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Date: September 29, 1998
Refer to: EM/ER:98-394

Dr. Robert S. Dinwiddie
NMED-HRMB
P.O. Box 26110
Santa Fe, NM 87501

SUBJECT: SUBMITTAL OF EXISTING WATER DATA TABLES FOR 16-260 CMS (FORMER OU 1082, FU 3)

Dear Dr. Dinwiddie:

Enclosed please find our submittal of the existing water data tables for the 16-260 corrective measures study. The attached set of data tables presents the results for sampling of surface water, springs, alluvial wells, and seeps in Canon de Valle. The sample data presented in these tables were collected by the Environmental Restoration Project for the Resource Conservation and Recovery Act facility investigation (RFI) of Potential Release Site 16-021(c) (the TA-16-260 outfall) at Technical Area (TA) 16.

The environmental data collection for the TA-16-260 outfall RFI includes:

- installing and sampling 4 alluvium wells in Canon de Valle;
- performing sampling at three springs located in Canon de Valle: Burning Ground, Martin, and SWSC Springs;
- collecting surface water samples at 38 locations in Canon de Valle; and
- performing sampling at 2 seeps: Peter Seep and Fish Ladder Seep.

Both filtered and unfiltered water samples were collected and analyzed over the period ranging from 1994 through 1997.

The data tables are organized by the type of water sampled; springs, alluvial ground water and seeps, and flowing surface water; and by major analytical suites (inorganic, water quality parameters, organic, and radiochemical). Data tables included in this submittal are listed on the next page.

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Table CDV- 260-1:	Canon de Valle Spring Water Samples: Inorganic Chemical Results
Table CDV-260-2:	Canon de Valle Spring Water Samples: Water Quality Parameters
Table CDV-260-3:	Canon de Valle Spring Water Samples: Organic Chemical Results
Table CDV-260-4:	Canon de Valle Surface Water Samples: Inorganic Chemical Results
Table CDV-260-5:	Canon de Valle Surface Water Samples: Water Quality Parameters
Table CDV-260-6:	Canon de Valle Surface Water Samples: Organic Chemical Results
Table CDV-260-7:	Canon de Valle Surface Water Samples: Radiochemical Results
Table CDV-260-8:	Canon de Valle Seep and Alluvium Well Water Samples: Inorganic Chemical Results
Table CDV-260-9:	Canon de Valle Seep and Alluvium Well Water Samples: Water Quality Parameters
Table CDV-260-10:	Canon de Valle Seep and Alluvium Well Water Samples: Organic Chemical Results

Two other enclosures complimenting the data tables are also included in this submittal. Enclosure 1 summarizes the analytical methods employed for the TA-16-260 RFI. Enclosure 2 contains maps showing sampling locations. We hope you will find these data tables to be more user-friendly for you and your staff. We will continue working with your staff to ensure the formatting issues are resolved in a timely manner.

Please review the enclosed information and provide input on the content and format at your earliest convenience. If you have any questions, please call Dave McInroy at (505) 667-0819 or Joe Mose at (505) 667-5808.

Sincerely,

Brad

Julie A. Canepa, Program Manager
Environmental Restoration

Sincerely,

for Joseph A. Mose

Theodore J. Taylor, Program Manager
DOE/LAAO

JC/TT/rfr

Enclosures: (1) Summary of the Analytical Methods Employed for the TA-16-260 RFI
(2) Maps Showing Sampling Locations

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EM/ER File, MS M992

Los Alamos National Laboratory
Environmental Restoration Project

Cañon de Valle / TA-16-260 Outfall Water Data Set

September 28, 1998

TABLE CDV-260-1

Canon de Valle Spring Water Samples:

Inorganic Chemical Results

Location ID	Sample ID	Field Preparation	Collection Date	Media Code	Aluminum (UG/L)		Antimony (UG/L)		Arsenic (UG/L)		Barium (UG/L)		Beryllium (UG/L)		Cadmium (UG/L)		Calcium (UG/L)		Chromium, Total (UG/L)		Cobalt (UG/L)	
Martin Spring																						
16-2650	0316-96-3002	Unfiltered	12/20/96	WGS	413		50	U	2	U	171	J	4	U	5	U	25900		10	U	10	U
16-2650	0316-97-3000	Filtered	3/31/97	WGS	2250		20.2	U	2.3	U	160	J	0.71	U	3.4	U	22900		2.7	U	2.7	U
16-2650	0316-97-3001	Unfiltered	3/31/97	WGS	3080		20.2	U	2.3	U	161	J	0.4	U	3.4	U	22400		3.1	J	2.7	U
16-2650	0316-97-3002	Filtered	3/31/97	WGS	3580		1	U	NA		140		2	U	1	U	22300		3		2	
16-2650	0316-97-3009	Unfiltered	3/31/97	WGS	5310		1	U	NA		150		2	U	1	U	22600		6		2	U
16-2650	0316-97-3012	Filtered	6/27/97	WGS	173	J	3.4	U	2.6	U	166	J	0.97	U	0.4	U	27900		1.7	J	0.9	U
16-2650	0316-97-3013	Unfiltered	6/27/97	WGS	299		3.4	U	2.6	U	167	J	0.93	U	0.4	U	27900		2.2	J	0.9	U
16-2650	0316-97-3014	Filtered	6/27/97	WGS	NA		NA		NA		NA		NA		NA		28000		NA		NA	
16-2650	0316-97-3015	Unfiltered	6/27/97	WGS	NA		NA		NA		NA		NA		NA		28100		NA		NA	
16-2650	0316-97-3101	Filtered	9/19/97	WGS	1700		20	UJ	23		120		4	U	5	U	19000		10	U	20	U
16-2650	0316-97-3111	Unfiltered	9/19/97	WGS	4000		20	UJ	24		140		4	U	5	U	200	U	10	U	20	U
16-2650	0316-97-3185	Filtered	12/19/97	WGS	100	U	20	U	4	U	19		4	U	5	U	30000		10	U	20	U
16-2650	0316-97-3186	Unfiltered	12/19/97	WGS	200		20	U	4	U	180		4	U	5	U	30000		10	U	20	
SWSC Spring																						
16-2651	0316-96-3001	Unfiltered	12/20/96	WGS	1190		50	U	2	U	253		4	U	5	U	16700		10	U	10	U
16-2651	0316-97-3003	Filtered	3/31/97	WGS	2230		20.2	U	2.3	U	302		0.55	U	3.4	U	16200		2.7	J	3.2	J
16-2651	0316-97-3004	Unfiltered	3/31/97	WGS	3870		20.2	U	2.3	U	329		0.44	U	3.4	U	17100		4.3	J	2.7	U
16-2651	0316-97-3005	Filtered	3/31/97	WGS	3080		1	U	NA		280		2	U	1	U	15700		2		2	U
16-2651	0316-97-3010	Unfiltered	3/31/97	WGS	5900		1	U	NA		320		2	U	1	U	16000		6		2	U
16-2651	0316-97-3020	Filtered	6/27/97	WGS	641		3.4	U	2.6	U	239		1	U	0.4	U	14800		1.2	J	0.9	U
16-2651	0316-97-3021	Unfiltered	6/27/97	WGS	1080		3.4	U	2.6	U	246		1	U	0.4	U	14900		1.8	J	0.93	U
16-2651	0316-97-3022	Filtered	6/27/97	WGS	NA		NA		NA		NA		NA		NA		14800		NA		NA	
16-2651	0316-97-3023	Unfiltered	6/27/97	WGS	NA		NA		NA		NA		NA		NA		14700		NA		NA	
16-2651	0316-97-3108	Unfiltered	9/22/97	WGS	2400		20	UJ	27		290		4	U	5	U	16000		10	U	20	U
16-2651	0316-97-3109	Filtered	9/22/97	WGS	2000		20	UJ	26		280		4	U	5	U	17000		10	U	20	U
16-2651	0316-97-3187	Filtered	12/19/97	WGS	100	U	20	U	4	U	290		4	U	5	U	17000		10	U	20	U
16-2651	0316-97-3188	Unfiltered	12/19/97	WGS	2400		20	U	4	U	410		4	U	5	U	19000		10	U	20	U
Burning Ground Spring																						
16-2652	0316-96-3000	Unfiltered	12/20/96	WGS	1020		50	U	2	U	263		4	U	5	U	16800		10	U	10	U
16-2652	0316-97-3006	Filtered	3/31/97	WGS	2540		20.2	U	2.3	U	237		0.4	U	3.4	U	16000		2.7	U	2.7	U
16-2652	0316-97-3007	Unfiltered	3/31/97	WGS	3170		20.2	U	2.3	U	244		0.4	U	3.4	U	15600		2.7	U	2.7	U
16-2652	0316-97-3008	Filtered	3/31/97	WGS	3290		1	U	NA		230		2	U	1	U	15700		2		2	U
16-2652	0316-97-3011	Unfiltered	3/31/97	WGS	5410		1	U	NA		230		2	U	1	U	15300		6		2	U
16-2652	0316-97-3016	Filtered	6/27/97	WGS	952		3.4	U	2.6	U	198	J	0.89	U	0.4	U	14700		1.6	J	0.9	U
16-2652	0316-97-3017	Unfiltered	6/27/97	WGS	1220		3.4	U	2.6	U	200		0.94	U	0.4	U	14900		1.6	J	0.9	U
16-2652	0316-97-3018	Filtered	6/27/97	WGS	NA		NA		NA		NA		NA		NA		14800		NA		NA	
16-2652	0316-97-3019	Unfiltered	6/27/97	WGS	NA		NA		NA		NA		NA		NA		14900		NA		NA	
16-2652	0316-97-3104	Unfiltered	9/19/97	WGS	1600		20	UJ	17		220		4	U	5	U	16000		10	U	20	U
16-2652	0316-97-3105	Filtered	9/19/97	WGS	1800		20	UJ	30		220		4	U	5	U	16000		10	U	20	U
16-2652	0316-97-3189	Filtered	12/19/97	WGS	100	U	20	U	4	U	270		4	U	5	U	17000		10	U	20	U
16-2652	0316-97-3190	Unfiltered	12/19/97	WGS	600		20	U	4	U	280		4	U	5	U	17000		10	U	20	U

NOTES:

All spring water samples are grab samples collected according to LANL-ER-SOP-6.13, Surface Water Sampling.
Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

WGS = Ground water, spring
NA = Not analyzed

Explanation of data qualifier flags:

U = The compound was analyzed for but was not detected. The associated numerical value is the detection limit.
UJ = The compound was analyzed for but was not detected. The associated numerical value is the estimated detection limit.
J = The reported value is an estimated quantity.

TABLE CDV-260-1

Canon de Valle Spring Water Samples:

Inorganic Chemical Results

Location ID	Sample ID	Field Preparation	Collection Date	Media Code	Copper (UG/L)		Iron (UG/L)		Lead (UG/L)		Magnesium (UG/L)		Manganese (UG/L)		Mercury (UG/L)		Nickel (UG/L)		Potassium (UG/L)		Selenium (UG/L)	
Martin Spring																						
16-2650	0316-96-3002	Unfiltered	12/20/96	WGS	5	U	199		1.5	U	6070		2.5	U	0.1	U	15		2690	J	2.5	U
16-2650	0316-97-3000	Filtered	3/31/97	WGS	7.5	U	1390		1.5	U	5810		7.7	J	0.1	U	8.7	U	2360	J	3.6	U
16-2650	0316-97-3001	Unfiltered	3/31/97	WGS	7.5	U	1930		1.5	U	5780		10.3	J	0.1	U	8.7	U	3000	J	3.7	J
16-2650	0316-97-3002	Filtered	3/31/97	WGS	5	U	1510		2	U	5690		7		0.05	U	2	U	3230		1	U
16-2650	0316-97-3009	Unfiltered	3/31/97	WGS	8		2300		2	U	5900		10		0.5	U	2	U	3220		10	U
16-2650	0316-97-3012	Filtered	6/27/97	WGS	0.9	U	172		1.6	U	6370		1.3	J	0.02	U	1.6	U	2810	J	2.7	U
16-2650	0316-97-3013	Unfiltered	6/27/97	WGS	0.9	U	253		1.6	U	6380		1.7	J	0.02	U	1.7	U	2860	J	2.7	U
16-2650	0316-97-3014	Filtered	6/27/97	WGS	NA		NA		NA		NA		NA		NA		NA		2840		NA	
16-2650	0316-97-3015	Unfiltered	6/27/97	WGS	NA		NA		NA		NA		NA		NA		NA		2910		NA	
16-2650	0316-97-3101	Filtered	9/19/97	WGS	20	U	880		2	J	4200		10	U	0.2	U	40	U	2000		4	UJ
16-2650	0316-97-3111	Unfiltered	9/19/97	WGS	20	U	2500		3	J	4500		10		0.2	U	40	U	2000		4	UJ
16-2650	0316-97-3185	Filtered	12/19/97	WGS	20	U	40	U	1		6900	U	10	U	0.2	U	40	U	3000		6	UJ
16-2650	0316-97-3186	Unfiltered	12/19/97	WGS	20	U	10	U	2		6800		10	U	0.2	U	40	U	3000		5	UJ
SWSC Spring																						
16-2651	0316-96-3001	Unfiltered	12/20/96	WGS	5	U	508		2.8	J	4970	J	2.5	U	0.1	U	15	U	2990	J	2.5	U
16-2651	0316-97-3003	Filtered	3/31/97	WGS	7.5	U	1640		1.5	U	5040		8.8	J	0.1	U	8.7	U	3550	J	3.6	U
16-2651	0316-97-3004	Unfiltered	3/31/97	WGS	11.5	J	2430		1.5	U	5400		20.3		0.1	U	8.7	U	2770	J	3.6	U
16-2651	0316-97-3005	Filtered	3/31/97	WGS	5	U	1160		2	U	4810		6		0.05	U	2		3410		1	U
16-2651	0316-97-3010	Unfiltered	3/31/97	WGS	8		2460		3		5030		31		0.05	U	4		3580		1	U
16-2651	0316-97-3020	Filtered	6/27/97	WGS	0.9	U	359		1.6	U	4380	J	3.4	J	0.02	U	2.6	U	2920	J	2.7	U
16-2651	0316-97-3021	Unfiltered	6/27/97	WGS	0.9	U	639		1.6	U	4400	J	8.2	J	0.02	U	3	U	2960	J	2.7	U
16-2651	0316-97-3022	Filtered	6/27/97	WGS	NA		NA		NA		NA		NA		NA		NA		2970		NA	
16-2651	0316-97-3023	Unfiltered	6/27/97	WGS	NA		NA		NA		NA		NA		NA		NA		2950		NA	
16-2651	0316-97-3108	Unfiltered	9/22/97	WGS	20	U	1300		2	J	4400		20		0.2	U	40	U	3000		4	UJ
16-2651	0316-97-3109	Filtered	9/22/97	WGS	20	U	990		1	J	4400		10	U	0.2	U	40	U	2000		4	UJ
16-2651	0316-97-3187	Filtered	12/19/97	WGS	20	U	60	U	4		5000	U	70		0.2	U	40	U	3000		4	UJ
16-2651	0316-97-3188	Unfiltered	12/19/97	WGS	20	U	1800	U	2		5300		120		0.2	U	40	U	4000		4	UJ
Burning Ground Spring																						
16-2652	0316-96-3000	Unfiltered	12/20/96	WGS	5	U	425		1.5	U	4900	J	2.5	U	0.1	U	15	U	2910	J	2.5	U
16-2652	0316-97-3006	Filtered	3/31/97	WGS	7.5	U	1390		1.5	U	4920	J	8.1	J	0.1	U	8.7	U	2680	J	3.6	U
16-2652	0316-97-3007	Unfiltered	3/31/97	WGS	7.5	U	1840		1.5	U	4890	J	10	J	0.1	U	8.7	U	3080	J	3.6	U
16-2652	0316-97-3008	Filtered	3/31/97	WGS	5	U	1440		2	U	4900		8		0.05	U	4		3380		1	U
16-2652	0316-97-3011	Unfiltered	3/31/97	WGS	8		2240		3		4760		12		0.05	U	4		3380		1	U
16-2652	0316-97-3016	Filtered	6/27/97	WGS	0.9	U	484		1.6	U	4310	J	2.9	J	0.02	U	3.2	U	2930	J	2.7	U
16-2652	0316-97-3017	Unfiltered	6/27/97	WGS	0.9	U	637		1.6	U	4350	J	6.5	J	0.02	U	3	U	2970	J	2.7	U
16-2652	0316-97-3018	Filtered	6/27/97	WGS	NA		NA		NA		NA		NA		NA		NA		2970		NA	
16-2652	0316-97-3019	Unfiltered	6/27/97	WGS	NA		NA		NA		NA		NA		NA		NA		2960		NA	
16-2652	0316-97-3104	Unfiltered	9/19/97	WGS	20	U	810		2	J	4200		10	U	0.2	U	40	U	3000		4	UJ
16-2652	0316-97-3105	Filtered	9/19/97	WGS	20	U	720		1	J	4200		10	U	0.2	U	40	U	3000		4	UJ
16-2652	0316-97-3189	Filtered	12/19/97	WGS	20	U	120	U	3		4800		10	U	0.2	U	40	U	3000		4	UJ
16-2652	0316-97-3190	Unfiltered	12/19/97	WGS	20	U	430	U	1		4900	U	10	U	0.2	U	40	U	3000		4	UJ

NOTES:

All spring water samples are grab samples collected according to LANL-ER-SOP-6.13, Surface Water Sampling.
Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

WGS = Ground water, spring
NA = Not analyzed

Explanation of data qualifier flags:

U = The compound was analyzed for but was not detected. The associated numerical value is the detection limit.
UJ = The compound was analyzed for but was not detected. The associated numerical value is the estimated detection limit.
J = The reported value is an estimated quantity.

TABLE CDV-260-1

Canon de Valle Spring Water Samples:

Inorganic Chemical Results

Location ID	Sample ID	Field Preparation	Collection Date	Media Code	Silver (UG/L)		Sodium (UG/L)		Thallium (UG/L)		Vanadium (UG/L)		Zinc (UG/L)	
Martin Spring														
16-2650	0316-96-3002	Unfiltered	12/20/96	WGS	5	U	32500		2	U	10	U	5	U
16-2650	0316-97-3000	Filtered	3/31/97	WGS	3.6	U	27300		4.1	J	7.2	J	12.2	U
16-2650	0316-97-3001	Unfiltered	3/31/97	WGS	3.6	U	26600		2.6	U	7.8	J	22.8	U
16-2650	0316-97-3002	Filtered	3/31/97	WGS	1	U	26600		2	U	6		10	U
16-2650	0316-97-3009	Unfiltered	3/31/97	WGS	1	U	26500		2	U	7		10	U
16-2650	0316-97-3012	Filtered	6/27/97	WGS	1.2	U	32500		8.5	U	4.4	J	0.9	U
16-2650	0316-97-3013	Unfiltered	6/27/97	WGS	1.2	U	32400		5.5	U	5.1	J	0.9	U
16-2650	0316-97-3014	Filtered	6/27/97	WGS	NA		32500		NA		NA		NA	
16-2650	0316-97-3015	Unfiltered	6/27/97	WGS	NA		32700		NA		NA		NA	
16-2650	0316-97-3101	Filtered	9/19/97	WGS	10	U	16000		5	U	10	U	90	J
16-2650	0316-97-3111	Unfiltered	9/19/97	WGS	10	U	16000	U	5	U	10	U	60	J
16-2650	0316-97-3185	Filtered	12/19/97	WGS	10	U	33000		5	U	10	U	20	U
16-2650	0316-97-3186	Unfiltered	12/19/97	WGS	10	U	33000		5	U	10	U	20	U
SWSC Spring														
16-2651	0316-96-3001	Unfiltered	12/20/96	WGS	5	U	20700		2	U	10	U	5	U
16-2651	0316-97-3003	Filtered	3/31/97	WGS	3.6	U	21000		2.6	U	5.2	J	13.1	U
16-2651	0316-97-3004	Unfiltered	3/31/97	WGS	3.6	U	21700		2.6	U	6.5	J	18.9	U
16-2651	0316-97-3005	Filtered	3/31/97	WGS	1	U	21100		2	U	5		10	U
16-2651	0316-97-3010	Unfiltered	3/31/97	WGS	1		20300		2	U	7		10	
16-2651	0316-97-3020	Filtered	6/27/97	WGS	1.2	U	15400		2.2	U	3.2	J	0.9	U
16-2651	0316-97-3021	Unfiltered	6/27/97	WGS	1.2	U	15400		2.2	U	4	J	0.9	U
16-2651	0316-97-3022	Filtered	6/27/97	WGS	NA		15400		NA		NA		NA	
16-2651	0316-97-3023	Unfiltered	6/27/97	WGS	NA		15500		NA		NA		NA	
16-2651	0316-97-3108	Unfiltered	9/22/97	WGS	10	U	13000		5	U	10	U	60	J
16-2651	0316-97-3109	Filtered	9/22/97	WGS	10	U	13000		5	U	10	U	130	J
16-2651	0316-97-3187	Filtered	12/19/97	WGS	10	U	18000		5	U	10	U	20	U
16-2651	0316-97-3188	Unfiltered	12/19/97	WGS	10	U	19000		5	U	10	U	20	U
Burning Ground Spring														
16-2652	0316-96-3000	Unfiltered	12/20/96	WGS	5	U	19900		2	U	10	U	5	U
16-2652	0316-97-3006	Filtered	3/31/97	WGS	3.6	U	21000		2.6	U	6.4	J	14.9	U
16-2652	0316-97-3007	Unfiltered	3/31/97	WGS	3.6	U	20700		2.6	U	4.4	J	12.6	U
16-2652	0316-97-3008	Filtered	3/31/97	WGS	1	U	21000		2	U	5		10	U
16-2652	0316-97-3011	Unfiltered	3/31/97	WGS	1		19800		2	U	7		10	U
16-2652	0316-97-3016	Filtered	6/27/97	WGS	1.2	U	15000		4.6	U	3.6	J	0.9	U
16-2652	0316-97-3017	Unfiltered	6/27/97	WGS	1.2	U	14900		2.2	U	3.8	J	0.9	U
16-2652	0316-97-3018	Filtered	6/27/97	WGS	NA		15000		NA		NA		NA	
16-2652	0316-97-3019	Unfiltered	6/27/97	WGS	NA		15100		NA		NA		NA	
16-2652	0316-97-3104	Unfiltered	9/19/97	WGS	10	U	13000		5	U	10	U	80	J
16-2652	0316-97-3105	Filtered	9/19/97	WGS	10	U	13000		5	U	10	U	90	J
16-2652	0316-97-3189	Filtered	12/19/97	WGS	10	U	18000		5	U	10	U	20	U
16-2652	0316-97-3190	Unfiltered	12/19/97	WGS	10	U	17000		5	U	10	U	20	U

NOTES:

All spring water samples are grab samples collected according to LANL-ER-SOP-6.13, Surface Water Sampling.
Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

WGS = Ground water, spring
NA = Not analyzed

Explanation of data qualifier flags:

U = The compound was analyzed for but was not detected. The associated numerical value is the detection limit.
UJ = The compound was analyzed for but was not detected. The associated numerical value is the estimated detection limit.
J = The reported value is an estimated quantity.

