

**Stewart, Patricia, NMENV**



**From:** Jeffrey\_Voelker@URSCorp.com  
**Sent:** Thursday, July 22, 2010 2:46 PM  
**To:** Hanson, Hugh G CIV USAF AFSOC 27 SOCES/CEAN; Stewart, Patricia, NMENV  
**Cc:** Tony\_Sedlacek@URSCorp.com  
**Subject:** Fw: SWMU 96 and SWMU 81 - C A F B  
**Attachments:** Revised Tables 6,7,10 and 11 CAC Proposal June 2010.xls; Table D-15 revised 21JUL10.xls  
 Mr. Hanson and Ms. Stewart,

Please see the responses to Ms. Stewart's questions regarding SWMUs 96 and 81 in Tony's email below.

Thanks,

Jeff Voelker

URS Group, Inc.  
 12120 Shamrock Plaza | Suite 300 | Omaha, NE 68154  
 (402) 952-2558 Direct | (402) 681-6254 Cell  
[Jeffrey\\_Voelker@URSCorp.com](mailto:Jeffrey_Voelker@URSCorp.com)

This e-mail and any attachments contain URS Corporation confidential information that may be proprietary or privileged. If you receive this message in error or are not the intended recipient, you should not retain, distribute, disclose or use any of this information and you should destroy the e-mail and any attachments or copies.

----- Forwarded by Jeffrey Voelker/Omaha/URSCorp on 07/22/2010 03:12 PM -----

**Tony** To Jeffrey  
**Sedlacek/Omaha/URSCorp** Voelker/Omaha/URSCorp@URSCORP  
 cc  
 07/22/2010 03:10 PM Subject Re: Fw: SWMU 96 and SWMU 81

General Note: URS apologizes for an inconsistencies in the Appendix D and CAC Proposal Tables. Tables D-15, 10 and 11 compile data from multiple investigations completed at SWMUs 96. Similarly, Tables 6 and 7 include data from multiple sampling efforts at SWMU 81. The tables were manually generated using data presented in historical reports. Compiling the data using the historical reports has proven to be a challenge when trying to determine accurate sampling dates, units for reported results, and matching the text to tables. The Cannon AFB administrative record was utilized to verify results.

Below is a summary of URS' responses to Ms. Stewart's comments, which were provided via multiple emails.

### SWMU 96

(1) According to my copy of the Woodward-Clyde Remedial Investigation Report for 18 SWMUs, values for 4,4-DDD, 4,4-DDE and 4,4-DDT in samples 17C-1-2 and 17C-3-61 were below detection limits. The values should, therefore, be replaced with "<" and noted with a UJ qualifier.

The values for 4,4-DDD, 4,4-DDE and 4,4-DDT in samples 17C-1-2 and 17C-3-61 will be replaced with < and UJ qualifiers will be added in Table D-15. The max and frequency were also updated in Tables 10 and 11 of the CAC Proposal (URS 2010).

(2) Toxaphene is missing from the revised Table D-15. According to my copy of the Woodward-Clyde Remedial Investigation Report for 18 SWMUs, it was detected in one sample.

Toxaphene results were added to Table D-15 for all samples that Toxaphene analysis was requested.

7/29/2010

(3) After all potentially missing data are identified, please verify the maximum detected concentrations and the frequency detected for all analytes in Tables 10 and 11 in the latest CAC Proposal. I think there will be a lot of changes in Tables 10 and 11.

The max and frequencies were updated in Tables 10 and 11 of the CAC Proposal (URS 2010) based on data added to Table D-15.

There are data for barium, copper, nickel, vanadium and zinc for some, but not all, of the three soil borings sampled in 1984; 17A, 17B and 17C. However, Table D-15 in the Woodward-Clyde Remedial Investigation Report for 18 SWMUs has no data for these metals in these soil borings, only arsenic and mercury.

Upon further review of the analytical data summaries in Appendix A of the Radian IRP Phase II Report (Radian 1986) for samples collected from soil borings 17A, 17B and 17C. Analytical data for barium, copper, nickel and zinc were included in the analytical data summaries for samples collected from soil borings 17A and 17B. These metals were not discussed in the Radian report as requested analytes for analyses, only arsenic and mercury were discussed as requested analyses for SWMU 96. These metals were initially included in Table D-15 for completeness. The laboratory may have analyzed and reported these metals in error; therefore they were not included in the Radian report. Based on the lack of evidence that these additional metals were required for SWMU 96 and were not included or discussed in the Radian 1986 report they have been removed from Table D-15.

(1) The Woodward-Clyde Remedial Investigation Report for 18 SWMUs (October 1992) indicated that 10 samples were taken from 3 soil borings (17A, 17B and 17D) in November 1984. Only 9 samples are listed in Table D-15. I think that 17B-63 is missing. Can the results be found and included in the table?

The Radian IRP Phase II Report (Radian 1986) report was reviewed to try to locate any potential missing data. The boring logs indicate that the following samples were collected from the three soil borings: SB17A-1, SB17A-2, SB17A-3, SB17A-4, SB17B-1, SB17B-2, SB-17C-1, SB-17C-2 and SB-17C-3. Based on the boring logs, 9 samples were collected from the 3 soil borings. The boring log for SB17B indicated that there was no sample recovery because of the consolidated nature of the material in the 61- to 63-foot sample interval. The report text indicated that 10 samples including one QA duplicate sample were collected from SWMU 96. Table 4-18 of the 1986 Radian report shows 10 samples with the last sample in the table with a 17B-2a sample ID. The "a" in the sample identification was never defined. Therefore, based on the lack of evidence that the 17B-2a was an investigative sample and the "a" identifier may have represented the field duplicate, this data was not included in Table D-15. Based on Table 4-18 of the Radian report and Radian report text, the field duplicate may have been included as the 10th sample.

