2		6.5	2.2		3.3	2.2		1.7	2.1	J
Iron	4080	11		4690	11		4500	10.9		4260	10.9		4150	10.7	
Lead	<		R	3.1	1.1	R	<		R	<		R	<		R
Magnesium	8130	22.1		7920	22.1		7530	21.8		5310	21.8		3610	21.5	
Manganese	33.7	1.1		37	1.1		49.5	1.1		50.5	1.1		58.2	1.1	
Nickel	4.4	4.4		4.8	4.4		5.1	4.4		3.1	4.4	J	3.3	4.3	J
Potassium	1110	552		1110	552		1030	545		949	545		908	537	
Sodium	<	552	U	<	552	U	<	545	U	<	545	U	<	537	U
Thallium	0.21	0.55	J	0.18	1.1	J	<	0.54	U	<	1.1	J	<	0.54	U
Vanadium	13.9	1.1		16.7	1.1		16.7	1.1		18.9	1.1		15.9	1.1	
Zinc	9.9	2.2		10.6	2.2		10.4	2.2		10.5	2.2		8.9	2.1	
TRPH (mg/kg)															
Total Recoverable Petroleum Hydrocar	<	44.2	U	182	44.2		50.9	43.6		83.6	43.6		<	43	U

Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Table A-2c.

J = Estimated value.
R = Rejected value. D = Sample was diluted for analysis.
U = Nondetected value. RL = Reporting Limit.

TABLE 2-3d

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127 CANNON AFB

LOCATOR	CAN127-2715-0000			CAN127-2715-0005			CAN127-2715-0010			CAN127-2715-2762[1]			CAN127-2715-0015		
LAB SAMPLE NUMBER	0396860001SA			0396860002SA			0396860003SA			0396860011SA			0396860004SA		
COLLECT DATE	12/07/94			12/07/94			12/07/94			12/07/94			12/07/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (µg/kg)															
Acetone	<	11	U	<	11	U	<	11	U	<	16	U	<	19	U
Methylene chloride	<	5.5	U	<	5.3	U	<	5.5		<	5.4	U	4.4	5.5	J
Toluene	<	5.5	U	<	5.3	U	<	5.5	U	<	5.4	U	<	5.5	U
Semivolatile Organics (µg/kg)															
Anthracene	<	360	U	<	350	U	<	360	U	<	360	U	<	360	U
Benzo(a)anthracene	260	360	J	<	350	U	<	360	U	<	360	U	<	360	U
Benzo(a)pyrene	400	360		43	350	J	<	360	U	<	360	U	<	360	U
Benzo(b)fluoranthene	420	360		74	350	J	<	360	U	<	360	U	<	360	U
Benzo(g,h,i)perylene	270	360	J	<	350	U	<	360	U	<	360	U	<	360	U
Benzo(k)fluoranthene	470	360		<	350	U	<	360	U	<	360	U	<	360	U
Benzoic acid	48	1800	J	<	1700	U	<	1700	U	<	1700	U	<	1800	U
bis(2-Ethylhexyl)phthalate	44	360	J	<	350	U	<	360	U	44	360	J	<	360	U
Carbazole	45	360	J	<	350	U	<	360	U	<	360	U	<	360	U
Chrysene	46	360	J	59	350	J	<	360	U	<	360	U	<	360	U
Di-n-butyl phthalate	<	360	U	<	350	U	<	360	U	<	360	U	<	360	U
Di-n-octyl phthalate	<	360	U	64	350	J	<	360	U	<	360	U	<	360	U
Dibenz(a,h)anthracene	<	360	U	<	350	U	<	360	U	<	360	U	<	360	U
Diethyl phthalate	<	360	U	<	350	U	<	360	U	<	360	U	<	360	U
Fluoranthene	860	360		110	350	J	<	360	U	<	360	U	<	360	U
Indeno(1,2,3-cd)pyrene	260	360	J	<	350	U	<	360	U	<	360	U	<	360	U
Phenanthrene	380	360		53	350	J	<	360	U	<	360	U	<	360	U
Pyrene	710	360		77	350	J	<	360	U	<	360	U	<	360	U

Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Table A-2d.
J = Estimated value.
R = Rejected value. D = Sample was diluted for analysis.
U = Nondetected value. RL = Reporting Limit.

TABLE 2-3d

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127
CANNON AFB

LOCATOR	CAN127-2715-0000			CAN127-2715-0005			CAN127-2715-0010			CAN127-2715-2762[1]			CAN127-2715-0015		
LAB SAMPLE NUMBER	0396860001SA			0396860002SA			0396860003SA			0396860011SA			0396860004SA		
COLLECT DATE	12/07/94			12/07/94			12/07/94			12/07/94			12/07/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)															
Aluminum	7730	11		7500	21.2		7090	10.9		5760	10.8		5900	11	
Arsenic	2.1	0.55	J	1.7	0.53	J	2.2	0.55	J	1.6	0.54	J	1.2	0.55	J
Barium	93	1.1	J	152	2.1	J	148	1.1	J	162	1.1	J	146	1.1	J
Beryllium	0.44	0.22		0.34	0.42	J	0.38	0.22		0.3	0.22		0.34	0.22	
Cadmium	<	0.55	U	0.77	1.1	J	<	0.55	U	<	0.54	U	<	0.55	U
Calcium	17800	22		141000	42.5		73600	21.8		78200	21.6		100000	22.1	
Chromium	9.2	1.1	J	6.9	2.1	J	6.4	1.1	J	5	1.1	J	4.7	1.1	J
Cobalt	3	1.1		2.1	2.1		2.8	1.1		2.4	1.1		1.7	1.1	
Copper	7.1	2.2		5.1	4.2		4.1	2.2		3.4	2.2		2.5	2.2	
Iron	7840	11		6140	21.2		5720	10.9		4730	10.8		4800	11	
Lead	36.4	5.5		7.6	5.3		5.1	0.55		4.8	0.54		3.9	0.55	
Magnesium	1550	22	J	2420	42.5	J	2940	21.8	J	2580	21.6	J	3080	22.1	J
Manganese	175	1.1		77.6	2.1		85.6	1.1		70.3	1.1		68	1.1	
Nickel	7.2	4.4		5.6	8.5	J	6.2	4.4		5.1	4.3		5.5	4.4	
Potassium	1830	550		1310	1060		1540	546		1220	540		1460	552	
Selenium	0.25	1.1	J	<		R	<		R	<		R	<		R
Thallium	0.3	0.55	J	0.2	0.53	J	0.13	0.55	J	0.13	0.54	J	0.13	0.55	J
Vanadium	14.5	1.1		13.7	2.1		15.2	1.1		12.7	1.1		13.5	1.1	
Zinc	30	2.2		17	4.2		14.8	2.2		12.6	2.2		12.3	2.2	
TRPH (mg/kg)															
Total Recoverable Petroleum Hydrocar	80.8	44		<	42.5	U	<	43.6	U	<	43.2	U	<	44.2	U

Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Table A-2d.
J = Estimated value.
R = Rejected value. D = Sample was diluted for analysis.
U = Nondetected value. RL = Reporting Limit.

TABLE 2-3d

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127
CANNON AFB

LOCATOR	CAN127-2715-0020			CAN127-2715-0025			CAN127-2715-0030			CAN127-2715-0035			CAN127-2715-0040			CAN127-2715-0050		
LAB SAMPLE NUMBER	0396860005SA			0396860006SA			0396860007SA			0396860008SA			0396860009SA			0396860010SA		
COLLECT DATE	12/07/94			12/07/94			12/07/94			12/07/94			12/07/94			12/07/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (µg/kg)																		
Acetone	<	11	U	9.5	11	J	8.5	11	J	26	11		<	11	U	15	11	
Methylene chloride	<	5.6	U	<	5.6	U	<	5.6	U	<	5.5	U	<	5.5	U	<	5.5	U
Toluene	<	5.6	U	<	5.6	U	<	5.6	U	<	5.5	U	<	5.5	U	<	5.5	U
Semivolatile Organics (µg/kg)																		
Anthracene	<	370	U	<	370	U	<	370	U	<	360	U	<	360	U	<	360	U
Benzo(a)anthracene	<	370	U	<	370	U	<	370	U	<	360	U	<	360	U	<	360	U
Benzo(a)pyrene	<	370	U	<	370	U	<	370	U	<	360	U	<	360	U	<	360	U
Benzo(b)fluoranthene	<	370	U	<	370	U	<	370	U	<	360	U	<	360	U	<	360	U
Benzo(g,h,i)perylene	<	370	U	<	370	U	<	370	U	<	360	U	<	360	U	<	360	U
Benzo(k)fluoranthene	<	370	U	<	370	U	<	370	U	<	360	U	<	360	U	<	360	U
Benzoic acid	<	1800	U	<	1800	U	<	1800	U	<	1700	U	<	1700	U	<	1700	U
bis(2-Ethylhexyl)phthalate	<	370	U	170	370	J	40	370	J	<	360	U	190	360	J	54	360	J
Carbazole	<	370	U	<	370	U	<	370	U	<	360	U	<	360	U	<	360	U
Chrysene	<	370	U	<	370	U	<	370	U	<	360	U	<	360	U	<	360	U
Di-n-butyl phthalate	<	370	U	<	370	U	<	370	U	<	360	U	<	360	U	<	360	U
Di-n-octyl phthalate	<	370	U	<	370	U	<	370	U	<	360	U	<	360	U	<	360	U
Dibenz(a,h)anthracene	<	370	U	<	370	U	<	370	U	<	360	U	<	360	U	<	360	U
Diethyl phthalate	<	370	U	<	370	U	<	370	U	<	360	U	<	360	U	<	360	U
Fluoranthene	<	370	U	<	370	U	<	370	U	<	360	U	<	360	U	<	360	U
Indeno(1,2,3-cd)pyrene	<	370	U	<	370	U	<	370	U	<	360	U	<	360	U	<	360	U
Phenanthrene	<	370	U	<	370	U	<	370	U	<	360	U	<	360	U	<	360	U
Pyrene	<	370	U	<	370	U	<	370	U	<	360	U	<	360	U	<	360	U

Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Table A-2d.
J = Estimated value.
R = Rejected value. D = Sample was diluted for analysis.
U = Nondetected value. RL = Reporting Limit.