TABLE CDV-260-2

Canon de Valle Spring Water Samples:

Water Quality Parameters

Location ID	Sample ID	Field Preparation	Collection Date	Media Code	Alkalinity, Total (Methyl Orange [pH=4.5] end point) (UG/L)	Bicarbonate (UG/L)	Boron (UG/L)	Bromide (UG/L)		Carbonate (UG/L)		Cesium (UG/L)		Chlorate (UG/L)		Chloride (UG/L)
Martin Spring																
16-2650	0316-96-3002	Unfiltered	12/20/96	WGS	NA	NA	NA	NA		NA		NA		NA		NA
16-2650	0316-97-3002	Filtered	3/31/97	WGS	NA	99200	1340	110		0	U	2	U	20	U	19700
16-2650	0316-97-3009	Unfiltered	3/31/97	WGS	NA	99800	1320	110		0	U	2	U	20	U	19600
16-2650	0316-97-3014	Filtered	6/27/97	WGS	95000	NA	1800	200	U	NA		NA		NA		20000
16-2650	0316-97-3015	Unfiltered	6/27/97	WGS	87000	NA	1800	200	U	NA		NA		NA		21000
16-2650	0316-97-3101	Filtered	9/19/97	WGS	73000	NA	NA	2000	U	NA		NA		NA		13000
16-2650	0316-97-3111	Unfiltered	9/19/97	WGS	66000	NA	1500	NA		NA		NA		NA		11000
16-2650	0316-97-3185	Filtered	12/19/97	WGS	NA	NA	NA	2000	U	NA		NA		NA		22000
16-2650	0316-97-3186	Unfiltered	12/19/97	WGS	NA	NA	NA	2000	U	NA		NA		NA		19000
SWSC Spring																
16-2651	0316-96-3001	Unfiltered	12/20/96	WGS	NA	NA	NA	NA		NA		NA		NA		NA
16-2651	0316-97-3005	Filtered	3/31/97	WGS	NA	79200	40	40		0	U	2	U	20	U	18000
16-2651	0316-97-3010	Unfiltered	3/31/97	WGS	NA	80200	40	70		0	U	2	U	20	U	17900
16-2651	0316-97-3022	Filtered	6/27/97	WGS	55000	NA	35.9	200	U	NA		NA		NA		13000
16-2651	0316-97-3023	Unfiltered	6/27/97	WGS	69000	NA	50.7	200	U	NA		NA		NA		13000
16-2651	0316-97-3108	Unfiltered	9/22/97	WGS	57000	NA	NA	2000	U	NA		NA		NA		18000
16-2651	0316-97-3109	Filtered	9/22/97	WGS	61000	NA	NA	2000	U	NA		NA		NA		18000
16-2651	0316-97-3187	Filtered	12/19/97	WGS	NA	NA	NA	2000	U	NA		NA		NA		13000
16-2651	0316-97-3188	Unfiltered	12/19/97	WGS	NA	NA	NA	8000	U	NA		NA		NA		13000
Burning Ground Spring																
16-2652	0316-96-3000	Unfiltered	12/20/96	WGS	NA	NA	NA	NA		NA		NA		NA		NA
16-2652	0316-97-3008	Filtered	3/31/97	WGS	NA	78100	20	70		0	U	2	U	20	U	17800
16-2652	0316-97-3011	Unfiltered	3/31/97	WGS	NA	78300	20	60		0	U	2		20	U	17200
16-2652	0316-97-3018	Filtered	6/27/97	WGS	66000	NA	47.9	200	U	NA		NA		NA		13000
16-2652	0316-97-3019	Unfiltered	6/27/97	WGS	67000	NA	31	200	U	NA		NA		NA		13000
16-2652	0316-97-3104	Unfiltered	9/19/97	WGS	61000	NA	NA	2000	U	NA		NA		NA		18000
16-2652	0316-97-3105	Filtered	9/19/97	WGS	64000	NA	NA	2000	U	NA		NA		NA		19000
16-2652	0316-97-3189	Filtered	12/19/97	WGS	NA	NA	NA	8000	U	NA		NA		NA		13000
16-2652	0316-97-3190	Unfiltered	12/19/97	WGS	NA	NA	NA	4000	U	NA		NA		NA		13000

NOTES:

All spring water samples are grab samples collected according to LANL-ER-SOP-6.13, Surface Water Sampling.
Water samples were filtered through a 0.45 micron filter using a using a peristaltic pump.

WGS = Ground water, spring
NA = Not analyzed
UMHOS = Micromhos
SU = Standard unit
NTU = Nephelometric Turbidity Unit

Explanation of data qualifier flags:

U = The compound was analyzed for but was not detected. The associated numerical value is the detection limit.

TABLE CDV-260-2

Canon de Valle Spring Water Samples:

Water Quality Parameters

Location ID	Sample ID	Field Preparation	Collection Date	Media Code	Nitrogen, Nitrate (Expressed as NO3) (UG/L)	Nitrogen Nitrite (Expressed as NO2) (UG/L)		pH (SU)	Phosphorus, Orthophosphate (Expressed as PO4) (UG/L)	Rubidium (UG/L)	Silicon (UG/L)	Silicon Dioxide (UG/L)	Solids, Total Dissolved (UG/L)
Martin Spring													
16-2650	0316-96-3002	Unfiltered	12/20/96	WGS	NA	NA		NA	NA	NA	NA	NA	NA
16-2650	0316-97-3002	Filtered	3/31/97	WGS	10700	20	U	7.14	130	5	18200	38900	249468
16-2650	0316-97-3009	Unfiltered	3/31/97	WGS	9830	20	U	7.09	120	100	28700	61400	274410
16-2650	0316-97-3014	Filtered	6/27/97	WGS	NA	NA		7.2	NA	NA	23400	NA	220000
16-2650	0316-97-3015	Unfiltered	6/27/97	WGS	NA	NA		8	NA	NA	23300	NA	240000
16-2650	0316-97-3101	Filtered	9/19/97	WGS	NA	NA		7.37	NA	NA	19000	NA	200000
16-2650	0316-97-3111	Unfiltered	9/19/97	WGS	NA	NA		7.52	NA	NA	NA	NA	230000
16-2650	0316-97-3185	Filtered	12/19/97	WGS	NA	NA		NA	NA	NA	NA	NA	NA
16-2650	0316-97-3186	Unfiltered	12/19/97	WGS	NA	NA		NA	NA	NA	NA	NA	NA
SWSC Spring													
16-2651	0316-96-3001	Unfiltered	12/20/96	WGS	NA	NA		NA	NA	NA	NA	NA	NA
16-2651	0316-97-3005	Filtered	3/31/97	WGS	3830	20	U	7.44	170	7	25500	54600	215229
16-2651	0316-97-3010	Unfiltered	3/31/97	WGS	NA	3340		7.37	140	14	29400	62900	227980
16-2651	0316-97-3022	Filtered	6/27/97	WGS	NA	NA		7.7	NA	NA	20700	NA	150000
16-2651	0316-97-3023	Unfiltered	6/27/97	WGS	NA	NA		7.6	NA	NA	21300	NA	160000
16-2651	0316-97-3108	Unfiltered	9/22/97	WGS	NA	NA		7.38	NA	NA	21000	NA	170000
16-2651	0316-97-3109	Filtered	9/22/97	WGS	NA	NA		7.39	NA	NA	20000	NA	160000
16-2651	0316-97-3187	Filtered	12/19/97	WGS	NA	NA		NA	NA	NA	NA	NA	NA
16-2651	0316-97-3188	Unfiltered	12/19/97	WGS	NA	NA		NA	NA	NA	NA	NA	NA
Burning Ground Spring													
16-2652	0316-96-3000	Unfiltered	12/20/96	WGS	NA	NA		NA	NA	NA	NA	NA	NA
16-2652	0316-97-3008	Filtered	3/31/97	WGS	3540	20	U	7.34	230	7	28700	61400	220878
16-2652	0316-97-3011	Unfiltered	3/31/97	WGS	3140	20	U	7.25	150	13	27700	59300	218820
16-2652	0316-97-3018	Filtered	6/27/97	WGS	NA	NA		7.3	NA	NA	21300	NA	150000
16-2652	0316-97-3019	Unfiltered	6/27/97	WGS	NA	NA		7.3	NA	NA	20900	NA	150000
16-2652	0316-97-3104	Unfiltered	9/19/97	WGS	NA	NA		7.19	NA	NA	20000	NA	150000
16-2652	0316-97-3105	Filtered	9/19/97	WGS	NA	NA		7.21	NA	NA	19000	NA	140000
16-2652	0316-97-3189	Filtered	12/19/97	WGS	NA	NA		NA	NA	NA	NA	NA	NA
16-2652	0316-97-3190	Unfiltered	12/19/97	WGS	NA	NA		NA	NA	NA	NA	NA	NA

NOTES:

All spring water samples are grab samples collected according to LANL-ER-SOP-6.13, Surface Water Sampling.
Water samples were filtered through a 0.45 micron filter using a using a peristaltic pump.

WGS = Ground water, spring
NA = Not analyzed
UMHOS = Micromhos
SU = Standard unit
NTU = Nephelometric Turbidity Unit

Explanation of data qualifier flags:

U = The compound was analyzed for but was not detected. The associated numerical value is the detection limit.

TABLE CDV-260-2

Canon de Valle Spring Water Samples:

Water Quality Parameters

Location ID	Sample ID	Field Preparation	Collection Date	Media Code	Solids Total Suspended (UG/L)		Strontium (UG/L)	Sulfate (UG/L)	Thiosulfate (UG/L)		Tin (UG/L)		Titanium (UG/L)	Turbidity (NTU)
Martin Spring														
16-2650	0316-96-3002	Unfiltered	12/20/96	WGS	NA		NA	NA	NA		NA		NA	NA
16-2650	0316-97-3002	Filtered	3/31/97	WGS	NA		100	15400	10	U	5	U	67	NA
16-2650	0316-97-3009	Unfiltered	3/31/97	WGS	NA		110	15300	10	U	5	U	91	NA
16-2650	0316-97-3014	Filtered	6/27/97	WGS	40000	U	NA	19000	NA		NA		NA	3.8
16-2650	0316-97-3015	Unfiltered	6/27/97	WGS	40000	U	NA	20000	NA		NA		NA	1
16-2650	0316-97-3101	Filtered	9/19/97	WGS	5000	U	NA	17000	NA		NA		NA	22
16-2650	0316-97-3111	Unfiltered	9/19/97	WGS	5000		NA	17000	NA		NA		NA	42
16-2650	0316-97-3185	Filtered	12/19/97	WGS	NA		NA	21000	NA		NA		NA	NA
16-2650	0316-97-3186	Unfiltered	12/19/97	WGS	NA		NA	29000	NA		NA		NA	NA
SWSC Spring														
16-2651	0316-96-3001	Unfiltered	12/20/96	WGS	NA		NA	NA	NA		NA		NA	NA
16-2651	0316-97-3005	Filtered	3/31/97	WGS	NA		100	9410	10	U	5	U	57	NA
16-2651	0316-97-3010	Unfiltered	3/31/97	WGS	NA		100	9240	10	U	5	U	110	NA
16-2651	0316-97-3022	Filtered	6/27/97	WGS	40000	U	NA	8000	NA		NA		NA	7.4
16-2651	0316-97-3023	Unfiltered	6/27/97	WGS	40000	U	NA	8000	NA		NA		NA	8.2
16-2651	0316-97-3108	Unfiltered	9/22/97	WGS	7000	U	NA	15000	NA		NA		NA	23
16-2651	0316-97-3109	Filtered	9/22/97	WGS	5000	U	NA	13000	NA		NA		NA	16
16-2651	0316-97-3187	Filtered	12/19/97	WGS	NA		NA	2000	NA		NA		NA	NA
16-2651	0316-97-3188	Unfiltered	12/19/97	WGS	NA		NA	12000	NA		NA		NA	NA
Burning Ground Spring														
16-2652	0316-96-3000	Unfiltered	12/20/96	WGS	NA		NA	NA	NA		NA		NA	NA
16-2652	0316-97-3008	Filtered	3/31/97	WGS	NA		100	9300	10	U	5	U	74	NA
16-2652	0316-97-3011	Unfiltered	3/31/97	WGS	NA		100	9070	10	U	5	U	98	NA
16-2652	0316-97-3018	Filtered	6/27/97	WGS	62000		NA	7000	NA		NA		NA	10.5
16-2652	0316-97-3019	Unfiltered	6/27/97	WGS	40000	U	NA	8000	NA		NA		NA	7.3
16-2652	0316-97-3104	Unfiltered	9/19/97	WGS	5000	U	NA	13000	NA		NA		NA	17
16-2652	0316-97-3105	Filtered	9/19/97	WGS	5000	U	NA	12000	NA		NA		NA	12
16-2652	0316-97-3189	Filtered	12/19/97	WGS	NA		NA	9000	NA		NA		NA	NA
16-2652	0316-97-3190	Unfiltered	12/19/97	WGS	NA		NA	5000	NA		NA		NA	NA

NOTES:

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SU = Standard unit
NTU = Nephelometric Turbidity Unit

Explanation of data qualifier flags:

U = The compound was analyzed for but was not detected. The associated numerical value is the detection limit.

TABLE CDV-260-3

Canon de Valle Spring Water Samples:

Organic Chemical Results

Location ID	Sample ID	Field Preparation	Collection Date	Media Code	Acetone (UG/L)		Amino-2,6-dinitrotoluene[4-] (UG/L)		Amino-4,6-dinitrotoluene[2-] (UG/L)		Bromomethane (UG/L)		Chloromethane (UG/L)		Dichloroethane [1,2-] (UG/L)		Di-n-butylphthalate (UG/L)	
Martin Spring																		
16-2650	0316-96-3002	Unfiltered	12/20/96	WGS	18	J	3.03		2.32		10	U	16		5		NA	
16-2650	0316-97-3000	Filtered	3/31/97	WGS	NA		0.25	U	0.25	U	NA		NA		NA		10	U
16-2650	0316-97-3001	Unfiltered	3/31/97	WGS	39		0.25	U	0.25	U	10	U	12		5	U	10	U
16-2650	0316-97-3012	Filtered	6/27/97	WGS	NA		2.6		1.98		NA		NA		NA		10	U
16-2650	0316-97-3013	Unfiltered	6/27/97	WGS	NA		2.83		2.11		NA		NA		NA		10	U
16-2650	0316-97-3101	Filtered	9/19/97	WGS	NA		1.3	U	1.3	U	NA		NA		NA		10	U
16-2650	0316-97-3111	Unfiltered	9/19/97	WGS	34		1.3	U	1.3	U	10	U	10	U	5	U	10	U
16-2650	0316-97-3185	Filtered	12/19/97	WGS	20	U	3.9	U	NA		10	U	10	U	5	U	10	U
16-2650	0316-97-3186	Unfiltered	12/19/97	WGS	55		5.2		NA		10	U	11		7.7	U	10	U
SWSC Spring																		
16-2651	0316-96-3001	Unfiltered	12/20/96	WGS	12	J	0.939		0.589		10	U	12		3	J	10	U
16-2651	0316-97-3003	Filtered	3/31/97	WGS	NA		0.25	U	0.25	U	NA		NA		NA		10	U
16-2651	0316-97-3004	Unfiltered	3/31/97	WGS	20	U	0.25	U	0.25	U	10	U	10	U	5	U	10	U
16-2651	0316-97-3020	Filtered	6/27/97	WGS	NA		0.663		0.423		NA		NA		NA		10	U
16-2651	0316-97-3021	Unfiltered	6/27/97	WGS	23	U	0.725		0.451		10	U	5	J	4	J	10	U
16-2651	0316-97-3108	Unfiltered	9/22/97	WGS	36		2.5	U	2.5	U	10	U	10	U	5	U	10	U
16-2651	0316-97-3109	Filtered	9/22/97	WGS	NA		2.5	U	2.5	U	NA		NA		NA		10	U
16-2651	0316-97-3187	Filtered	12/19/97	WGS	26	U	3.9	U	NA		10	U	10	U	5	U	10	U
16-2651	0316-97-3188	Unfiltered	12/19/97	WGS	23	U	3.9	U	NA		10	U	10	U	5	U	10	U
Burning Ground Spring																		
16-2652	0316-96-3000	Unfiltered	12/20/96	WGS	18	J	0.317		0.236		4	J	30		6		1	J
16-2652	0316-97-3006	Filtered	3/31/97	WGS	NA		0.25	U	0.25	U	NA		NA		NA		10	U
16-2652	0316-97-3007	Unfiltered	3/31/97	WGS	26		0.25	U	0.25	U	10	U	10	U	5	U	10	U
16-2652	0316-97-3016	Filtered	6/27/97	WGS	NA		0.23		0.168		NA		NA		NA		10	R
16-2652	0316-97-3017	Unfiltered	6/27/97	WGS	NA		0.234		0.165		NA		NA		NA		10	U
16-2652	0316-97-3104	Unfiltered	9/19/97	WGS	29		0.25	U	0.25	U	10	U	10	U	5	U	10	U
16-2652	0316-97-3105	Filtered	9/19/97	WGS	NA		0.25	U	0.25	U	NA		NA		NA		10	U
16-2652	0316-97-3189	Filtered	12/19/97	WGS	25	U	3.9	U	NA		10	U	10	U	5	U	10	U
16-2652	0316-97-3190	Unfiltered	12/19/97	WGS	20	U	3.9	U	NA		10	U	10	U	5	U	10	U

NOTES:

All spring water samples are grab samples collected according to LANL-ER-SOP-6.13, Surface Water Sampling.
Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

WGS = Ground water, spring
NA = Not analyzed

Explanation of data qualifier flags:

U = The compound was analyzed for but was not detected. The associated numerical value is the quantitation limit.
UJ = The compound was analyzed for but was not detected. The associated numerical value is the estimated quantitation limit.
J = The reported value is an estimated quantity.
J- = The analyte was positively identified, and the result is likely biased low.
R = The data are rejected due to serious deficiencies in the ability to analyze the sample and meet quality criteria.

TABLE CDV-260-3

Canon de Valle Spring Water Samples:

Organic Chemical Results

Location ID	Sample ID	Field Preparation	Collection Date	Media Code	Dinitrobenzene [1,3-] (UG/L)		Dinitrotoluene [2,4-] (UG/L)		HMX (UG/L)		Nitrotoluene[3-] (UG/L)		RDX (UG/L)		Tetrachloroethene (UG/L)		Tetryl (UG/L)	
Martin Spring																		
16-2650	0316-96-3002	Unfiltered	12/20/96	WGS	0.048	U	0.13		17.7		0.105	U	157		5	U	0.683	
16-2650	0316-97-3000	Filtered	3/31/97	WGS	0.25	U	0.25	U	1	U	1	U	5.5		NA		1	U
16-2650	0316-97-3001	Unfiltered	3/31/97	WGS	0.25	U	0.25	U	1	U	1	U	4.23		5	U	1	U
16-2650	0316-97-3012	Filtered	6/27/97	WGS	0.048	U	0.103		16.6		0.104	U	132		NA		0.055	U
16-2650	0316-97-3013	Unfiltered	6/27/97	WGS	0.048	U	0.126		16.9		0.104	U	135		NA		0.055	U
16-2650	0316-97-3101	Filtered	9/19/97	WGS	1.3	U	1.3	U	5	U	5	U	45		NA		5	U
16-2650	0316-97-3111	Unfiltered	9/19/97	WGS	1.3	U	1.3	UJ	7.2		5	U	51		5	U	5	U
16-2650	0316-97-3185	Filtered	12/19/97	WGS	2	U	2	U	17	U	7.8	U	76		5	U	5.8	U
16-2650	0316-97-3186	Unfiltered	12/19/97	WGS	2	U	2	U	9.4	J	7.8	U	120		5	U	5.8	U
SWSC Spring																		
16-2651	0316-96-3001	Unfiltered	12/20/96	WGS	0.074		0.058		2.57		0.105	U	49.9		5	U	0.072	
16-2651	0316-97-3003	Filtered	3/31/97	WGS	0.25	U	0.25	U	1	U	1	U	1.97		NA		1	U
16-2651	0316-97-3004	Unfiltered	3/31/97	WGS	0.25	U	0.25	U	1	U	1	U	1.5		5	U	1	U
16-2651	0316-97-3020	Filtered	6/27/97	WGS	0.048	U	0.042		2.26		0.111		31.7		NA		0.055	U
16-2651	0316-97-3021	Unfiltered	6/27/97	WGS	0.048	U	0.051		2.23		0.104	U	32		2.8	J	0.055	U
16-2651	0316-97-3108	Unfiltered	9/22/97	WGS	2.5	U	2.5	U	10	U	10	U	86		5	U	10	U
16-2651	0316-97-3109	Filtered	9/22/97	WGS	2.5	U	2.5	U	10	U	10	U	84		NA		10	U
16-2651	0316-97-3187	Filtered	12/19/97	WGS	2	U	2	U	17	U	7.8	U	40		5	U	5.8	U
16-2651	0316-97-3188	Unfiltered	12/19/97	WGS	2	U	2	U	17	U	7.8	U	39		5	U	5.8	U
Burning Ground Spring																		
16-2652	0316-96-3000	Unfiltered	12/20/96	WGS	0.048	U	0.046		1.8		0.105	U	23.4		5	U	0.055	U
16-2652	0316-97-3006	Filtered	3/31/97	WGS	0.25	U	0.25	U	1	U	1	U	1		NA		1	U
16-2652	0316-97-3007	Unfiltered	3/31/97	WGS	0.25	U	0.25	U	1	U	1	U	1.2		5	U	1	U
16-2652	0316-97-3016	Filtered	6/27/97	WGS	0.048	U	0.039		1.56		0.104	U	15		NA		0.055	U
16-2652	0316-97-3017	Unfiltered	6/27/97	WGS	0.048	U	0.036	U	1.68		0.104	U	14.1		NA		0.055	U
16-2652	0316-97-3104	Unfiltered	9/19/97	WGS	0.25	U	0.25	U	1.9	J-	1	U	13	J-	5	U	1	U
16-2652	0316-97-3105	Filtered	9/19/97	WGS	0.25	U	0.25	U	1.3		1	U	12		NA		1	U
16-2652	0316-97-3189	Filtered	12/19/97	WGS	2	U	2	U	17	U	7.8	U	21		5	U	5.8	U
16-2652	0316-97-3190	Unfiltered	12/19/97	WGS	2	U	2	U	17	U	7.8	U	20		5	U	5.8	U

NOTES:

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Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

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TABLE CDV-260-3

Canon de Valle Spring Water Samples:

Organic Chemical Results

Location ID	Sample ID	Field Preparation	Collection Date	Media Code	Trichloroethene (UG/L)		Trinitrobenzene [1,3,5-] (UG/L)		Trinitrotoluene [2,4,6-] (UG/L)	
Martin Spring										
16-2650	0316-96-3002	Unfiltered	12/20/96	WGS	5	U	1.44		0.075	
16-2650	0316-97-3000	Filtered	3/31/97	WGS	NA		0.26	U	0.25	U
16-2650	0316-97-3001	Unfiltered	3/31/97	WGS	5	U	0.26	U	0.25	U
16-2650	0316-97-3012	Filtered	6/27/97	WGS	NA		0.535		0.05	U
16-2650	0316-97-3013	Unfiltered	6/27/97	WGS	NA		0.995		0.051	
16-2650	0316-97-3101	Filtered	9/19/97	WGS	NA		1.3	U	1.3	U
16-2650	0316-97-3111	Unfiltered	9/19/97	WGS	5	U	1.3	UJ	1.3	UJ
16-2650	0316-97-3185	Filtered	12/19/97	WGS	5	U	2	U	2	U
16-2650	0316-97-3186	Unfiltered	12/19/97	WGS	5	U	2	U	2	U
SWSC Spring										
16-2651	0316-96-3001	Unfiltered	12/20/96	WGS	5	U	0.111		0.052	U
16-2651	0316-97-3003	Filtered	3/31/97	WGS	NA		0.26	U	0.25	U
16-2651	0316-97-3004	Unfiltered	3/31/97	WGS	5	U	0.26	U	0.25	U
16-2651	0316-97-3020	Filtered	6/27/97	WGS	NA		0.14		0.05	U
16-2651	0316-97-3021	Unfiltered	6/27/97	WGS	2	J	0.068		0.05	U
16-2651	0316-97-3108	Unfiltered	9/22/97	WGS	5	U	2.6	U	2.5	U
16-2651	0316-97-3109	Filtered	9/22/97	WGS	NA		2.6	U	2.5	U
16-2651	0316-97-3187	Filtered	12/19/97	WGS	5	U	2	U	2	U
16-2651	0316-97-3188	Unfiltered	12/19/97	WGS	5	U	2	U	2	U
Burning Ground Spring										
16-2652	0316-96-3000	Unfiltered	12/20/96	WGS	2	J	0.65		0.052	U
16-2652	0316-97-3006	Filtered	3/31/97	WGS	NA		0.26	U	0.25	U
16-2652	0316-97-3007	Unfiltered	3/31/97	WGS	5	U	0.26	U	0.25	U
16-2652	0316-97-3016	Filtered	6/27/97	WGS	NA		0.484		0.05	U
16-2652	0316-97-3017	Unfiltered	6/27/97	WGS	NA		0.337		0.05	U
16-2652	0316-97-3104	Unfiltered	9/19/97	WGS	5	U	0.26	U	0.25	U
16-2652	0316-97-3105	Filtered	9/19/97	WGS	NA		0.26	U	0.25	U
16-2652	0316-97-3189	Filtered	12/19/97	WGS	5	U	2	U	2	U
16-2652	0316-97-3190	Unfiltered	12/19/97	WGS	5	U	2	U	2	U

