*1993 to 1995 Environmental Surveillance Data
Collected at or Near Area G*

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*Ken Mullen
Scott Collins
David Rogers*

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Los Alamos, New Mexico 87545

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1993 TO 1995 ENVIRONMENTAL SURVEILLANCE DATA COLLECTED AT OR NEAR AREA G

by

Ken Mullen, Scott Collins, and David Rogers

ABSTRACT

This report summarizes Environmental Surveillance data collected by the Water Quality and Hydrology Group during 1993, 1994, and 1995 at or in the vicinity of TA-54, Area-G. The summary includes radiochemical, metals, general inorganic, and organic analytical results. The tables list measured concentrations (or detection limits for results below detection limits), analytical uncertainties for radiochemical data, sample locations, and sample dates. A map showing sample locations is also included. Preparation of this report was funded by the Solid Waste Management Group (CST-14) in support of the Waste Management Program.

I. SAMPLE COLLECTION AND ANALYTICAL METHODS

3051 use microwave digestion, but 3005 and 3050 use a steam bath.

A. Metals Analysis

Water samples are preserved in the field with nitric acid. For the period covered by this report none of the water samples were filtered in the field or in the lab. The results reported represent total concentrations. Metals were analyzed by the Chemical Science and Technology Division (CST) using SW-846 methods. From September of 1992 through the spring of 1994, SW-846 digestion method 3050 was used for sediments and 3005 was used for waters. After the spring of 1994, digestion method 3051 was used for sediments and 3015 was used for waters. The methods are considered equivalent. Methods 3015 and

B. Radiochemical Analysis

Water samples submitted for radiochemical analyses are preserved in the field by adding nitric acid to lower the pH of the sample to 2 or less. The samples are filtered shortly after they are received by the analytical lab. After filtering, the sample is digested before analysis. Sediment samples are screened through a Number 12 US Standard Testing sieve before digestion. This sieve screens out materials larger than 1.7 mm (0.066 in.). Both water and sediment samples are completely digested in a mixture of nitric and hydrofluoric acids.

Radiochemical analyses were performed according to methods described in "Health and Environmental Chemistry: Analytical Techniques, Data Management and Quality Assurance," M. Gautier(editor), Los Alamos National Laboratory Report, LA-10300-M, Vol. II (1986, revised 1995).

II. DESCRIPTION OF DATA