TABLE 2-3d

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127
CANNON AFB

LOCATOR	CAN127-2715-0020			CAN127-2715-0025			CAN127-2715-0030			CAN127-2715-0035			CAN127-2715-0040			CAN127-2715-0050		
LAB SAMPLE NUMBER	0396860005SA			0396860006SA			0396860007SA			0396860008SA			0396860009SA			0396860010SA		
COLLECT DATE	12/07/94			12/07/94			12/07/94			12/07/94			12/07/94			12/07/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																		
Aluminum	9530	11.2		5640	22.2		5630	11.2		5480	10.9		5240	10.9		4640	10.9	
Arsenic	2.4	0.56	J	1.4	0.56	J	1.1	1.1	J	1	1.1	J	1.2	0.55	J	1.2	0.55	J
Barium	146	1.1	J	88.6	2.2	J	265	1.1	J	24.6	1.1	J	33.8	1.1	J	63.1	1.1	J
Beryllium	0.65	0.22		0.24	0.44	J	0.21	0.22	J	0.2	0.22	J	0.23	0.22		0.17	0.22	J
Cadmium	<	0.56	U	<	1.1	U	<	0.56	U	<	0.55	U	<	0.55	U	<	0.55	U
Calcium	69900	22.5		156000	44.4		85300	22.3		30500	21.8		46800	21.8		40700	21.9	
Chromium	6.8	1.1	J	4.3	2.2	J	5.2	1.1	J	5.9	1.1	J	5.2	1.1	J	5.7	1.1	J
Cobalt	3	1.1		2.1	2.2	J	<	1.1	U	1.2	1.1		1.3	1.1		0.87	1.1	J
Copper	5.5	2.2		2.8	4.4	J	2.1	2.2	J	2.3	2.2		1.9	2.2	J	2	2.2	J
Iron	7710	11.2		3970	22.2		3790	11.2		4490	10.9		4250	10.9		3850	10.9	
Lead	6.4	0.56		3.3	0.56		2.1	1.1		2.2	1.1		2.2	0.55		2.1	1.1	
Magnesium	4880	22.5	J	4120	44.4	J	5290	22.3	J	4590	21.8	J	5380	21.8	J	4660	21.9	J
Manganese	139	1.1		37.9	2.2		29	1.1		38.5	1.1		56.8	1.1		50.3	1.1	
Nickel	8.3	4.5		3.8	8.9	J	3.8	4.5	J	5.1	4.4		3.6	4.4	J	2.9	4.4	J
Potassium	2510	561		1220	1110		1000	558		1020	545		1020	546		879	547	
Selenium	0.16	1.1	J	<		R	<		R	<		R	<		R	<		R
Thallium	0.11	0.56	J	<	1.1	UJ	<	1.1	UJ	<	1.1	UJ	<	0.55	U	<	0.55	U
Vanadium	17.7	1.1		12.6	2.2		15.9	1.1		17	1.1		15.7	1.1		16.8	1.1	
Zinc	19.9	2.2		11.1	4.4		8.2	2.2		10.1	2.2		9.4	2.2		8.8	2.2	
TRPH (mg/kg)																		
Total Recoverable Petroleum Hydrocar	<	44.9	U	<	44.4	U	<	44.7	U	171	43.6		<	43.7	U	<	43.7	U

Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Table A-2d.

J = Estimated value.
R = Rejected value. D = Sample was diluted for analysis.
U = Nondetected value. RL = Reporting Limit.

TABLE 2-3d

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127
CANNON AFB

LOCATOR	CAN127-2715-0060			CAN127-2716-0000			CAN127-2716-0005			CAN127-2716-0010			CAN127-2716-0015			CAN127-2716-0020		
LAB SAMPLE NUMBER	0397130012SA			0396550007SA			0396550008SA			0396550009SA			0396550010SA			0396550011SA		
COLLECT DATE	12/07/94			12/06/94			12/06/94			12/06/94			12/06/94			12/06/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (µg/kg)																		
Acetone	<	11	U	<	11	U	6	12	J	4.6	11	J	<	14	U	4	11	J
Methylene chloride	4.6	5.5	J	<	5.6	U	<	5.8	U	<	5.5	U	<	5.5	U	<	5.6	U
Toluene	<	5.5	U	<	5.6	U	<	5.8	U	2.8	5.5	J	<	5.5	U	<	5.6	U
Semivolatile Organics (µg/kg)																		
Anthracene	<	370	U	<	370	U	<	380	U	<	360	U	<	360	U	<	370	U
Benzo(a)anthracene	<	370	U	84	370	J	<	380	U	<	360	U	<	360	U	<	370	U
Benzo(a)pyrene	<	370	U	110	370	J	<	380	U	<	360	U	<	360	U	<	370	U
Benzo(b)fluoranthene	<	370	U	100	370	J	<	380	U	<	360	U	<	360	U	<	370	U
Benzo(g,h,i)perylene	<	370	U	88	370	J	<	380	U	<	360	U	<	360	U	<	370	U
Benzo(k)fluoranthene	<	370	U	190	370	J	<	380	U	<	360	U	<	360	U	<	370	U
Benzoic acid	<	1800	U	<	1800	U	<	1800	U	<	1800	U	<	1800	U	<	1800	U
bis(2-Ethylhexyl)phthalate	<	370	U	41	370	J	<	380	U	<	360	U	<	360	U	4700	370	
Carbazole	<	370	U	<	370	U	<	380	U	<	360	U	<	360	U	<	370	U
Chrysene	<	370	U	140	370	J	<	380	U	<	360	U	<	360	U	<	370	U
Di-n-butyl phthalate	<	370	U	190	370	J	170	380	J	<	360	U	170	360	J	130	370	J
Di-n-octyl phthalate	<	370	U	<	370	U	<	380	U	<	360	U	<	360	U	310	370	J
Dibenz(a,h)anthracene	<	370	U	<	370	U	<	380	U	<	360	U	<	360	U	<	370	U
Diethyl phthalate	<	370	U	<	370	U	<	380	U	<	360	U	<	360	U	<	370	U
Fluoranthene	<	370	U	270	370	J	<	380	U	<	360	U	<	360	U	<	370	U
Indeno(1,2,3-cd)pyrene	<	370	U	83	370	J	<	380	U	<	360	U	<	360	U	<	370	U
Phenanthrene	<	370	U	120	370	J	<	380	U	<	360	U	<	360	U	<	370	U
Pyrene	<	370	U	260	370	J	<	380	U	<	360	U	<	360	U	<	370	U

Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Table A-2d.
J = Estimated value.
R = Rejected value. D = Sample was diluted for analysis.
U = Nondetected value. RL = Reporting Limit.

TABLE 2-3d

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127
CANNON AFB

LOCATOR	CAN127-2715-0060			CAN127-2716-0000			CAN127-2716-0005			CAN127-2716-0010			CAN127-2716-0015			CAN127-2716-0020		
LAB SAMPLE NUMBER	0397130012SA			0396550007SA			0396550008SA			0396550009SA			0396550010SA			0396550011SA		
COLLECT DATE	12/07/94			12/06/94			12/06/94			12/06/94			12/06/94			12/06/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																		
Aluminum	3480	11.1		10600	11.3	J	10300	23.1	J	8940	11	J	9340	11	J	7330	22.5	J
Arsenic	1.4	1.1		2.6	0.56		2.2	0.58		1.6	0.55		2	0.55		2.1	0.56	
Barium	11.8	1.1		93	1.1	J	203	2.3	J	81.2	1.1	J	396	1.1	J	306	2.2	J
Beryllium	<	0.22	U	0.57	0.23		0.43	0.46	J	0.47	0.22		0.54	0.22		0.46	0.45	
Cadmium	<	0.55	U	<	0.56	U	<	1.2	U	<	0.55	U	<	0.55	U	<	1.1	U
Calcium	2490	22.1		9170	22.5		130000	46.1		79500	22		43800	22		126000	44.9	
Chromium	4.1	1.1		11.7	1.1		8.6	2.3		6.6	1.1		7.7	1.1		5.4	2.2	
Cobalt	0.84	1.1	J	4	1.1		2.6	2.3		2.6	1.1		3.2	1.1		1.9	2.2	J
Copper	1.2	2.2	J	8.3	2.3		6.3	4.6		4.4	2.2		4.9	2.2		5.6	4.5	
Iron	3320	11.1		9750	11.3		7880	23.1		6910	11		7990	11		5780	22.5	
Lead	2	0.55		20.8	5.6	J	7.4	0.58	J	4.8	0.55	J	5.4	0.55	J	4.3	1.1	J
Magnesium	3590	22.1		1820	22.5		2840	46.1		3430	22		3340	22		4180	44.9	
Manganese	22.8	1.1		207	1.1		100	2.3		99.1	1.1		144	1.1		89.9	2.2	
Nickel	2.6	4.4	J	9.6	4.5		9.9	9.2		7.5	4.4		7.6	4.4		5.9	9	J
Potassium	726	553		2350	563		1740	1150		1630	549		2040	550		1820	1120	
Selenium	<	1.1	U	<	1.1	UJ	<	2.3	UJ	<	1.1	UJ	<	1.1	UJ	<	2.2	UJ
Thallium	<	0.55	U	<	0.56	UJ	<	1.2	UJ	<	1.1	UJ	<	1.1	UJ	<	1.1	UJ
Vanadium	16.7	1.1		16.8	1.1	J	15.5	2.3	J	17.4	1.1	J	19.7	1.1	J	14.8	2.2	J
Zinc	6.9	2.2		29.2	2.3		21.3	4.6		17.7	2.2		20.4	2.2		15.5	4.5	
TRPH (mg/kg)																		
Total Recoverable Petroleum Hydrocar	<	44.3	U	45.7	45		<	46.1	U	<	43.9	U	<	44	U	60.7	44.9	

Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
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J = Estimated value.
R = Rejected value. D = Sample was diluted for analysis.
U = Nondetected value. RL = Reporting Limit.