NOTES:

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Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

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TABLE CDV-260-4

Canon de Valle Surface Water Samples:

Inorganic Chemical Results

Location ID	Distance from TA 16-260 Outfall (ft)	Sample ID	Field Preparation	Collection Date	Media Code	Aluminum (UG/L)		Antimony (UG/L)		Arsenic (UG/L)		Barium (UG/L)	Beryllium (UG/L)		Cadmium (UG/L)	
16-1001	1300	AAB1597	Filtered	4/18/94	WSF	120		4		2	U	2900	1	U	3	U
16-1001	1300	AAB1603	Unfiltered	4/18/94	WSF	310		2	U	2	U	3000	1	U	3	U
16-1002	1400	AAB1598	Filtered	4/18/94	WSF	150		3		2	U	3000	1	U	3	U
16-1002	1400	AAB1604	Unfiltered	4/18/94	WSF	560		2	U	2	U	3000	1	U	3	U
16-1003	1500	AAB1599	Filtered	4/18/94	WSF	151		20	U	15	U	2890	1	U	2	U
16-1003	1500	AAB1605	Unfiltered	4/18/94	WSF	740		2	U	2	U	3100	1	U	3	U
16-1004	1950	AAB1600	Filtered	4/18/94	WSF	100	U	2		2	U	3300	1	U	3	U
16-1004	1950	AAB1606	Unfiltered	4/18/94	WSF	370		2	U	2	U	3400	1	U	3	U
16-1005	2125	AAB1601	Filtered	4/18/94	WSF	51.6		20	U	15	U	3060	1	U	2	U
16-1005	2125	AAB1607	Unfiltered	4/18/94	WSF	180		2	U	2	U	3400	1	U	3	U
16-1006	2350	AAB1602	Filtered	4/18/94	WSF	281		20	U	15	U	3200	1	U	2	U
16-1006	2350	AAB1608	Unfiltered	4/18/94	WSF	100	U	3		2	U	3300	1	U	3	U
16-2670	5025	0316-97-0450	Filtered	12/15/97	WSF	100	U	20	U	10	U	4200	4	U	5	U
16-2670	5025	0316-97-0450	Filtered	12/15/97	WSF	100	U	20	U	10	U	4400	4	U	5	U
16-2670	5025	0316-97-0460	Unfiltered	12/15/97	WSF	100	U	20	U	10	U	4300	4	U	5	U
16-2670	5025	0316-97-0460	Unfiltered	12/15/97	WSF	100		20	U	10	U	4400	4	U	5	U
16-2671	5625	0316-97-0451	Filtered	12/15/97	WSF	100	U	20	U	10	U	4700	4	U	5	U
16-2671	5625	0316-97-0451	Filtered	12/15/97	WSF	100	U	20	U	10	U	4070	4	U	5	U
16-2671	5625	0316-97-0461	Unfiltered	12/15/97	WSF	200		20	U	10	U	4800	4	U	5	U
16-2671	5625	0316-97-0461	Unfiltered	12/15/97	WSF	200		20	U	10	U	4700	4	U	0.5	U
16-2675	8500	0316-97-0455	Filtered	1/6/98	WSF	1500	U	20	R	4	U	2500	4		5	U
16-2675	8500	0316-97-0465	Unfiltered	1/6/98	WSF	11000	U	20	R	5		3600	4	U	5	U
16-2688	2975	0316-97-3032	Unfiltered	8/13/97	WSF	664		2	U	3.1	U	4170	0.3	U	0.4	U
16-2689	7400	0316-97-3110	Unfiltered	9/22/97	WSF	2300		20	UJ	24		3100	4	U	5	U
16-2690	300	0316-97-3191	Filtered	12/19/97	WSF	100	U	20	U	4	U	630	4	U	5	U
16-2690	300	0316-97-3192	Unfiltered	12/19/97	WSF	300		20	U	4	U	630	4	U	5	U
16-2747	1530	0816-96-0045	Filtered	6/28/96	WSF	700		20.2	U	5.6	J	3620	0.11	U	3.6	J
16-2747	1530	0816-96-0047	Unfiltered	6/28/96	WSF	3250		20.2	U	3.1	U	4050	0.12	J	5.2	J

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TABLE CDV-260-4

Canon de Valle Surface Water Samples:

Inorganic Chemical Results

Location ID	Distance from TA 16-260 Outfall (ft)	Sample ID	Field Preparation	Collection Date	Media Code	Aluminum (UG/L)		Antimony (UG/L)		Arsenic (UG/L)		Barium (UG/L)		Beryllium (UG/L)		Cadmium (UG/L)	
16-2748	2200	0816-96-0046	Filtered	6/28/96	WSF	391		20.2	U	3.1	U	4210		0.11	U	3.1	U
16-2748	2200	0816-96-0048	Unfiltered	6/28/96	WSF	2920		20.2	U	3.1	U	4410		0.14	J	3.9	J
16-2757	280	0816-96-0091	Unfiltered	9/6/96	WSF	4110	J+	3	U	6.2	U	6520		0.1	U	0.3	U
16-2758	500	0816-96-0092	Unfiltered	9/6/96	WSF	320	J+	3	U	2	U	4190		0.1	U	0.3	U
16-2759	650	0816-96-0093	Unfiltered	9/6/96	WSF	295	J+	3	U	2.8	U	4200		0.1	U	0.3	U
16-2760	800	0816-96-0094	Unfiltered	9/6/96	WSF	773	J+	3	U	2.3	U	1540		0.1	U	0.3	U
16-2761	1000	0816-96-0095	Unfiltered	9/6/96	WSF	746	J+	3	U	1.6	U	1590		0.1	U	0.3	U
16-2762	1175	0816-96-0096	Unfiltered	9/6/96	WSF	978	J+	3	U	1.6	U	1700		0.1	U	0.3	U
16-2763	1350	0816-96-0097	Unfiltered	9/6/96	WSF	574	J+	3	U	2.7	U	1570		0.1	U	0.3	U
16-2764	1500	0816-96-0098	Unfiltered	9/6/96	WSF	660	J+	3	U	1.6	U	1640		0.1	U	0.3	U
16-2765	1675	0816-96-0099	Unfiltered	9/6/96	WSF	579	J+	3	U	2.2	U	1700		0.1	U	0.3	U
16-2766	1900	0816-96-0100	Unfiltered	9/6/96	WSF	524	J+	3	U	2.1	U	2320		0.1	U	0.3	U
16-2767	2100	0816-96-0101	Unfiltered	9/6/96	WSF	1190	J+	3	U	2.8	U	2900		0.1	U	0.3	U
16-2768	2300	0816-96-0102	Unfiltered	9/6/96	WSF	255	J+	3	U	2.1	U	2650		0.1	U	0.3	U
16-2768	2300	0816-96-0103	Unfiltered	9/6/96	WSF	382	J+	3	U	4.1	U	2660		0.1	U	0.3	U
16-2769	2550	0816-96-0104	Unfiltered	9/6/96	WSF	328	J+	3	U	1.8	U	2680		0.1	U	0.3	U
16-2770	2675	0816-96-0105	Unfiltered	9/6/96	WSF	382	J+	3	U	3.5	U	2730		0.1	U	0.3	U
16-2771	2900	0816-96-0106	Unfiltered	9/6/96	WSF	254	J+	3	U	1.9	U	2700		0.1	U	0.3	U
16-2772	3100	0816-96-0107	Unfiltered	9/6/96	WSF	475	J+	3	U	3.5	U	2930		0.1	U	0.3	U
16-2773	3275	0816-96-0108	Unfiltered	9/6/96	WSF	534	J+	3	U	1.8	U	6490		0.1	U	0.3	U
16-2774	3400	0816-96-0109	Unfiltered	9/6/96	WSF	216	J+	3	U	1.6	U	6320		0.1	U	0.3	U
16-2775	3600	0816-96-0110	Unfiltered	9/6/96	WSF	197	J+	3	U	1.6	U	6390		0.1	U	0.3	U
16-2776	3800	0816-96-0111	Unfiltered	9/6/96	WSF	154	U	3	U	2.4	U	6400		0.1	U	0.3	U
16-2777	3975	0816-96-0112	Unfiltered	9/6/96	WSF	132	U	3	U	2.1	U	6460		0.1	U	0.3	U
16-2778	4175	0816-96-0113	Unfiltered	9/6/96	WSF	133	U	3	U	3.5	U	6350		0.1	U	0.3	U
36-10029	Water Canyon	0236-97-0015	Unfiltered	3/27/97	WSF	7340		50	U	2	U	99	J	4	U	5	U
36-10030	12600	0236-97-0016	Unfiltered	3/27/97	WSF	13600		50	U	2	U	829		4	U	5	U

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TABLE CDV-260-4

Canon de Valle Surface Water Samples:

Inorganic Chemical Results

Location ID	Distance from TA 16-260 Outfall (ft)	Sample ID	Field Preparation	Collection Date	Media Code	Calcium (UG/L)		Chromium Total (UG/L)		Cobalt (UG/L)		Copper (UG/L)		Cyanide Total (UG/L)		Iron (UG/L)		Lead (UG/L)	
16-1001	1300	AAB1597	Filtered	4/18/94	WSF	18000		70	U	4	U	20	U	NA		300	U	2	U
16-1001	1300	AAB1603	Unfiltered	4/18/94	WSF	19000		70	U	4	U	20	U	NA		300	U	2	U
16-1002	1400	AAB1598	Filtered	4/18/94	WSF	18000		70	U	4	U	20	U	NA		300	U	2	U
16-1002	1400	AAB1604	Unfiltered	4/18/94	WSF	19000		70	U	4	U	20	U	NA		340		2	U
16-1003	1500	AAB1599	Filtered	4/18/94	WSF	15800		4.3		3	U	4.6		NA		99.4		16	U
16-1003	1500	AAB1605	Unfiltered	4/18/94	WSF	19000		70	U	4	U	20	U	NA		350		2	U
16-1004	1950	AAB1600	Filtered	4/18/94	WSF	18000		70	U	4	U	20	U	NA		300	U	2	U
16-1004	1950	AAB1606	Unfiltered	4/18/94	WSF	18000		70	U	4	U	20	U	NA		310		2	U
16-1005	2125	AAB1601	Filtered	4/18/94	WSF	15300		3.8		3	U	3.2		NA		124		16	U
16-1005	2125	AAB1607	Unfiltered	4/18/94	WSF	18000		70	U	4	U	20	U	NA		300	U	2	U
16-1006	2350	AAB1602	Filtered	4/18/94	WSF	15400		4.2		3	U	14.8		NA		257		16	U
16-1006	2350	AAB1608	Unfiltered	4/18/94	WSF	17000		70	U	4	U	20	U	NA		300	U	2	U
16-2670	5025	0316-97-0450	Filtered	12/15/97	WSF	17000		10	U	20	U	20	U	NA		40	U	3	
16-2670	5025	0316-97-0450	Filtered	12/15/97	WSF	17000		10	U	20	U	20	U	10	U	40	U	4	
16-2670	5025	0316-97-0460	Unfiltered	12/15/97	WSF	17000		10	U	20	U	20	U	NA		60		6	
16-2670	5025	0316-97-0460	Unfiltered	12/15/97	WSF	18000		10	U	20	U	20	U	10	U	100		3	
16-2671	5625	0316-97-0451	Filtered	12/15/97	WSF	15000		10	U	20	U	20	U	NA		40	U	5	
16-2671	5625	0316-97-0451	Filtered	12/15/97	WSF	15000		10	U	20	U	20	U	10	U	40	U	4	
16-2671	5625	0316-97-0461	Unfiltered	12/15/97	WSF	15000		10	U	20	U	20	U	NA		160		1	U
16-2671	5625	0316-97-0461	Unfiltered	12/15/97	WSF	15000		10	U	20	U	20	U	10	U	160		1	
16-2675	8500	0316-97-0455	Filtered	1/6/98	WSF	11000		10	U	20	U	20	U	10	U	4200	U	2	J
16-2675	8500	0316-97-0465	Unfiltered	1/6/98	WSF	13000		10		20	U	20		10	U	12000	U	23	J
16-2688	2975	0316-97-3032	Unfiltered	8/13/97	WSF	17300		2.1	J	5.3	J	6	J	NA		524		2	U
16-2689	7400	0316-97-3110	Unfiltered	9/22/97	WSF	14000	U	10	U	20	U	20	U	NA		1300		2	J
16-2690	300	0316-97-3191	Filtered	12/19/97	WSF	18000		10	U	20	U	20	U	10	U	100	U	2	
16-2690	300	0316-97-3192	Unfiltered	12/19/97	WSF	18000		10	U	20	U	20	U	10	U	360	U	2	
16-2747	1530	0816-96-0045	Filtered	6/28/96	WSF	16100		3.9	U	10.4	U	17.8	U	NA		424		3.7	
16-2747	1530	0816-96-0047	Unfiltered	6/28/96	WSF	17300		6.1	U	10.4	U	7.6	U	12.3	U	1720		4.5	

NOTES:

All surface water samples are grab samples collected according to LANL-ER-SOP-6.13, Surface Water Sampling.
Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

WSF = Surface water, flowing
NA = Not analyzed

Explanation of data qualifier flags:

U = The compound was analyzed for but was not detected. The associated numerical value is the detection limit.
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J = The reported value is an estimated quantity.
J- = The analyte was positively identified, and the result is likely biased low.
J+ = The analyte was positively identified, and the result is likely bised high.
R = The data are rejected due to serious deficiencies in the ability to analyze the sample and meet quality criteria.

TABLE CDV-260-4

Canon de Valle Surface Water Samples:

Inorganic Chemical Results

Location ID	Distance from TA 16-260 Outfall (ft)	Sample ID	Field Preparation	Collection Date	Media Code	Calcium (UG/L)	Chromium Total (UG/L)		Cobalt (UG/L)		Copper (UG/L)		Cyanide Total (UG/L)		Iron (UG/L)		Lead (UG/L)	
16-2748	2200	0816-96-0046	Filtered	6/28/96	WSF	16600	3.9	U	10.4	U	8.5	U	NA		289		1.9	U
16-2748	2200	0816-96-0048	Unfiltered	6/28/96	WSF	16800	7.1	U	10.4	U	7.5	U	9.3	UJ	1830		2.2	J
16-2757	280	0816-96-0091	Unfiltered	9/6/96	WSF	19600	2.4	U	2.4	U	8.1	J	NA		4470		16	
16-2758	500	0816-96-0092	Unfiltered	9/6/96	WSF	17500	0.5	U	0.4	U	0.5	U	NA		219		1.2	U
16-2759	650	0816-96-0093	Unfiltered	9/6/96	WSF	17400	0.5	U	1	U	0.5	U	5	U	204		1.2	U
16-2760	800	0816-96-0094	Unfiltered	9/6/96	WSF	16900	1.5	U	0.9	U	1.4	U	4	U	475		1.2	U
16-2761	1000	0816-96-0095	Unfiltered	9/6/96	WSF	16900	0.5	U	0.66	U	0.5	U	3.8	U	445		1.2	U
16-2762	1175	0816-96-0096	Unfiltered	9/6/96	WSF	17400	0.94	U	1.2	U	1.3	U	3.8	U	646		1.2	U
16-2763	1350	0816-96-0097	Unfiltered	9/6/96	WSF	16900	1.1	U	1	U	1.7	U	4	U	376		1.2	U
16-2764	1500	0816-96-0098	Unfiltered	9/6/96	WSF	17000	0.5	U	0.78	U	0.5	U	6	U	396		1.2	U
16-2765	1675	0816-96-0099	Unfiltered	9/6/96	WSF	17100	0.65	U	0.78	U	0.5	U	4	U	384		1.2	U
16-2766	1900	0816-96-0100	Unfiltered	9/6/96	WSF	17400	0.5	U	0.85	U	0.5	U	5	U	517		1.2	U
16-2767	2100	0816-96-0101	Unfiltered	9/6/96	WSF	18000	0.69	U	2.9	U	0.82	U	4	U	2160		1.2	U
16-2768	2300	0816-96-0102	Unfiltered	9/6/96	WSF	17700	1.6	U	0.95	U	0.5	U	6	U	313		1.2	U
16-2768	2300	0816-96-0103	Unfiltered	9/6/96	WSF	17700	1	U	1.4	U	0.61	U	8	U	412		1.2	U
16-2769	2550	0816-96-0104	Unfiltered	9/6/96	WSF	17600	0.5	U	0.54	U	0.52	U	14	U	317		1.2	U
16-2770	2675	0816-96-0105	Unfiltered	9/6/96	WSF	17700	0.53	U	1.5	U	0.66	U	4	U	402		1.2	U
16-2771	2900	0816-96-0106	Unfiltered	9/6/96	WSF	17500	0.5	U	0.6	U	0.5	U	4	U	254		1.2	U
16-2772	3100	0816-96-0107	Unfiltered	9/6/96	WSF	1770	0.51	U	0.83	U	1.3	U	5	U	478		1.2	U
16-2773	3275	0816-96-0108	Unfiltered	9/6/96	WSF	17900	0.5	U	1.1	U	1.5	U	5	U	531		1.2	U
16-2774	3400	0816-96-0109	Unfiltered	9/6/96	WSF	17100	0.5	U	0.71	U	0.58	U	4	U	170		1.2	U
16-2775	3600	0816-96-0110	Unfiltered	9/6/96	WSF	17200	0.5	U	0.81	U	2	U	4	U	162		1.2	U
16-2776	3800	0816-96-0111	Unfiltered	9/6/96	WSF	17100	0.55	U	0.72	U	0.62	U	3.8	U	128	U	1.2	U
16-2777	3975	0816-96-0112	Unfiltered	9/6/96	WSF	17200	0.5	U	0.43	U	0.5	U	5	U	120		1.2	U
16-2778	4175	0816-96-0113	Unfiltered	9/6/96	WSF	17100	0.5	U	1.1	U	1.1	U	3.8	U	120	U	1.2	U
36-10029	Water Canyon	0236-97-0015	Unfiltered	3/27/97	WSF	9760	10	U	10	U	5	U	NA		3620		1.5	U
36-10030	12600	0236-97-0016	Unfiltered	3/27/97	WSF	8230	10	U	10	U	5	U	NA		7340		2.5	J

NOTES:

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Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

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Explanation of data qualifier flags:

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R = The data are rejected due to serious deficiencies in the ability to analyze the sample and meet quality criteria.

TABLE CDV-260-4

Canon de Valle Surface Water Samples:

Inorganic Chemical Results

Location ID	Distance from TA 16-260 Outfall (ft)	Sample ID	Field Preparation	Collection Date	Media Code	Magnesium (UG/L)		Manganese (UG/L)		Mercury (UG/L)		Nickel (UG/L)		Nitrogen Nitrate + Nitrite (Expressed as N) (UG/L)		Nitrogen Nitrate (Expressed as NO3) (UG/L)		Nitrogen Nitrite (Expressed as NO2) (UG/L)	
16-1001	1300	AAB1597	Filtered	4/18/94	WSF	5300		200	U	0.2	U	10	U	NA		NA		NA	
16-1001	1300	AAB1603	Unfiltered	4/18/94	WSF	5600		200	U	0.2	U	10	U	NA		NA		NA	
16-1002	1400	AAB1598	Filtered	4/18/94	WSF	5400		200	U	0.2	U	10	U	NA		NA		NA	
16-1002	1400	AAB1604	Unfiltered	4/18/94	WSF	5500		200	U	0.2	U	10	U	NA		NA		NA	
16-1003	1500	AAB1599	Filtered	4/18/94	WSF	4870	U	8.3		0.8	R	4	U	NA		0.05	U	NA	
16-1003	1500	AAB1605	Unfiltered	4/18/94	WSF	5500		200	U	0.2	U	10	U	NA		NA		NA	
16-1004	1950	AAB1600	Filtered	4/18/94	WSF	5100		200	U	0.2	U	10	U	NA		NA		NA	
16-1004	1950	AAB1606	Unfiltered	4/18/94	WSF	5300		200	U	0.2	U	10	U	NA		NA		NA	
16-1005	2125	AAB1601	Filtered	4/18/94	WSF	4710		65.1		0.2	R	4	U	NA		0.05	U	NA	
16-1005	2125	AAB1607	Unfiltered	4/18/94	WSF	5200		200	U	0.2	U	10	U	NA		NA		NA	
16-1006	2350	AAB1602	Filtered	4/18/94	WSF	4770		33.3		6.5	R	4	U	NA		0.05	U	NA	
16-1006	2350	AAB1608	Unfiltered	4/18/94	WSF	5100		200	U	0.2	U	10	U	NA		NA		NA	
16-2670	5025	0316-97-0450	Filtered	12/15/97	WSF	4700	U	10	U	0.2	U	40	U	NA		710		710	
16-2670	5025	0316-97-0450	Filtered	12/15/97	WSF	4900	U	10	U	0.2	U	40	U	NA		NA		NA	
16-2670	5025	0316-97-0460	Unfiltered	12/15/97	WSF	4800	U	10	U	0.2	U	40	U	NA		810		810	
16-2670	5025	0316-97-0460	Unfiltered	12/15/97	WSF	4900	U	10	U	0.2	U	500	U	NA		NA		NA	
16-2671	5625	0316-97-0451	Filtered	12/15/97	WSF	4300	U	10	U	0.2	U	40	U	NA		50	U	50	U
16-2671	5625	0316-97-0451	Filtered	12/15/97	WSF	4300	U	10	U	0.2	U	40	U	NA		NA		NA	
16-2671	5625	0316-97-0461	Unfiltered	12/15/97	WSF	4300	U	10	U	0.2	U	40	U	NA		50	U	50	U
16-2671	5625	0316-97-0461	Unfiltered	12/15/97	WSF	4200	U	10	U	0.2	U	40	U	NA		NA		NA	
16-2675	8500	0316-97-0455	Filtered	1/6/98	WSF	2900	U	1800	J	0.2	U	40		50	U	NA		NA	
16-2675	8500	0316-97-0465	Unfiltered	1/6/98	WSF	4400	U	2200	J	0.2	U	40	U	50	U	NA		NA	
16-2688	2975	0316-97-3032	Unfiltered	8/13/97	WSF	5010		8.2	J	0.1	U	3.9	J	NA		NA		NA	
16-2689	7400	0316-97-3110	Unfiltered	9/22/97	WSF	3800		10	U	0.2	U	40	U	NA		NA		NA	
16-2690	300	0316-97-3191	Filtered	12/19/97	WSF	5000	U	20		0.2	U	40	U	90		NA		NA	
16-2690	300	0316-97-3192	Unfiltered	12/19/97	WSF	4900	U	30		0.2	U	40	U	90		NA		NA	
16-2747	1530	0816-96-0045	Filtered	6/28/96	WSF	4820	J	13.3	J	0.2	U	49.6	U	NA		NA		NA	
16-2747	1530	0816-96-0047	Unfiltered	6/28/96	WSF	5200	J	15.9	J	0.2	U	8.8	U	NA		NA		NA	

NOTES:

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Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

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TABLE CDV-260-4

Canon de Valle Surface Water Samples:

Inorganic Chemical Results

Location ID	Distance from TA 16-260 Outfall (ft)	Sample ID	Field Preparation	Collection Date	Media Code	Magnesium (UG/L)		Manganese (UG/L)		Mercury (UG/L)		Nickel (UG/L)		Nitrogen Nitrate + Nitrite (Expressed as N) (UG/L)		Nitrogen Nitrate (Expressed as NO3) (UG/L)	Nitrogen Nitrite (Expressed as NO2) (UG/L)
16-2748	2200	0816-96-0046	Filtered	6/28/96	WSF	4750	J	49.8		0.2	U	18.2	U	NA		NA	NA
16-2748	2200	0816-96-0048	Unfiltered	6/28/96	WSF	5000	J	70.7		0.2	U	7.2	U	NA		NA	NA
16-2757	280	0816-96-0091	Unfiltered	9/6/96	WSF	5890		359		0.03	J	8.6	J+	1000		NA	NA
16-2758	500	0816-96-0092	Unfiltered	9/6/96	WSF	5050		4.2	U	0.02	U	1.7	J	1100		NA	NA
16-2759	650	0816-96-0093	Unfiltered	9/6/96	WSF	5010		3.2	U	0.02	U	1.5	J	1100		NA	NA
16-2760	800	0816-96-0094	Unfiltered	9/6/96	WSF	5040		4.9	U	0.02	U	2.8	J	900		NA	NA
16-2761	1000	0816-96-0095	Unfiltered	9/6/96	WSF	5030		8.5	J	0.02	U	2.9	J	500		NA	NA
16-2762	1175	0816-96-0096	Unfiltered	9/6/96	WSF	5140		47.5		0.02	U	4.5	J	600		NA	NA
16-2763	1350	0816-96-0097	Unfiltered	9/6/96	WSF	5020		3.4	U	0.02	U	4.3	J	500		NA	NA
16-2764	1500	0816-96-0098	Unfiltered	9/6/96	WSF	5060		7	J	0.02	U	3.1	J	500	U	NA	NA
16-2765	1675	0816-96-0099	Unfiltered	9/6/96	WSF	5110		10.8	J	0.02	U	3.1	J	500	U	NA	NA
16-2766	1900	0816-96-0100	Unfiltered	9/6/96	WSF	5180		115		0.02	U	2.2	J	500		NA	NA
16-2767	2100	0816-96-0101	Unfiltered	9/6/96	WSF	5360		1630		0.02	U	4.6	J	500	U	NA	NA
16-2768	2300	0816-96-0102	Unfiltered	9/6/96	WSF	5220		30.9		0.02	U	2.8	J	500	U	NA	NA
16-2768	2300	0816-96-0103	Unfiltered	9/6/96	WSF	5230		34.2		0.02	U	3	J	500	U	NA	NA
16-2769	2550	0816-96-0104	Unfiltered	9/6/96	WSF	5200		16.4		0.02	U	2.6	J	500	U	NA	NA
16-2770	2675	0816-96-0105	Unfiltered	9/6/96	WSF	5260		26.5		0.02	U	2.5	J	500	U	NA	NA
16-2771	2900	0816-96-0106	Unfiltered	9/6/96	WSF	5180		3	U	0.02	U	1.6	J	500	U	NA	NA
16-2772	3100	0816-96-0107	Unfiltered	9/6/96	WSF	5230		19.6		0.02	U	2.2	J	500	U	NA	NA
16-2773	3275	0816-96-0108	Unfiltered	9/6/96	WSF	5280		99.5		0.02	U	2.2	J	500	U	NA	NA
16-2774	3400	0816-96-0109	Unfiltered	9/6/96	WSF	5200		15		0.02	U	1.8	J	500	U	NA	NA
16-2775	3600	0816-96-0110	Unfiltered	9/6/96	WSF	5220		6.5	J	0.02	U	3.3	J	800		NA	NA
16-2776	3800	0816-96-0111	Unfiltered	9/6/96	WSF	5220		2.9	U	0.02	U	1.8	J	500	U	NA	NA
16-2777	3975	0816-96-0112	Unfiltered	9/6/96	WSF	5250		2.4	U	0.02	U	2.2	J	500	U	NA	NA
16-2778	4175	0816-96-0113	Unfiltered	9/6/96	WSF	5220		3.5	U	0.02	U	2.8	J	500	U	NA	NA
36-10029	Water Canyon	0236-97-0015	Unfiltered	3/27/97	WSF	3780	J	19.5		0.1	U	15	U	NA		NA	NA
36-10030	12600	0236-97-0016	Unfiltered	3/27/97	WSF	3600	J	38.2		0.1	U	15	U	NA		NA	NA

NOTES:

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TABLE CDV-260-4

Canon de Valle Surface Water Samples:

Inorganic Chemical Results

Location ID	Distance from TA 16-260 Outfall (ft)	Sample ID	Field Preparation	Collection Date	Media Code	Potassium (UG/L)		Selenium (UG/L)		Silicon (UG/L)		Silver (UG/L)		Sodium (UG/L)	Thallium (UG/L)		Uranium (UG/L)	
16-2748	2200	0816-96-0046	Filtered	6/28/96	WSF	3440	J	2.7	U	NA		0.67	U	24300	2.8	U	0.22	U
16-2748	2200	0816-96-0048	Unfiltered	6/28/96	WSF	3770	J	2.7	U	NA		0.67	U	22400	2.8	U	0.22	U
16-2757	280	0816-96-0091	Unfiltered	9/6/96	WSF	3910	J	2.9	U	NA		1.3	U	20500	3.4	U	0.46	J-
16-2758	500	0816-96-0092	Unfiltered	9/6/96	WSF	3110	J	1.8	U	NA		1	U	20300	3.4	U	0.16	J-
16-2759	650	0816-96-0093	Unfiltered	9/6/96	WSF	2990	J	3.2	U	NA		1.5	U	20100	3.4	U	0.16	J-
16-2760	800	0816-96-0094	Unfiltered	9/6/96	WSF	3030	J	1.8	U	NA		1.5	U	19900	3.4	U	0.43	J-
16-2761	1000	0816-96-0095	Unfiltered	9/6/96	WSF	2980	J	2.5	U	NA		1	U	19200	3.4	U	0.41	J-
16-2762	1175	0816-96-0096	Unfiltered	9/6/96	WSF	2980	J	1.9	U	NA		1.2	U	19200	3.4	U	0.57	J-
16-2763	1350	0816-96-0097	Unfiltered	9/6/96	WSF	2840	J	2.9	U	NA		1.3	U	19200	3.4	U	0.38	J-
16-2764	1500	0816-96-0098	Unfiltered	9/6/96	WSF	2810	J	1.8	U	NA		1.2	U	19200	3.4	U	0.36	J-
16-2765	1675	0816-96-0099	Unfiltered	9/6/96	WSF	2830	J	1.8	U	NA		1.2	U	19300	3.4	U	0.35	J-
16-2766	1900	0816-96-0100	Unfiltered	9/6/96	WSF	2800	J	3.8	U	NA		1	U	19700	3.4	U	0.27	J-
16-2767	2100	0816-96-0101	Unfiltered	9/6/96	WSF	2960	J	3.9	U	NA		1.2	U	19700	7.4	J	0.36	J-
16-2768	2300	0816-96-0102	Unfiltered	9/6/96	WSF	2780	J	1.8	U	NA		1	U	19700	3.4	U	0.23	J-
16-2768	2300	0816-96-0103	Unfiltered	9/6/96	WSF	2780	J	1.8	U	NA		1.4	U	19600	3.4	U	0.25	J-
16-2769	2550	0816-96-0104	Unfiltered	9/6/96	WSF	2720	J	1.8	U	NA		1	U	19600	3.4	U	0.24	J-
16-2770	2675	0816-96-0105	Unfiltered	9/6/96	WSF	2760	J	1.8	U	NA		1.5	U	19700	3.4	U	0.23	J-
16-2771	2900	0816-96-0106	Unfiltered	9/6/96	WSF	2960	J	1.9	U	NA		1	U	19600	3.4	U	0.22	J-
16-2772	3100	0816-96-0107	Unfiltered	9/6/96	WSF	2780	J	1.8	U	NA		1	U	19500	3.4	U	0.25	J-
16-2773	3275	0816-96-0108	Unfiltered	9/6/96	WSF	3610	J	1.8	U	NA		1	U	20500	3.4	U	0.16	J-
16-2774	3400	0816-96-0109	Unfiltered	9/6/96	WSF	3380	J	1.8	U	1	U	NA		20500	3.4	U	0.12	J-
16-2775	3600	0816-96-0110	Unfiltered	9/6/96	WSF	3380	J	1.8	U	NA		1	U	20600	3.4	U	0.1	J-
16-2776	3800	0816-96-0111	Unfiltered	9/6/96	WSF	3370	J	1.8	U	NA		1	U	20600	3.4	U	0.14	J-
16-2777	3975	0816-96-0112	Unfiltered	9/6/96	WSF	3370	J	2.9	U	NA		1	U	20600	3.4	U	0.09	J-
16-2778	4175	0816-96-0113	Unfiltered	9/6/96	WSF	3450	J	1.8	U	NA		1	U	20700	3.4	U	0.11	J-
36-10029	Water Canyon	0236-97-0015	Unfiltered	3/27/97	WSF	3780	J	2.5	U	NA		5	U	15900	2	U	NA	
36-10030	12600	0236-97-0016	Unfiltered	3/27/97	WSF	3510	J	2.5	U	NA		5	U	8500	2	U	NA	

NOTES:

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TABLE CDV-260-4

Canon de Valle Surface Water Samples:

Inorganic Chemical Results

Location ID	Distance from TA 16-260 Outfall (ft)	Sample ID	Field Preparation	Collection Date	Media Code	Vanadium (UG/L)		Zinc (UG/L)	
16-1001	1300	AAB1597	Filtered	4/18/94	WSF	5		20	U
16-1001	1300	AAB1603	Unfiltered	4/18/94	WSF	4	U	20	U
16-1002	1400	AAB1598	Filtered	4/18/94	WSF	4	U	20	U
16-1002	1400	AAB1604	Unfiltered	4/18/94	WSF	4	U	20	U
16-1003	1500	AAB1599	Filtered	4/18/94	WSF	3.4		11	
16-1003	1500	AAB1605	Unfiltered	4/18/94	WSF	4	U	20	U
16-1004	1950	AAB1600	Filtered	4/18/94	WSF	4	U	20	U
16-1004	1950	AAB1606	Unfiltered	4/18/94	WSF	5		20	U
16-1005	2125	AAB1601	Filtered	4/18/94	WSF	2.4		17.2	
16-1005	2125	AAB1607	Unfiltered	4/18/94	WSF	4	U	20	U
16-1006	2350	AAB1602	Filtered	4/18/94	WSF	3.2		14.6	
16-1006	2350	AAB1608	Unfiltered	4/18/94	WSF	4	U	20	U
16-2670	5025	0316-97-0450	Filtered	12/15/97	WSF	10	U	20	U
16-2670	5025	0316-97-0450	Filtered	12/15/97	WSF	10	U	20	U
16-2670	5025	0316-97-0460	Unfiltered	12/15/97	WSF	10	U	20	U
16-2670	5025	0316-97-0460	Unfiltered	12/15/97	WSF	10	U	20	U
16-2671	5625	0316-97-0451	Filtered	12/15/97	WSF	10	U	20	U
16-2671	5625	0316-97-0451	Filtered	12/15/97	WSF	10	U	20	U
16-2671	5625	0316-97-0461	Unfiltered	12/15/97	WSF	10	U	20	U
16-2671	5625	0316-97-0461	Unfiltered	12/15/97	WSF	10	U	20	U
16-2675	8500	0316-97-0455	Filtered	1/6/98	WSF	10	U	30	
16-2675	8500	0316-97-0465	Unfiltered	1/6/98	WSF	10		70	U
16-2688	2975	0316-97-3032	Unfiltered	8/13/97	WSF	1.7	J	11.7	J
16-2689	7400	0316-97-3110	Unfiltered	9/22/97	WSF	10	U	40	J
16-2690	300	0316-97-3191	Filtered	12/19/97	WSF	10	U	20	U
16-2690	300	0316-97-3192	Unfiltered	12/19/97	WSF	10	U	20	U
16-2747	1530	0816-96-0045	Filtered	6/28/96	WSF	2.1	J	27.7	
16-2747	1530	0816-96-0047	Unfiltered	6/28/96	WSF	4.8	J	15.8	J

NOTES:

All surface water samples are grab samples collected according to LANL-ER-SOP-6.13, Surface Water Sampling.
Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

WSF = Surface water, flowing
NA = Not analyzed

Explanation of data qualifier flags:

U = The compound was analyzed for but was not detected. The associated numerical value is the detection limit.
UJ = The compound was analyzed for but was not detected. The associated numerical value is the estimated detection limit.
J = The reported value is an estimated quantity.
J- = The analyte was positively identified, and the result is likely biased low.
J+ = The analyte was positively identified, and the result is likely bised high.
R = The data are rejected due to serious deficiencies in the ability to analyze the sample and meet quality criteria.

TABLE CDV-260-4

Canon de Valle Surface Water Samples:

Inorganic Chemical Results

Location ID	Distance from TA 16-260 Outfall (ft)	Sample ID	Field Preparation	Collection Date	Media Code	Vanadium (UG/L)		Zinc (UG/L)	
16-2748	2200	0816-96-0046	Filtered	6/28/96	WSF	2.1	J	8.6	J
16-2748	2200	0816-96-0048	Unfiltered	6/28/96	WSF	3.7	J	13.3	J
16-2757	280	0816-96-0091	Unfiltered	9/6/96	WSF	9.3	J+	21.5	
16-2758	500	0816-96-0092	Unfiltered	9/6/96	WSF	1.3	U	4.4	U
16-2759	650	0816-96-0093	Unfiltered	9/6/96	WSF	2.5	U	2.4	U
16-2760	800	0816-96-0094	Unfiltered	9/6/96	WSF	3.2	U	4.2	U
16-2761	1000	0816-96-0095	Unfiltered	9/6/96	WSF	3.1	U	5.2	U
16-2762	1175	0816-96-0096	Unfiltered	9/6/96	WSF	4.7	U	3.7	U
16-2763	1350	0816-96-0097	Unfiltered	9/6/96	WSF	3	U	33	
16-2764	1500	0816-96-0098	Unfiltered	9/6/96	WSF	2.6	U	8.9	U
16-2765	1675	0816-96-0099	Unfiltered	9/6/96	WSF	3	U	2.4	U
16-2766	1900	0816-96-0100	Unfiltered	9/6/96	WSF	2	U	5.4	U
16-2767	2100	0816-96-0101	Unfiltered	9/6/96	WSF	3.7	U	8	U
16-2768	2300	0816-96-0102	Unfiltered	9/6/96	WSF	2	U	5	U
16-2768	2300	0816-96-0103	Unfiltered	9/6/96	WSF	2.3	U	6.5	U
16-2769	2550	0816-96-0104	Unfiltered	9/6/96	WSF	1.6	U	22.7	
16-2770	2675	0816-96-0105	Unfiltered	9/6/96	WSF	2.1	U	13.8	U
16-2771	2900	0816-96-0106	Unfiltered	9/6/96	WSF	1.2	U	0.4	U
16-2772	3100	0816-96-0107	Unfiltered	9/6/96	WSF	2.1	U	8.2	U
16-2773	3275	0816-96-0108	Unfiltered	9/6/96	WSF	2.7	U	10.3	U
16-2774	3400	0816-96-0109	Unfiltered	9/6/96	WSF	1.8	U	13.7	U
16-2775	3600	0816-96-0110	Unfiltered	9/6/96	WSF	1.8	U	2.5	U
16-2776	3800	0816-96-0111	Unfiltered	9/6/96	WSF	1.8	U	6.6	U
16-2777	3975	0816-96-0112	Unfiltered	9/6/96	WSF	1.6	U	13.2	U
16-2778	4175	0816-96-0113	Unfiltered	9/6/96	WSF	2	U	2.5	U
36-10029	Water Canyon	0236-97-0015	Unfiltered	3/27/97	WSF	10	U	19.4	J
36-10030	12600	0236-97-0016	Unfiltered	3/27/97	WSF	10.4	J	29.2	

NOTES:

All surface water samples are grab samples collected according to LANL-ER-SOP-6.13, Surface Water Sampling.
Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

WSF = Surface water, flowing
NA = Not analyzed

Explanation of data qualifier flags:

U = The compound was analyzed for but was not detected. The associated numerical value is the detection limit.
UJ = The compound was analyzed for but was not detected. The associated numerical value is the estimated detection limit.
J = The reported value is an estimated quantity.
J- = The analyte was positively identified, and the result is likely biased low.
J+ = The analyte was positively identified, and the result is likely bised high.
R = The data are rejected due to serious deficiencies in the ability to analyze the sample and meet quality criteria.

TABLE CDV-260-5

Canon de Valle Surface Water Samples:

Water Quality Parameters

Location ID	Distance from TA-16-260 Outfall (ft)	Sample ID	Field Preparation	Collection Date	Media Code	Alkalinity, Total (Methyl Orange [pH=4.5] end point) (UG/L)	Bromide (UG/L)		Chloride (UG/L)	Conductivity (UMHOS)
16-2689	7400	0316-97-3110	Unfiltered	9/22/97	WSF	67000	2000	U	16000	160
16-2690	300	0316-97-3191	Filtered	12/19/97	WSF	NA	4000	U	24000	NA
16-2690	300	0316-97-3192	Unfiltered	12/19/97	WSF	NA	2000	U	25000	NA

NOTES:

All surface water samples are grab samples collected according to LANL-ER-SOP-6.13, Surface Water Sampling.
Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

WSF = Surface water, flowing
NA = Not analyzed
UMHOS = Micromhos
SU = Standard unit
NTU = Nephelometric Turbidity Unit

Explanation of data qualifier flags:

U = The compound was analyzed for but was not detected. The associated numerical value is the detection limit.

TABLE CDV-260-5

Canon de Valle Surface Water Samples:

Water Quality Parameters

Location ID	Distance from TA-16-260 Outfall (ft)	Sample ID	Field Preparation	Collection Date	Media Code	Fluoride (UG/L)		pH (SU)	Solids, Total Dissolved (UG/L)	Solids, Total Suspended (UG/L)		Sulfate (UG/L)	Turbidity (NTU)
16-2689	7400	0316-97-3110	Unfiltered	9/22/97	WSF	200		7.75	150000	5000	U	13000	24
16-2690	300	0316-97-3191	Filtered	12/19/97	WSF	100	U	NA	NA	NA		8000	NA
16-2690	300	0316-97-3192	Unfiltered	12/19/97	WSF	100	U	NA	NA	NA		10000	NA

NOTES:

All surface water samples are grab samples collected according to LANL-ER-SOP-6.13, Surface Water Sampling.
Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

WSF = Surface water, flowing
NA = Not analyzed
UMHOS = Micromhos
SU = Standard unit
NTU = Nephelometric Turbidity Unit

Explanation of data qualifier flags:

U = The compound was analyzed for but was not detected. The associated numerical value is the detection limit.

TABLE CDV-260-6

Canon de Valle Surface Water Samples:

Organic Chemical Results

Location ID	Distance from TA-16-260 Outfall (ft)	Sample ID	Field Preparation	Collection Date	Media Code	Acetone (UG/L)		Amino-2,6-dinitrotoluene[4-] (UG/L)		Amino-4,6-dinitrotoluene[2-] (UG/L)		Bis(2-ethylhexyl) phthalate (UG/L)		Chlorophenol [2-] (UG/L)		Dichloroethane [1,2-] (UG/L)	
16-1001	1300	AAB1597	Filtered	4/18/94	WSF	NA		NA		NA		10	U	10	U	NA	
16-1001	1300	AAB1603	Unfiltered	4/18/94	WSF	20	U	NA		NA		10	U	10	U	5	U
16-1002	1400	AAB1598	Filtered	4/18/94	WSF	NA		NA		NA		10	U	10	U	NA	
16-1002	1400	AAB1604	Unfiltered	4/18/94	WSF	20	U	NA		NA		NA		NA		5	U
16-1003	1500	AAB1599	Filtered	4/18/94	WSF	NA		NA		NA		10	U	10	U	NA	
16-1003	1500	AAB1605	Unfiltered	4/18/94	WSF	20	U	NA		NA		NA		NA		5	U
16-1004	1950	AAB1600	Filtered	4/18/94	WSF	NA		NA		NA		10	U	10	U	NA	
16-1004	1950	AAB1606	Unfiltered	4/18/94	WSF	20	U	NA		NA		NA		NA		5	U
16-1005	2125	AAB1601	Filtered	4/18/94	WSF	NA		NA		NA		10	U	10	U	NA	
16-1005	2125	AAB1607	Unfiltered	4/18/94	WSF	32	U	NA		NA		10	U	10	U	5	U
16-1006	2350	AAB1602	Filtered	4/18/94	WSF	NA		NA		NA		10	U	10	U	NA	
16-1006	2350	AAB1608	Unfiltered	4/18/94	WSF	20	U	NA		NA		10	U	10	U	5	U
16-2670	5025	0316-97-0450	Filtered	12/15/97	WSF	NA		4.6		NA		NA		NA		NA	
16-2670	5025	0316-97-0460	Unfiltered	12/15/97	WSF	NA		4.9		NA		NA		NA		NA	
16-2671	5625	0316-97-0451	Filtered	12/15/97	WSF	NA		4.9		NA		NA		NA		NA	
16-2671	5625	0316-97-0461	Unfiltered	12/15/97	WSF	NA		4.7		NA		NA		NA		NA	
16-2675	8500	0316-97-0455	Filtered	1/6/98	WSF	NA		0.45		NA		NA		NA		NA	
16-2675	8500	0316-97-0465	Unfiltered	1/6/98	WSF	NA		1.1		NA		NA		NA		NA	
16-2688	2975	0316-97-3032	Unfiltered	8/13/97	WSF	39	U	NA		27		9	U	18	U	7	
16-2689	7400	0316-97-3110	Unfiltered	9/22/97	WSF	20	U	2.5	U	2.5	U	10	U	10	U	5	U
16-2690	300	0316-97-3191	Filtered	12/19/97	WSF	25	U	0.39	U	NA		10	U	10	U	5	U
16-2690	300	0316-97-3192	Unfiltered	12/19/97	WSF	20	U	0.39	U	NA		10	U	10	U	5	U
16-2747	1530	0816-96-0047	Unfiltered	6/28/96	WSF	10	U	19		27		1	U	11	U	5	U
16-2748	2200	0816-96-0048	Unfiltered	6/28/96	WSF	10	U	12		8.2		2	U	11	U	5	U
16-2757	280	0816-96-0091	Unfiltered	9/6/96	WSF	20	U	42	J-	34.5	J-	10	U	10	U	5	U
16-2758	500	0816-96-0092	Unfiltered	9/6/96	WSF	20	U	48.8	J-	40.7	J-	10	U	10	U	5	U

NOTES:

All surface water samples are grab samples collected according to LANL-ER-SOP-6.13, Surface Water Sampling.
Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

WSF = Surface water, flowing
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R = The data are rejected due to serious deficiencies in the ability to analyze the sample and meet quality criteria.