The following tables are organized by the type of analyses—radiological, metals, general inorganics, and organics. Locations are grouped by groundwater, surface water, and sediments.

Organic results are reported for analytes measured above the limit of quantitation. In all cases where organics were detected, the same analyte was also found in the blank, or the analyte is a common analytical laboratory contaminant.

*Environmental Surveillance Sediment Stations Located
Near TA-54, Area G*

*Environmental Surveillance Sampling Stations Located
Near TA-54, Area G*

Area-G General Inorganic Analysis

General Inorganic Analysis of Ground Waters for 1993, 1994, 1995 (mg/L)																		
Matrix	Station Name	Date	Code	SiO ₂	Ca	Mg	K	Na	Cl	F	PALK ^a	TALK ^b	PO ₄ -P	SO ₄	NO ₃ -N	CN	TDS ^c	pH ^d
GW	CDBO-6	12/8/93		55	42	21	22	30	12	0.2	< 5	67	0.4	8	0.04	< 0.01	192	7.1
GW	CDBO-6	8/7/94		53	13	5.1	7	21	13	0.2	< 5	66	0.6	9	0.12	< 0.01	196	7
GW	CDBO-6	3/30/95													< 0.04			
GW	CDBO-6	6/28/95													0.07			
GW	CDBO-6	6/28/95	R1												0.07			
GW	CDBO-6	8/14/95		57	17	6.5	8.4	23	10	0.14	< 5	70	0.38	7.7	17	0.05	178	6.92
GW	CDBO-6	8/14/95	R1		15	8.4	12	23		0.13								
GW	CDBO-6	12/21/95													0.31			
GW	CDBO-7	12/8/93		62	28	9.3	10	29	11	0.1	< 5	98	0.1	8	< 0.04	< 0.01	210	7.1
GW	CDBO-7	8/7/94		63	28	12	18	23	7	0.2	< 5	85	0.3	6	0.08	< 0.01	204	6.8
GW	CDBO-7	8/14/95		67	21	11	19	24	8.9	0.15	< 5	75	0.57	6.7	0.23	0.06	196	6.97
GW	CDBO-7	8/14/95	R1	67											0.31			
GW	CDBO-7	8/14/95	d												3.67			
GW	CDBO-7	12/21/95													0.31			
GW	G-1	6/12/95		86	11	0.51	2.2	22	3.9	0.83	< 5	82	< 0.02	5.4	9.9	< 0.01	180	8.29
GW	G-2	6/12/95		76	10	0.53	2.9	31	3.5	0.81	< 5	96	< 0.02	5	3.1	< 0.01	164	8.24
GW	G-6	6/12/95		56	12	2	1.9	13	3.1	0.29	< 5	73	< 0.02	4.3	0.49	< 0.01	90	7.92
GW	G-6	6/12/95	R1	56						0.29	< 5	71						
GW	G-6	7/14/95													0.54		162	
GW	PCO-1	6/7/93		38	18	5.7		27	30	0.2	< 5	74	0.1	11	0.29		166	7.1
GW	PCO-1	6/22/94		35	26	7.6	4	23	51	0.1	< 5	59	0.1	9	2.8	< 0.01	242	6.8
GW	PCO-1	5/20/95		35	12	3.7	3.1	19	24.7	0.14	< 5	54	0.03	8.3	3.42	< 0.01	164	7.54
GW	PCO-2	6/7/93		33	26	8.3		25	43	0.2	< 5	72	0.7	8	< 0.04		200	7
GW	PCO-2	6/22/94		27	67	24	16	28	39	0.2	< 5	80	3.1	12	5	< 0.01	222	7.1
GW	PCO-2	5/20/95		29	16	4.5	2.7	21	27.9	0.16	< 5	70	0.02	6.8	7.6	< 0.01	160	7.54
GW	PCO-3	6/7/93		47	210	48		160	452	0.2	< 5	322	0.4	43	< 0.04		1420	6.7
GW	PCO-3	8/12/94		28	8	2.4	2	4	6	< 0.1	< 5	28	0	5	0.06	< 0.01	11	7
GW	PCO-3	5/20/95		46	56	11	1.7	55	54.5	0.44	< 5	233	0.16	3.3	17.4	< 0.01	296	7.06
GW	PCO-3	5/20/95	R1									229						
GW	PM-1	6/2/93		87	30	7.1	4	22	6	0.3	< 5	110	0	6	0.5		204	8.1
GW	PM-1	12/2/94		77	22	5.9	3	15	3	0.2	< 5	125	0.1	4	0.5	< 0.01	276	7.7
GW	PM-1	6/12/95		87	26	6.4	3.6	17	6.2	0.25	< 5	115	< 0.02	5.8	1.4	< 0.01	206	8.05