(2) Also reported in The Woodward-Clyde Remedial Investigation Report for 18 SWMUs, 8 borings were advanced in November and December 1986. The revised Table D-15 indicates that samples B8-0.5 through B8-50 were collected on December 10, 2009. I believe that should be December 10, 1986.

The date December 10, 2009 has been updated to December 10, 1986 for samples B8-0.5 through B8-50 in Table D-15.

(3) I think that the data and dates for the 8 soil borings could be presented a little better. For example; samples B1-05. B1-1, B1-2, B1-5 and B1-10 were collected on November 30, 1986, then B1-20, B1-30, B1-40, B1-50, B1-60, B1-70, B1-80, B1-90 and B1-100 were sampled the next day, December 1, 1986. However, the samples B1-61 and B1-62 are placed in the table below B1-100 with unknown November 1986 dates. I strongly suspect that B1-61 and B1-62 were collected on December 1 when drilling resumed in the B1 boring to depths below 10 feet bgs. Sample sets B3-61 and B3-62, B5-61 and B5-62 and B7-61 and B7-62 and B8-61 and B8-62 are similar. I strongly doubt that the 61 and 62 ft samples were collected on days other than when the 50 ft bgs samples were collected. I think that data for the 61 ft and 62 ft increments should be shown a logical depth sequence with the 10 ft increment samples (between the 60 ft and 70 ft increments), with logical assumptions on the collection dates, and include a footnote that the exact dates are assumed, but not confirmed.

Samples collected from sample borings at depths of 61 and 62 feet have been moved to after the 50-foot sample depths in Table D-15. The footnote for the associated 61- and 62-foot samples has been amended to state "*The exact date is assumed, but not confirmed.*"

(4) Can you check and see if results for B5-50 and B7-50 increments are available? They are missing, but maybe the samples weren't analyzed for some reason.

The sample results for B5-50 and B7-50 have been added to Table D-15.

(5) Results for analyses for alpha-chlordane and gamma-chlordane should be indicated in only 1 row, the 0961-0 sample collected on October 24, 1991. It is the only one analyzed for the two metabolites of chlordane. All of the other pesticide analyses were for only the parent compound, chlordane, not the two alpha and gamma metabolites.

The results for alpha-chlordane and gamma-chlordane have been included in one row in Table D-15.

These changes have also been made to Table 10 and 11 of the CAC Proposals.

### SWMU 81

Please look at Table 7 (data for SWMU 81) in the June 2010 version of the CAC Proposals for 2,4,6,10,50, et al. The total number of surface and subsurface samples is 25. In the previous version (March 2010) Table 7 indicates 22 surface and subsurface samples. I reviewed the RFI for 21 SWMUs (October 2007) and the Remedial Investigation Report for 18 SWMUs (October 1992). The explanations of redrills and replacements for samples that weren't analyzed within the holding period are confusing. However, there are data for only 22 samples in both reports. I also found some discrepancy in the frequency of detections in Table 7 combined surface and subsurface comparisons). I don't come up with the same number of detections.

Do you have data for more than 22 samples? If so, I would like a copy of the report that has the additional data.

The correct number of surface and subsurface soil samples collected at SWMU 81 is 22. These quantities were verified based on the text in Section 5 of the 1992 Woodard-Clyde RI for 18 SWMUs Report. With the redrills due to missed holding times and elevated OVA readings it is difficult to determine the correct number of samples. Based on reading through the text and looking at Appendix D tables presented in the 1992 RI for 18 SWMUs Report we have determined that the correct number is 22. Soil borings 8101, 8103, 8104, 8105, 8108, 8109 and 8110 did not have any redrills completed and 0- to 0.5- and 4- to 6-foot samples were collected from each of these borings for a total of 14 samples. Soil boring 8106 was sampled at 0-0.5 and 4-6 feet originally. The 0- to 0.5-foot sample was unaffected but the 4-6 feet sample was recollected from a redrilled boring (8114) due to missed holding time in the original boring (8106). The VOC data from the 4-6 feet sample interval from the redrill boring (8114) was reported in place of the VOC data from the original boring (8106). This brings the total to 16 samples. Based on an elevated OVA reading from the 4- to 6-foot subsurface sample collected from boring 8102, an additional soil boring (8111) was a deeper redrill of soil boring 8102. Two additional soil samples at depths of 5 and 9 feet were collected from the deeper redrilled soil boring (8111) and analyzed for VOCs. This brings the total to 19 samples, including the 0-0.5 surface soil sample from the original boring (8102). Also due to an elevated OVA reading in the 4- to 5-foot sample in boring 8107, an additional soil boring (8112) was a deeper redrill of soil boring 8107. One additional soil sample at a depth of 5 feet was collected and analyzed for VOCs. An additional redrill soil boring (8113) of soil boring 8107 was completed due to missed holding times in the original soil boring 8107. A 4-foot sample was collected and analyzed for VOCs. The samples collected from soil boring associated with 8107 are as follows: 0- to 0.5-foot sample from the original soil boring 8107, a 9-foot sample from the deeper redrilled boring 8112 due to elevated OVA readings, and a 4-foot sample from redrilled boring 8113 due to missed hold times from the original sample (8107). This bring the grand total to 22 samples. There were some discrepancies between the Section 5 text and tables in the Woodward-Clyde RI for 18 SWMUs. I have included a table summarizing the borings and sample depths for clarity.