TABLE 2-3d

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127
CANNON AFB

LOCATOR	CAN127-2716-0025			CAN127-2716-0030			CAN127-2716-0035			CAN127-2716-0040			CAN127-2716-0050			CAN127-2716-0060		
LAB SAMPLE NUMBER	0396550012SA			0396550013SA			0396550003SA			0396550004SA			0396550005SA			0396550006SA		
COLLECT DATE	12/06/94			12/06/94			12/06/94			12/06/94			12/06/94			12/06/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Volatile Organics (µg/kg)																		
Acetone	<	13	U	3.6	11	J	6.5	11	J	<	11	U	5.3	11	J	4.8	11	J
Methylene chloride	<	6.4	U	<	5.5	U	<	5.6	U	<	5.4	U	<	5.5	U	<	5.5	U
Toluene	<	6.4	U	<	5.5	U	<	5.6	U	<	5.4	U	<	5.5	U	<	5.5	U
Semivolatile Organics (µg/kg)																		
Anthracene	<	420	U	<	360	U	<	370	U	<	350	U	<	360	U	<	360	U
Benzo(a)anthracene	<	420	U	<	360	U	<	370	U	<	350	U	<	360	U	<	360	U
Benzo(a)pyrene	<	420	U	<	360	U	<	370	U	<	350	U	<	360	U	<	360	U
Benzo(b)fluoranthene	<	420	U	<	360	U	<	370	U	<	350	U	<	360	U	<	360	U
Benzo(g,h,i)perylene	<	420	U	<	360	U	<	370	U	<	350	U	<	360	U	<	360	U
Benzo(k)fluoranthene	<	420	U	<	360	U	<	370	U	<	350	U	<	360	U	<	360	U
Benzoic acid	<	2000	U	<	1700	U	<	1800	U	<	1700	U	<	1700	U	<	1800	U
bis(2-Ethylhexyl)phthalate	<	420	U	<	360	U	<	370	U	<	350	U	90	360	J	<	360	U
Carbazole	<	420	U	<	360	U	<	370	U	<	350	U	<	360	U	<	360	U
Chrysene	<	420	U	<	360	U	<	370	U	<	350	U	<	360	U	<	360	U
Di-n-butyl phthalate	<	420	U	<	360	U	<	370	U	<	350	U	160	360	J	160	360	J
Di-n-octyl phthalate	<	420	U	<	360	U	<	370	U	<	350	U	<	360	U	<	360	U
Dibenz(a,h)anthracene	<	420	U	<	360	U	<	370	U	<	350	U	<	360	U	<	360	U
Diethyl phthalate	<	420	U	<	360	U	<	370	U	<	350	U	46	360	J	<	360	U
Fluoranthene	<	420	U	<	360	U	<	370	U	<	350	U	<	360	U	<	360	U
Indeno(1,2,3-cd)pyrene	<	420	U	<	360	U	<	370	U	<	350	U	<	360	U	<	360	U
Phenanthrene	<	420	U	<	360	U	<	370	U	<	350	U	<	360	U	<	360	U
Pyrene	<	420	U	<	360	U	<	370	U	<	350	U	<	360	U	<	360	U

Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Table A-2d.
J = Estimated value.
R = Rejected value. D = Sample was diluted for analysis.
U = Nondetected value. RL = Reporting Limit.

TABLE 2-3d

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES COLLECTED AT SWMU 127
CANNON AFB

LOCATOR	CAN127-2716-0025			CAN127-2716-0030			CAN127-2716-0035			CAN127-2716-0040			CAN127-2716-0050			CAN127-2716-0060		
LAB SAMPLE NUMBER	0396550012SA			0396550013SA			0396550003SA			0396550004SA			0396550005SA			0396550006SA		
COLLECT DATE	12/06/94			12/06/94			12/06/94			12/06/94			12/06/94			12/06/94		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Metals (mg/kg)																		
Aluminum	8030	25.5	J	4940	10.9	J	6340	11.1	J	5800	10.8	J	5870	10.9	J	5800	11	J
Arsenic	1.7	0.64		2.1	0.55		2.1	0.56		1.4	0.54		1.4	0.55		1.4	0.55	
Barium	341	2.6	J	51.2	1.1	J	147	1.1	J	26.8	1.1	J	30.7	1.1	J	32.6	1.1	J
Beryllium	0.32	0.51	J	0.2	0.22	J	0.27	0.22		0.18	0.22	J	0.21	0.22	J	0.18	0.22	J
Cadmium	<	1.3	U	<	0.55	U	<	0.56	U	<	0.54	U	<	0.55	U	<	0.55	U
Calcium	138000	51		76400	21.8		89000	22.2		14200	21.5		26500	21.8		14200	22.1	
Chromium	6	2.6		3.8	1.1		5.1	1.1		5.8	1.1		10.1	1.1		7.2	1.1	
Cobalt	<	2.6	U	1.7	1.1		0.94	1.1	J	1.4	1.1		1.6	1.1		1.7	1.1	
Copper	2.9	5.1	J	2.3	2.2		2.4	2.2		2.2	2.2		45.8	2.2		2	2.2	J
Iron	5600	25.5		4020	10.9		4460	11.1		4950	10.8		5250	10.9		5160	11	
Lead	3.2	0.64		2.6	0.55	J	3.3	0.56	J	2.5	0.54	J	3.1	0.55	J	5.5	0.55	J
Magnesium	5070	51		2460	21.8		4280	22.2		3870	21.5		4510	21.8		4660	22.1	
Manganese	42.4	2.6		46.4	1.1		43.8	1.1		48.6	1.1		60.5	1.1		54	1.1	
Nickel	5.4	10.2	J	4.1	4.4	J	3.1	4.4	J	4.7	4.3		5.7	4.4		4.6	4.4	
Potassium	1680	1280		1070	546		1240	555		1180	538		1180	546		1100	552	
Selenium	<	1.3	UJ	<	2.2	UJ	<	1.1	U	<	1.1	UJ	<	1.1	UJ	<	1.1	UJ
Thallium	<	1.3	UJ	<	1.1	UJ	<	1.1	UJ	<	0.54	UJ	<	1.1	UJ	<	0.55	U
Vanadium	14.2	2.6	J	13.6	1.1	J	16.2	1.1	J	16.5	1.1	J	17.3	1.1	J	17.9	1.1	J
Zinc	13.7	5.1		9.8	2.2		10.6	2.2		10.2	2.2		12.2	2.2		10.7	2.2	
TRPH (mg/kg)																		
Total Recoverable Petroleum Hydrocar	<	51	U	<	43.7	U	<	44.4	U	53.9	43		1700	436		<	44.2	U

Results presented here are only those chemicals which were detected at least once at this SWMU and have passed data review.
A complete summary of chemical results are presented in Table A-2d.
J = Estimated value.
R = Rejected value. D = Sample was diluted for analysis.
U = Nondetected value. RL = Reporting Limit.

TABLE 2-4a

CALCULATION OF INITIAL LEACHATE CONCENTRATIONS
CANNON AFB SWMU 127

Chemical	C_s (mg/kg)	f_{oc}	K_{oc} (mL/g)	K_d (mL/g)	θ_w	θ_a	H'	ρ_b (g/cm^3)	C_w (mg/L)
Benzene	3.8	0.0004	5.89E+01	2.36E-02	0.24	0.16	2.28E-01	1.6	19
Xylenes	260	0.0004	3.63E+02	1.45E-01	0.24	0.16	2.13E-01	1.6	821
Benzo(a)anthracene	8	0.0004	3.98E+05	1.59E+02	0.24	0.16	1.37E-04	1.6	0
Benzo(a)pyrene	8.6	0.0004	1.02E+06	4.08E+02	0.24	0.16	4.63E-05	1.6	0.021
Benzo(b)fluoranthene	17	0.0004	1.23E+06	4.92E+02	0.24	0.16	4.55E-03	1.6	0.035
Dibenzo(a,h)anthracene	0.28	0.0004	3.80E+06	1.52E+03	0.24	0.16	6.03E-07	1.6	0.000184

$$Cs = Cw \cdot \left[Kd + \frac{\theta w + \theta a \cdot H'}{\rho b} \right]$$

C_s = soil concentration, mg/kg

C_w = initial leachate concentration, mg/L

f_{oc} = fraction organic carbon content

K_{oc} = organic carbon distribution coefficient, mL/g (USEPA 1996)

K_d = distribution coefficient, mL/g (=K_{oc}*f_{oc}) (USEPA 1996)

θ_w = water-filled soil porosity

θ_a = air-filled soil porosity

H' = dimensionless Henry's Law constant (USEPA 1996)