^aPALK-Phenolphthalein Alkalinity^bTALK-Total Alkalinity^cTDS-Total Dissolved Solids^dStandard Units

Codes: d-field duplicate

R1-lab replicate

Area-G General Inorganic Analysis (cont)

General Inorganic Analysis of Ground Waters for 1993, 1994, 1995 (mg/L)																		
Matrix	Station Name	Date	Code	SiO ₂	Ca	Mg	K	Na	Cl	F	PALK ^a	TALK ^b	PO ₄ -P	SO ₄	NO ₃ -N	CN	TDS ^c	pH ^d
GW	PM-2	5/19/93		89	9	2.8	2	10	2	0.2	< 1	48	0	3	< 0.04		136	8.2
GW	PM-2	5/24/94		33	9	< 3	< 1	11	2	0.3	< 10	53	< 0	2	1.36	< 0.01	< 158	8
GW	PM-2	6/12/95		98	10	3.4	3	12	2.9	0.26	< 5	55	< 0.02	3.5	0.42	< 0.01	114	8.02
GW	PM-2	6/12/95 d		101	8	3.1	2.2	11	2.9	0.26	< 5	53	< 0.02	3.5	0.49	< 0.01	112	7.99
GW	PM-2	7/14/95													0.43		176	
GW	PM-3	5/19/93		< 100	22	7.3	3	17	7	0.3	2	115	0.1	6	< 0.04		218	8.3
GW	PM-3	6/12/95		89	21	7.1	3	15	6.7	0.3	< 5	107	< 0.02	5.9	0.59	< 0.01	190	8.01
GW	PM-3	6/12/95	R1	90														
GW	PM-3	7/14/95													0.54		254	
GW	PM-4	8/18/93		97	11	3.7	2	13	3	0.3	< 5	58	0	4	0.38		146	8.3
GW	PM-4	5/24/94		29	14	< 3.9	< 2	13	3	0.3	< 10	68	< 0	3	1.84	< 0.01	< 166	8.1
GW	PM-4	6/12/95		91	11	4.1	3.1	14	3.1	0.28	< 5	66	< 0.02	3.7	0.49	< 0.01	132	7.94
GW	PM-5	8/18/93		98	12	4.5	2	14	4	0.3	< 5	73	0	4	0.1		320	7.6
GW	PM-5	5/24/94		36	12	< 4.5	< 1	13	3	0.3	< 10	68	< 0	3	1.5	< 3.6	< 170	7.8
GW	PM-5	6/12/95		93	11	4.5	2	12	3.6	0.26	< 5	67	0.02	3.9	0.4	< 0.01	146	8.02
GW	Sandia Spring	10/12/93		39	49	4.3	3	15	5	0.5	< 5	156	< 0	5	< 0.04	< 0.01	210	8.3
GW	Sandia Spring	9/27/94		47	26	1.6	3	14	4	0.5	< 5	115	0	7	0.37	< 0.01	114	8
GW	Sandia Spring	9/11/95		46	51	16	6.4	8.4	5.82	0.51	< 5	118	5.1	8.55	< 0.04	< 0.01	226	7.7
GW	Sandia Spring	9/11/95	R1							0.52								
GW	Spring 1	10/12/93		35	28	4.7	5	33	6	0.5	< 5	110	0	9	< 0.04	< 0.01	128	7.8
GW	Spring 1	9/27/94		34	36	4.7	5	31	4	0.6	< 5	118	< 0	7	0.24	< 0.01	138	8.4
GW	Spring 1	6/5/95	~1/2 gpm	31.458	15.9	1.48	2.13	29.5	2.8	0.57	0	99.1	< 0.02	6.94	0.35708	< 0.01	241	7.88
GW	Spring 2	10/12/93		37	51	11	5	58	5	1.2	< 5	175	2.3	8	< 0.04	< 0.01	224	7.8
GW	Spring 2	9/27/94		38	37	4.7	5	59	5	1.2	< 5	170	0.2	8	< 0.04	< 0.01	208	8.5
GW	Spring 2	6/5/95	~1/2 gpm	30.388	14.8	1.26	1.79	40.2	2.73	0.55	0	116	< 0.02	5.71	0.17176	< 0.01	274.7	8.12
GW	Spring 3	10/12/93		40	24	1.9	3	15	5	0.4	< 5	73	< 0	6	< 0.04	< 0.01	192	8.3
GW	Spring 3	9/27/94		52	22	1.9	3	16	4	0.5	< 5	95	0	6	1	< 0.01	130	8.4
GW	Spring 3	9/11/95		50	22	2.1	3.6	16	6.21	0.43	< 5	89	< 0.02	7.73	1.23	< 0.01	210	7.7
GW	Spring 3A	10/12/93		53	22	2.2	3	14	4	0.4	< 5	79	0	7	< 0.04	< 0.01	166	8.3
GW	Spring 3A	4/4/94		53	21	1.9	3	14	4	0.4	< 5	85	< 0	6	0.73	< 0.01	110	8.3
GW	Spring 3AA	9/27/94		42	99	6.9	5	24	3	0.5	< 5	127	2.1	5	28	0.04	134	8
GW	Spring 3AA	9/11/95		52	21	2	3.5	14	5.88	0.41	< 5	77	< 0.02	7.65	0.71	< 0.01	180	7.43
GW	Spring 3B	10/12/93		82	86	13	9	130	6	0.7	< 5	501	0.1	25	< 0.04	< 0.01	640	6.8
GW	Spring 3B	9/27/94		49	18	1.8	5	120	4	0.8	< 5	298	0	16	1.4	< 0.01	386	8.2