Soil Boring:	Sample depth:
8101	0-0.5
	4-6
8102	0-0.5
	4-6
8111 (redrill elevated OVA)	4-6
	9-9.5
8103	0-0.5
	4-6
8104	0-0.5
	4-6
8105	0-0.5
	4-6
8106	0-0.5
	4-6
8114 (redrill due to missed holding time)	0-0.5
	4-6
8107	0-0.5
	4-6
8112 (redrill elevated OVA)	0-0.5
	4-6
8113 (redrill due to missed holding time)	0-0.5
	9-9.4
8108	0-0.5
	4-6
8109	0-0.5
	4-6
8110	0-0.5
	4-6

Tables 6 and 7 in the 2010 CAC Proposals were amended based on the correct number of samples.

*(See attached file: Revised Tables 6,7,10 and 11 CAC Proposal June 2010.xls)*

*(See attached file: Table D-15 revised 21JUL10.xls)*

Anthony J. Sedlacek  
Senior Chemist  
URS Corporation  
12120 Shamrock Plz. Suite 300  
Omaha, NE 68154  
Direct Line (402)952-2532  
Email: tony\_sedlacek@urscorp.com

This e-mail and any attachments contain URS Corporation confidential information that may be proprietary or privileged. If you receive this message in error or are not the intended recipient, you should not retain, distribute, disclose or use any of this information and you should destroy the e-mail and any attachments or copies.

7/29/2010

**TABLE D-15**  
**SWMU 96 DATA SET TABLE**  
**CANNON AFB, NEW MEXICO**

SITE ANALYTE UNITS	Date Collected	SWMU 96 alpha Chlordane mg/kg			SWMU 96 gamma Chlordane mg/kg			SWMU 96 Chlordane mg/kg		SWMU 96 Dieldrin mg/kg		SWMU 96 2,4-D mg/kg		
		Result	RL	Qual	Result	RL	Qual	Result	RL	Result	RL	Qual	Result	RL
0961-0	October 24, 1991							6.30E-02	J	<	UJ			
0962-10	November 9, 1993	<		U	<		U	<	U	<	U	<		U
0962-20	November 9, 1993	<		U	<		U	<	U	<	U	<		U
0962-30	November 9, 1993	<		U	<		U	<	U	<	U	<		U
0962-40	November 9, 1993	<		U	<		U	<	U	<	U	<		U
0962-50	November 9, 1993	<		U	<		U	<	U	<	U	<		U
0962-60	November 9, 1993	<		U	<		U	<	U	<	U	<		U
0962-70	November 9, 1993	<		U	<		U	<	U	<	U	<		U
0962-80	November 9, 1993	<		U	<		U	<	U	<	U	<		U
0962-90	November 9, 1993	<		U	<		U	<	U	<	U	<		U
0962-100	November 9, 1993	<		U	<		U	<	U	<	U	<		U
096K **	November 13, 1991	<		U	<		U	<	U	<	U	<		U
17A-1-2	November 27, 1984	<		U	<		U	<	U	2.00E-06		<		U
17A-2-5	November 27, 1984	<		U	<		U	<	U	<	U	2.83E-01		U
17A-3-7.5	November 27, 1984	<		U	<		U	<	U	<	U	5.90E-02		U
17A-4-62	November 27, 1984	<		U	<		U	<	U	<	U	3.41E+00		U
17B-1-4	November 28, 1984	<		U	<		U	<	U	<	U	<		U
17B-2-9	November 28, 1984	<		U	<		U	<	U	<	U	<		U