TABLE CDV-260-6

Canon de Valle Surface Water Samples:

Organic Chemical Results

Location ID	Distance from TA-16-260 Outfall (ft)	Sample ID	Field Preparation	Collection Date	Media Code	Acetone (UG/L)		Amino-2,6-dinitrotoluene[4-] (UG/L)		Amino-4,6-dinitrotoluene[2-] (UG/L)		Bis(2-ethylhexyl) phthalate (UG/L)		Chlorophenol [2-] (UG/L)		Dichloroethane [1,2-] (UG/L)	
16-2759	650	0816-96-0093	Unfiltered	9/6/96	WSF	20	U	53.2	J-	43.2	J-	3	J	10	U	5	U
16-2760	800	0816-96-0094	Unfiltered	9/6/96	WSF	20	U	17.6	J-	14.4	J-	3	J	10	U	5	U
16-2761	1000	0816-96-0095	Unfiltered	9/6/96	WSF	20	U	16.6	J-	13.7	J-	10	U	10	U	5	U
16-2762	1175	0816-96-0096	Unfiltered	9/6/96	WSF	20	U	17.2	J-	13.9	J-	10	U	10	U	5	U
16-2763	1350	0816-96-0097	Unfiltered	9/6/96	WSF	8	J	16.8	J-	13.6	J-	10	U	10	U	5	U
16-2764	1500	0816-96-0098	Unfiltered	9/6/96	WSF	20	U	NA		NA		10	U	10	U	5	U
16-2765	1675	0816-96-0099	Unfiltered	9/6/96	WSF	20	U	13.6	J-	11.1	J-	10	U	10		5	U
16-2766	1900	0816-96-0100	Unfiltered	9/6/96	WSF	20	U	11.8	J-	9.8	J-	10	U	10	U	5	U
16-2767	2100	0816-96-0101	Unfiltered	9/6/96	WSF	20	U	8	J-	7.03	J-	10	U	10	U	5	U
16-2768	2300	0816-96-0102	Unfiltered	9/6/96	WSF	20	U	8.68	J-	7.52	J-	10	U	10	U	5	U
16-2768	2300	0816-96-0103	Unfiltered	9/6/96	WSF	20	U	8.88	J-	7.61	J-	10	U	10	U	5	U
16-2769	2550	0816-96-0104	Unfiltered	9/6/96	WSF	20	U	8.44	J-	7.15	J-	13		10	U	5	U
16-2770	2675	0816-96-0105	Unfiltered	9/6/96	WSF	20	U	8.32	J-	7.14	J-	10	U	10	U	5	U
16-2771	2900	0816-96-0106	Unfiltered	9/6/96	WSF	20	U	8.02	J-	6.84	J-	10	U	10	U	5	U
16-2772	3100	0816-96-0107	Unfiltered	9/6/96	WSF	20	U	6.94	J-	6	J-	10	U	10	U	5	U
16-2773	3275	0816-96-0108	Unfiltered	9/6/96	WSF	20	U	6.55	J-	5.55	J-	10	U	10	U	5	U
16-2774	3400	0816-96-0109	Unfiltered	9/6/96	WSF	20	U	6.39	J-	5.44	J-	10	U	10	U	5	U
16-2775	3600	0816-96-0110	Unfiltered	9/6/96	WSF	20	U	6.22	J-	5.24	J-	10	U	10	U	5	U
16-2776	3800	0816-96-0111	Unfiltered	9/6/96	WSF	20	U	5.86	J-	4.89	J-	10	U	10	U	5	U
16-2777	3975	0816-96-0112	Unfiltered	9/6/96	WSF	20	U	5.68	J-	4.73	J-	10	U	10	U	5	U
16-2778	4175	0816-96-0113	Unfiltered	9/6/96	WSF	20	U	5.45	J-	4.52	J-	10	U	10	U	5	U
36-10029	Water Canyon	0236-97-0015	Unfiltered	3/27/97	WSF	21	U	0.054		0.049	U	10	U	10	U	4	J
36-10030	12600	0236-97-0016	Unfiltered	3/27/97	WSF	20	U	0.196		0.095		10	U	10	U	6	

NOTES:

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Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

WSF = Surface water, flowing
NA = Not analyzed

Explanation of data qualifier flags:

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UJ = The compound was analyzed for but was not detected. The associated numerical value is the estimated quantitation limit.
J = The reported value is an estimated quantity.
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J+ = The analyte was positively identified, and the result is likely bised high.
R = The data are rejected due to serious deficiencies in the ability to analyze the sample and meet quality criteria.

TABLE CDV-260-6

Canon de Valle Surface Water Samples:

Organic Chemical Results

Location ID	Distance from TA-16-260 Outfall (ft)	Sample ID	Field Preparation	Collection Date	Media Code	Dinitro-2-methylphenol [4,6-] (UG/L)		Dinitrotoluene [2,4-] (UG/L)		Dinitrotoluene [2,6-] (UG/L)		Di-n-octylphthalate (UG/L)		HMX (UG/L)		Methylene Chloride (UG/L)	
16-1001	1300	AAB1597	Filtered	4/18/94	WSF	10	U	29	U	10	U	10	U	65	U	NA	
16-1001	1300	AAB1603	Unfiltered	4/18/94	WSF	10	U	29	U	10	U	10	U	65	U	5	U
16-1002	1400	AAB1598	Filtered	4/18/94	WSF	10	U	29	U	10	U	10	U	65	U	NA	
16-1002	1400	AAB1604	Unfiltered	4/18/94	WSF	NA		29	U	NA		NA		65	U	5	U
16-1003	1500	AAB1599	Filtered	4/18/94	WSF	10	U	29	U	10	U	10	U	65	U	NA	
16-1003	1500	AAB1605	Unfiltered	4/18/94	WSF	NA		29	U	NA		NA		65	U	5	U
16-1004	1950	AAB1600	Filtered	4/18/94	WSF	10	U	29	U	10	U	10	U	65	U	NA	
16-1004	1950	AAB1606	Unfiltered	4/18/94	WSF	NA		29	U	NA		NA		65	U	5	U
16-1005	2125	AAB1601	Filtered	4/18/94	WSF	10	U	29	U	10	U	10	U	65	U	NA	
16-1005	2125	AAB1607	Unfiltered	4/18/94	WSF	10	U	29	U	10	U	10	U	65	U	5	U
16-1006	2350	AAB1602	Filtered	4/18/94	WSF	10	U	29	U	10	U	10	U	65	U	NA	
16-1006	2350	AAB1608	Unfiltered	4/18/94	WSF	10	U	29	U	10	U	10	U	65	U	5	U
16-2670	5025	0316-97-0450	Filtered	12/15/97	WSF	NA		0.2	U	NA		NA		27		NA	
16-2670	5025	0316-97-0460	Unfiltered	12/15/97	WSF	NA		0.2	U	NA		NA		28		NA	
16-2671	5625	0316-97-0451	Filtered	12/15/97	WSF	NA		0.2	U	NA		NA		40		NA	
16-2671	5625	0316-97-0461	Unfiltered	12/15/97	WSF	NA		0.2	U	NA		NA		44		NA	
16-2675	8500	0316-97-0455	Filtered	1/6/98	WSF	NA		0.2	U	NA		NA		1.7	U	NA	
16-2675	8500	0316-97-0465	Unfiltered	1/6/98	WSF	NA		0.2	U	NA		NA		1.7	U	NA	
16-2688	2975	0316-97-3032	Unfiltered	8/13/97	WSF	90	U	2.9	U	18	U	18	U	47		3	U
16-2689	7400	0316-97-3110	Unfiltered	9/22/97	WSF	50	U	2.5	U	10	U	10	U	52		5	U
16-2690	300	0316-97-3191	Filtered	12/19/97	WSF	50	U	0.2	U	10	U	10	U	1.7	U	5	U
16-2690	300	0316-97-3192	Unfiltered	12/19/97	WSF	50	U	0.2	U	10	U	10	U	1.7	U	5	U
16-2747	1530	0816-96-0047	Unfiltered	6/28/96	WSF	27	U	1.3	U	1	J	11	U	160	J-	10	U
16-2748	2200	0816-96-0048	Unfiltered	6/28/96	WSF	27	U	1.3	U	11	U	11	U	160	J-	10	U
16-2757	280	0816-96-0091	Unfiltered	9/6/96	WSF	50	U	0.192	J-	10	U	10		124	J-	5	U
16-2758	500	0816-96-0092	Unfiltered	9/6/96	WSF	50	U	0.324	J-	10	U	10	U	119	J-	5	U

NOTES:

All surface water samples are grab samples collected according to LANL-ER-SOP-6.13, Surface Water Sampling.
Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

WSF = Surface water, flowing
NA = Not analyzed

Explanation of data qualifier flags:

U = The compound was analyzed for but was not detected. The associated numerical value is the quantitation limit.
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J = The reported value is an estimated quantity.
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R = The data are rejected due to serious deficiencies in the ability to analyze the sample and meet quality criteria.

TABLE CDV-260-6

Canon de Valle Surface Water Samples:

Organic Chemical Results

Location ID	Distance from TA-16-260 Outfall (ft)	Sample ID	Field Preparation	Collection Date	Media Code	Dinitro-2-methylphenol [4,6-] (UG/L)		Dinitrotoluene [2,4-] (UG/L)		Dinitrotoluene [2,6-] (UG/L)		Di-n-octylphthalate (UG/L)		HMX (UG/L)		Methylene Chloride (UG/L)	
16-2759	650	0816-96-0093	Unfiltered	9/6/96	WSF	50	U	0.315	J-	10	U	10	U	123	J-	5	U
16-2760	800	0816-96-0094	Unfiltered	9/6/96	WSF	50	U	0.116	J-	10	U	10	U	43.6	J-	5	U
16-2761	1000	0816-96-0095	Unfiltered	9/6/96	WSF	50	U	0.104	J-	10	U	10	U	42.3	J-	5	U
16-2762	1175	0816-96-0096	Unfiltered	9/6/96	WSF	50	U	0.105	J-	10	U	10	U	42	J-	5	U
16-2763	1350	0816-96-0097	Unfiltered	9/6/96	WSF	50	U	0.1	J-	10	U	10	U	41.3	J-	5	U
16-2764	1500	0816-96-0098	Unfiltered	9/6/96	WSF	50		NA		10	U	10	U	NA		5	U
16-2765	1675	0816-96-0099	Unfiltered	9/6/96	WSF	50	U	0.083	J-	10	U	10	U	42.9	J-	5	U
16-2766	1900	0816-96-0100	Unfiltered	9/6/96	WSF	50	U	0.075	J-	10	U	10	U	37.7	J-	6	
16-2767	2100	0816-96-0101	Unfiltered	9/6/96	WSF	50	U	0.043	J-	10	U	10	U	35.7	J-	5	U
16-2768	2300	0816-96-0102	Unfiltered	9/6/96	WSF	50	U	0.047	J-	10	U	10	U	34.6	J-	5	U
16-2768	2300	0816-96-0103	Unfiltered	9/6/96	WSF	50	U	0.056	J-	10	U	10	U	35.6	J-	5	U
16-2769	2550	0816-96-0104	Unfiltered	9/6/96	WSF	50	U	0.049	J-	10	U	10	U	34.3	J-	5	U
16-2770	2675	0816-96-0105	Unfiltered	9/6/96	WSF	50	U	0.052	J-	10	U	10	U	34.7	J-	5	U
16-2771	2900	0816-96-0106	Unfiltered	9/6/96	WSF	50	U	0.04	J-	10	U	10	U	34	J-	5	U
16-2772	3100	0816-96-0107	Unfiltered	9/6/96	WSF	50	U	0.037	R	10	U	10	U	34.4	J-	5	U
16-2773	3275	0816-96-0108	Unfiltered	9/6/96	WSF	50	U	0.058	J-	10	U	10	U	38.1	J-	5	U
16-2774	3400	0816-96-0109	Unfiltered	9/6/96	WSF	50	U	0.061	J-	10	U	10	U	37.8	J-	5	U
16-2775	3600	0816-96-0110	Unfiltered	9/6/96	WSF	50	U	0.059	J-	10	U	10	U	38.8	J-	5	U
16-2776	3800	0816-96-0111	Unfiltered	9/6/96	WSF	50	U	0.047	J-	10	U	10	U	36	J-	5	U
16-2777	3975	0816-96-0112	Unfiltered	9/6/96	WSF	50	U	0.049	J-	10	U	10	U	37.5	J-	5	U
16-2778	4175	0816-96-0113	Unfiltered	9/6/96	WSF	50	U	0.049	J-	10	U	10	U	39.5	J-	5	U
36-10029	Water Canyon	0236-97-0015	Unfiltered	3/27/97	WSF	50	U	0.036	U	10	U	10	U	0.209		5	U
36-10030	12600	0236-97-0016	Unfiltered	3/27/97	WSF	50	U	0.036	U	10	U	10	U	75.5		5	U

NOTES:

All surface water samples are grab samples collected according to LANL-ER-SOP-6.13, Surface Water Sampling.
Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

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J- = The analyte was positively identified, and the result is likely biased low.
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R = The data are rejected due to serious deficiencies in the ability to analyze the sample and meet quality criteria.

TABLE CDV-260-6

Canon de Valle Surface Water Samples:

Organic Chemical Results

Location ID	Distance from TA-16-260 Outfall (ft)	Sample ID	Field Preparation	Collection Date	Media Code	Nitrobenzene (UG/L)		Nitrotoluene[2-] (UG/L)		RDX (UG/L)		Trinitrobenzene [1,3,5-] (UG/L)		Trinitrotoluene [2,4,6-] (UG/L)	
16-1001	1300	AAB1597	Filtered	4/18/94	WSF	32	U	60	U	155	U	37	U	35	U
16-1001	1300	AAB1603	Unfiltered	4/18/94	WSF	32	U	60	U	180	U	37	U	35	U
16-1002	1400	AAB1598	Filtered	4/18/94	WSF	32	U	60	U	158	U	37	U	35	U
16-1002	1400	AAB1604	Unfiltered	4/18/94	WSF	32	U	60	U	152	U	37	U	35	U
16-1003	1500	AAB1599	Filtered	4/18/94	WSF	32	U	60	U	170	U	37	U	35	U
16-1003	1500	AAB1605	Unfiltered	4/18/94	WSF	32	U	60	U	196	U	37	U	35	U
16-1004	1950	AAB1600	Filtered	4/18/94	WSF	32	U	60	U	144	U	37	U	35	U
16-1004	1950	AAB1606	Unfiltered	4/18/94	WSF	32	U	60	U	133	U	37	U	35	U
16-1005	2125	AAB1601	Filtered	4/18/94	WSF	32	U	60	U	151	U	37	U	35	U
16-1005	2125	AAB1607	Unfiltered	4/18/94	WSF	32	U	60	U	146	U	37	U	35	U
16-1006	2350	AAB1602	Filtered	4/18/94	WSF	32	U	60	U	140	U	37	U	35	U
16-1006	2350	AAB1608	Unfiltered	4/18/94	WSF	32	U	60	U	162	U	37	U	35	U
16-2670	5025	0316-97-0450	Filtered	12/15/97	WSF	0.2	U	0.78	U	40		0.2	U	0.2	U
16-2670	5025	0316-97-0460	Unfiltered	12/15/97	WSF	0.2	U	0.78	U	41		0.2	U	0.2	U
16-2671	5625	0316-97-0451	Filtered	12/15/97	WSF	0.2	U	0.78	U	54		0.2	U	0.2	U
16-2671	5625	0316-97-0461	Unfiltered	12/15/97	WSF	0.2	U	0.78	U	56		0.2	U	0.2	U
16-2675	8500	0316-97-0455	Filtered	1/6/98	WSF	0.5		0.78	U	0.87	U	0.2	U	1.8	
16-2675	8500	0316-97-0465	Unfiltered	1/6/98	WSF	0.53		0.78	U	0.87	U	0.2	U	0.2	U
16-2688	2975	0316-97-3032	Unfiltered	8/13/97	WSF	3	U	NA		190		2.9	U	2.9	U
16-2689	7400	0316-97-3110	Unfiltered	9/22/97	WSF	10	U	10	U	77		2.6	U	2.5	U
16-2690	300	0316-97-3191	Filtered	12/19/97	WSF	0.2	U	0.78	U	0.87	U	0.2	U	0.2	U
16-2690	300	0316-97-3192	Unfiltered	12/19/97	WSF	0.2	U	0.78	U	0.87	U	0.2	U	0.2	U
16-2747	1530	0816-96-0047	Unfiltered	6/28/96	WSF	5	UJ	5	U	780	J-	1.3	UJ	1.3	UJ
16-2748	2200	0816-96-0048	Unfiltered	6/28/96	WSF	5	UJ	5	U	500	J-	1.3	UJ	1.3	UJ
16-2757	280	0816-96-0091	Unfiltered	9/6/96	WSF	0.051	R	1.12	J-	790	J-	0.047	R	0.277	J-
16-2758	500	0816-96-0092	Unfiltered	9/6/96	WSF	0.051	R	2.28	J-	765	J-	0.047	R	3.49	J-

NOTES:

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TABLE CDV-260-6

Canon de Valle Surface Water Samples:

Organic Chemical Results

Location ID	Distance from TA-16-260 Outfall (ft)	Sample ID	Field Preparation	Collection Date	Media Code	Nitrobenzene (UG/L)		Nitrotoluene[2-] (UG/L)		RDX (UG/L)		Trinitrobenzene [1,3,5-] (UG/L)		Trinitrotoluene [2,4,6-] (UG/L)	
16-2759	650	0816-96-0093	Unfiltered	9/6/96	WSF	0.051	R	0.088	R	818	J-	0.207	J-	7.41	J-
16-2760	800	0816-96-0094	Unfiltered	9/6/96	WSF	0.051	R	0.851	J-	290	J-	0.047	R	0.697	J-
16-2761	1000	0816-96-0095	Unfiltered	9/6/96	WSF	0.051	R	0.402	J-	274	J-	0.047	R	0.539	J-
16-2762	1175	0816-96-0096	Unfiltered	9/6/96	WSF	0.051	R	0.461	J-	280	J-	0.047	R	0.417	J-
16-2763	1350	0816-96-0097	Unfiltered	9/6/96	WSF	0.051	R	0.531	J-	272	J-	0.047	R	0.687	J-
16-2764	1500	0816-96-0098	Unfiltered	9/6/96	WSF	NA		NA		NA		NA		NA	
16-2765	1675	0816-96-0099	Unfiltered	9/6/96	WSF	0.051	R	0.281	J-	296	J-	0.047	R	0.114	J-
16-2766	1900	0816-96-0100	Unfiltered	9/6/96	WSF	0.051	R	0.169	J-	256	J-	0.047	R	0.155	J-
16-2767	2100	0816-96-0101	Unfiltered	9/6/96	WSF	0.051	R	0.088	R	241	J-	0.047	R	0.052	R
16-2768	2300	0816-96-0102	Unfiltered	9/6/96	WSF	0.051	R	0.413	J-	217	J-	0.047	R	0.06	J-
16-2768	2300	0816-96-0103	Unfiltered	9/6/96	WSF	0.051	R	0.254	J-	231	J-	0.047	R	0.084	J-
16-2769	2550	0816-96-0104	Unfiltered	9/6/96	WSF	0.051	R	0.39	J-	219	J-	0.047	R	0.07	J-
16-2770	2675	0816-96-0105	Unfiltered	9/6/96	WSF	0.051	R	0.088	R	226	J-	0.047	R	0.063	J-
16-2771	2900	0816-96-0106	Unfiltered	9/6/96	WSF	0.051	R	0.718	J-	219	J-	0.047	R	0.052	R
16-2772	3100	0816-96-0107	Unfiltered	9/6/96	WSF	0.051	R	1.2	J-	210	J-	0.047	R	0.052	R
16-2773	3275	0816-96-0108	Unfiltered	9/6/96	WSF	0.051	R	0.581	J-	164	J-	0.047	R	0.052	R
16-2774	3400	0816-96-0109	Unfiltered	9/6/96	WSF	0.051	R	0.402	J-	157	J-	0.047	R	0.052	R
16-2775	3600	0816-96-0110	Unfiltered	9/6/96	WSF	0.051	R	0.244	J-	158	J-	0.047	R	0.052	R
16-2776	3800	0816-96-0111	Unfiltered	9/6/96	WSF	0.051	R	0.522	J-	141	J-	0.047	R	0.052	R
16-2777	3975	0816-96-0112	Unfiltered	9/6/96	WSF	0.051	R	1.05	J-	148	J-	0.047	R	0.052	R
16-2778	4175	0816-96-0113	Unfiltered	9/6/96	WSF	0.051	R	0.56	J-	138	J-	0.047	R	0.052	R
36-10029	Water Canyon	0236-97-0015	Unfiltered	3/27/97	WSF	0.054	U	0.095	U	0.324		0.048	U	0.05	U
36-10030	12600	0236-97-0016	Unfiltered	3/27/97	WSF	0.054	U	0.095	U	20.6		0.048	U	0.05	U

NOTES:

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TABLE CDV-260-7

Canon de Valle Surface Water Samples:

Radiochemical Results

Location ID	Distance from TA-16-260 Outfall (ft)	Sample ID	Field Preparation	Collection Date	Media Code	Americium-241 (PCI/L)			Barium-140 (PCI/L)			Cerium-144 (PCI/L)			Cesium-137 (PCI/L)		
16-1001	1300	AAB1597	Filtered	4/18/94	WSF	5.49	(5.2)	U	2870	(3160)	U	-20.1	(9.3)	U	-0.301	(0.955)	U
16-1001	1300	AAB1603	Unfiltered	4/18/94	WSF	4.22	(5.25)	U	406	(3225)	U	-4.58	(9.5)	U	-0.985	(0.94)	U
16-1003	1500	AAB1599	Filtered	4/18/94	WSF	19.4	(0)	U	NA			37.9	(0)	U	5.3	(0)	U
16-1004	1950	AAB1600	Filtered	4/18/94	WSF	-12.3	(6.55)	U	7720	(4090)	U	13.2	(9.3)	U	1.88	(1.335)	U
16-1005	2125	AAB1601	Filtered	4/18/94	WSF	14.17	(0)	U	NA			33.15	(0)	U	5.065	(0)	U
16-1005	2125	AAB1607	Unfiltered	4/18/94	WSF	2.69	(4.46)	U	2430	(3335)	U	9.6	(9.7)	U	-1.53	(0.935)	U
16-1006	2350	AAB1602	Filtered	4/18/94	WSF	10.04	(0)	U	NA			20.58	(0)	U	3.58	(0)	U
16-1006	2350	AAB1608	Unfiltered	4/18/94	WSF	2.7	(4.77)	U	1050	(3285)	U	-18	(9.2)	U	-0.551	(1.135)	U
16-2757	280	0816-96-0091	Unfiltered	9/6/96	WSF	2.6	(2.705)	U	-3.27	(9.05)	U	9.78	(7.65)	U	-2.25	(2.705)	U
16-2758	500	0816-96-0092	Unfiltered	9/6/96	WSF	-2.33	(4.37)	U	0	(4.905)	U	-5.37	(6.75)	U	-2.24	(1.015)	U
16-2759	650	0816-96-0093	Unfiltered	9/6/96	WSF	13.3	(12.7)	U	19.3	(14.2)	U	-4.75	(10.9)	U	-1.97	(2.785)	U
16-2760	800	0816-96-0094	Unfiltered	9/6/96	WSF	2.45	(2.605)	U	3.18	(13.8)	U	-4.13	(8.2)	U	0.671	(2.49)	U
16-2761	1000	0816-96-0095	Unfiltered	9/6/96	WSF	-5.61	(4.225)	U	-5.04	(5.9)	U	5.77	(6.6)	U	-2.43	(1.05)	U
16-2762	1175	0816-96-0096	Unfiltered	9/6/96	WSF	14.6	(11.85)	U	18	(11.6)	U	8.64	(9.95)	U	3.45	(2.145)	U
16-2763	1350	0816-96-0097	Unfiltered	9/6/96	WSF	-4.34	(11.6)	U	-9.44	(13.1)	U	-12.8	(10.15)	U	3.51	(2.23)	U
16-2764	1500	0816-96-0098	Unfiltered	9/6/96	WSF	7.06	(11.5)	U	-8.53	(12.05)	U	-8.81	(10.05)	U	-3.69	(2.62)	U
16-2765	1675	0816-96-0099	Unfiltered	9/6/96	WSF	2.67	(10.5)	U	1.8	(12.75)	U	4.11	(9.3)	U	-1.18	(2.105)	U
16-2766	1900	0816-96-0100	Unfiltered	9/6/96	WSF	-15.5	(11.4)	U	-7.15	(14.3)	U	1.23	(10.4)	U	0.134	(2.075)	U
16-2767	2100	0816-96-0101	Unfiltered	9/6/96	WSF	-0.769	(10.45)	U	11.7	(13.25)	U	11.7	(10.15)	U	3.34	(2.33)	U
16-2768	2300	0816-96-0102	Unfiltered	9/6/96	WSF	-1.74	(2.37)	U	8.21	(14.6)	U	14	(7.85)	U	3.04	(2.69)	U
16-2768	2300	0816-96-0103	Unfiltered	9/6/96	WSF	0.589	(4.475)	U	1.88	(8)	U	0.637	(6.85)	U	1.53	(1.005)	U
16-2769	2550	0816-96-0104	Unfiltered	9/6/96	WSF	-10.1	(10.7)	U	2.48	(19.2)	U	2.87	(9.85)	U	1.97	(2.305)	U
16-2770	2675	0816-96-0105	Unfiltered	9/6/96	WSF	10.6	(11.55)	U	28.3	(19.25)	U	-5.76	(9.6)	U	3.75	(2.225)	U
16-2771	2900	0816-96-0106	Unfiltered	9/6/96	WSF	-0.105	(2.64)	U	9.8	(17.75)	U	-1.45	(7.6)	U	0.884	(2.67)	U
16-2772	3100	0816-96-0107	Unfiltered	9/6/96	WSF	-8.26	(4.235)	U	10	(9.95)	U	-8.29	(7.1)	U	1.2	(1)	U
16-2773	3275	0816-96-0108	Unfiltered	9/6/96	WSF	-14.6	(11.15)	U	2.77	(19.6)	U	-12.9	(9.75)	U	2.09	(2.12)	U
16-2774	3400	0816-96-0109	Unfiltered	9/6/96	WSF	-13.1	(10.3)	U	21.6	(20.45)	U	7.75	(10.4)	U	-1.11	(2.265)	U
16-2775	3600	0816-96-0110	Unfiltered	9/6/96	WSF	-2.51	(2.565)	U	22.4	(21.65)	U	-13.4	(7.2)	U	2.17	(2.655)	U
16-2776	3800	0816-96-0111	Unfiltered	9/6/96	WSF	6.99	(4.34)	U	-4.47	(10.7)	U	6.43	(7.05)	U	-2	(1.02)	U
16-2777	3975	0816-96-0112	Unfiltered	9/6/96	WSF	-12.6	(11.15)	U	23.3	(20.2)	U	30.5	(10.25)	U	-0.414	(1.93)	U
16-2778	4175	0816-96-0113	Unfiltered	9/6/96	WSF	-8.79	(9.9)	U	22.6	(18.35)	U	21.5	(10)	U	-2.27	(2.235)	U
36-10029	Water Canyon	0236-97-0015	Unfiltered	3/27/97	WSF	NA			NA			NA			NA		
36-10030	12600	0236-97-0016	Unfiltered	3/27/97	WSF	NA			NA			NA			NA		

NOTES:

All surface water samples are grab samples collected according to LANL-ER-SOP-6.13, Surface Water Sampling.
Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

WSF = Surface water, flowing
NA = Not analyzed
( ) = 1-sigma uncertainty associated with reported result

Explanation of data qualifier flags:

U = The compound was analyzed for but was not detected. The associated numerical value is the detection limit.