^aPALK--Phenolphthalein Alkalinity

^bTALK--Total Alkalinity

^cTDS--Total Dissolved Solids

^dStandard Units

Codes: d--field duplicate

R1--lab replicate

Area-G General Inorganic Analysis (cont)

General Inorganic Analysis of Ground Waters for 1993, 1994, 1995 (mg/L)																		
Matrix	Station Name	Date	Code	SiO ₂	Ca	Mg	K	Na	Cl	F	PALK ^a	TALK ^b	PO ₄ -P	SO ₄	NO ₃ -N	CN	TDS ^c	pH ^d
GW	Spring 4	10/12/93		63	24	4.6	2	12	7	0.5	< 5	82	< 0	10	0.09	< 0.01	218	7.6
GW	Spring 4	9/27/94		55	23	4.5	3	14	6	0.5	< 5	86	< 0	9	1.25	< 0.01	126	7.9
GW	Spring 4A	10/13/93		74	20	4.6	2	11	6	0.4	< 5	74	0	6	< 0.04	< 0.01	86	8.3
GW	Spring 4A	9/28/94		72	20	4.5	2	11	5	0.5	< 5	82	0.1	6	0.9	< 0.01	134	8.2
GW	Spring 4A	9/11/95		69	19	4.5	2.5	12	6.72	0.44	< 5	72	< 0.02	7.96	0.9	< 0.01	222	8.08
GW	Spring 4A	9/11/95 d		69	17	4.1	2.1	10	6.77	0.43	< 5	76	< 0.02	7.98	0.89	< 0.01	238	8.49
GW	Spring 5	10/13/93		49	19	5.3	3	11	5	0.4	< 5	79	< 0	6	< 0.04	< 0.01	182	8
GW	Spring 5	9/28/94		69	17	4.8	2	13	5	0.4	< 5	77	< 0	6	0.74	< 0.01	160	8.4
GW	Spring 5	9/12/95		69	17	4.4	2.5	11	6.49	0.39	< 5	70	< 0.02	7.58	0.69	< 0.01	198	8.25
GW	Spring 5A	10/13/93		56	25	3.3	3	17	6	0.4	< 5	110	< 0	8	< 0.04	< 0.01	192	8
GW	Spring 5A	9/28/94		61	44	4.6	4	16	5	0.4	< 5	107	0.3	8	0.55	< 0.01	140	7.9
GW	Spring 5B	9/28/94		59	22	5.3	3	15	4	0.5	< 5	78	< 0	7	2.3	< 0.01	164	8.2
GW	Spring 5B	9/12/95		63	17	4.1	2.5	12	6.27	0.44	< 5	71	< 0.02	8.2	1.99	< 0.01	208	7.49
General Inorganic Analysis of Surface Waters for 1993, 1994, 1995 (mg/L)																		
Matrix	Station Name	Date	Code	SiO ₂	Ca	Mg	K	Na	Cl	F	PALK ^a	TALK ^b	PO ₄ -P	SO ₄	NO ₃ -N	CN	TDS ^c	pH ^d
SW	Cañada del Buey	6/7/93		35	12	3.8		18	18	0.5	< 5	53	0.7	4	0.1		182	6.5
SW	Cañada del Buey	8/18/94		36	13	4.7	5	20	7	0.5	< 5	58	0	10	1.9	0.02	432	6.8
SW	Cañada del Buey	6/5/95		28	11	5.5	7.3	21	14	0.47	< 5	45	0.08	7	< 0.04	0.02	296	6.55
SW	Mortandad at Rio Grande (A-11)	10/12/93		92	28	7.7	15	76	49	0.9	< 5	112	6.4	27	0.51	0.02	350	7.5
SW	Mortandad at Rio Grande (A-11)	9/11/95		85	27	5.8	13	67	43.8	0.81	< 5	122	5.7	25.9	4.08	< 0.01	402	7.64
SW	Pajarito at Rio Grande	10/13/93		65	22	4.9	3	13	6	0.4	< 5	83	< 0	7	< 0.04	< 0.01	140	8.3
SW	Pajarito at Rio Grande	9/30/94		68	< 0	< 0.2	< 1	0	5	0.5	< 5	88	0.1	6	0.72	< 0.01	182	8.5
SW	Pajarito at Rio Grande	9/11/95		68	20	4.3	2.8	12	7.13	0.44	< 5	84	< 0.02	8.05	0.7	< 0.01	222	8.2
SW	Pajarito Canyon	1/1/93	no sample date	32	28	7.1	5	28	58	0.1	< 5	68	0	13	0.04		228	7.9
SW	Pajarito Canyon	7/27/95		37	15	4.5	4.1	19	19.5	0.16	< 5	62	0.25	7.8	0.31	< 0.01	136	7.44
General Inorganic Analysis of Sediments for 1993, 1994, 1995 (mg/g)																		
Matrix	Station Name	Date	Code	SiO ₂	Ca	Mg	K	Na	Cl	F	PALK ^a	TALK ^b	PO ₄ -P	SO ₄	NO ₃ -N	CN	TDS ^c	pH ^d
SED	Mortandad at Rio Grande (A-11)	9/11/95			5.7	2.9	2.2	0.26										
SED	Pajarito at Rio Grande	9/11/95			0.56	0.39	0.27	0.08										