17C-1-2	January 14, 1985	<		U	<		U	<	U	<	U	<		U
17C-2-9	January 14, 1985	<		U	<		U	<	U	<	U	<		U
17C-3-61	January 14, 1985	<		U	<		U	<	U	<	U	4.06E-01		U
B1-0.5	November 30, 1986	<		U	<		U	7.00E-01		<	U	<		U
B1-1	November 30, 1986	<		U	<		U	<	U	<	U	<		U
B1-2	November 30, 1986	<		U	<		U	<	U	<	U	<		U
B1-5	November 30, 1986	<		U	<		U	<	U	<	U	<		U
B1-10	November 30, 1986	<		U	<		U	<	U	<	U	<		U
B1-20	December 1, 1986	<		U	<		U	<	U	<	U	<		U
B1-30	December 1, 1986	<		U	<		U	<	U	<	U	<		U
B1-40	December 1, 1986	<		U	<		U	<	U	<	U	<		U
B1-50	December 1, 1986	<		U	<		U	<	U	<	U	<		U
B1-60	December 1, 1986	<		U	<		U	<	U	<	U	<		U
B1-61	December 1, 1986*	<		U	<		U	<	U	<	U	<		U
B1-62	December 1, 1986*	<		U	<		U	<	U	<	U	<		U
B1-70	December 1, 1986	<		U	<		U	<	U	<	U	<		U
B1-80	December 1, 1986	<		U	<		U	<	U	<	U	<		U
B1-90	December 1, 1986	<		U	<		U	<	U	<	U	<		U
B1-100	December 1, 1986	<		U	<		U	<	U	<	U	<		U
B2-0.5	December 2, 1986	<		U	<		U	<	U	<	U	<		U
B2-1	December 2, 1986	<		U	<		U	<	U	<	U	<		U
B2-2	December 2, 1986	<		U	<		U	<	U	<	U	<		U
B2-5	December 2, 1986	<		U	<		U	<	U	<	U	<		U
B2-10	December 2, 1986	<		U	<		U	<	U	<	U	<		U
B2-20	December 2, 1986	<		U	<		U	<	U	<	U	<		U
B2-30	December 2, 1986	<		U	<		U	<	U	<	U	<		U
B2-40	December 3, 1986	<		U	<		U	<	U	<	U	<		U
B2-50	December 3, 1986	<		U	<		U	<	U	<	U	<		U
B2-60	December 3, 1986	<		U	<		U	<	U	<	U	<		U
B2-70	December 3, 1986	<		U	<		U	<	U	<	U	<		U
B2-80	December 3, 1986	<		U	<		U	<	U	<	U	<		U
B2-90	December 3, 1986	<		U	<		U	<	U	<	U	<		U
B2-100	December 3, 1986	<		U	<		U	<	U	<	U	<		U
B3-0.5	December 4, 1986	<		U	<		U	1.00E-01		<	U	<		U
B3-1	December 4, 1986	<		U	<		U	<	U	<	U	<		U
B3-2	December 4, 1986	<		U	<		U	<	U	<	U	<		U
B3-5	December 4, 1986	<		U	<		U	<	U	<	U	<		U
B3-10	December 4, 1986	<		U	<		U	<	U	<	U	<		U
B3-20	December 4, 1986	<		U	<		U	<	U	<	U	<		U
B3-30	December 4, 1986	<		U	<		U	<	U	<	U	<		U
B3-40	December 4, 1986	<		U	<		U	<	U	<	U	<		U
B3-50	December 4, 1986	<		U	<		U	<	U	<	U	<		U
B3-60	December 4, 1986	<		U	<		U	<	U	<	U	<		U
B3-61	December 5, 1986*	<		U	<		U	<	U	<	U	<		U
B3-62	December 5, 1986*	<		U	<		U	<	U	<	U	<		U
B3-70	December 5, 1986	<		U	<		U	<	U	<	U	<		U
B3-80	December 5, 1986	<		U	<		U	<	U	<	U	<		U
B3-90	December 5, 1986	<		U	<		U	<	U	<	U	<		U
B3-100	December 5, 1986	<		U	<		U	<	U	<	U	<		U