ρ_b = dry bulk density, g/cm^3

TABLE 2-4b

MODEL-PREDICTED CONCENTRATIONS
CANNON AFB SWMU 127

Chemical	Source Conditions			Active Transport Processes			C_s (mg/kg)	C_w (mg/L)	Unsaturated Zone		Saturated Zone		Screening Levels	
	Steady-State	Pulse*	Decay**	Dispersion	Adsorption	Biodegradation			AF	$(C_w)_u$ (mg/L)	DAF	$(C_w)_s$ (mg/L)	Region VI Tap Water MSSL (mg/L)	MCL (mg/L)
Benzene	✓			✓			3.8	19	1.0	19	6.0	3.2	0.0039	0.005
	✓			✓		✓			2.0E+17	0	1.2E+28	0		
		✓		✓	✓				1.1	17	8.0	2.4		
		✓		✓	✓	✓			1.9E+17	0	-	0		
			✓	✓	✓				31	0.6	196	0.1		
			✓	✓	✓	✓			2.9E+18	0	-	0		
Xylenes	✓			✓			260	821	1.0	821	6.0	137	1.4	10
	✓			✓		✓			8.6E+34	0	-	0		
		✓		✓	✓				2.5	332	23	36		
		✓		✓	✓	✓			2.6E+35	0	9.1E+37	0		
			✓	✓	✓				88	9.4	561	1.5		
			✓	✓	✓	✓			-	0	-	0		
Benzo(a)anthracene	✓			✓			8.0	0.050						
	✓			✓		✓								
		✓		✓	✓									
		✓		✓	✓	✓								
			✓	✓	✓									
			✓	✓	✓	✓								
Benzo(a)pyrene	✓			✓			8.6	0.021	1.0	0.021	6.0	0.0035	9.2E-06	0.0002
	✓			✓		✓			-	0	-	0		
		✓		✓	✓				5,131	4.1E-06	37,439	5.6E-07		
		✓		✓	✓	✓			-	0	-	0		
			✓	✓	✓				37,258	5.7E-07	-	-		
			✓	✓	✓	✓			-	0	-	0		

TABLE 2-4b

MODEL-PREDICTED CONCENTRATIONS
CANNON AFB SWMU 127

Chemical	Source Conditions			Active Transport Processes			C_s (mg/kg)	C_w (mg/L)	Unsaturated Zone		Saturated Zone		Screening Levels	
	Steady-State	Pulse*	Decay**	Dispersion	Adsorption	Biodegradation			AF	$(C_w)_u$ (mg/L)	DAF	$(C_w)_s$ (mg/L)	Region VI Tap Water MSSL (mg/L)	MCL (mg/L)
Benzo(b)fluoranthene	✓			✓			17	0.035	1.0	0.035	6.0	0.0057	9.2E-05	-
	✓			✓		✓			-	0	-	0		
		✓		✓	✓				6,188	5.6E-06	45,147	7.7E-07		
		✓		✓	✓	✓			-	0	-	0		
			✓	✓	✓				44,944	7.7E-07	-	-		
			✓	✓	✓	✓			-	0	-	0		
Dibenzo(a,h)anthracene	✓			✓			0.28	0.000184	1.0	1.84E-04	6.0	3.1E-05	9.2E-06	-
	✓			✓		✓			-	0	-	0		
		✓		✓	✓				19,113	9.6E-09	139,470	1.3E-09		
		✓		✓	✓	✓			-	0	-	0		
			✓	✓	✓				138,812	1.3E-09	-	-		
			✓	✓	✓	✓			-	0	-	0		

* Pulse duration = 100 years.

** Decay half-life = 2 years for VOCs and 10 years for SVOCs.

C_s = maximum detected soil concentration

C_w = initial leachate concentration based on equilibrium partitioning

AF = attenuation factor for unsaturated zone calculated from MULTIMED results

$(C_w)_u$ = soil water concentration at bottom of unsaturated zone (= C_w / AF)

DAF = dilution-attenuation factor for initial groundwater mixing zone calculated from MULTIMED results

$(C_w)_s$ = groundwater concentration at water table after initial mixing (= C_w / DAF)

"-" indicates factor is not applicable or factor/concentration could not be calculated based on model results

indicates predicted concentration exceeds highlighted screening level

TABLE 2-4c

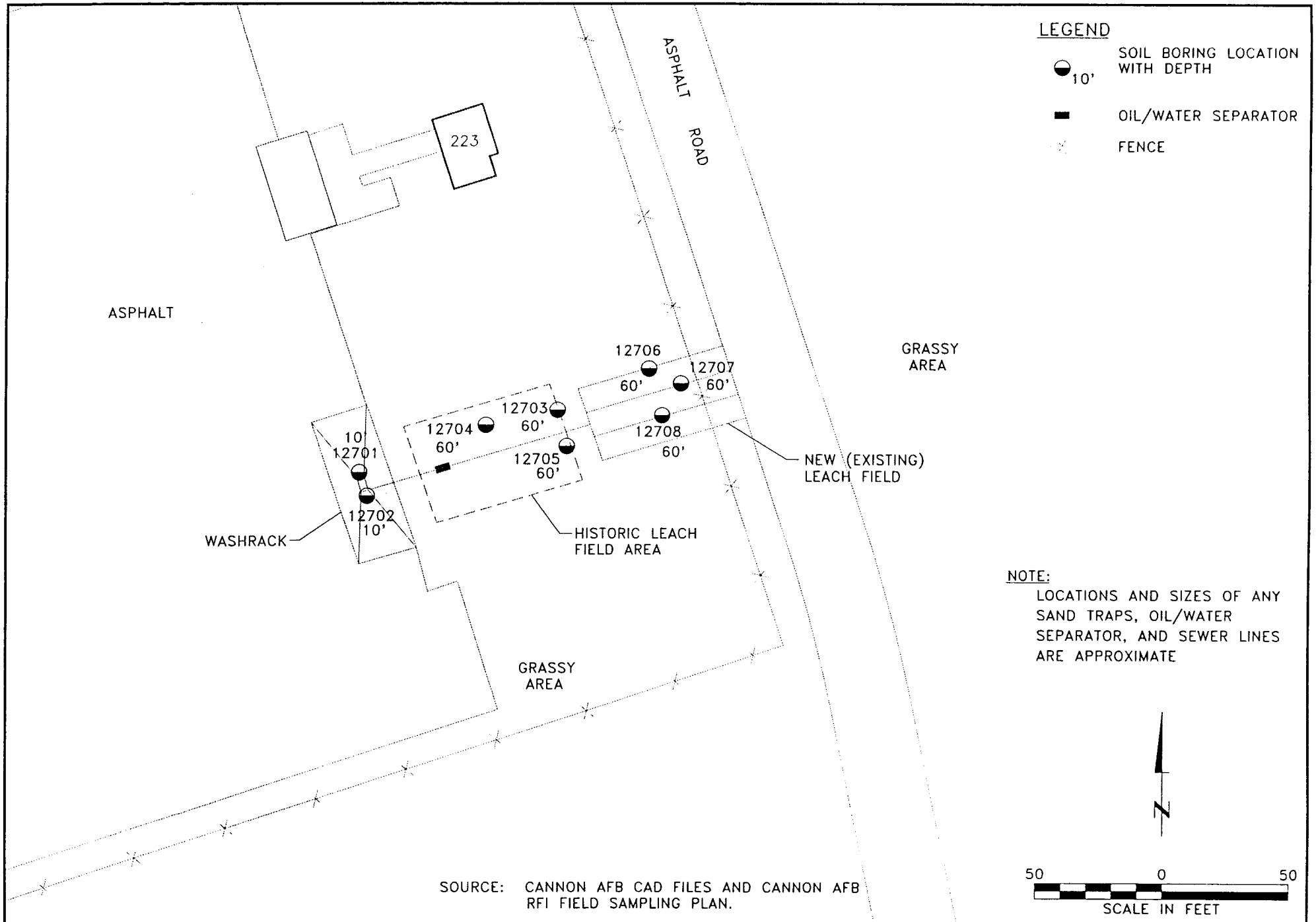
MODEL-PREDICTED CONCENTRATIONS
CANNON AFB SWMU 127

COCs	SSTLs	Maximum Concentrations
Benzo(a)anthracene	4.3 mg/kg	8 mg/kg
Benzo(a)pyrene	0.43 mg/kg	8.6 mg/kg
Benzo(b)fluoranthene	1.3 mg/kg	17 mg/kg
Dibenzo(a,h)anthracene	3.7 mg/kg	0.28 mg/kg
Benzene	4.6 mg/kg	3.8 mg/kg
Xylenes	23,000 mg/kg	260 mg/kg

TABLE 2-4c

MODEL-PREDICTED CONCENTRATIONS
CANNON AFB SWMU 127

COCs	SSTLs	Maximum Concentrations
Benzo(a)anthracene	4.3 mg/kg	8 mg/kg



SOURCE: CANNON AFB CAD FILES AND CANNON AFB RFI FIELD SAMPLING PLAN.