^aPALK-Phenolphthalein Alkalinity

^bTALK-Total Alkalinity

^cTDS-Total Dissolved Solids

^dStandard Units

Codes: d-field duplicate

R1-lab replicate

Area-G Total Recoverable Trace Metals Analysis

Total Recoverable Trace Metals in Ground Waters for 1993, 1994, 1995 (ug/L)																											
Matrix	Station Name	Date	Code	Ag	Al	As	B	Ba	Be	Cd	Co	Cr	Cu	Fe	Hg	Mn	Mo	Ni	Pb	Sb	Se	Sn	Sr	Ti	V	Zn	
GW	CDBO-6	12/8/93		< 10	160000	24	50	1500	20	5	28	100	71	130000	< 0.2	2400	< 8	80	242	< 2	3	< 30	330	2		150	720
GW	CDBO-6	8/7/94		< 10	27000	11	39	240	< 3	< 3	< 4	12	5	16000	0.2	250	< 8	< 10			3	< 30	100		30	87	
GW	CDBO-6	8/14/95		< 10	36000	11	90	400	3	< 3	4	25	21	23000	< 0.2	490	< 8	10	54	< 2	1	30	130	< 2	40	150	
GW	CDBO-6	8/14/95	R1	10	62000	17	50	430	4	< 3	6	38	24	37000		650	< 8	20	55	< 2	4	< 30	130	< 2	60	200	
GW	CDBO-7	12/8/93		< 10	52000	10	50	680	5	< 3	8	20	15	29000	< 0.2	920	< 8	20	54	< 2	< 2	< 30	200	< 2	40	160	
GW	CDBO-7	8/7/94		< 10	89000	30	59	1600	10	< 3	15	46	29	40000	0.2	1700	< 8	30			< 2	44	260		70	240	
GW	CDBO-7	8/14/95		< 10	90000	22	70	930	5	3	5	38	25	42000	< 0.2	1100	< 8	30	62	< 2	4	50	190	< 2	63	230	
GW	PCO-1	6/7/93		< 10	11000	3.4	30	210	< 1	< 3	< 4	< 81	< 4	9400	< 0.2	570	11	< 10	9	1	< 2	< 30	150	< 1	10	30	
GW	PCO-1	6/22/94		< 20	150	< 2	20	130	< 1	< 3	< 4	< 4	< 4	260	0.1	50	< 8	< 10	< 2	< 2	< 2	44	180	< 2	< 0	< 20	
GW	PCO-1	5/20/95		< 10	2100	< 2	30	80	< 1	< 3	< 4	< 4	< 4	1000	< 0.2	11	< 8	< 10	< 2	< 2	< 1	< 30	98	< 2	< 4	< 20	
GW	PCO-2	6/7/93		< 10	20000	7.4	24	350	3	< 3	7	390	13	21000	< 0.2	800	< 8	< 10	31	< 1	< 2	< 30	210	< 1	30	80	
GW	PCO-2	6/22/94		< 20	99000	34	25	2600	12	< 3	59	130	67	120000	0.3	6500	< 8	98	147	< 2	< 2	< 30	520	< 2	140	330	
GW	PCO-2	5/20/95		< 10	500	< 2	30	66	< 1	< 3	< 4	< 4	< 4	300	< 0.2	3	< 8	< 10	< 2	2	< 1	< 30	120	< 2	< 4	< 20	
GW	PCO-3	6/7/93		< 10	100000	68.3	23	2800	19	7	49	740	130	110000	< 0.2	13000	20	66	207	< 1	6	< 30	1500	2	140	640	
GW	PCO-3	8/12/94		< 10	2100	< 3	< 20	29	< 3	< 3	< 4	< 4	< 8	1100	< 0.2	22	< 8	< 10	2	< 2	< 2	< 30	50	< 2	< 0	< 20	
GW	PCO-3	5/20/95		< 10	100	6	30	140	< 1	< 3	4	< 4	< 4	4100	< 0.2	2900	< 8	< 10	< 2	2	1	< 30	330	2	< 4	20	
GW	PM-1	6/2/93		< 10	< 100	< 2	46	88	< 1	< 3	< 4	4	14	< 100	< 0.2	< 2	< 8	10	1	4	< 2	< 30	170	< 1	10	34	
GW	PM-1	12/2/94		< 10	< 100	< 3	43	69	< 3	< 3	< 4	< 7	5	830	< 0.2	< 3	< 8	< 10	3	< 4	< 2	< 30	140	< 2	10	< 20	
GW	PM-1	6/12/95		58	< 100	< 3	47	69	< 3	< 3	< 4	< 4	< 4	< 100	< 0.2	< 3	< 8	< 10	< 2	< 2	< 2	< 30	140	< 2	10	< 20	
GW	PM-2	5/19/93		< 10	< 100	< 2	11	25	< 1	< 3	< 4	< 4	16	< 100	< 0.2	< 2	< 8	< 20	< 1	< 1	< 2	< 30	42	< 1	< 10	< 10	
GW	PM-2	5/24/94		< 4	< 14	< 5.5	< 17.5	< 20.3	< 1	< 2.4	< 4	16.3	< 2	< 40	< 0.2	< 1	< 27	< 6	< 1	< 3	< 4	< 1	< 43.1	< 1	< 10	< 5	
GW	PM-2	6/12/95		48	< 100	< 3	< 10	25	< 3	< 3	< 4	6	6	< 100	< 0.2	< 3	< 10	< 10	< 2	< 2	< 2	< 30	50	< 2	12	< 20	