**TABLE D-15  
SWMU 96 DATA SET TABLE  
CANNON AFB, NEW MEXICO**

SITE ANALYTE UNITS	Date Collected	SWMU 96 alpha Chlordane			SWMU 96 gamma Chlordane			SWMU 96 Chlordane			SWMU 96 Dieldrin			SWMU 96 2,4-D		
		Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
B4-0.5	December 6, 1986	<		U	<		U	5.00E-01			<		U	<		U
B4-1	December 6, 1986	<		U	<		U			U	<		U	<		U
B4-2	December 6, 1986	<		U	<		U	<		U	<		U	<		U
B4-5	December 6, 1986	<		U	<		U	<		U	<		U	<		U
B4-10	December 6, 1986	<		U	<		U	<		U	<		U	<		U
B4-20	December 6, 1986	<		U	<		U	<		U	<		U	<		U
B4-30	December 6, 1986	<		U	<		U	<		U	<		U	<		U
B4-40	December 6, 1986	<		U	<		U	<		U	<		U	<		U
B4-50	December 6, 1986	<		U	<		U	<		U	<		U	<		U
B4-61	December 6, 1986*	<		U	<		U	<		U	<		U	<		U
B4-62	December 6, 1986*	<		U	<		U	<		U	<		U	<		U
B5-0.5	December 7, 1986	<		U	<		U	3.00E-01			<		U	<		U
B5-1	December 7, 1986	<		U	<		U	2.00E-01			<		U	<		U
B5-2	December 7, 1986	<		U	<		U			U	<		U	<		U
B5-5	December 7, 1986	<		U	<		U			U	<		U	<		U
B5-10	December 7, 1986	<		U	<		U			U	<		U	<		U
B5-20	December 7, 1986	<		U	<		U			U	<		U	<		U
B5-30	December 7, 1986	<		U	<		U			U	<		U	<		U
B5-40	December 7, 1986	<		U	<		U			U	<		U	<		U
B5-50	December 7, 1986	<		U	<		U			U	<		U	<		U
B5-60	December 7, 1986	<		U	<		U			U	<		U	<		U
B5-61	December 8, 1986*	<		U	<		U			U	<		U	<		U
B5-62	December 8, 1986*	<		U	<		U			U	<		U	<		U
B5-70	December 8, 1986	<		U	<		U			U	<		U	<		U
B5-80	December 8, 1986	<		U	<		U			U	<		U	<		U
B5-90	December 8, 1986	<		U	<		U			U	<		U	<		U
B5-100	December 8, 1986	<		U	<		U			U	<		U	<		U
B6-0.5	December 9, 1986	<		U	<		U	1.00E+00			<		U	<		U
B6-1	December 9, 1986	<		U	<		U			U	<		U	<		U
B6-2	December 9, 1986	<		U	<		U			U	<		U	<		U
B6-5	December 9, 1986	<		U	<		U			U	<		U	<		U
B6-10	December 9, 1986	<		U	<		U			U	<		U	<		U
B6-20	December 9, 1986	<		U	<		U			U	<		U	<		U
B6-30	December 9, 1986	<		U	<		U			U	<		U	<		U
B6-40	December 9, 1986	<		U	<		U			U	<		U	<		U
B6-50	December 9, 1986	<		U	<		U			U	<		U	<		U
B6-61	December 9, 1986*	<		U	<		U			U	<		U	<		U
B6-62	December 9, 1986*	<		U	<		U			U	<		U	<		U
B7-0.5	December 9, 1986	<		U	<		U	5.00E-01			<		U	<		U
B7-1	December 9, 1986	<		U	<		U	2.00E-01			<		U	<		U
B7-2	December 9, 1986	<		U	<		U			U	<		U	<		U
B7-5	December 9, 1986	<		U	<		U			U	<		U	<		U
B7-10	December 9, 1986	<		U	<		U			U	<		U	<		U
B7-20	December 9, 1986	<		U	<		U			U	<		U	<		U
B7-30	December 9, 1986	<		U	<		U			U	<		U	<		U
B7-40	December 9, 1986	<		U	<		U			U	<		U	<		U
B7-50	December 9, 1986	<		U	<		U			U	<		U	<		U
B7-61	December 9, 1986*	<		U	<		U			U	<		U	<		U
B7-62	December 9, 1986*	<		U	<		U			U	<		U	<		U
B8-0.5	December 10, 1986	<		U	<		U	3.00E-01			<		U	<		U
B8-1	December 10, 1986	<		U	<		U			U	<		U	<		U
B8-2	December 10, 1986	<		U	<		U			U	<		U	<		U
B8-5	December 10, 1986	<		U	<		U	2.00E-01			<		U	<		U
B8-10	December 10, 1986	<		U	<		U			U	<		U	<		U
B8-20	December 10, 1986	<		U	<		U			U	<		U	<		U
B8-30	December 10, 1986	<		U	<		U			U	<		U	<		U
B8-40	December 10, 1986	<		U	<		U			U	<		U	<		U
B8-50	December 10, 1986	<		U	<		U			U	<		U	<		U
B8-61	December 10, 1986*	<		U	<		U			U	<		U	<		U
B8-62	December 10, 1986*	<		U	<		U			U	<		U	<		U