TABLE CDV-260-7

Canon de Valle Surface Water Samples:

Radiochemical Results

Location ID	Distance from TA-16-260 Outfall (ft)	Sample ID	Field Preparation	Collection Date	Media Code	Cobalt-60 (PCI/L)			Europium-152 (PCI/L)			Gross Beta Radiation (PCI/L)		Gross Gamma Radiation (PCI/L)		Neptunium-237 (PCI/L)		
16-1001	1300	AAB1597	Filtered	4/18/94	WSF	-0.545	(1.07)	U	-0.714	(5.05)	U	NA		NA		1.87	(1.605)	U
16-1001	1300	AAB1603	Unfiltered	4/18/94	WSF	-0.649	(1.19)	U	-1.78	(5.8)	U	NA		NA		-0.56	(1.605)	U
16-1003	1500	AAB1599	Filtered	4/18/94	WSF	5.679	(0)	U	NA			NA		NA		NA		
16-1004	1950	AAB1600	Filtered	4/18/94	WSF	0.447	(1.735)	U	-5.78	(8.75)	U	NA		NA		2.04	(1.81)	U
16-1005	2125	AAB1601	Filtered	4/18/94	WSF	5.519	(0)	U	NA			NA		NA		NA		
16-1005	2125	AAB1607	Unfiltered	4/18/94	WSF	0.262	(1.3)	U	-5.23	(5.5)	U	NA		NA		-0.734	(1.675)	U
16-1006	2350	AAB1602	Filtered	4/18/94	WSF	4.309	(0)	U	NA			NA		NA		NA		
16-1006	2350	AAB1608	Unfiltered	4/18/94	WSF	1.71	(1.385)	U	4.36	(5.7)	U	NA		NA		0.712	(1.78)	U
16-2757	280	0816-96-0091	Unfiltered	9/6/96	WSF	0.236	(2.92)	U	-3.97	(5.85)	U	NA		NA		-10.6	(6.7)	U
16-2758	500	0816-96-0092	Unfiltered	9/6/96	WSF	-1.58	(1.135)	U	-0.856	(2.9)	U	NA		NA		-3.28	(7)	U
16-2759	650	0816-96-0093	Unfiltered	9/6/96	WSF	0.864	(3.345)	U	-9.38	(6.55)	U	NA		NA		9.61	(14.95)	U
16-2760	800	0816-96-0094	Unfiltered	9/6/96	WSF	-0.162	(2.875)	U	8.17	(5.45)	U	NA		NA		-4.6	(6.9)	U
16-2761	1000	0816-96-0095	Unfiltered	9/6/96	WSF	1.93	(1.06)	U	-0.694	(2.8)	U	NA		NA		2.07	(6.9)	U
16-2762	1175	0816-96-0096	Unfiltered	9/6/96	WSF	-0.67	(1.865)	U	2.4	(5.85)	U	NA		NA		-6.34	(12.05)	U
16-2763	1350	0816-96-0097	Unfiltered	9/6/96	WSF	0.578	(2.42)	U	5.38	(5.6)	U	NA		NA		-2.86	(13.6)	U
16-2764	1500	0816-96-0098	Unfiltered	9/6/96	WSF	-1.69	(2.17)	U	3.93	(5.9)	U	NA		NA		-0.925	(11.65)	U
16-2765	1675	0816-96-0099	Unfiltered	9/6/96	WSF	-3.26	(2.22)	U	-2.75	(5.45)	U	NA		NA		-33.7	(12.1)	U
16-2766	1900	0816-96-0100	Unfiltered	9/6/96	WSF	2.96	(2.175)	U	-4.59	(5.6)	U	NA		NA		-2.69	(12.35)	U
16-2767	2100	0816-96-0101	Unfiltered	9/6/96	WSF	3.31	(1.84)	U	10.2	(5.65)	U	NA		NA		9.06	(12.6)	U
16-2768	2300	0816-96-0102	Unfiltered	9/6/96	WSF	-6.8	(3.19)	U	6.63	(4.605)	U	NA		NA		-2.92	(5.95)	U
16-2768	2300	0816-96-0103	Unfiltered	9/6/96	WSF	0.636	(1.105)	U	8.29	(2.82)	U	NA		NA		-9.1	(7.2)	U
16-2769	2550	0816-96-0104	Unfiltered	9/6/96	WSF	2.57	(2.505)	U	1.95	(5.6)	U	NA		NA		7.63	(12.95)	U
16-2770	2675	0816-96-0105	Unfiltered	9/6/96	WSF	-0.484	(2.29)	U	-3.15	(5.8)	U	NA		NA		-9.56	(12.6)	U
16-2771	2900	0816-96-0106	Unfiltered	9/6/96	WSF	0.99	(3.08)	U	2.2	(5.15)	U	NA		NA		-4.59	(6.4)	U
16-2772	3100	0816-96-0107	Unfiltered	9/6/96	WSF	2.08	(1)	U	-1.86	(2.775)	U	NA		NA		-5.02	(6.7)	U
16-2773	3275	0816-96-0108	Unfiltered	9/6/96	WSF	3.43	(2.28)	U	9.91	(5.75)	U	NA		NA		-24.3	(12.05)	U
16-2774	3400	0816-96-0109	Unfiltered	9/6/96	WSF	-0.255	(2.41)	U	0.81	(5.9)	U	NA		NA		-0.302	(12.65)	U
16-2775	3600	0816-96-0110	Unfiltered	9/6/96	WSF	0.305	(2.75)	U	-13.9	(4.535)	U	NA		NA		-7.57	(5.9)	U
16-2776	3800	0816-96-0111	Unfiltered	9/6/96	WSF	2.08	(1.155)	U	-0.742	(2.8)	U	NA		NA		-7.3	(6.9)	U
16-2777	3975	0816-96-0112	Unfiltered	9/6/96	WSF	-0.957	(1.835)	U	-8.16	(5.95)	U	NA		NA		-15.7	(12.6)	U
16-2778	4175	0816-96-0113	Unfiltered	9/6/96	WSF	-2.25	(2.355)	U	-7.38	(5.85)	U	NA		NA		-13.9	(12.2)	U
36-10029	Water Canyon	0236-97-0015	Unfiltered	3/27/97	WSF	NA			NA			5.26	(0.93)	225	(18.5)	NA		
36-10030	12600	0236-97-0016	Unfiltered	3/27/97	WSF	NA			NA			4.61	(0.98)	213	(16.4)	NA		

NOTES:

All surface water samples are grab samples collected according to LANL-ER-SOP-6.13, Surface Water Sampling.
Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

WSF = Surface water, flowing
NA = Not analyzed
( ) = 1-sigma uncertainty associated with reported result

Explanation of data qualifier flags:

U = The compound was analyzed for but was not detected. The associated numerical value is the detection limit.

TABLE CDV-260-7

Canon de Valle Surface Water Samples:

Radiochemical Results

Location ID	Distance from TA-16-260 Outfall (ft)	Sample ID	Field Preparation	Collection Date	Media Code	Ruthenium-106 (PCI/L)			Sodium-22 (PCI/L)			Uranium-234 (PCI/L)			Uranium-235 (PCI/L)			Uranium-238 (PCI/L)		
16-1001	1300	AAB1597	Filtered	4/18/94	WSF	32.2	(15.15)	U	1.3	(1.265)	U	NA			NA			NA		
16-1001	1300	AAB1603	Unfiltered	4/18/94	WSF	-20.2	(15.1)	U	0.018	(1.345)	U	NA			NA			NA		
16-1003	1500	AAB1599	Filtered	4/18/94	WSF	369.7	(0)	U	5.947	(0)	U	NA			NA			NA		
16-1004	1950	AAB1600	Filtered	4/18/94	WSF	18.3	(20.15)	U	-1.74	(1.87)	U	NA			NA			NA		
16-1005	2125	AAB1601	Filtered	4/18/94	WSF	347.4	(0)	U	5.354	(0)	U	NA			NA			NA		
16-1005	2125	AAB1607	Unfiltered	4/18/94	WSF	-16.2	(16.6)	U	0.272	(1.35)	U	NA			NA			NA		
16-1006	2350	AAB1602	Filtered	4/18/94	WSF	255.5	(0)	U	4.058	(0)	U	NA			NA			NA		
16-1006	2350	AAB1608	Unfiltered	4/18/94	WSF	-9.35	(16.85)	U	1.61	(1.39)	U	NA			NA			NA		
16-2757	280	0816-96-0091	Unfiltered	9/6/96	WSF	12.9	(20.3)	U	0.512	(3.17)	U	NA			0.342	(3.66)	U	NA		
16-2758	500	0816-96-0092	Unfiltered	9/6/96	WSF	2.37	(9.5)	U	1.31	(0.95)	U	NA			-1.99	(2.4)	U	NA		
16-2759	650	0816-96-0093	Unfiltered	9/6/96	WSF	-28.9	(22.65)	U	2.98	(2.815)	U	NA			1.16	(3.635)	U	NA		
16-2760	800	0816-96-0094	Unfiltered	9/6/96	WSF	22.5	(22.15)	U	-2.17	(3.045)	U	NA			3.81	(3.92)	U	NA		
16-2761	1000	0816-96-0095	Unfiltered	9/6/96	WSF	-12.4	(10.2)	U	0.3	(1.06)	U	NA			-2.42	(2.365)	U	NA		
16-2762	1175	0816-96-0096	Unfiltered	9/6/96	WSF	7.19	(18.85)	U	2.62	(2.035)	U	NA			0.592	(3.23)	U	NA		
16-2763	1350	0816-96-0097	Unfiltered	9/6/96	WSF	-7.61	(18.55)	U	1.31	(2.305)	U	NA			-4.76	(3.285)	U	NA		
16-2764	1500	0816-96-0098	Unfiltered	9/6/96	WSF	-20.4	(18.65)	U	-0.864	(2.53)	U	NA			-3.35	(3.17)	U	NA		
16-2765	1675	0816-96-0099	Unfiltered	9/6/96	WSF	12.2	(19.1)	U	-0.573	(2.305)	U	NA			-4.7	(2.955)	U	NA		
16-2766	1900	0816-96-0100	Unfiltered	9/6/96	WSF	15.1	(18.65)	U	-1.82	(2.33)	U	NA			-5.49	(3.085)	U	NA		
16-2767	2100	0816-96-0101	Unfiltered	9/6/96	WSF	33.4	(17.05)	U	-1.64	(2.11)	U	NA			-4.1	(3.04)	U	NA		
16-2768	2300	0816-96-0102	Unfiltered	9/6/96	WSF	19.9	(19.4)	U	5.39	(3.05)	U	NA			0.702	(3.57)	U	NA		
16-2768	2300	0816-96-0103	Unfiltered	9/6/96	WSF	6.26	(9.75)	U	0.914	(0.93)	U	NA			-1.44	(2.5)	U	NA		
16-2769	2550	0816-96-0104	Unfiltered	9/6/96	WSF	4.81	(18.15)	U	0.694	(2.535)	U	NA			-5.02	(3.015)	U	NA		
16-2770	2675	0816-96-0105	Unfiltered	9/6/96	WSF	66	(20.9)	U	3.13	(2.425)	U	NA			-4.1	(3.075)	U	NA		
16-2771	2900	0816-96-0106	Unfiltered	9/6/96	WSF	-5.71	(20.5)	U	0.833	(3.245)	U	NA			1.65	(3.62)	U	NA		
16-2772	3100	0816-96-0107	Unfiltered	9/6/96	WSF	-11.1	(10.7)	U	0.832	(1.08)	U	NA			-1.79	(2.415)	U	NA		
16-2773	3275	0816-96-0108	Unfiltered	9/6/96	WSF	-22.8	(19.3)	U	-1.61	(2.07)	U	NA			-4.23	(3.255)	U	NA		
16-2774	3400	0816-96-0109	Unfiltered	9/6/96	WSF	-16.3	(18.3)	U	-2.2	(1.95)	U	NA			-5.3	(3.105)	U	NA		
16-2775	3600	0816-96-0110	Unfiltered	9/6/96	WSF	0	(17.85)	U	1.04	(3.135)	U	NA			-1.65	(3.57)	U	NA		
16-2776	3800	0816-96-0111	Unfiltered	9/6/96	WSF	-9.92	(10.4)	U	0.93	(0.945)	U	NA			-1.61	(2.44)	U	NA		
16-2777	3975	0816-96-0112	Unfiltered	9/6/96	WSF	2.36	(19.05)	U	-0.135	(2.095)	U	NA			-6.86	(3.245)	U	NA		
16-2778	4175	0816-96-0113	Unfiltered	9/6/96	WSF	-3.11	(19.4)	U	-1.5	(2.53)	U	NA			-4.34	(3)	U	NA		
36-10029	Water Canyon	0236-97-0015	Unfiltered	3/27/97	WSF	NA			NA			0.099	(0.0255)	U	0.045	(0.0155)	U	0.054	(0.0265)	U
36-10030	12600	0236-97-0016	Unfiltered	3/27/97	WSF	NA			NA			0.144	(0.028)		0.018	(0.0145)	U	0.135	(0.0275)	

NOTES:

All surface water samples are grab samples collected according to LANL-ER-SOP-6.13, Surface Water Sampling.
Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

WSF = Surface water, flowing
NA = Not analyzed
( ) = 1-sigma uncertainty associated with reported result

Explanation of data qualifier flags:

U = The compound was analyzed for but was not detected. The associated numerical value is the detection limit.

TABLE CDV-260-8

Canon de Valle Seep and Alluvium Well Water Samples:

Inorganic Chemical Results

Location ID	Sample ID	Field Preparation	Collection Date	Media Code	Aluminum (UG/L)		Antimony (UG/L)		Arsenic (UG/L)		Barium (UG/L)	Beryllium (UG/L)		Cadmium (UG/L)		Calcium (UG/L)		Chromium, Total (UG/L)	
Peter Seep																			
16-2653	0316-97-3024	Filtered	6/27/97	WGS	428		3.4	U	2.6	U	753	1	U	0.4	U	18200		1.2	J
16-2653	0316-97-3025	Unfiltered	6/27/97	WGS	560		3.4	U	2.6	U	763	0.96	U	0.4	U	18400		0.92	J
16-2653	0316-97-3106	Unfiltered	9/19/97	WGS	1500		20	UJ	25		3000	4	U	5	U	19000	U	10	U
16-2653	0316-97-3107	Filtered	9/19/97	WGS	300		20	UJ	4	U	3400	4	U	5	U	18000	U	10	U
Fish Ladder Seep																			
16-2654	0316-97-3102	Unfiltered	9/19/97	WGS	1000		20	UJ	21		1100	4	U	5	U	18000	U	10	U
16-2654	0316-97-3103	Filtered	9/19/97	WGS	800		20	UJ	20		1000	4	U	5	U	19000	U	10	U
Alluvial Well 16-2655																			
16-2655	0316-97-0476	Filtered	12/19/97	WGA	100		20	U	4	U	110	4	U	5	U	30000		10	U
16-2655	0316-97-0482	Unfiltered	12/22/97	WGA	7800		20	U	4	U	160	4	U	5	U	32000		10	U
Alluvial Well 16-2656																			
16-2656	0316-97-0477	Filtered	12/19/97	WGA	100	U	20	U	4	U	3100	4	U	5	U	19000		10	U
16-2656	0316-97-0483	Unfiltered	12/19/97	WGA	28000		20	U	9		4300	4	U	5	U	21000		30	U
Alluvial Well 16-1658																			
16-2658	0316-97-0479	Filtered	12/22/97	WGA	100	U	20	U	4	U	12000	4	U	5	U	16000		10	U
16-2658	0316-97-0485	Unfiltered	12/22/97	WGA	19000		NA		4	U	16000	4	U	5	U	19000		40	U
Alluvial Well 16-2659																			
16-2659	0316-97-0480	Filtered	12/22/97	WGA	100	U	20	U	4	U	5000	4	U	5	U	16000		10	U
16-2659	0316-97-0486	Unfiltered	12/22/97	WGA	20000		20	U	4	U	6800	4	U	5	U	17000		20	U

NOTES:

All seep water samples are grab samples collected according to LANL-ER-SOP-6.13, Surface Water Sampling.
All alluvium well water samples are grab samples collected using a bailer.
Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

WGS = Groundwater, Spring
WGA = Groundwater, Alluvial Well
NA = Not analyzed

Explanation of data qualifier flags:

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UJ = The compound was analyzed for but was not detected. The associated numerical value is the estimated detection limit.
J = The reported value is an estimated quantity.

TABLE CDV-260-8

Canon de Valle Seep and Alluvium Well Water Samples:

Inorganic Chemical Results

Location ID	Sample ID	Field Preparation	Collection Date	Media Code	Cobalt (UG/L)		Copper (UG/L)		Cyanide, Total (UG/L)		Iron (UG/L)		Lead (UG/L)		Magnesium (UG/L)		Manganese (UG/L)		Mercury (UG/L)	
Peter Seep																				
16-2653	0316-97-3024	Filtered	6/27/97	WGS	0.95	U	0.9	U	NA		265		1.6	U	4750	J	2.2	J	0.02	U
16-2653	0316-97-3025	Unfiltered	6/27/97	WGS	0.9	U	0.9	U	NA		415		1.6	U	4830	J	3.2	J	0.02	U
16-2653	0316-97-3106	Unfiltered	9/19/97	WGS	20	U	20	U	NA		610		5	J	4800		10	U	0.2	U
16-2653	0316-97-3107	Filtered	9/19/97	WGS	20	U	20	U	NA		280		3	J	4800		10	U	0.2	U
Fish Ladder Seep																				
16-2654	0316-97-3102	Unfiltered	9/19/97	WGS	20	U	20	U	NA		6600		3	J	4000		3200		0.2	U
16-2654	0316-97-3103	Filtered	9/19/97	WGS	20	U	20	U	NA		1100		1	UJ	4200		2700		0.2	U
Alluvial Well 16-2655																				
16-2655	0316-97-0476	Filtered	12/19/97	WGA	20	U	20	U	10	U	100	U	2		6600	U	710		0.2	U
16-2655	0316-97-0482	Unfiltered	12/22/97	WGA	20	U	20	U	10	U	5800	U	5		7800	U	740		0.2	U
Alluvial Well 16-2656																				
16-2656	0316-97-0477	Filtered	12/19/97	WGA	20	U	20	U	10	U	50	U	1		5000	U	210		0.2	U
16-2656	0316-97-0483	Unfiltered	12/19/97	WGA	20	U	20	U	10	U	30000	U	38		7400	U	1400		2	U
Alluvial Well 16-1658																				
16-2658	0316-97-0479	Filtered	12/22/97	WGA	20	U	20	U	10	U	750	U	1	U	4700	U	1300		0.2	U
16-2658	0316-97-0485	Unfiltered	12/22/97	WGA	20	U	20	U	10	U	16000	U	59		7000	U	1800		0.2	U
Alluvial Well 16-2659																				
16-2659	0316-97-0480	Filtered	12/22/97	WGA	20	U	20	U	10	U	60	U	1	U	4600	U	10		0.2	U
16-2659	0316-97-0486	Unfiltered	12/22/97	WGA	20	U	20	U	10	U	18000	U	15		6700		880	U	0.2	U

NOTES:

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WGS = Groundwater, Spring
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UJ = The compound was analyzed for but was not detected. The associated numerical value is the estimated detection limit.
J = The reported value is an estimated quantity.

TABLE CDV-260-8

Canon de Valle Seep and Alluvium Well Water Samples:

Inorganic Chemical Results

Location ID	Sample ID	Field Preparation	Collection Date	Media Code	Nickel (UG/L)		Nitrogen, Nitrate + Nitrite (Expressed as N) (UG/L)		Potassium (UG/L)		Selenium (UG/L)		Silver (UG/L)		Sodium (UG/L)		Thallium (UG/L)		Vanadium (UG/L)	
Peter Seep																				
16-2653	0316-97-3024	Filtered	6/27/97	WGS	1.4	U	NA		3150	J	2.7	U	1.2	U	19000		2.2	U	2.4	J
16-2653	0316-97-3025	Unfiltered	6/27/97	WGS	2.2	U	NA		3190	J	2.7	U	1.2	UJ	19000		2.2	U	2.8	J
16-2653	0316-97-3106	Unfiltered	9/19/97	WGS	40	U	NA		3000		4	UJ	10	U	14000	U	5	U	10	U
16-2653	0316-97-3107	Filtered	9/19/97	WGS	40	U	NA		2000		4	U	10	U	15000	U	5	U	10	U
Fish Ladder Seep																				
16-2654	0316-97-3102	Unfiltered	9/19/97	WGS	40	U	NA		3000		4	UJ	10	U	7700	U	5	U	10	U
16-2654	0316-97-3103	Filtered	9/19/97	WGS	40	U	NA		2000		4	UJ	10	U	8200	U	5	U	10	U
Alluvial Well 16-2655																				
16-2655	0316-97-0476	Filtered	12/19/97	WGA	40	U	850		9000		6	U	10	U	190000		5	U	10	U
16-2655	0316-97-0482	Unfiltered	12/22/97	WGA	40	U	1100		9000		8	U	10	U	170000		5	U	10	
Alluvial Well 16-2656																				
16-2656	0316-97-0477	Filtered	12/19/97	WGA	40	U	1700		3000		4	U	10	U	19000		5	U	10	U
16-2656	0316-97-0483	Unfiltered	12/19/97	WGA	40	U	2100		10000		4	U	10	U	21000		5	U	30	
Alluvial Well 16-1658																				
16-2658	0316-97-0479	Filtered	12/22/97	WGA	40	U	NA		2000		4	U	10	U	19000		5	U	10	U
16-2658	0316-97-0485	Unfiltered	12/22/97	WGA	40	U	50	U	6000		4	U	10	U	22000		5	U	10	
Alluvial Well 16-2659																				
16-2659	0316-97-0480	Filtered	12/22/97	WGA	40	U	320		3000		4	U	10	U	17000		5	U	10	U
16-2659	0316-97-0486	Unfiltered	12/22/97	WGA	40	U	320		6000		4	U	10	U	17000		5	U	20	

NOTES:

All seep water samples are grab samples collected according to LANL-ER-SOP-6.13, Surface Water Sampling.
All alluvium well water samples are grab samples collected using a bailer.
Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

WGS = Groundwater, Spring
WGA = Groundwater, Alluvial Well
NA = Not analyzed

Explanation of data qualifier flags:

U = The compound was analyzed for but was not detected. The associated numerical value is the detection limit.
UJ = The compound was analyzed for but was not detected. The associated numerical value is the estimated detection limit.
J = The reported value is an estimated quantity.