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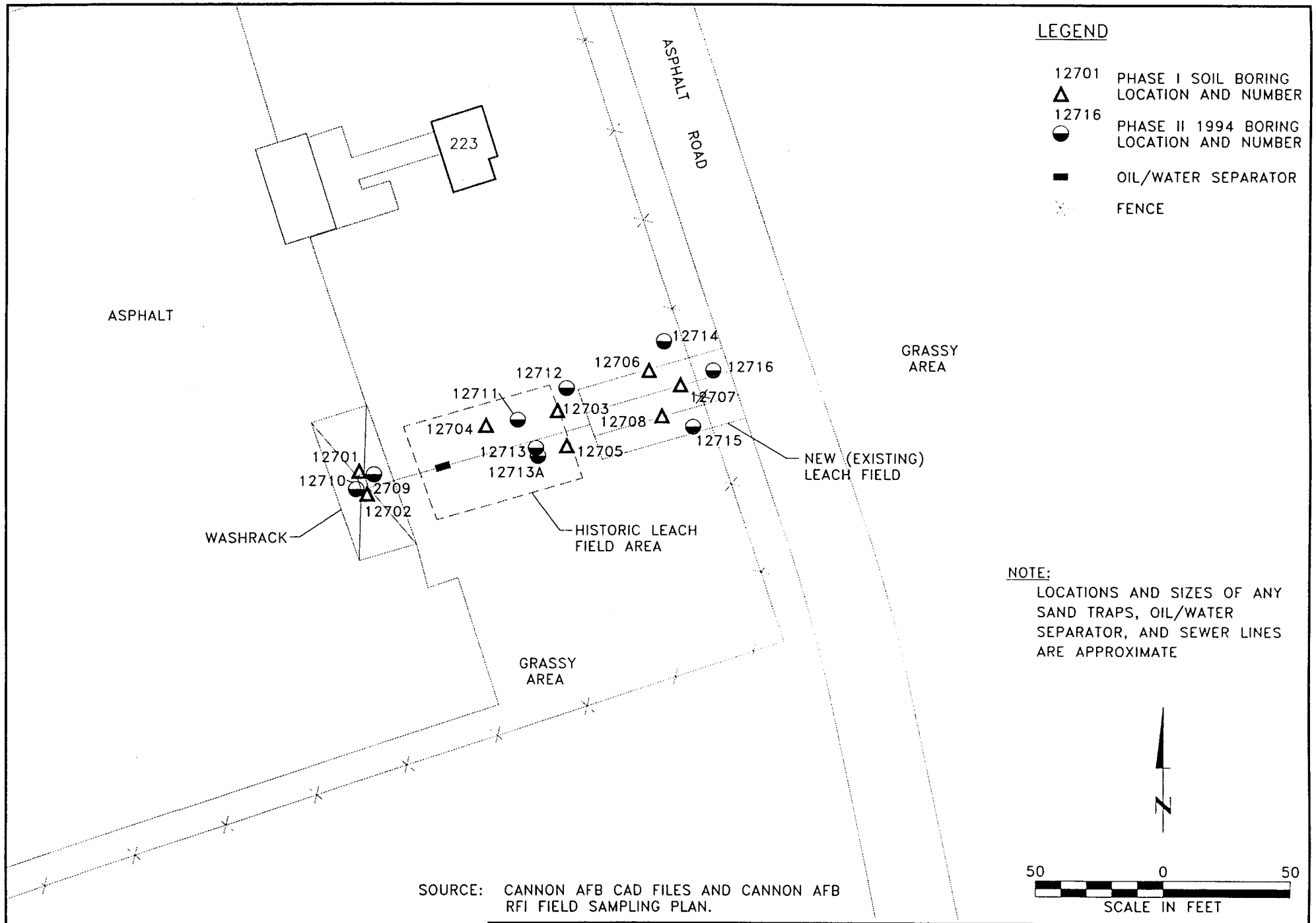
Xrefs: CAN-BASE.DWG

DRN BY: CJG	DATE: 10/01/99	SAND TRAP AT POL WASHRACK - SWMU 127 SITE PLAN AND BORING LOCATIONS CANNON AIR FORCE BASE NEW MEXICO	PROJECT NO. 45-FM9602NN.00
CHK'D BY: .	REVISION: 0		FIG. NO 2-1



SOURCE: CANNON AFB CAD FILES AND CANNON AFB RFI FIELD SAMPLING PLAN.

October 01, 1999 9:23:17 a.m.
Drawing: T:\CANNON\M9602NN\T03000\F2-2.DWG (TSM)
Xrefs: CAN-BASE.DWG

DRN BY: CJG	DATE: 10/01/99	SAND TRAP AT POL WASHRACK - SWMU 127 SITE PLAN WITH BORING LOCATIONS CANNON AIR FORCE BASE NEW MEXICO	PROJECT NO. 45-FM9602NN.00
CHK'D BY: .	REVISION: 0		FIG. NO. 2-2

3.1 SUMMARY

A 2,000-gallon underground heating oil storage tank, located at Hangar 108, was removed from the suspected location of Solid Waste Management Unit (SWMU) 2. The description given in the Resource Conservation and Recovery Act (RCRA) Facility Assessment, completed by A.T. Kearney, Inc., and dated 1987, is incorrect. There never was an underground storage tank (UST) at Hangar 108 that was connected to the oil/water separator (OWS). Therefore, this tank was not a Recovered Diesel Tank as described in the RFA.

Hangar 108, which was constructed during World War II, was demolished in 1989 and replaced with Hangar 125. The heating oil storage tank was removed and the former UST location was covered with the concrete floor of the new hangar. This UST was originally listed as an Appendix II site due to its misidentification as a Recovered Diesel Tank, but was later removed from the SWMU list when U.S. Environmental Protection Agency (USEPA) Region VI approved the Appendix II, Phase I RFI work plan in March 1992.

Therefore, No Further Response Action Planned is warranted for SWMU 2, and this site should be removed from the Cannon Air Force Base (AFB) RCRA permit.

3.2 SITE DESCRIPTION AND OPERATIONAL HISTORY

3.2.1 Site Description

Refer to Summary in Section 2.1 above.

3.2.2 Operational History

Refer to Summary in Section 2.1 above.

3.3 LAND USE

3.3.1 Current

Refer to Summary in Section 2.1 above.

3.3.2 Future/Proposed

Cannon AFB is an integral part of the defense system of the United States; therefore, the Base will remain active for the foreseeable future. In addition, SWMU 2 never existed, and the 2,000-gallon underground heating oil storage tank has been removed from the suspected location of SWMU 2.

3.4 INVESTIGATIVE ACTIVITIES

No formal investigations of the area misidentified as SWMU 2 have been performed. However, a 2,000-gallon heating oil UST was removed during the demolition of Hangar 108, and the former UST location was covered with the concrete floor of a new hangar.

3.5 SITE CONCEPTUAL MODEL

The area misidentified as SWMU 2 has never been the subject of a conceptual model.

3.6 SITE ASSESSMENTS

No site assessments were performed for the area misidentified as SWMU 2.

3.6.1 Screening Assessments

No screening assessments were performed for the area misidentified as SWMU 2.

3.6.2 Risk Assessments

No screening assessments were performed for the area misidentified as SWMU 2.

3.6.3 Other Applicable Assessments

3.6.3.1 Surface Water

There is no surface water in the area misidentified as SWMU 2.

3.6.3.2 Groundwater

Groundwater at Cannon AFB has been located at a depth greater than 250 feet; as such, the area misidentified as SWMU 2 contained no means for groundwater discharges to occur.

3.6.3.3 Underground Storage Tanks (USTs)

A 2,000-gallon heating oil UST, located at Hangar 108, was removed from the suspected location of SWMU 2. Hangar 108, which was constructed during World War II, was demolished in 1989 and replaced with Hangar 125. The tank was removed and the former UST location was covered with the concrete floor of the new hangar. This UST was originally listed as an Appendix II site due to its misidentification as a Recovered Diesel Tank, but was later removed from the SWMU list when U.S. Environmental Protection Agency (USEPA) Region VI approved the Appendix II, Phase I RFI work plan in March 1992.

3.6.3.4 Other

No other assessments have been conducted in the area misidentified as SWMU 2.

3.7 NO FURTHER ACTION PROPOSAL

3.7.1 Rationale

Because SWMU 2 never existed, and this SWMU was removed from the SWMU list when USEPA Region VI approved the Appendix II, Phase I RFI work plan in March 1992, no further response action is recommended for SWMU 2.

3.7.2 Criterion

SWMU 2 is proposed for no further action based on New Mexico Environment Department No Further Action Criterion 1: This SWMU does not exist.

4.1 SUMMARY

SWMU 76, the Sludge Weathering Pit, was located near Building 326, adjacent to the installation's northern boundary fence. The pit, last used in 1980, was used to weather sludge from leaded gasoline storage tanks in the 1960s and 1970s. The sludge was landfilled after it was judged to have been sufficiently weathered.

A Remedial Investigation (RI) of 18 Installation Restoration Program (IRP)/SWMU sites was completed in 1991 (W-C 1992). Based on the analytical results from this investigation, the RI report recommended that no further action or investigation was required at SWMU 76.

A Baseline Risk Assessment (BRA), performed using the results of the RI, was included in the RI report. The BRA assessed potential adverse human health and ecological effects by comparing soil data to risk-based Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) criteria listed in the RCRA Facility Investigation Guidance, Volume I (USEPA 1989a), or if these levels were exceeded, by calculating site-specific health risks. The BRA concluded that potential impacts to human health and the environment were insignificant at SWMU 76.

The conclusions reached in the RI report and the BRA were consistent in recommending no further work at this site. Therefore, No Further Response Action Planned is warranted for SWMU 76, and this site should be removed from the Cannon Air Force Base (AFB) RCRA permit.

4.2 SITE DESCRIPTION AND OPERATIONAL HISTORY

4.2.1 Site Description

SWMU 76, the Sludge Weathering Pit, covered approximately 200 square feet (HARZA 1997). This relatively flat SWMU was located near Building 326 and adjacent to the northern boundary of Cannon AFB. SWMU 76 was used throughout the 1960s and 1970s to weather sludge from leaded gasoline storage tanks. The sludge was landfilled after it was judged to have been sufficiently weathered.

4.2.2 Operational History

The Sludge Weathering Pit, last used in 1980, was used to weather sludge from leaded gasoline storage tanks during the 1960s and 1970s. According to a Phase I Records Search performed in 1983, a soil sample collected in 1981 to evaluate past material disposal site was analyzed for total lead and oil and grease (CH_2M Hill 1983). The lead analysis was nondetect, and 0.012 mg/kg of oil and grease were detected. An RI of 18 IRP/SWMU sites investigated this site in 1991. The RI report included a BRA and recommended that no further action or investigation was required.

4.3 LAND USE

4.3.1 Current

The Sludge Weathering Pit, last used in 1980, was used to weather sludge from leaded gasoline storage tanks. Since 1980, SWMU 76 has been covered with fill material and closed.

4.3.2 Future/Proposed

Cannon AFB is an integral part of the defense system of the United States; therefore, the facility will remain active for the foreseeable future. However, SWMU 76 has been covered with fill material and has been inactive since 1980.

4.4 INVESTIGATIVE ACTIVITIES

4.4.1 Summary

According to a Phase I Records Search performed in 1983, a soil sample collected in 1981 to evaluate past material disposal site was analyzed for total lead and oil and grease (CH_2M Hill 1983). The lead analysis was non-detect, and 0.012 mg/kg of oil and grease were detected. No additional information was reviewed regarding this sampling event.