Notes: \*The exact date is assumed, but not confirmed.  
 \*\* Results are for aqueous samples and units are in mg/L.  
 Shading indicates samples deeper than 10 feet below ground surface that were not used for screening.  
 mg/kg = Milligram per kilogram  
 Qual = Qualifier  
 RL = Reporting Limit  
 SWMU = Solid Waste Management Unit  
 U = Nondetect  
 UJ = Estimated Nondetect

**TABLE D-15**  
**SWMU 96 DATA SET TABLE**  
**CANNON AFB, NEW MEXICO**

SITE ANALYTE UNITS	Date Collected	SWMU 96 4,4-DDD mg/kg			SWMU 96 4,4-DDE mg/kg			SWMU 96 4,4-DDT mg/kg			SWMU 96 Heptachlor epoxide mg/kg			SWMU 96 Toxaphene mg/kg			SWMU 96 Arsenic mg/kg		
		Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
0961-0	October 24, 1991	<		UJ	6.60E-02		J	1.10E-01		J	1.90E-02		J						
0962-10	November 9, 1993	<		U	<		U	<		UJ	<		U					2.10E+00	
0962-20	November 9, 1993	<		U	<		U	<		UJ	<		U					2.30E+00	
0962-30	November 9, 1993	<		U	<		U	<		UJ	<		U					1.10E+00	
0962-40	November 9, 1993	<		U	<		U	<		UJ	<		U					7.10E-01	
0962-50	November 9, 1993	<		U	<		U	<		UJ	<		U					5.40E-01	
0962-60	November 9, 1993	<		U	<		U	<		UJ	<		U					4.00E-01	
0962-70	November 9, 1993	<		U	<		U	<		UJ	<		U					4.90E-01	
0962-80	November 9, 1993	<		U	<		U	<		UJ	<		U					6.70E-01	
0962-90	November 9, 1993	<		U	<		U	<		UJ	<		U					8.60E-01	
0962-100	November 9, 1993	<		U	<		U	<		UJ	<		U					8.50E-01	
096K **	November 13, 1991	<		U	<		U	<		U	<		U					4.70E-03	J
17A-1-2	November 27, 1984	<		U	<		U	<		U	<		U	2.10E-04				4.10E+00	
17A-2-5	November 27, 1984	<		U	<		U	<		U	<		U	<		U		2.30E+00	
17A-3-7.5	November 27, 1984	<		U	<		U	<		U	<		U	<		U		1.40E+00	
17A-4-62	November 27, 1984	<		U	<		U	<		U	<		U	<		U		<	U
17B-1-4	November 28, 1984	<		U	<		U	<		U	<		U	<		U		1.80E+00	
17B-2-9	November 28, 1984	<		U	<		U	<		U	<		U	<		U		5.60E+00	
17C-1-2	January 14, 1985	<		UJ	<		UJ	<		UJ	<		U	<		U		1.60E+00	
17C-2-9	January 14, 1985	<		U	<		U	<		U	<		U	<		U		1.20E+00	
17C-3-61	January 14, 1985	<		U	<		U	<		UJ	<		U	<		U		2.00E+00	
B1-0.5	November 30, 1986	3.00E-01			2.60E+00			9.00E-01			<		U	<		U		U	
B1-1	November 30, 1986	<		U	1.00E-01			<		U	<		U	<		U		U	
B1-2	November 30, 1986	<		U	<		U	<		U	<		U	<		U		U	
B1-5	November 30, 1986	<		U	<		U	<		U	<		U	<		U		U	
B1-10	November 30, 1986	<		U	<		U	<		U	<		U	<		U		U	
B1-20	December 1, 1986	<		U	<		U	<		U	<		U	<		U		U	
B1-30	December 1, 1986	<		U	<		U	<		U	<		U	<		U		U	
B1-40	December 1, 1986	<		U	<		U	<		U	<		U	<		U		U	
B1-50	December 1, 1986	<		U	<		U	<		U	<		U	<		U		U	
B1-60	December 1, 1986	<		U	<		U	<		U	<		U	<		U		U	
B1-61	December 1, 1986*	<		U	<		U	<		U	<		U	<		U		U	
B1-62	December 1, 1986*	<		U	<		U	<		U	<		U	<		U		U	
B1-70	December 1, 1986	<		U	<		U	<		U	<		U	<		U		U	
B1-80	December 1, 1986	<		U	<		U	<		U	<		U	<		U		U	
B1-90	December 1, 1986	<		U	<		U	<		U	<		U	<		U		U	
B1-100	December 1, 1986	<		U	<		U	<		U	<		U	<		U		U	
B2-0.5	December 2, 1986	<		U	<		U	<		U	<		U	<		U		U	
B2-1	December 2, 1986	<		U	<		U	<		U	<		U	<		U		U	
B2-2	December 2, 1986	<		U	<		U	<		U	<		U	<		U		U	
B2-5	December 2, 1986	<		U	<		U	<		U	<		U	<		U		U	
B2-10	December 2, 1986	<		U	<		U	<		U	<		U	<		U		U	
B2-20	December 2, 1986	<		U	<		U	<		U	<		U	<		U		U	
B2-30	December 2, 1986	<		U	<		U	<		U	<		U	<		U		U	
B2-40	December 3, 1986	<		U	<		U	<		U	<		U	<		U		U	
B2-50	December 3, 1986	<		U	<		U	<		U	<		U	<		U		U	
B2-60	December 3, 1986	<		U	<		U	<		U	<		U	<		U		U	
B2-70	December 3, 1986	<		U	<		U	<		U	<		U	<		U		U	
B2-80	December 3, 1986	<		U	<		U	<		U	<		U	<		U		U	
B2-90	December 3, 1986	<		U	<		U	<		U	<		U	<		U		U	
B2-100	December 3, 1986	<		U	<		U	<		U	<		U	<		U		U	
B3-0.5	December 4, 1986	<		U	3.00E-01			2.00E-01			<		U	<		U		U	
B3-1	December 4, 1986	<		U	<		U	<		U	<		U	<		U		U	
B3-2	December 4, 1986	<		U	<		U	<		U	<		U	<		U		U	
B3-5	December 4, 1986	<		U	<		U	<		U	<		U	<		U		U	
B3-10	December 4, 1986	<		U	<		U	<		U	<		U	<		U		U	
B3-20	December 4, 1986	<		U	<		U	<		U	<		U	<		U		U	
B3-30	December 4, 1986	<		U	<		U	<		U	<		U	<		U		U	
B3-40	December 4, 1986	<		U	<		U	<		U	<		U	<		U		U	
B3-50	December 4, 1986	<		U	<		U	<		U	<		U	<		U		U	
B3-60	December 4, 1986	<		U	<		U	<		U	<		U	<		U		U	
B3-61	December 5, 1986*	<		U	<		U	<		U	<		U	<		U		U	
B3-62	December 5, 1986*	<		U	<		U	<		U	<		U	<		U		U	
B3-70	December 5, 1986	<		U	<		U	<		U	<		U	<		U		U	
B3-80	December 5, 1986	<		U	<		U	<		U	<		U	<		U		U	
B3-90	December 5, 1986	<		U	<		U	<		U	<		U	<		U		U	
B3-100	December 5, 1986	<		U	<		U	<		U	<		U	<		U		U	