GW	PM-2	6/12/95	d	< 40	< 100	< 3	< 10	23	< 3	< 3	< 4	< 20	12	< 100	< 0.2	< 3	< 8	< 10	< 2	< 2	< 2	< 30	47	< 2	11	< 20	
GW	PM-3	5/19/93		< 10	< 100	< 2	42	48	< 1	< 3	< 4	< 4	23	40	< 0.2	< 2	< 8	< 20	< 6	< 2	< 2	< 30	120	< 10	20	< 10	
GW	PM-3	6/12/95		< 40	< 100	< 3	38	40	< 3	< 3	< 4	6	4	< 100	< 0.2	< 3	< 8	< 10	< 2	< 2	< 2	< 30	120	< 2	18	< 20	
GW	PM-4	8/18/93		< 10	< 100	2.3	< 400	27	< 1	< 3	< 4	6	< 4	< 100	< 0.2	< 2	11	< 10	9.7	1	< 2	< 30	52	19	10	20	
GW	PM-4	5/24/94		< 4	< 13	< 5	< 25.2	< 23.4	< 1	< 3.2	< 4	< 6.9	< 2	130	< 0.2	< 13.3	< 27	< 6	< 1	< 3	< 4	< 1	104	< 1.1	< 10	< 3.8	
GW	PM-4	6/12/95		49	< 100	< 3	< 10	28	< 3	< 3	< 4	8	< 4	< 100	0.2	< 3	< 8	< 10	< 2	< 2	< 2	< 30	55	< 2	10	46	
GW	PM-5	8/18/93		< 10	< 100	< 2	500	30	< 1	< 3	< 4	6	< 4	< 100	< 0.2	< 2	< 8	< 10	9.1	< 1	< 2	< 30	60	14	10	< 20	
GW	PM-5	5/24/94		< 4	< 19	< 5	< 19.2	< 27.2	< 1	< 2	< 4	< 4	< 2	< 10	< 0.2	< 1	< 27	< 6	< 1	< 3	< 4	< 1	< 55.4	< 1.4	< 10	< 4.1	
GW	PM-5	6/12/95		< 40	< 100	< 3	< 10	29	< 3	< 3	< 4	8	< 4	< 100	0.2	< 3	< 8	< 10	< 2	< 2	< 2	< 30	56	< 2	22	< 20	
GW	Sandia Spring	10/12/93		< 10	870	< 2	19	190	< 1	< 3	< 4	< 4	< 4	840	< 0.2	380	< 8	< 20	< 1	< 1	< 2	< 30	380	< 1	< 0	< 20	
GW	Sandia Spring	9/27/94		< 10	300	2	20	130	< 1	< 3	< 4	< 4	< 4	200	< 0.1	40	< 8	< 10	2	< 1	< 1	< 30	430	< 1	10	30	
GW	Sandia Spring	9/11/95		< 10	41000	20	22	690	3	< 3	19	13	250	18000	< 0.2	1400	< 8	22	57	< 2	6	< 30	530	< 2	90	69	
GW	Spring 1	10/12/93		< 10	9200	12	50	170	< 1	< 3	< 4	25	6	7800	< 0.2	270	< 8	< 20	5.5	7	< 2	< 30	320	16	50	23	
GW	Spring 1	9/27/94		< 10	8500	11	50	320	1	< 3	8	28	12	9400	< 0.1	200	< 8	20	12	< 1	< 1	< 30	510	< 1	160	30	
GW	Spring 1	6/5/95	~1/2 gpm	< 0.5	580	4	40	30	< 2	< 2	< 2	8	9	400	< 0.2	20	< 2	< 2	< 2	< 2	< 2	8	190	< 2	20	< 10	
GW	Spring 2	10/12/93		< 10	21000	33	90	340	2	< 3	10	22	31	16000	< 0.2	900	< 8	20	22	< 1	< 2	< 30	560	< 1	160	56	
GW	Spring 2	9/27/94		130	9200	31	80	250	1	< 3	< 4	4	10	6100	< 0.1	850	< 8	< 10	11	< 1	< 1	< 30	450	< 1	50	30	
GW	Spring 2	6/5/95	~1/2 gpm	< 0.5	170	9	40	30	< 2	< 2	< 2	< 2	< 2	80	< 0.2	< 10	< 2	< 2	< 2	< 2	< 2	< 5	180	< 2	19	< 10	
GW	Spring 3	10/12/93		< 10	90	2	20	37	< 1	< 3	< 4	< 4	< 4	< 100	< 0.2	3	< 8	< 10	< 1	< 1	< 2	< 30	240	< 1	20	< 20	
GW	Spring 3	9/27/94		< 10	100	3	20	40	< 1	< 3	< 4	4	< 4	100	< 0.1	4	< 8	< 100	2	< 1	1	< 30	240	< 1	20	< 20	
GW	Spring 3	9/11/95		< 10	1200	4	31	51	< 3	< 3	< 7	6	< 4	770	< 0.2	45	< 8	< 10	< 2	< 2	1	42	250	< 2	14	22	
GW	Spring 3A	10/12/93		< 10	1000	3	20	57	< 1	< 3	< 4	4	< 4	820	< 0.2	28	< 8	< 20	< 1	< 1	< 2	< 30	220	< 1	10	< 20	
GW	Spring 3A	4/4/94		< 10	100	3	40	34	< 1	< 3	< 4	< 4	< 4	100	< 0.1	6	< 8	< 10	< 1	< 1	< 1	< 30	230	< 1	20	< 20	
GW	Spring 3AA	9/27/94		< 10	7700	29	50	830	3	< 3	33	33	29	28000	< 0.1	7000	< 8	30	36	< 1	1	< 30	350	< 1	110	70	
GW	Spring 3AA	9/11/95		< 10	510	4	22	56	< 3	4	< 7	7	6	760	< 0.2	100	12	< 10	2	< 2	< 1	< 30	240	< 2	24	< 20	
GW	Spring 3B	10/12/93		< 10	1300	16	140	140	< 1																		