SWMU 76 was the subject of a RI in 1991 (W-C 1992). A BRA, conducted using the results of the RI, was included in the RI report. Based on the results of the RI and the BRA, it was determined that the No Further Response Action Planned alternative was most appropriate for SWMU 76.

4.4.2 Investigation #1: Remedial Investigation (RI) of 18 IRP/SWMU sites

4.4.2.1 Non-Sampling Data Collection

In addition to the field investigation and data collection effort, the RI also included the performance of a BRA on the analytical data from SWMU 76. The BRA is addressed as Investigation #2 in Section 4.4.3 below.

4.4.2.2 Sampling Data Collection

Four soil borings were drilled and samples were collected for chemical and geotechnical analyses during the RI. Two surface samples were collected from three of the borings at depth intervals of 0 to 0.5 feet. Additionally, nine subsurface soil samples were collected from the four borings at depth intervals ranging from 4 to 31 feet. The boring locations and total depths were chosen to evaluate the nature and extent of potential hazardous contaminants in the area of SWMU 76. Samples were selected for analyses from varying depth intervals to provide a cross-section profile of the Sludge Weathering Pit. The sampling locations are shown in figure 4-1

All soil samples collected were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs), and for Target Analyte List (TAL) metals and organic lead.

Groundwater was not investigated because the potential impacts to groundwater were considered minimal. The potential was considered minimal since the depth to groundwater at Cannon AFB is greater than 250 feet, and the soil sampling results demonstrate that contaminants were not being transported significantly in a vertical direction beneath the SWMU.

4.4.2.3 Data Gaps

It was concluded that the data collected during the RI was sufficient to complete a BRA. In addition, the data quality was deemed to be sufficient to meet the objectives of the RI and the BRA. Therefore, no data gaps exist.

4.4.2.4 Results and Conclusions

The maximum concentrations of ethylbenzene and xylenes were detected in the same sample collected from a depth interval of 8 to 10 feet at estimated concentrations of 4,000 µg/kg and 7,900 µg/kg, respectively. Ethylbenzene and xylenes may have been present in a second sample collected from another boring drilled during the RI at the same depth and at similar concentrations. In addition, these compounds may have also been present in a third sample collected from a third boring at a depth interval of 4 to 6 feet at concentrations as high as 29,000 µg/kg. However, in both cases the presence of ethylbenzene and xylenes was potentially masked by the high detection limits necessitated by laboratory dilution of the samples due to the presence of non-target compounds. Lower levels of organics were also detected in the samples analyzed at intervals up to 18 feet in depth.

Mercury was the only metal detected at levels of potential concern. The maximum detected concentration of mercury was 0.85 mg/kg from a 25-foot depth interval. Organic lead was only detected at very low levels. However, inorganic lead was found at concentrations exceeding the background levels established for Cannon AFB, but these concentrations were well below regional background levels for lead. Both the maximum concentration of lead detected at SWMU 76 (12.6 mg/kg) and the background levels for lead were below applicable U.S. Environmental Protection Agency (USEPA) Generic Soil Screening level of 400 mg/kg. Tables 4-1a, 4-1b, and 4-1c present the analytical results for SWMU 76.

The analytical data from SWMU 76 suggest the possible presence of residual petroleum sludge from storage tank bottoms. Petroleum chemicals were also detected to depths of 18 feet in underlying native soils.

4.4.3 Investigation #2: Baseline Risk Assessment (BRA) of 18 IRP/SWMU Sites

4.4.3.1 Non-Sampling Data Collection

No additional sampling data was collected as part of the BRA. However, a human health and ecological risk assessment that considered both present and future potential receptors and all appropriate exposure pathways was performed on the data collected during the RI.

4.4.3.2 Sampling Data Collection

No data was collected during the BRA. However, the BRA was included in the RI report. The RI was addressed as Investigation #1 in Section 4.4.2 above.

4.4.3.3 Data Gaps

It was concluded that the data collected during the RI was sufficient to complete a BRA. In addition, the data quality was deemed to be sufficient to meet the objectives of the RI and the BRA. Therefore, no data gaps exist.

4.4.3.4 Results and Conclusions

The BRA used validated soil data collected as part of the RI to identify and select chemicals of concern (COCs) for the quantitative characterization of risk at SWMU 76. Potential receptors at this SWMU for human health risks included current and future maintenance workers at the SWMU. Potential construction workers and residents were eliminated as receptors because this SWMU is less than 0.5-acres in size (the minimum plot size judged to be reasonable for future construction) and covered with clean fill material and grass. In addition, trespassers and off-site residents/workers were also eliminated because of the low frequency and duration of exposure associated with these potential receptors.

Based on site conditions at SWMU 76, all exposure pathways were determined to be either incomplete, insignificant, or not applicable with the exception of the VOC inhalation pathway. Human receptors for this pathway were identified as adult, general-duty or ground maintenance workers. Potential exposures via this pathway were expected to be low because of the anticipated low ambient VOC concentrations and the short duration of relatively infrequent exposures (grass mowing for approximately 5 to 10 minutes once per month).

The COCs for SWMU 76 were identified as lead (despite being detected at concentrations below regional background levels), ethylbenzene and xylenes. However, since a USEPA-verified toxicity value for lead had not been established, the quantitative evaluation of human health impacts at this site were limited to ethylbenzene and xylenes. None of these COCs are classified as carcinogenic chemicals. As shown in Table 4-3, all hazard indices and hazard quotients for subchronic and chronic exposures to site COCs fell well below the USEPA's level of concern (1.0) for noncarcinogenic effects . This indicated that no unacceptable risk was expected.

A single ecological risk assessment was included in the BRA for all 18 SWMU/IRP sites that the RI report covered. The ecological risk assessment addressed each chemical that was detected in

the soils at Cannon AFB at concentrations determined to exceed background levels. However, lead was the only COC discussed in the ecological risk assessment that was also detected at SWMU 76. Potential risk from metals in soil to biota was considered greatest through direct exposure of small mammals and other ground-dwelling organisms. Based on the calculated toxicity values for incidental soil ingestion, none of the COC metals (including lead) were considered to pose a risk to small mammal populations. Tables 4-2a and 4-2b present the selection of the COCs and the calculation of the risk characterizations for SWMU 76.

Based on the results of the BRA, no unacceptable human health or ecological risks due to chemical releases were expected from this SWMU. Therefore, no further response action was recommended for this SWMU.

4.5 SITE CONCEPTUAL MODEL

4.5.1 Nature and Extent of Contamination

The analytical data from SWMU 76 suggested the possible presence of residual petroleum sludge from storage tank bottoms. The detection limits were elevated in two samples because of dilution, necessitated by the presence of nontarget compounds in the 4- to 6-foot depth interval. Petroleum chemicals were also detected to depths of 18 feet in underlying native soils

Ethylbenzene and xylenes were detected in a single boring at a depth interval of 8 to 10 feet at estimated concentrations of 4,000 µg/kg and 7,900 µg/kg, respectively. These compounds may have also been present in a second boring at the same depth, and also in a third boring at a depth of 4 to 6 feet, but their presence was potentially masked by the elevated detection limits discussed above.

Mercury, with a maximum detected concentration of 0.85 mg/kg at a 25-foot depth interval, was the only metal detected at levels of potential concern.

4.5.2 Environmental Fate

Based on site conditions at SWMU 76, all exposure pathways were determined to be either incomplete, insignificant, or not applicable with the exception of the air pathway. Within the air pathway the fate and transport of the metals detected in the soils of this area showed no evidence of health risks. Based on air quality modeling of soil gas releases, VOCs detected at SWMU 76 do not present a health risk. Groundwater at Cannon AFB has been located at a depth greater than 250 feet, as such this SWMU contained no means for groundwater discharges to occur.

4.6 SITE ASSESSMENTS

4.6.1 Summary

A BRA was conducted based on the results of the RI for SWMU 76. Based on the results of the BRA, no unacceptable human health or ecological risks due to chemical releases were expected from this SWMU. Therefore, no further action was recommended for SWMU 76.

4.6.2 Screening Assessments

4.6.2.1 Human Health

The chemicals of potential concern (COPCs) at SWMU 76, including ethylbenzene, xylenes, mercury, and lead, were initially screened by comparing detected concentration of these chemicals to RFI criteria. This screening process eliminated mercury as a COC.

Although the maximum concentration of lead detected at SWMU 76 (12.6 mg/kg) was below applicable U.S. Environmental Protection Agency (USEPA) Generic Soil Screening level of 400 mg/kg, and regional background levels for lead, lead was considered a COC because the maximum concentration detected exceeded the background levels established for Cannon AFB.

Ethylbenzene and xylenes were also considered COCs. All COCs were subjected to a quantitative characterization of risk.

4.6.2.2 Ecological

A single ecological risk assessment was included in the BRA for all 18 SWMU/IRP sites that the RI report covered. The ecological risk assessment addressed each chemical that was detected in the soils at Cannon AFB at concentrations determined to exceed background levels. However, lead was the only COC discussed in the ecological risk assessment that was also detected at SWMU 76. Potential risk from metals in soil to biota was considered greatest through direct exposure of small mammals and other ground-dwelling organisms. Based on the calculated toxicity values for incidental soil ingestion, none of the COC metals (including lead) were considered to pose a risk to small mammal populations.

4.6.3 Risk Assessments

4.6.3.1 Human Health

Potential receptors at this SWMU for human health risks included current and future maintenance workers at the SWMU. Based on site conditions at SWMU 76, all exposure pathways were determined to be either incomplete, insignificant, or not applicable with the exception of the VOC inhalation pathway. Human receptors for this pathway were identified as adult, general-duty or ground maintenance workers. Potential exposures via this pathway were expected to be low because of the anticipated low ambient VOC concentrations and the short duration of relatively infrequent exposures.