**TABLE D-15  
SWMU 96 DATA SET TABLE  
CANNON AFB, NEW MEXICO**

SITE ANALYTE UNITS	Date Collected	SWMU 96 4,4-DDD mg/kg			SWMU 96 4,4-DDE mg/kg			SWMU 96 4,4-DDT mg/kg			SWMU 96 Heptachlor epoxide mg/kg		SWMU 96 Toxaphene mg/kg		SWMU 96 Arsenic mg/kg			
		Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Result	RL	Qual	Result	RL	Qual
B4-0.5	December 6, 1986	5.00E-01			1.50E+00			2.00E+00			<	U	<	U				
B4-1	December 6, 1986	<		U	<		U	1.00E-01			<	U	<	U				
B4-2	December 6, 1986	<		U	<		U	<		U	<	U	<	U				
B4-5	December 6, 1986	<		U	<		U	<		U	<	U	<	U				
B4-10	December 6, 1986	<		U	<		U	<		U	<	U	<	U				
B4-20	December 6, 1986	<		U	<		U	<		U	<	U	<	U				
B4-30	December 6, 1986	<		U	<		U	<		U	<	U	<	U				
B4-40	December 6, 1986	<		U	<		U	<		U	<	U	<	U				
B4-50	December 6, 1986	<		U	<		U	<		U	<	U	<	U				
B4-61	December 6, 1986*	<		U	<		U	<		U	<	U	<	U				
B4-62	December 6, 1986*	<		U	<		U	<		U	<	U	<	U				
B5-0.5	December 7, 1986	<		U	1.00E-01			1.00E-01			<	U	<	U				
B5-1	December 7, 1986	<		U	<		U	<		U	<	U	<	U				
B5-2	December 7, 1986	<		U	<		U	<		U	<	U	<	U				
B5-5	December 7, 1986	<		U	<		U	<		U	<	U	<	U				
B5-10	December 7, 1986	<		U	<		U	<		U	<	U	<	U				
B5-20	December 7, 1986	<		U	<		U	<		U	<	U	<	U				
B5-30	December 7, 1986	<		U	<		U	<		U	<	U	<	U				
B5-40	December 7, 1986	<		U	<		U	<		U	<	U	<	U				
B5-50	December 7, 1986	<		U	<		U	<		U	<	U	<	U				
B5-60	December 7, 1986	<		U	<		U	<		U	<	U	<	U				
B5-61	December 8, 1986*	<		U	<		U	<		U	<	U	<	U				
B5-62	December 8, 1986*	<		U	<		U	<		U	<	U	<	U				
B5-70	December 8, 1986	<		U	<		U	<		U	<	U	<	U				
B5-80	December 8, 1986	<		U	<		U	<		U	<	U	<	U				
B5-90	December 8, 1986	<		U	<		U	<		U	<	U	<	U				
B5-100	December 8, 1986	<		U	<		U	<		U	<	U	<	U				
B6-0.5	December 9, 1986	2.00E-01			1.30E+00			8.00E-01			<	U	<	U				
B6-1	December 9, 1986	<		U	<		U	<		U	<	U	<	U				
B6-2	December 9, 1986	<		U	<		U	<		U	<	U	<	U				
B6-5	December 9, 1986	<		U	<		U	<		U	<	U	<	U				
B6-10	December 9, 1986	<		U	<		U	<		U	<	U	<	U				
B6-20	December 9, 1986	<		U	<		U	<		U	<	U	<	U				
B6-30	December 9, 1986	<		U	<		U	<		U	<	U	<	U				
B6-40	December 9, 1986	<		U	<		U	<		U	<	U	<	U				
B6-50	December 9, 1986	<		U	<		U	<		U	<	U	<	U				
B6-61	December 9, 1986*	<		U	<		U	<		U	<	U	<	U				
B6-62	December 9, 1986*	<		U	<		U	<		U	<	U	<	U				
B7-0.5	December 9, 1986	<		U	5.00E-01			7.00E-01			<	U	<	U				
B7-1	December 9, 1986	<		U	3.00E-01			2.00E-01			<	U	<	U				
B7-2	December 9, 1986	<		U	<		U	<		U	<	U	<	U				
B7-5	December 9, 1986	<		U	<		U	<		U	<	U	<	U				
B7-10	December 9, 1986	<		U	<		U	<		U	<	U	<	U				
B7-20	December 9, 1986	<		U	<		U	<		U	<	U	<	U				
B7-30	December 9, 1986	<		U	<		U	<		U	<	U	<	U				
B7-40	December 9, 1986	<		U	<		U	<		U	<	U	<	U				
B7-50	December 9, 1986	<		U	<		U	<		U	<	U	<	U				
B7-61	December 9, 1986*	<		U	<		U	<		U	<	U	<	U				
B7-62	December 9, 1986*	<		U	<		U	<		U	<	U	<	U				
B8-0.5	December 10, 1986	4.00E-01			1.20E+00			1.60E+00			<	U	<	U				
B8-1	December 10, 1986	<		U	<		U	<		U	<	U	<	U				
B8-2	December 10, 1986	<		U	<		U	<		U	<	U	<	U				
B8-5	December 10, 1986	3.00E-01			9.00E-01			1.30E+00			<	U	<	U				
B8-10	December 10, 1986	<		U	<		U	<		U	<	U	<	U				
B8-20	December 10, 1986	<		U	<		U	<		U	<	U	<	U				
B8-30	December 10, 1986	<		U	<		U	<		U	<	U	<	U				
B8-40	December 10, 1986	<		U	<		U	<		U	<	U	<	U				
B8-50	December 10, 1986	<		U	<		U	<		U	<	U	<	U				
B8-61	December 10, 1986*	<		U	<		U	<		U	<	U	<	U				
B8-62	December 10, 1986*	<		U	<		U	<		U	<	U	<	U				

Notes: \*The exact date is assumed, but not confirmed.  
 \*\* Results are for aqueous samples and units are in mg/L  
 Shading indicates samples deeper than 10 feet below ground surface that were not used for screening.  
 mg/kg = Milligram per kilogram  
 Qual = Qualifier  
 RL = Reporting Limit  
 SWMU = Solid Waste Management Unit  
 U = Nondetect  
 UJ = Estimated Nondetect