TABLE CDV-260-8

Canon de Valle Seep and Alluvium Well Water Samples:

Inorganic Chemical Results

Location ID	Sample ID	Field Preparation	Collection Date	Media Code	Zinc (UG/L)	
Peter Seep						
16-2653	0316-97-3024	Filtered	6/27/97	WGS	0.9	U
16-2653	0316-97-3025	Unfiltered	6/27/97	WGS	0.9	U
16-2653	0316-97-3106	Unfiltered	9/19/97	WGS	50	J
16-2653	0316-97-3107	Filtered	9/19/97	WGS	20	UJ
Fish Ladder Seep						
16-2654	0316-97-3102	Unfiltered	9/19/97	WGS	40	J
16-2654	0316-97-3103	Filtered	9/19/97	WGS	50	J
Alluvial Well 16-2655						
16-2655	0316-97-0476	Filtered	12/19/97	WGA	40	U
16-2655	0316-97-0482	Unfiltered	12/22/97	WGA	40	U
Alluvial Well 16-2656						
16-2656	0316-97-0477	Filtered	12/19/97	WGA	20	U
16-2656	0316-97-0483	Unfiltered	12/19/97	WGA	140	U
Alluvial Well 16-1658						
16-2658	0316-97-0479	Filtered	12/22/97	WGA	20	U
16-2658	0316-97-0485	Unfiltered	12/22/97	WGA	170	U
Alluvial Well 16-2659						
16-2659	0316-97-0480	Filtered	12/22/97	WGA	20	U
16-2659	0316-97-0486	Unfiltered	12/22/97	WGA	70	U

NOTES:

All seep water samples are grab samples collected according to LANL-ER-SOP-6.13, Surface Water Sampling.
All alluvium well water samples are grab samples collected using a bailer.
Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

WGS = Groundwater, Spring
WGA = Groundwater, Alluvial Well
NA = Not analyzed

Explanation of data qualifier flags:

U = The compound was analyzed for but was not detected. The associated numerical value is the detection limit.
UJ = The compound was analyzed for but was not detected. The associated numerical value is the estimated detection limit.
J = The reported value is an estimated quantity.

TABLE CDV-260-9

Canon de Valle Seep and Alluvium Well Water Samples:

Water Quality Parameters

Location ID	Sample ID	Field Preparation	Collection Date	Media Code	Alkalinity, Total (Methyl Orange [pH=4.5] end point) (UG/L)	Boron (UG/L)		Bromide (UG/L)		Calcium (UG/L)	Chloride (UG/L)	Conductivity (UMHOS)
Peter Seep												
16-2653	0316-97-3026	Filtered	6/27/97	WGS	65000	87.1	J	200	U	18000	16000	229
16-2653	0316-97-3027	Unfiltered	6/27/97	WGS	65000	38.4	J	200	U	18800	16000	229
16-2653	0316-97-3106	Unfiltered	9/19/97	WGS	75000	NA		2000	U	NA	22000	240
16-2653	0316-97-3107	Filtered	9/19/97	WGS	77000	NA		2000	U	NA	24000	220
Fishladder Seep												
16-2654	0316-97-3102	Unfiltered	9/19/97	WGS	84000	NA		2000		NA	4000	180
16-2654	0316-97-3103	Filtered	9/19/97	WGS	92000	NA		2000	U	NA	4000	170
Alluvial Well 16-2655												
16-2655	0316-97-0476	Filtered	12/19/97	WGA	NA	NA		4000	U	NA	35000	NA
16-2655	0316-97-0482	Unfiltered	12/22/97	WGA	NA	NA		2000		NA	36000	NA
Alluvial Well 16-2656												
16-2656	0316-97-0477	Filtered	12/19/97	WGA	NA	NA		2000	U	NA	14000	NA
16-2656	0316-97-0483	Unfiltered	12/19/97	WGA	NA	NA		4000	U	NA	15000	NA
Alluvial Well 16-2658												
16-2658	0316-97-0479	Filtered	12/22/97	WGA	NA	NA		4000	U	NA	11000	NA
16-2658	0316-97-0485	Unfiltered	12/22/97	WGA	NA	NA		2000	U	NA	11000	NA
Alluvial Well 16-2659												
16-2659	0316-97-0480	Filtered	12/22/97	WGA	NA	NA		8000	U	NA	13000	NA
16-2659	0316-97-0486	Unfiltered	12/22/97	WGA	NA	NA		4000	U	NA	15000	NA

NOTES:

All seep water samples are grab samples collected according to LANL-ER-SOP-6.13, Surface Water Sampling.
All alluvium well water samples are grab samples collected using a bailer. Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

WGS = Groundwater, Spring
WGA = Groundwater, Alluvial Well
NA = Not analyzed
UMHOS = Micromhos
SU = Standard unit
NTU = Nephelometric Turbidity Unit

Explanation of data qualifier flags:

U = The compound was analyzed for but was not detected. The associated numerical value is the detection limit.
J = The reported value is an estimated quantity.

TABLE CDV-260-9

Canon de Valle Seep and Alluvium Well Water Samples:

Water Quality Parameters

Location ID	Sample ID	Field Preparation	Collection Date	Media Code	Fluoride (UG/L)		pH (SU)	Potassium (UG/L)		Silicon (UG/L)	Sodium (UG/L)	Solids, Total Dissolved (UG/L)	Solids, Total Suspended (UG/L)		Sulfate (UG/L)	Turbidity (NTU)
Peter Seep																
16-2653	0316-97-3026	Filtered	6/27/97	WGS	300		NA	3120	J	20300	18700	180000	40000	U	10000	6.5
16-2653	0316-97-3027	Unfiltered	6/27/97	WGS	300		NA	3240	J	18700	19300	180000	40000	U	10000	6.6
16-2653	0316-97-3106	Unfiltered	9/19/97	WGS	300		7	NA		18000	NA	160000	6000	U	12000	9.5
16-2653	0316-97-3107	Filtered	9/19/97	WGS	300		7.05	NA		18000	NA	170000	5000	U	13000	5.7
Fishladder Seep																
16-2654	0316-97-3102	Unfiltered	9/19/97	WGS	200		6.91	NA		16000	NA	150000	160000		8000	19
16-2654	0316-97-3103	Filtered	9/19/97	WGS	200		6.92	NA		16000	NA	140000	5000	U	9000	4.3
Alluvial Well 16-2655																
16-2655	0316-97-0476	Filtered	12/19/97	WGA	600		NA	NA		NA	NA	NA	NA		60000	NA
16-2655	0316-97-0482	Unfiltered	12/22/97	WGA	400		NA	NA		NA	NA	NA	NA		23000	NA
Alluvial Well 16-2656																
16-2656	0316-97-0477	Filtered	12/19/97	WGA	100		NA	NA		NA	NA	NA	NA		11000	NA
16-2656	0316-97-0483	Unfiltered	12/19/97	WGA	100		NA	NA		NA	NA	NA	NA		19000	NA
Alluvial Well 16-2658																
16-2658	0316-97-0479	Filtered	12/22/97	WGA	100	U	NA	NA		NA	NA	NA	NA		8000	NA
16-2658	0316-97-0485	Unfiltered	12/22/97	WGA	100	U	NA	NA		NA	NA	NA	NA		10000	NA
Alluvial Well 16-2659																
16-2659	0316-97-0480	Filtered	12/22/97	WGA	100	U	NA	NA		NA	NA	NA	NA		10000	NA
16-2659	0316-97-0486	Unfiltered	12/22/97	WGA	100	U	NA	NA		NA	NA	NA	NA		13000	NA

NOTES:

All seep water samples are grab samples collected according to LANL-ER-SOP-6.13, Surface Water Sampling.
All alluvium well water samples are grab samples collected using a bailer. Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

WGS = Groundwater, Spring
WGA = Groundwater, Alluvial Well
NA = Not analyzed
UMHOS = Micromhos
SU = Standard unit
NTU = Nephelometric Turbidity Unit

Explanation of data qualifier flags:

U = The compound was analyzed for but was not detected. The associated numerical value is the detection limit.
J = The reported value is an estimated quantity.

TABLE CDV-260-10

Canon de Valle Seep and Alluvium Well Water Samples:

Organic Chemical Results

Location ID	Sample ID	Field Preparation	Collection Date	Media Code	Acetone (UG/L)		Amino-2,6-dinitrotoluene[4-] (UG/L)		Amino-4,6-dinitrotoluene[2-] (UG/L)		Dichloroethene [cis-1,2-] (UG/L)		HMX (UG/L)		Nitrobenzene (UG/L)	
Peter Seep																
16-2653	0316-97-3024	Filtered	6/27/97	WGS	NA		0.534		0.211		NA		0.754		0.054	U
16-2653	0316-97-3025	Unfiltered	6/27/97	WGS	22	U	0.559		0.196		5	U	0.825		0.054	U
16-2653	0316-97-3106	Unfiltered	9/19/97	WGS	31		0.75		0.28		10	U	1.8		1	U
16-2653	0316-97-3107	Filtered	9/19/97	WGS	NA		0.75		0.3		NA		1.8		1	U
Fishladder Seep																
16-2654	0316-97-3102	Unfiltered	9/19/97	WGS	40		0.25	U	0.25	U	19		1	U	1	U
16-2654	0316-97-3103	Filtered	9/19/97	WGS	NA		0.25	U	0.25	U	NA		1	U	1	U
Alluvial Well 16-2655																
16-2655	0316-97-0476	Filtered	12/19/97	WGA	41		0.39	U	NA		10	U	1.7	U	0.2	U
16-2655	0316-97-0482	Unfiltered	12/22/97	WGA	20	U	0.39	U	NA		10	U	1.7	U	0.2	U
Alluvial Well 16-2656																
16-2656	0316-97-0477	Filtered	12/19/97	WGA	20	U	0.39	U	NA		10	U	1.7	U	0.2	U
16-2656	0316-97-0483	Unfiltered	12/19/97	WGA	20	U	0.39	U	NA		10	U	1.7	U	0.2	U
Alluvial Well 16-2658																
16-2658	0316-97-0479	Filtered	12/22/97	WGA	20	U	0.25	U	0.25	U	10	U	5.3		1	J-
16-2658	0316-97-0485	Unfiltered	12/22/97	WGA	20	U	0.25	U	0.25	U	10	U	2.4		1	J-
Alluvial Well 16-2659																
16-2659	0316-97-0480	Filtered	12/22/97	WGA	28	U	3.6		3.2		10	U	21		5	J-
16-2659	0316-97-0486	Unfiltered	12/22/97	WGA	27	U	4.9		4.9		10	U	19		5	UJ-

NOTES:

All seep water samples are grab samples collected according to LANL-ER-SOP-6.13, Surface Water Sampling.
All alluvium well water samples are grab samples collected using a bailer. Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

WGS = Groundwater, Spring
WGA = Groundwater, Alluvial Well
NA = Not analyzed

Explanation of data qualifier flags:

U = The compound was analyzed for but was not detected. The associated numerical value is the quantitation limit.
UJ = The compound was analyzed for but was not detected. The associated numerical value is the estimated quantitation limit.
J = The reported value is an estimated quantity.
J- = The analyte was positively identified, and the result is likely biased low.

TABLE CDV-260-10

Canon de Valle Seep and Alluvium Well Water Samples:

Organic Chemical Results

Location ID	Sample ID	Field Preparation	Collection Date	Media Code	RDX (UG/L)		Trinitrotoluene [2,4,6-] (UG/L)	
Peter Seep								
16-2653	0316-97-3024	Filtered	6/27/97	WGS	5.4		0.051	
16-2653	0316-97-3025	Unfiltered	6/27/97	WGS	4.64		0.05	U
16-2653	0316-97-3106	Unfiltered	9/19/97	WGS	9.8		0.9	
16-2653	0316-97-3107	Filtered	9/19/97	WGS	9.5		1.3	
Fishladder Seep								
16-2654	0316-97-3102	Unfiltered	9/19/97	WGS	0.84	U	0.25	U
16-2654	0316-97-3103	Filtered	9/19/97	WGS	0.84	U	0.25	U
Alluvial Well 16-2655								
16-2655	0316-97-0476	Filtered	12/19/97	WGA	0.87	U	0.2	U
16-2655	0316-97-0482	Unfiltered	12/22/97	WGA	0.87	U	0.2	U
Alluvial Well 16-2656								
16-2656	0316-97-0477	Filtered	12/19/97	WGA	2.8		0.2	U
16-2656	0316-97-0483	Unfiltered	12/19/97	WGA	1.6		0.2	U
Alluvial Well 16-2658								
16-2658	0316-97-0479	Filtered	12/22/97	WGA	0.84	U	0.25	U
16-2658	0316-97-0485	Unfiltered	12/22/97	WGA	0.84	U	0.25	U
Alluvial Well 16-2659								
16-2659	0316-97-0480	Filtered	12/22/97	WGA	42		1.3	U
16-2659	0316-97-0486	Unfiltered	12/22/97	WGA	48		20	

NOTES:

All seep water samples are grab samples collected according to LANL-ER-SOP-6.13, Surface Water Sampling.
All alluvium well water samples are grab samples collected using a bailer. Water samples were filtered through a 0.45 micron filter using a peristaltic pump.

WGS = Groundwater, Spring
WGA = Groundwater, Alluvial Well
NA = Not analyzed

Explanation of data qualifier flags:

U = The compound was analyzed for but was not detected. The associated numerical value is the quantitation limit.
UJ = The compound was analyzed for but was not detected. The associated numerical value is the estimated quantitation limit.
J = The reported value is an estimated quantity.
J- = The analyte was positively identified, and the result is likely biased low.

Attachment I

Analytical Methods

TABLE 1

Cañon de Valle / TA-16-260 Outfall Water Data Set Analytical Methods

Analytical Suite	Method	Method Description
Organics		
Volatile organic compounds	SW-846 Method 8260	GC/MS[a]
Semivolatile organic compounds	SW-846 Method 8270	GC/MS
High explosives	SW-846 Method 8330	HPLC[b]
Inorganics		
Target analyte list (TAL) metals (excluding Sb, Se, Pb, Tl, and Hg)	SW-846 Methods 3005/3010/6010	ICPES[c]
Sb, Se, Pb, Tl	SW-846 7000-series methods	GFAA[d]
Hg	SW-846 Method 7470	CVAA[e]
CN	SW-846 Method 9010	Colorimetric
Uranium	SW-846 Methods 3052/6020	ICPMS[f]
Total Uranium	SW-846 Method 3052 / ASTM Method D5174-91	KPA[g]
Radionuclides		
Gamma-emitting isotopes	EPA Method 901.1	Gamma spectroscopy
Gross-alpha/-beta radiation	EPA Method 900	GFPC[h]
U-234, U-235, U-238	N/A[i]	Alpha spectrometry
Water Quality Parameters		
Alkalinity	EPA Method 310.2	Titrimetric
Bicarbonate, Carbonate	N/A	Titrimetric
Anions (major and minor)	EPA Method 300	IC[j]
Cations (minor)	SW-846 Methods 3005/3010/6010	ICPES
Conductivity	EPA Method 120.1	Conductance
pH	EPA Method 150.1	Potentiometry
Nitrate + Nitrite	EPA Method 353.2	Hydrazine reduction
Total Dissolved Solids	EPA Method 160.1	Gravimetric
Total Suspended Solids	EPA Method 160.2	Gravimetric
Turbidity	EPA Method 180.1	Nephelometric

a. GC/MS = gas chromatography/mass spectrometry
b. HPLC = high performance liquid chromatography
c. ICPES = inductively coupled plasma emission spectroscopy
d. GFAA = graphite furnace atomic absorption
e. CVAA = cold vapor atomic absorption
f. ICPMS = inductively coupled plasma mass spectrometry
g. KPA = kinetic phosphorescence analysis
h. GFPC = gas flow proportional counting
i. N/A = not applicable
j. IC = ion chromatography

Attachment II

Maps

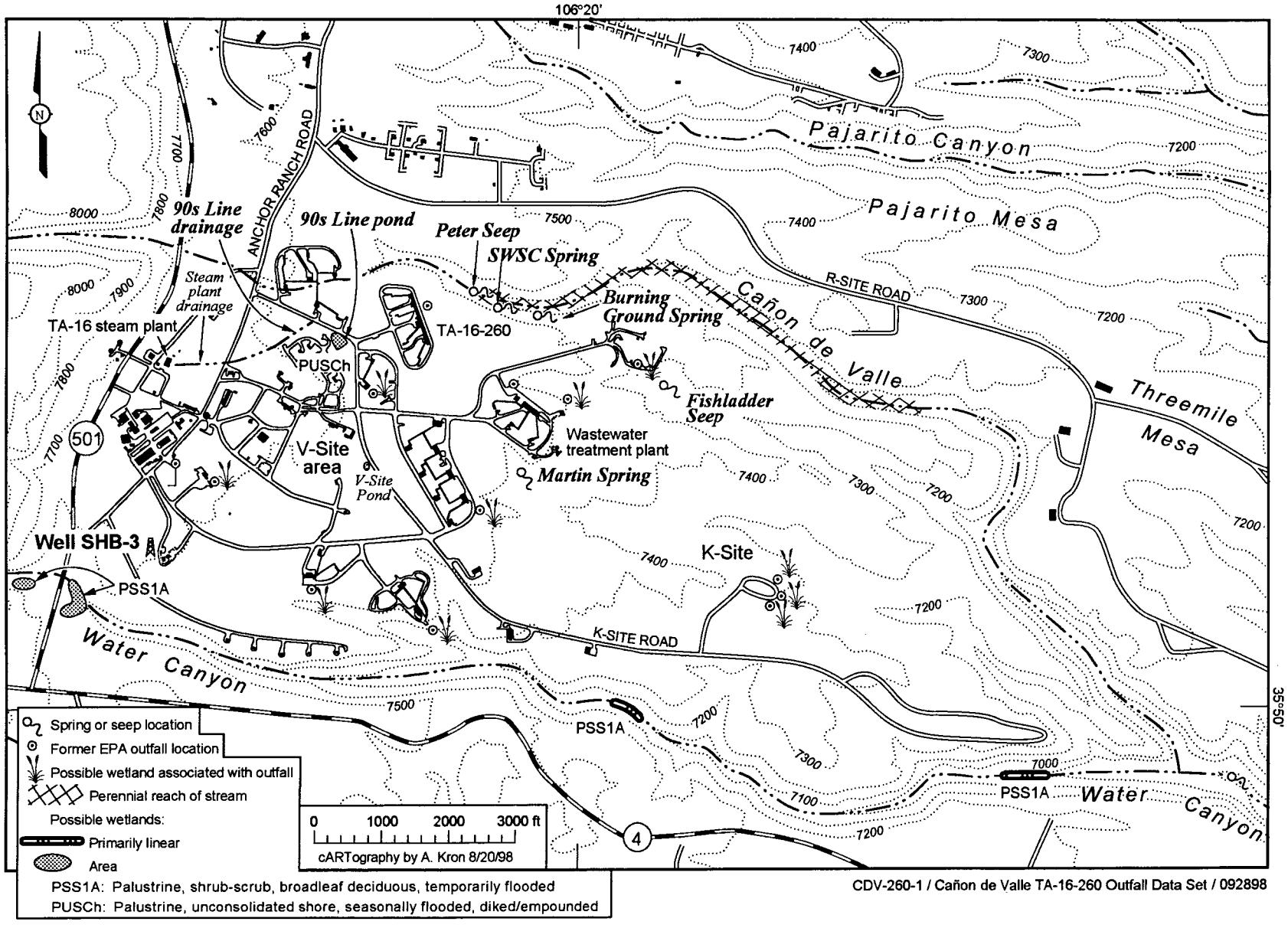
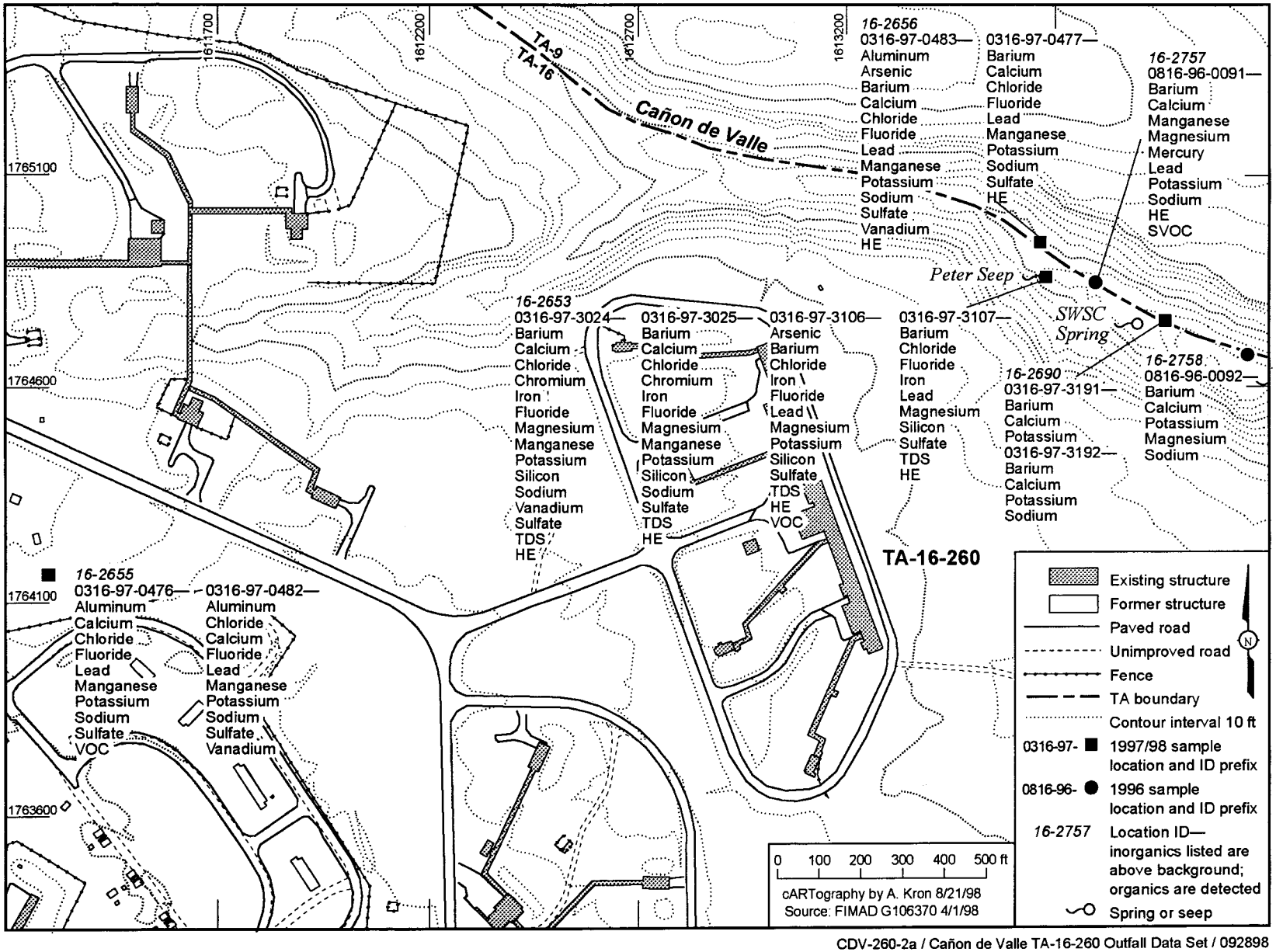
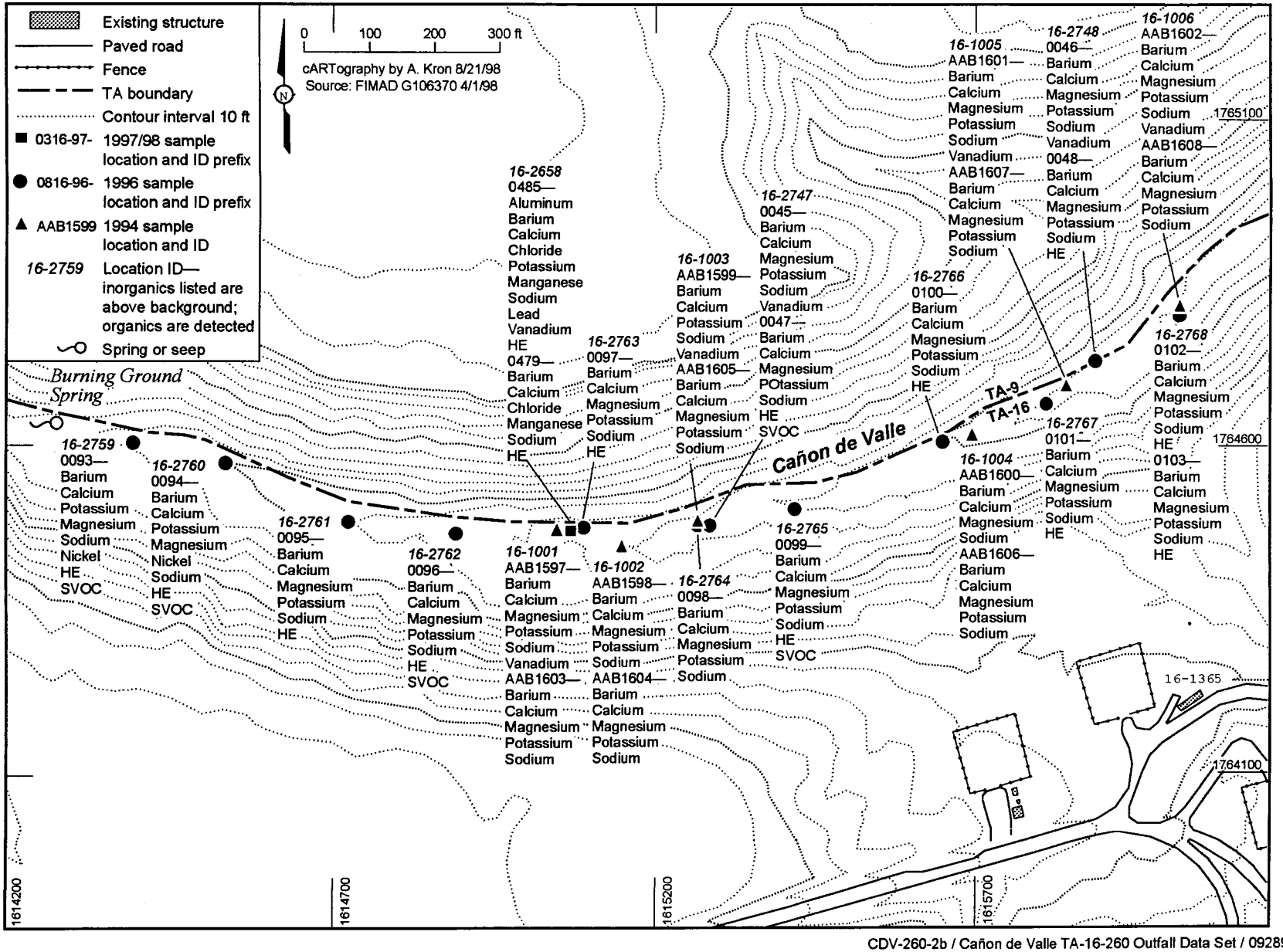


Figure CDV-260-1. Cañon de Valle springs sampling locations.