Codes: d-field duplicate
R1, R2-lab replicate

Area-G Total Recoverable Trace Metals Analysis (cont)

Total Recoverable Trace Metals in Ground Waters for 1993, 1994, 1995 (ug/L)																											
Matrix	Station Name	Date	Code	Ag	Al	As	B	Ba	Be	Cd	Co	Cr	Cu	Fe	Hg	Mn	Mo	Ni	Pb	Sb	Se	Sn	Sr	Tl	V	Zn	
GW	Spring 4	10/12/93		< 10	< 200	< 2	19	38	< 1	< 3	< 4	< 4	< 4	< 100	< 0.2	< 2	< 8	< 20	2	< 1	< 2	< 30	130	< 1	10	< 20	
GW	Spring 4	9/27/94		< 10	< 100	2	30	53	< 1	< 3	< 4	< 4	< 4	< 100	< 0.1	< 2	< 8	< 10	< 1	< 1	2	< 30	170	< 1	10	< 20	
GW	Spring 4A	10/13/93		< 10	< 200	< 2	22	39	< 1	< 3	< 4	7	< 4	< 100	< 0.2	3	< 8	< 20	< 1	< 1	< 2	< 30	94	< 1	< 0	< 20	
GW	Spring 4A	9/28/94		50	< 100	< 2	20	40	< 1	< 3	< 4	5	< 4	< 100	< 0.1	2	< 8	< 10	< 1	< 1	< 1	< 30	96	< 1	10	40	
GW	Spring 4A	9/11/95		< 10	< 100	2	22	40	< 3	3	< 7	8	< 4	< 100	< 0.2	< 20	< 8	< 10	< 2	< 2	< 1	35	98	< 2	11	20	
GW	Spring 4A	9/11/95	d	< 10	< 100	2	15	37	< 3	< 3	< 7	8	< 4	< 100	< 0.2	< 20	< 8	< 10	< 2	< 2	< 1	< 30	89	< 2	11	< 20	
GW	Spring 5	10/13/93		< 10	1600	< 2	18	41	< 1	< 3	< 4	8	< 4	1400	< 0.2	37	< 8	< 20	1.5	< 1	< 2	< 30	92	< 1	10	< 20	
GW	Spring 5	9/28/94		< 10	< 100	2	44	30	< 3	< 3	< 4	< 4	< 4	120	< 0.1	3	< 8	< 10	1	< 1	< 0.2	< 30	91	< 1	10	< 20	
GW	Spring 5	9/12/95		< 10	< 100	2	15	25	< 3	5	< 7	8	< 4	< 100	< 0.2	< 20	< 8	< 10	< 2	< 2	< 1	37	85	< 2	11	< 20	
GW	Spring 5A	10/13/93		< 10	590	2	30	38	< 1	< 3	< 4	5	< 4	360	< 0.2	18	< 8	< 10	< 1	< 1	< 2	< 30	200	< 1	20	< 20	
GW	Spring 5A	9/28/94		< 10	4400	3	40	150	< 1	< 3	< 4	8	5	3900	< 0.1	230	< 8	< 10	6	< 1	1	< 30	230	< 1	30	30	
GW	Spring 5B	9/28/94		< 10	1800	2	19	81	< 3	< 3	< 4	8	< 4	1700	< 0.1	69	< 8	< 20	4	< 1	< 2	< 30	130	< 1	20	< 20	
GW	Spring 5B	9/12/95		< 10	160	2	16	37	< 3	4	< 7	8	< 4	180	< 0.2	< 20	< 8	< 10	< 2	< 2	< 1	54	98	< 2	11	< 20	
Total Recoverable Trace Metals in Surface Waters for 1993, 1994, 1995 (ug/L)																											
Matrix	Station Name	Date	Code	Ag	Al	As	B	Ba	Be	Cd	Co	Cr	Cu	Fe	Hg	Mn	Mo	Ni	Pb	Sb	Se	Sn	Sr	Tl	V	Zn	
SW	Cañada del Buey	6/7/93		20	11000	3.2	50	120	< 1	< 3	6	14	32	7400	< 0.2	460	100	< 20	10	< 1	< 2	< 30	74	< 1	10	68	
SW	Cañada del Buey	8/18/94		13	19000	5	75	150	< 3	< 3	10	18	70	13000	0.4	250	180	< 20	11	< 1	< 2	< 30	90	< 1	20	120	
SW	Cañada del Buey	6/5/95		< 10	35000	4	60	160	1	< 3	< 4	27	39	18000	0.4	170	500	< 10	13	< 2	< 2	40	72	< 2	37	120	
SW	Cañada del Buey	6/5/95	R1												0.3												
SW	Mortandad at Rio Grande (A-11)	10/12/93		< 10	3300	3	400	60	< 1	< 3	< 4	4	19	2200	< 0.2	83	14	< 10	3	< 1	< 2	< 30	100	< 1	10	34	
SW	Mortandad at Rio Grande (A-11)	9/11/95		< 10	790	5	340	84	< 3	< 3	< 7	< 4	15	440	< 0.2	30	< 8	< 10	< 2	< 2	< 1	45	130	< 2	11	25	
SW	Pajarito at Rio Grande	10/13/93		< 10	< 200	< 2	25	38	< 1	< 3	< 4	< 4	< 4	< 100	< 0.2	2	< 8	< 20	< 1	< 1	< 2	< 30	120	< 1	10	< 20	
SW	Pajarito at Rio Grande	9/30/94		98	230	2	210	170	68	150	170	510	520	260	< 0.1	250	150	240	2	< 1	< 2	< 30	510	< 1	100	250	
SW	Pajarito at Rio Grande	9/11/95		< 10	310	2	24	41	< 3	< 3	< 7	9	< 4	180	< 0.2	< 20	< 8	< 10	< 2	< 2	< 1	63	120	< 2	< 4	< 20	
SW	Pajarito Canyon	1/1/93	no sample date	< 10	2100	< 2	25.5	123.5	< 1	< 3	66	4	4	1160	< 0.2	130	340	< 10	1.9	< 2	< 2	< 30	180	< 1	40	27	
SW	Pajarito Canyon	7/27/95		< 10	3800	9	29	180	< 3	< 5	14	< 4	7	18000	< 0.2	2100	< 8	< 10	< 30	< 2	< 1	< 30	110	< 2	< 4	< 20	