**TABLE D-15  
SWMU 96 DATA SET TABLE  
CANNON AFB, NEW MEXICO**

SITE ANALYTE UNITS	Date Collected	SWMU 96 Mercury mg/kg			SWMU 96 Barium mg/kg			SWMU 96 Copper mg/kg			SWMU 96 Nickel mg/kg			SWMU 96 Vanadium mg/kg			SWMU 96 Zinc mg/kg		
		Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
0961-0	October 24, 1991																		
0962-10	November 9, 1993	<		U	6.80E+01		J	7.2E+00			6.10E+00			1.68E+01			<		U
0962-20	November 9, 1993	<		U	8.91E+01		J	4.5E+00			8.20E+00			2.04E+01			<		U
0962-30	November 9, 1993	<		U	1.50E+01		J	3.00E+00			3.40E+00			1.31E+01			<		U
0962-40	November 9, 1993	<		U	2.90E+01		J	1.30E+00			2.00E+00			7.00E+00			<		U
0962-50	November 9, 1993	<		U	4.58E+01		J	2.00E+00			2.60E+00			9.60E+00			<		U
0962-60	November 9, 1993	<		U	1.12E+01		J	1.30E+00			1.20E+00			6.00E+00			<		U
0962-70	November 9, 1993	<		U	6.18E+01		J	1.40E+00			1.60E+00			6.60E+00			<		U
0962-80	November 9, 1993	<		U	1.78E+01		J	1.90E+00			1.70E+00			7.80E+00			<		U
0962-90	November 9, 1993	<		U	1.85E+01		J	1.80E+00			1.70E+00			7.10E+00			<		U
0962-100	November 9, 1993	<		U	3.26E+01		J	1.80E+00			2.30E+00			8.20E+00			<		U
096K **	November 13, 1991	<		U	6.60E-01			1.50E-01			2.90E-02		J	3.50E-02					4.90E-02
17A-1-2	November 27, 1984	9.00E-02																	
17A-2-5	November 27, 1984	1.00E-01																	
17A-3-7.5	November 27, 1984	1.00E-01																	
17A-4-62	November 27, 1984	4.00E-02																	
17B-1-4	November 28, 1984	8.00E-02																	
17B-2-9	November 28, 1984	2.40E-01																	
17C-1-2	January 14, 1985	7.00E-02																	
17C-2-9	January 14, 1985	8.00E-02																	
17C-3-61	January 14, 1985	1.00E-01																	
B1-0.5	November 30, 1986																		
B1-1	November 30, 1986																		
B1-2	November 30, 1986																		
B1-5	November 30, 1986																		
B1-10	November 30, 1986																		
B1-20	December 1, 1986																		
B1-30	December 1, 1986																		
B1-40	December 1, 1986																		
B1-50	December 1, 1986																		
B1-60	December 1, 1986																		
B1-61	December 1, 1986*																		
B1-62	December 1, 1986*																		
B1-70	December 1, 1986																		
B1-80	December 1, 1986																		
B1-90	December 1, 1986																		
B1-100	December 1, 1986																		
B2-0.5	December 2, 1986																		
B2-1	December 2, 1986																		
B2-2	December 2, 1986																		
B2-5	December 2, 1986																		
B2-10	December 2, 1986																		
B2-20	December 2, 1986																		
B2-30	December 2, 1986																		
B2-40	December 3, 1986																		
B2-50	December 3, 1986																		
B2-60	December 3, 1986																		
B2-70	December 3, 1986																		
B2-80	December 3, 1986																		
B2-90	December 3, 1986																		
B2-100	December 3, 1986																		
B3-0.5	December 4, 1986																		
B3-1	December 4, 1986																		
B3-2	December 4, 1986																		
B3-5	December 4, 1986																		
B3-10	December 4, 1986																		
B3-20	December 4, 1986																		
B3-30	December 4, 1986																		
B3-40	December 4, 1986																		
B3-50	December 4, 1986																		
B3-60	December 4, 1986																		
B3-61	December 5, 1986*																		
B3-62	December 5, 1986*																		
B3-70	December 5, 1986																		
B3-80	December 5, 1986																		
B3-90	December 5, 1986																		
B3-100	December 5, 1986																		

**TABLE D-15  
SWMU 96 DATA SET TABLE  
CANNON AFB, NEW MEXICO**

SITE ANALYTE UNITS	Date Collected	SWMU 96 Mercury mg/kg			SWMU 96 Barium mg/kg			SWMU 96 Copper mg/kg			SWMU 96 Nickel mg/kg			SWMU 96 Vanadium mg/kg			SWMU 96 Zinc mg/kg		
		Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
B4-0.5	December 6, 1986																		
B4-1	December 6, 1986																		
B4-2	December 6, 1986																		
B4-5	December 6, 1986																		
B4-10	December 6, 1986																		
B4-20	December 6, 1986																		
B4-30	December 6, 1986																		
B4-40	December 6, 1986																		
B4-50	December 6, 1986																		
B4-61	December 6, 1986*																		
B4-62	December 6, 1986*																		
B5-0.5	December 7, 1986																		
B5-1	December 7, 1986																		
B5-2	December 7, 1986																		
B5-5	December 7, 1986																		
B5-10	December 7, 1986																		
B5-20	December 7, 1986																		
B5-30	December 7, 1986																		
B5-40	December 7, 1986																		
B5-50	December 7, 1986																		
B5-60	December 7, 1986																		
B5-61	December 8, 1986*																		
B5-62	December 8, 1986*																		
B5-70	December 8, 1986																		
B5-80	December 8, 1986																		
B5-90	December 8, 1986																		
B5-100	December 8, 1986																		
B6-0.5	December 9, 1986																		
B6-1	December 9, 1986																		
B6-2	December 9, 1986																		
B6-5	December 9, 1986																		
B6-10	December 9, 1986																		
B6-20	December 9, 1986																		
B6-30	December 9, 1986																		
B6-40	December 9, 1986																		
B6-50	December 9, 1986																		
B6-61	December 9, 1986*																		
B6-62	December 9, 1986*																		
B7-0.5	December 9, 1986																		
B7-1	December 9, 1986																		
B7-2	December 9, 1986																		
B7-5	December 9, 1986																		
B7-10	December 9, 1986																		
B7-20	December 9, 1986																		
B7-30	December 9, 1986																		
B7-40	December 9, 1986																		
B7-50	December 9, 1986																		
B7-61	December 9, 1986*																		
B7-62	December 9, 1986*																		
B8-0.5	December 10, 1986																		
B8-1	December 10, 1986																		
B8-2	December 10, 1986																		
B8-5	December 10, 1986																		
B8-10	December 10, 1986																		
B8-20	December 10, 1986																		
B8-30	December 10, 1986																		
B8-40	December 10, 1986																		
B8-50	December 10, 1986																		
B8-61	December 10, 1986*																		
B8-62	December 10, 1986*																		

Notes: \*The exact date is assumed, but not confirmed.  
 \*\* Results are for aqueous samples and units are in mg/L  
 Shading indicates samples deeper than 10 feet below  
 ground surface that were not used for screening.  
 mg/kg = Milligram per kilogram  
 Qual = Qualifier  
 RL = Reporting Limit  
 SWMU = Solid Waste Management Unit  
 U = Nondetect  
 UJ = Estimated Nondetect