The COCs for SWMU 76 were identified as lead, ethylbenzene, and xylenes. However, since a USEPA-verified toxicity value for lead had not been established, the quantitative evaluation of human health impacts at this site were limited to ethylbenzene and xylenes. None of these COCs are classified as carcinogenic chemicals. All hazard indices and hazard quotients for subchronic and chronic exposures to site COCs fell well below the USEPA's level of concern (1.0) for noncarcinogenic effects . This indicated that no unacceptable risk was expected.

4.6.3.2 Ecological

Based on the results of the BRA, no further action was recommended for SWMU 76. Therefore, a full-scale ecological risk assessment was not conducted for SWMU 76.

4.6.4 Other Applicable Assessments

4.6.4.1 Surface Water

SWMU 76 contained no surface water.

4.6.4.2 Groundwater

Groundwater at SWMU 76 has been located at a depth greater than 250 feet, as such this SWMU contained no means for groundwater discharges to occur.

4.6.4.3 Underground Storage Tanks (USTs)

There have never been any underground storage tanks (USTs) located at SWMU 76.

4.6.4.4 Other

According to a Phase I Records Search performed in 1983, a soil sample collected in 1981 to evaluate past material disposal site was analyzed for total lead and oil and grease (CH_2M Hill 1983). The lead analysis was nondetect, and 0.012 mg/kg of oil and grease were detected. No additional information was reviewed regarding this sampling event.

No other assessments have been conducted in the area of SWMU 76.

4.7 NO FURTHER ACTION PROPOSAL

4.7.1 Rationale

Based on the conclusions reached in the RI, the BRA, and the Decision Document, no further response action has been recommended for SWMU 76.

4.7.2 Criterion

SWMU 76 is proposed for no further action based on NMED NFA Criterion 5: The SWMU has been characterized in accordance with the current applicable state and federal regulations, and the available data has indicated that the contaminants present pose an acceptable level of risk under current and projected future land use.

TABLE 4-1a

SURFACE AND SUBSURFACE SOIL METALS
RAA5 (SWMU 76) SLUDGE WEATHERING PIT

	Aluminum (mg/kg)		Arsenic (mg/kg)		Barium (mg/kg)		Beryllium (mg/kg)		Chromium (mg/kg)	
Sample ID	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
CAN076-0761-0004	8440	J	0.95	U	151	J	0.52	J	7	
CAN076-0761-0010	6990	J	1.2	J	92.6		0.51	J	6.1	
CAN076-0761-0025	6190	J	0.92	J	42.5	J	0.235	U	5.5	
CAN076-0762-0000	8440		1.8	J	82.6		0.82	J	9.4	
CAN076-0762-0008	3820	J	1.9	J	374		0.235	U	3.8	
CAN076-0762-0014	5380	J	1.1	J	77.5		0.23	U	4.5	
CAN076-0762-0031	5220	J	0.6	J	61.2		0.215	U	6	
CAN076-0763-0000	9310		1.8	J	86.6		0.72	J	10	
CAN076-0763-0008	5770	J	1.6	J	680		0.24	U	4.6	
CAN076-0763-0018	3530	J	0.63	J	1060		0.25	U	3.6	
CAN076-0763-0022	6140	J	0.59	J	78.1		0.225	U	6.2	
Number of Records	11		11		11		11		11	
Number of Detects	11		10		11		4		11	
Min	3530		0.59		42.5		0.215		3.6	
Mean	6.29E+03		1.19E+00		2.53E+02		3.82E-01		6.06E+00	
Max	9310		1.9		1060		0.82		10	
95% UCL	7.31E+03		1.47E+00		4.33E+02		5.04E-01		7.20E+00	
Std. Dev.	1.87E+03		5.08E-01		3.29E+02		2.23E-01		2.09E+00	
t 0.05	1.812		1.812		1.812		1.812		1.812	
Scm	5.63E+02		1.53E-01		9.93E+01		6.73E-02		6.30E-01	

TABLE 4-1a (continued)

SURFACE AND SUBSURFACE SOIL METALS
RAA5 (SWMU 76) SLUDGE WEATHERING PIT

	Cobalt (mg/kg)		Copper (mg/kg)		Iron (mg/kg)		Lead (mg/kg)		Magnesium (mg/kg)	
Sample ID	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
CAN076-0761-0004	3	J	16.2		6140		4.9		2560	
CAN076-0761-0010	2.3	J	6.7		5520		4.2		3540	
CAN076-0761-0025	2.1	J	11.2		3770		2.2		11800	
CAN076-0762-0000	4.6	J	11		8740		9.6		1570	
CAN076-0762-0008	2.5	J	8.7		2990		2.3		3800	
CAN076-0762-0014	1.7	J	6.7		3300		2.6		7880	
CAN076-0762-0031	1.5	J	2.2	U	4150		1.6		9590	
CAN076-0763-0000	4.6	J	13.7		9300		12.6		1660	
CAN076-0763-0008	3.5	J	2.55	U	3830	J	2.6		5470	
CAN076-0763-0018	1.5	J	1.7	U	2150		1.6		8940	
CAN076-0763-0022	1.9	J	1.75	U	3880		2.4		8400	
Number of Records	11		11		11		11		11	
Number of Detects	11		7		11		11		11	
Min	1.5		1.7		2150		1.6		1570	
Mean	2.65E+00		7.49E+00		4.89E+03		4.24E+00		5.93E+03	
Max	4.6		16.2		9300		12.6		11800	
95% UCL	3.28E+00		1.03E+01		6.16E+03		6.20E+00		7.87E+03	
Std. Dev.	1.14E+00		5.12E+00		2.32E+03		3.60E+00		3.55E+03	
t 0.05	1.812		1.812		1.812		1.812		1.812	
Sem	3.44E-01		1.54E+00		6.99E+02		1.09E+00		1.07E+03	

TABLE 4-1a (continued)

SURFACE AND SUBSURFACE SOIL METALS
RAA5 (SWMU 76) SLUDGE WEATHERING PIT

	Manganese (mg/kg)		Mercury (mg/kg)		Nickel (mg/kg)		Silver (mg/kg)		Vanadium (mg/kg)		Zinc (mg/kg)	
Sample ID	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
CAN076-0761-0004	80.9		0.13		7.8	J	1	J	16.3		15	
CAN076-0761-0010	65.4		0.055	U	6.2	J	0.455	U	14.4		12.6	
CAN076-0761-0025	36.8		0.85		5.9	J	1.2	J	11.2	J	7.7	
CAN076-0762-0000	226		0.055	U	8.4	J	0.425	U	20		22.2	J
CAN076-0762-0008	29.2		0.06	U	7	J	1.1	J	10		7.9	
CAN076-0762-0014	41.1		0.06	U	5.4	J	0.465	U	11.8		9.2	
CAN076-0762-0031	35.9		0.055	U	4.4	J	0.43	U	13.3		10.9	
CAN076-0763-0000	223		0.055	U	8.4	J	0.44	U	19.8		24.9	
CAN076-0763-0008	43.2		0.06	U	8.3	J	0.48	U	15.5		15	
CAN076-0763-0018	18		0.065	U	5.6	J	0.5	U	16.9		9.3	
CAN076-0763-0022	38.2		0.055	U	5.3	J	0.455	U	16.4		10.2	
Number of Records	11		11		11		11		11		11	
Number of Detects	11		2		11		3		11		11	
Min	18		0.055		4.4		0.425		10		7.7	
Mean	7.62E+01		1.36E-01		6.61E+00		6.32E-01		1.51E+01		1.32E+01	
Max	226		0.85		8.4		1.2		20		24.9	
95% UCL	1.17E+02		2.66E-01		7.39E+00		7.98E-01		1.69E+01		1.63E+01	
Std. Dev.	7.53E+01		2.38E-01		1.43E+00		3.05E-01		3.29E+00		5.73E+00	
t 0.05	1.812		1.812		1.812		1.812		1.812		1.812	
Sem	2.27E+01		7.17E-02		4.33E-01		9.19E-02		9.93E-01		1.73E+00	

TABLE 4-1b

SURFACE SOIL VOLATILES
RAA5 (SWMU 76) SLUDGE WEATHERING PIT

Sample ID	Toluene (mg/kg) Value	Qual	Total Xylenes (mg/kg) Value	Qual
CAN076–0762–0000	0.007	J	0.003	J
CAN076–0763–0000	0.0055	U	0.0055	U
Number of Records	2		2	
Number of Detects	1		1	
Min	5.50E–03		3.00E–03	
Mean	6.25E–03		4.25E–03	
Max	0.007		0.0055	
95% UCL	NA		NA	
Std. Dev.	NA		NA	
t 0.05	NA		NA	
Sem	NA		NA	

TABLE 4-1c

SURFACE AND SUBSURFACE SOIL VOLATILES
RAA5 (SWMU 76) SLUDGE WEATHERING PIT

Sample ID	Ethyl Benzene (mg/kg) Value	Qual	Toluene (mg/kg) Value	Qual	Total Xylenes (mg/kg) Value	Qual
CAN076–0761–0004	14.5	U	14.5	U	14.5	U
CAN076–0761–0010	0.0055	U	0.0055	U	0.0055	U
CAN076–0761–0025	0.006	U	0.006	U	0.006	U
CAN076–0762–0000	0.0055	U	0.007	J	0.003	J
CAN076–0762–0008	3.65	U	3.65	U	3.65	U
CAN076–0762–0014	0.006	U	0.003	J	0.006	U
CAN076–0762–0031	0.0055	U	0.0055	U	0.0055	U
CAN076–0763–0000	0.0055	U	0.0055	U	0.0055	U
CAN076–0763–0008	4	J	13.5	U	7.9	J
CAN076–0763–0018	0.0055	U	0.0055	U	0.0055	U
CAN076–0763–0022	0.006	UJ	0.006	UJ	0.006	UJ
Number of Records	11		11		11	
Number of Detects	1		2		2	
Min	0.0055		0.003		0.003	
Mean	2.02E+00		2.88E+00		2.37E+00	
Max	14.5		14.5		14.5	
95% UCL	4.43E+00		5.95E+00		4.96E+00	
Std. Dev.	4.41E+00		5.61E+00		4.73E+00	
t 0.05	1.812		1.812		1.812	
Sem	1.33E+00		1.69E+00		1.43E+00	