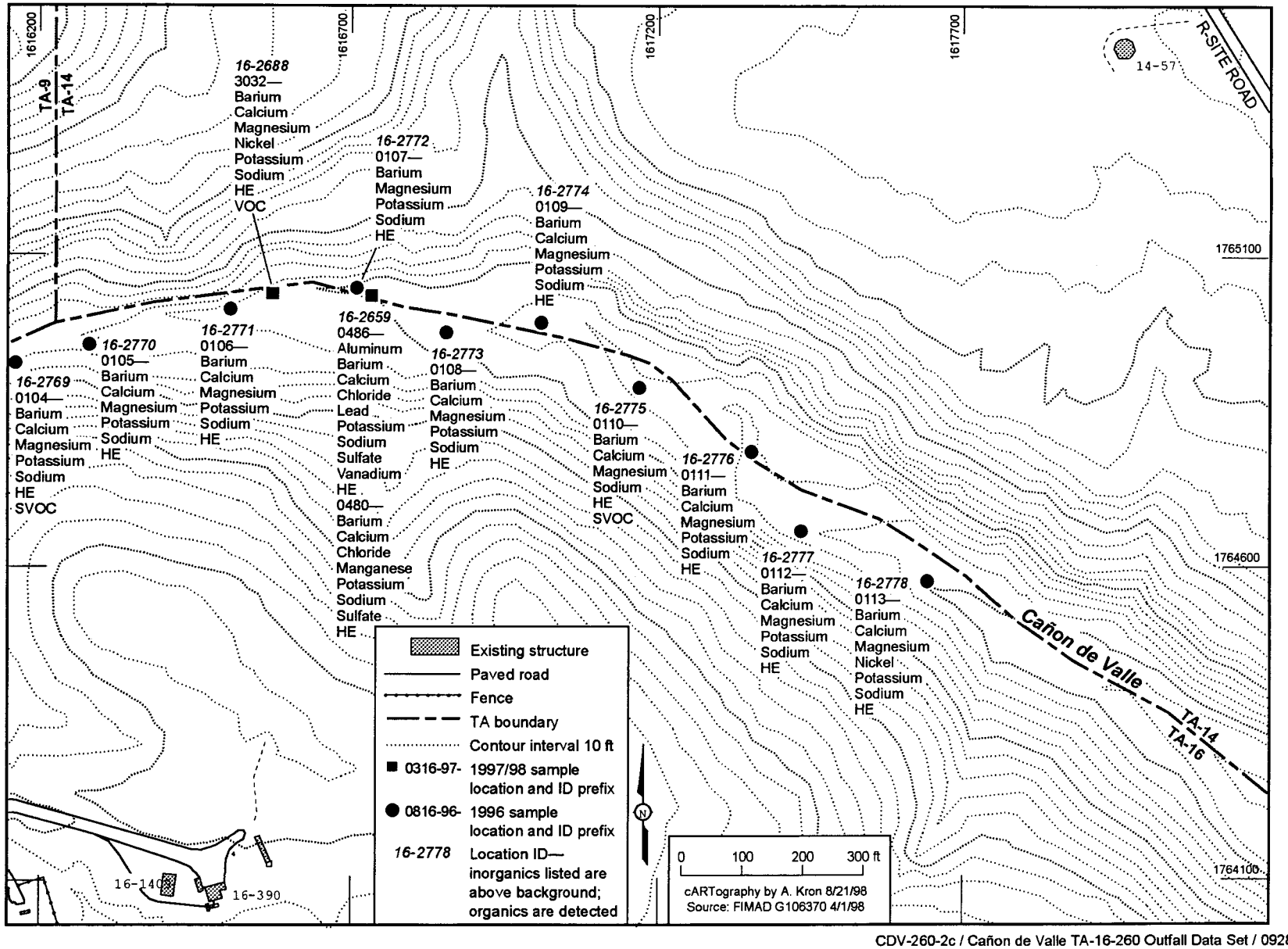
CDV-260-2a / Cañon de Valle TA-16-260 Outfall Data Set / 092898

Figure CDV-260-2a. Cañon de Valle surface water, alluvium wells, and seeps sampling locations showing potential contaminants.



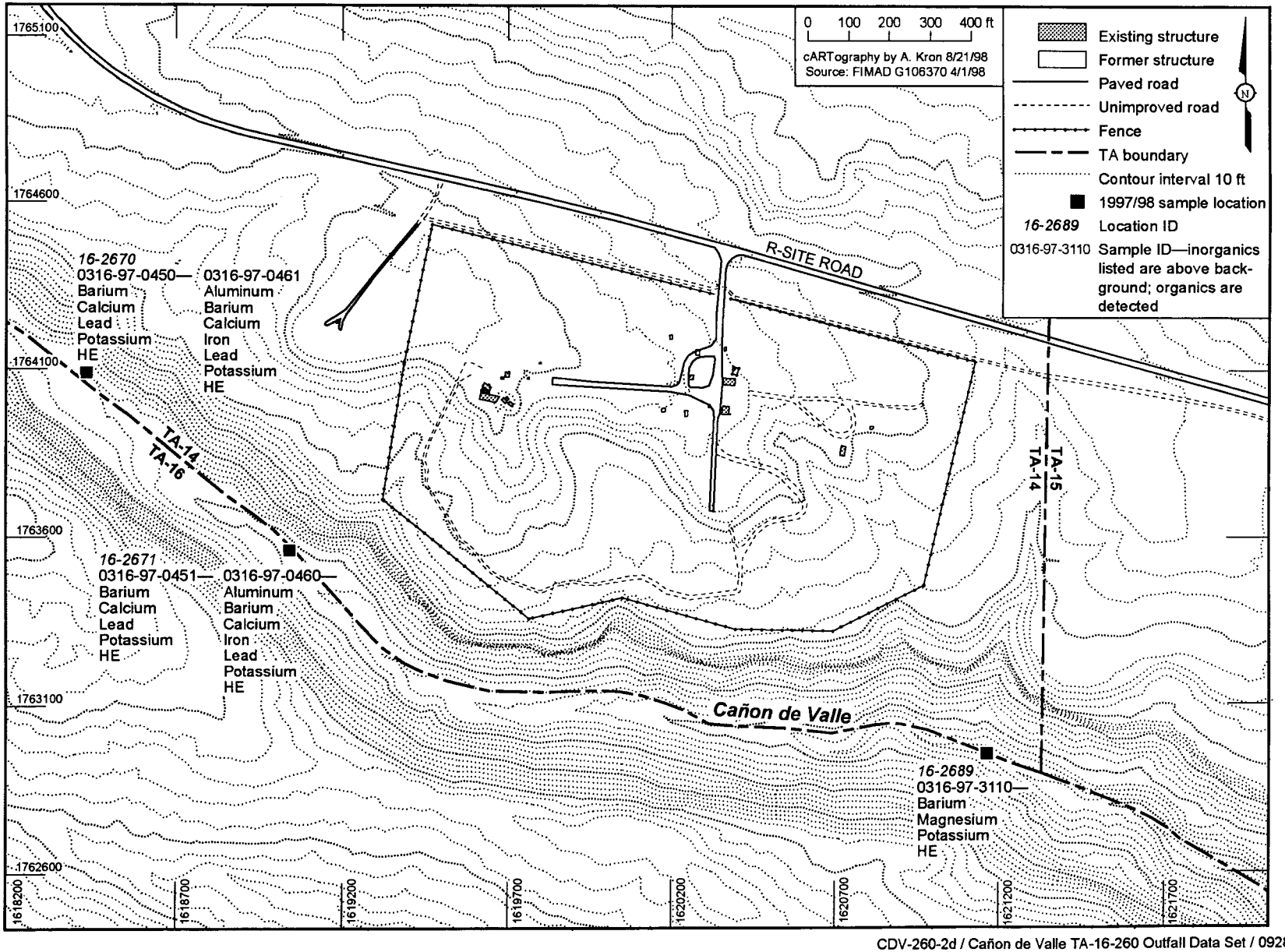
CDV-260-2b / Cañon de Valle TA-16-260 Outfall Data Set / 092898

Figure CDV-260-2b. Cañon de Valle surface water, alluvium wells, and seeps sampling locations showing potential contaminants.



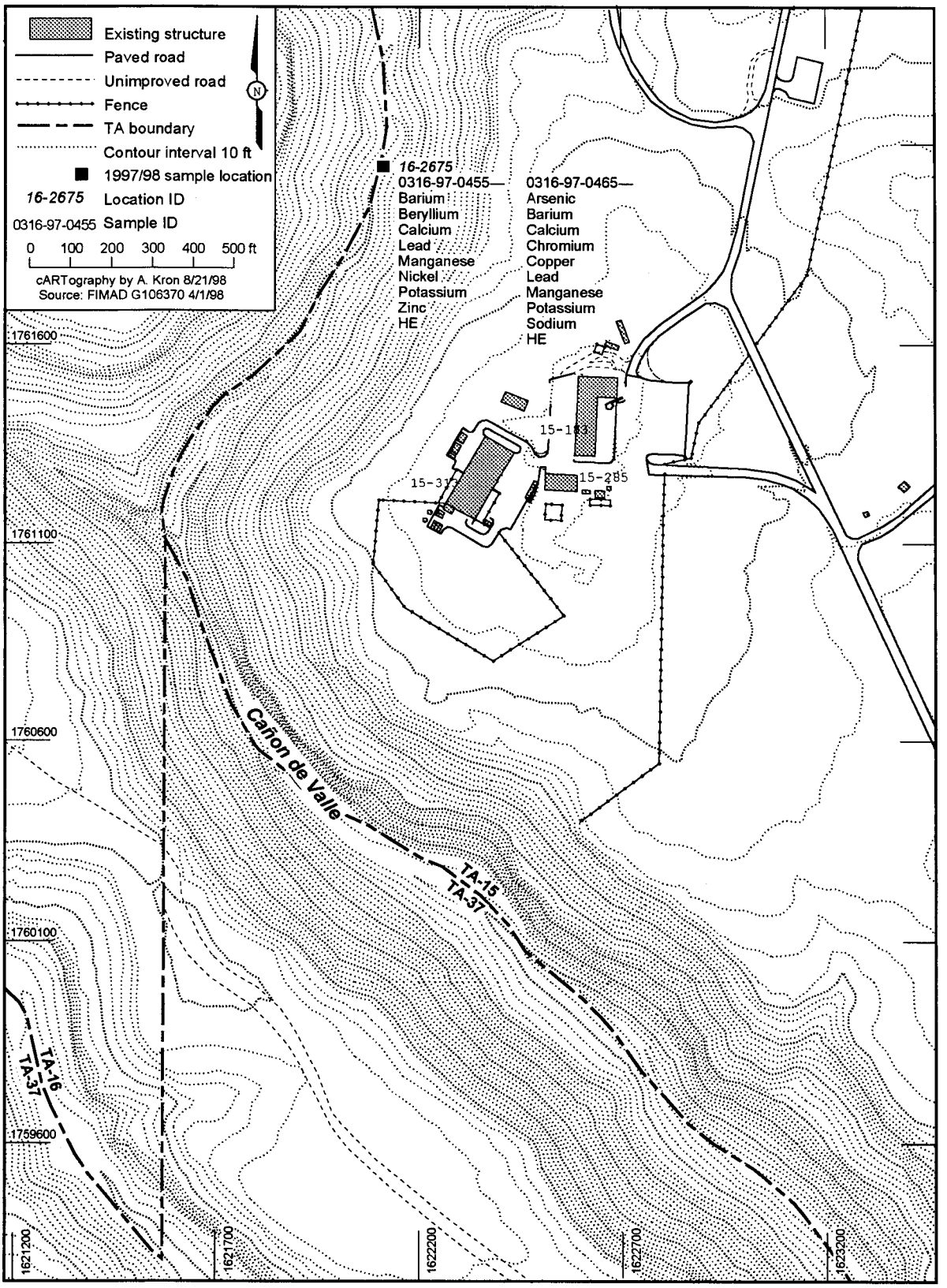
CDV-260-2c / Cañon de Valle TA-16-260 Outfall Data Set / 092898

Figure CDV-260-2c. Cañon de Valle surface water, alluvium wells, and seeps sampling locations showing potential contaminants.



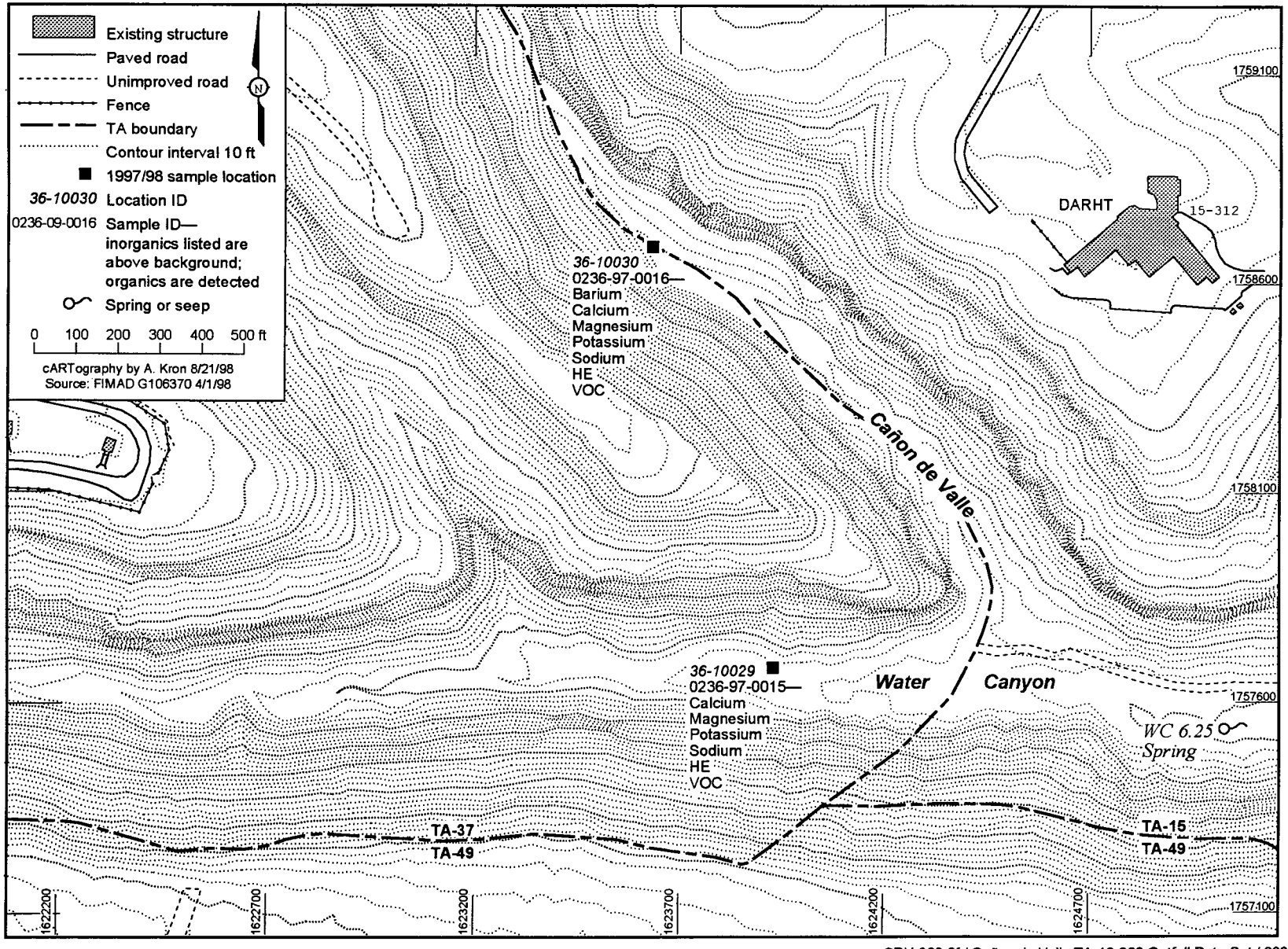
CDV-260-2d / Cañon de Valle TA-16-260 Outfall Data Set / 092898

Figure CDV-260-2d. Cañon de Valle surface water, alluvium wells, and seeps sampling locations showing potential contaminants.



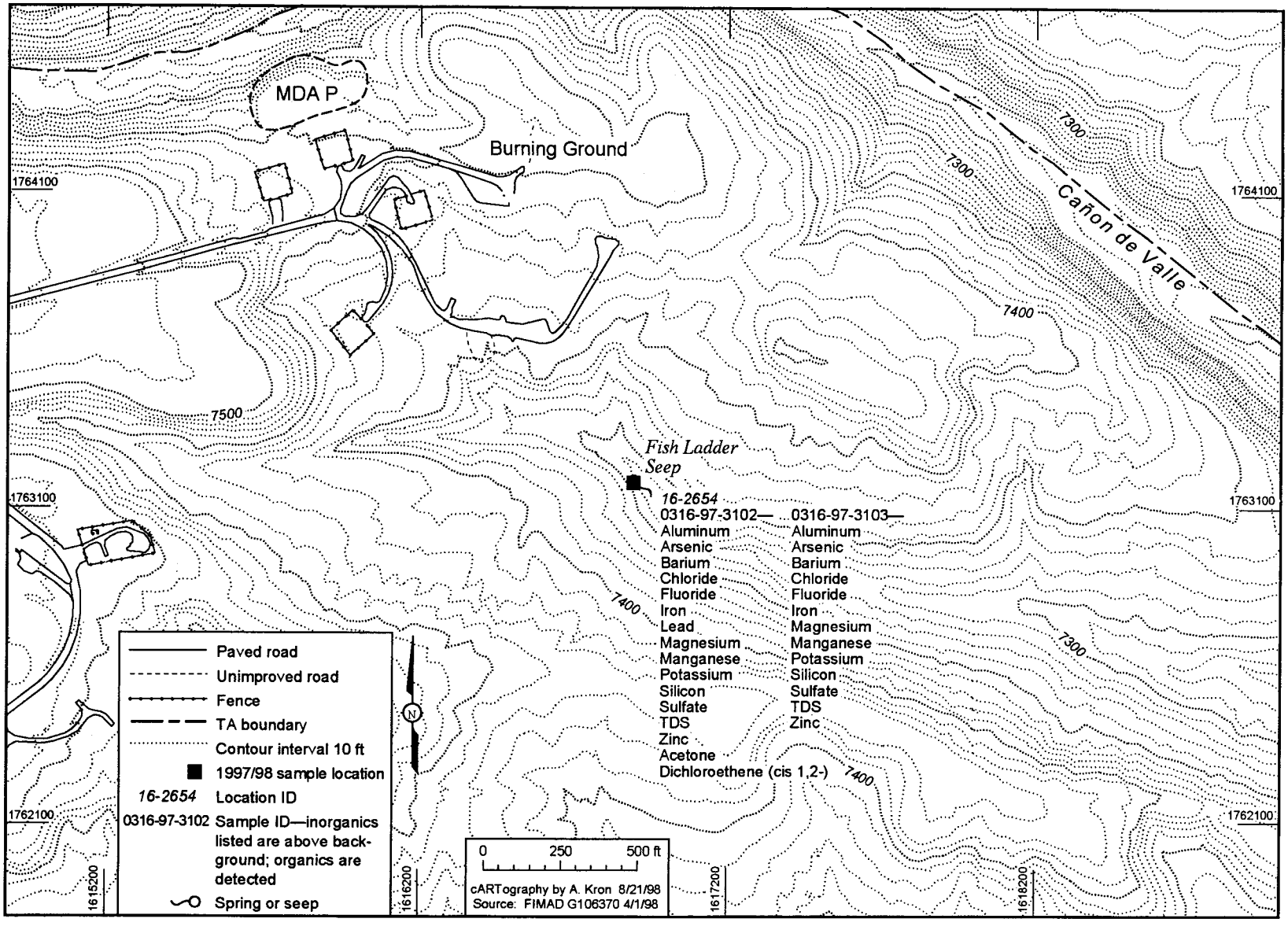
CDV-260-2e / Cañon de Valle TA-16-260 Outfall Data Set / 092898

Figure CDV-260-2e. Cañon de Valle surface water, alluvium wells, and seeps sampling locations showing potential contaminants.



CDV-260-2f / Cañon de Valle TA-16-260 Outfall Data Set / 092898

Figure CDV-260-2f. Cañon de Valle surface water, alluvium wells, and seeps sampling locations showing potential contaminants.



CDV-260-2g / Cañon de Valle TA-16-260 Outfall Data Set / 092898

Figure CDV-260-2g. Cañon de Valle surface water, alluvium wells, and seeps sampling locations showing potential contaminants.