TABLE 4-1d

SURFACE SOIL METALS
RAA5 (SWMU 76) SLUDGE WEATHERING PIT

	Aluminum (mg/kg)		Arsenic (mg/kg)		Barium (mg/kg)		Beryllium (mg/kg)		Chromium (mg/kg)	
Sample ID	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
CAN076-0762-0000	8440		1.8	J	82.6		0.82	J	9.4	
CAN076-0763-0000	9310		1.8	J	86.6		0.72	J	10	
Number of Records	2		2		2		2		2	
Number of Detects	2		2		2		2		2	
Min	8440		1.8		82.6		0.72		9.4	
Mean	8875		1.8		84.6		0.77		9.7	
Max	9310		1.8		86.6		0.82		10	
95% UCL	NA		NA		NA		NA		NA	
Std. Dev.	NA		NA		NA		NA		NA	
t 0.05	NA		NA		NA		NA		NA	
Sem	NA		NA		NA		NA		NA	

TABLE 4-1d (continued)

SURFACE SOIL METALS
RAA5 (SWMU 76) SLUDGE WEATHERING PIT

	Cobalt (mg/kg)		Copper (mg/kg)		Iron (mg/kg)		Lead (mg/kg)		Magnesium (mg/kg)	
Sample ID	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
CAN076-0762-0000	4.6	J	11		8740		9.6		1570	
CAN076-0763-0000	4.6	J	13.7		9300		12.6		1660	
Number of Records	2		2		2		2		2	
Number of Detects	2		2		2		2		2	
Min	4.6		11		8740		9.6		1570	
Mean	4.6		12.35		9020		11.1		1615	
Max	4.6		13.7		9300		12.6		1660	
95% UCL	NA		NA		NA		NA		NA	
Std. Dev.	NA		NA		NA		NA		NA	
t 0.05	NA		NA		NA		NA		NA	
Sem	NA		NA		NA		NA		NA	

TABLE 4-1d (continued)

SURFACE SOIL METALS
RAA5 (SWMU 76) SLUDGE WEATHERING PIT

	Manganese (mg/kg)		Nickel (mg/kg)		Vanadium (mg/kg)		Zinc (mg/kg)	
Sample ID	Value	Qual	Value	Qual	Value	Qual	Value	Qual
CAN076-0762-0000	226		8.4	J	20		22.2	J
CAN076-0763-0000	223		8.4	J	19.8		24.9	
Number of Records	2		2		2		2	
Number of Detects	2		2		2		2	
Min	223		8.4		19.8		22.2	
Mean	224.5		8.4		19.9		23.55	
Max	226		8.4		20		24.9	
95% UCL	NA		NA		NA		NA	
Std. Dev.	NA		NA		NA		NA	
t 0.05	NA		NA		NA		NA	
Sem	NA		NA		NA		NA	

TABLE 4-2a

SELECTION OF CHEMICALS OF CONCERN
RAA5 (SWMU 76)

Medium	Soils
Chemicals Detected:	Aluminum (Al), arsenic (As), barium (Ba), beryllium (Be), chromium (Cr), cobalt (Co), copper (Cu), iron (Fe), lead (Pb), magnesium (Mg), manganese (Mn), mercury (Hg), nickel (Ni), silver (Ag), vanadium (V), zinc (Zn), BEHP, Di-n-BP, toluene, 2-hexanone, acetone, ethylbenzene, total xylenes, methylene chloride
	*Cu, Fe, Mg
	**Ba, Be, Co, Mn, Hg, Ni, Ag, V, Zn, Al
Chemicals Discarded:	***As, Cr
	Lab contaminants: BEHP, Di-n-BP, 2-hexanone, acetone, methylene chloride
Chemicals of Concern:	Pb, ethylbenzene, xylene, toluene
Exceeded RFI Criteria:	None
Exposure Scenario:	Area < ½ acre; residential scenario not expected; (current and future) general duty work soil ingestion, dermal contact and inhalation of VOCs and particulates; industrial setting former weathering pit (sludge) already covered.

*Low toxicity chemicals
**At regional background concentrations
***At site background concentrations

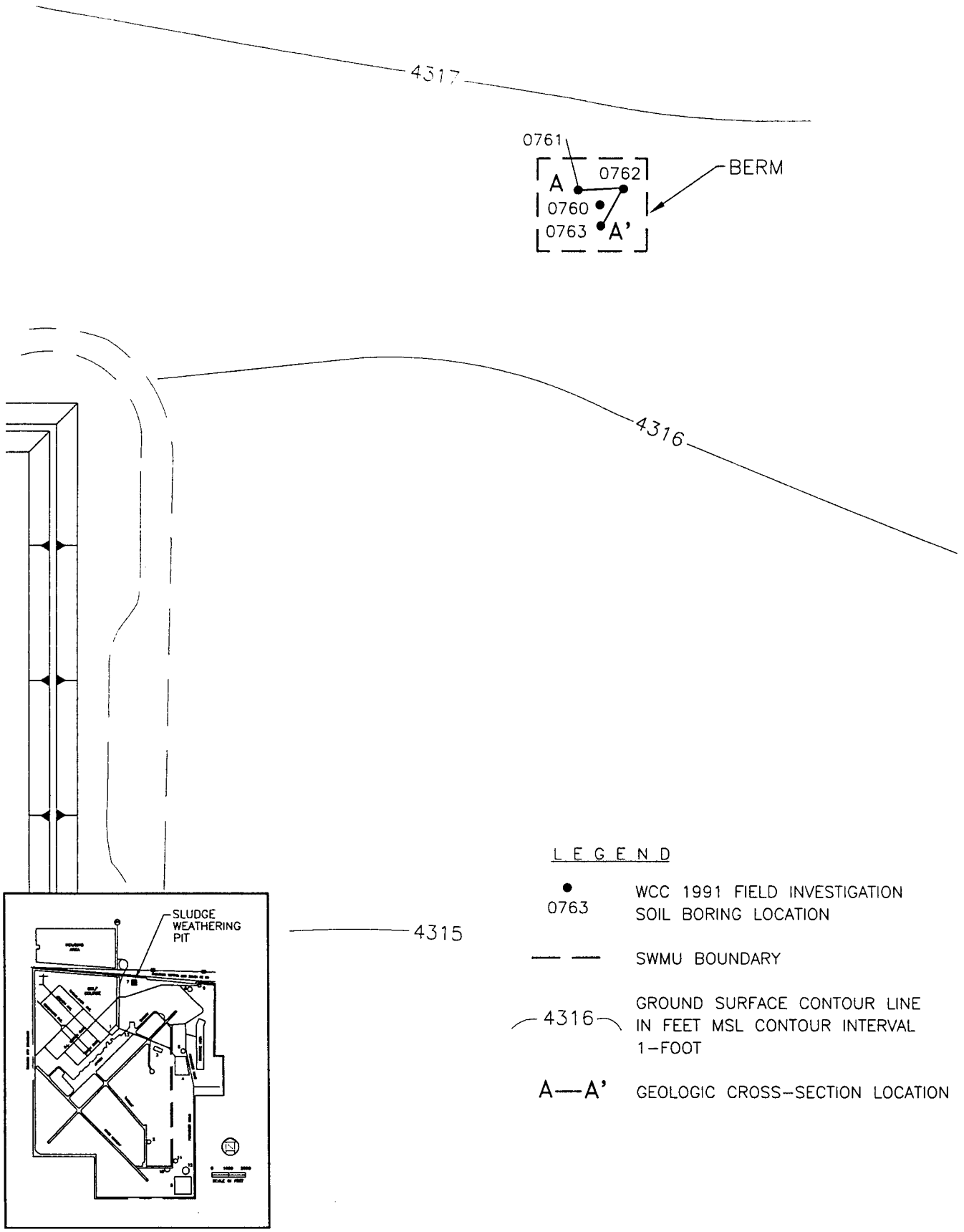
TABLE 4-2b

SUMMARY OF RISK CHARACTERIZATION FOR CANNON AFB
RAA5

Receptor/Pathway	Average Exposure			Reasonable Maximum Exposure		
	Cancer Risk[1]	Subchronic Hazard Index	Chronic Hazard Index	Cancer Risk[1]	Subchronic Hazard Index	Chronic Hazard Index
Current Worker - Maintenance						
-- Inhalation - VOCs	0.00E+00	3.96E-02	3.96E-02	0.00E+00	3.36E-01	3.36E-01
	0.00E+00	3.96E-02	3.96E-02	0.00E+00	3.36E-01	3.36E-01
Future Worker - Maintenance						
-- Inhalation - VOCs	0.00E+00	3.96E-02	3.96E-02	0.00E+00	3.36E-01	3.36E-01
	0.00E+00	3.96E-02	3.96E-02	0.00E+00	3.36E-01	3.36E-01

1 No carcinogenic chemicals of concern were identified.

REPORT PHASE: RCRA PERMIT APPLICATION



October 01, 1999 10:06:15 a.m.
Drawing: T:\CANNON\M9602NN\T03000\F4-1.DWG (TSM)

DRN. BY: TSSM	DATE: 10/01/99	LOCATION OF SOIL BORINGS AT SLUDGE WEATHERING PIT SWMU NO. 76/IRP NO. WP-14 CANNON AIR FORCE BASE NEW MEXICO	PROJECT No.	FIG. No.
CHK'D. BY:	REVISIONS: 0		45-FM9602NN.00	4-1

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