Codes: d-field duplicate
R1, R2-lab replicate

Area-G Total Recoverable Trace Metals Analysis (cont)

Total Recoverable Trace Metals in Sediments for 1993, 1994, 1995 (ug/g)																										
Matrix	Station Name	Date	Code	Ag	Al	As	B	Ba	Be	Cd	Co	Cr	Cu	Fe	Hg	Mn	Mo	Ni	Pb	Sb	Se	Sn	Sr	Tl	V	Zn
SED	Cañada del Buey at SR-4	8/18/93		< 1	3200	0.3	< 3	31	0.28	< 0.4	2.3	3.8	0.92	6700	< 0.1	220	< 2	< 2	6.2	< 0.12	< 0.2	< 8	4.3	< 0.12	9.4	23
SED	Cañada del Buey at SR-4	6/3/94		< 1	2700	0.7	2.1	41	< 0.08	< 0.4	2.3	1.9	3	2800	< 0.02	170	< 0.9	1.1	6.3	< 0.2	< 0.3	< 4	5	< 0.2	3.6	11
SED	G-1	10/19/93		< 1	6400	1	3.8	58	0.46	< 0.4	3	5.2	1.6	7300	< 0.1	230	1.8	4.7	7.1	< 0.1	< 0.2	< 8	12	< 0.1	10	33
SED	G-1	8/4/94		< 1	6900	2	< 1	59	0.34	< 0.4	2.9	5.7	3.4	7900	< 0.02	270	< 0.9	< 2	8	< 0.25	0.3	< 4	12	0.25	12	36
SED	G-2	10/19/93		< 1	4000	1	1.6	45	0.29	< 0.4	3	4.3	< 1	9900	< 0.1	260	< 0.9	4.2	< 4	< 0.1	0.4	< 8	10	< 0.1	9.9	49
SED	G-2	8/4/94		< 1	4000	1	< 1	57	0.17	< 0.4	3	4.5	0.95	16000	< 0.02	620	< 0.9	< 2	10	< 0.25	0.4	< 4	8.6	< 0.25	14	89
SED	G-3	10/19/93		< 1	11000	1.7	4.1	110	0.74	< 0.4	3.9	7.6	3.7	11000	< 0.1	380	< 0.9	5.5	22	< 0.1	0.5	< 8	18	< 0.1	14	47
SED	G-3	8/4/94		< 1	7400	< 0.5	1.5	83	0.48	< 0.4	4.1	8.1	5.7	8400	0.02	360	< 0.9	< 2	43	< 0.25	< 0.3	< 4	14	< 0.25	11	55
SED	G-4	10/19/93		< 1	5100	1	2.9	46	0.63	< 0.4	2	3.2	< 1	7700	< 0.1	320	< 0.9	3	5.1	< 0.1	< 0.2	< 8	8.2	< 0.1	6.6	46
SED	G-4	8/4/94		< 1	6000	1	< 1	46	0.31	< 0.4	4.3	8.2	1.5	12000	< 0.02	320	< 0.9	< 2	7.4	< 0.25	< 0.3	< 4	7.7	< 0.25	25	58
SED	G-5	10/19/93		< 1	5100	0.8	2.2	46	0.38	< 0.4	6.5	3.5	1.4	5300	< 0.1	210	< 0.9	< 2	6.9	< 0.1	< 0.2	< 8	7	< 0.1	7.1	28
SED	G-5	8/4/94		< 1	8800	< 0.5	1.4	59	0.43	< 0.4	3.6	6.9	2.6	8300	< 0.02	320	< 0.9	< 2	6.6	< 0.25	< 0.3	< 4	9.9	< 0.25	12	45
SED	G-6	10/19/93		< 1	4000	0.9	< 1	42	0.38	< 0.4	4	6.1	< 1	11000	< 0.1	290	< 0.9	4.1	10	< 0.1	< 0.2	< 8	5.8	< 0.1	20	49
SED	G-6	8/4/94		< 1	11000	1	2.2	78	0.69	< 0.4	2.9	9.2	6.5	11000	0.02	330	< 0.9	< 2	16	< 0.25	< 0.3	< 4	19	< 0.25	14	55
SED	G-7	10/19/93		< 1	6200	1	2.6	68	0.52	< 0.4	3.5	4.4	1.2	7100	< 0.1	310	< 0.9	3.8	9.1	< 0.1	0.4	< 8	9.4	< 0.1	11	28
SED	G-7	8/4/94		< 1	2100	1	< 1	39	0.21	< 0.4	3.3	2.2	3.6	2500	0.02	160	< 0.9	< 2	5.1	< 0.25	0.3	< 4	9.2	< 0.25	1.8	33
SED	G-8	10/19/93		< 1	1800	0.5	1.3	17	0.11	< 0.4	1.7	2.8	< 1	2800	< 0.1	80	< 0.9	< 2	< 4	< 0.1	0.5	< 8	4.3	< 0.1	4.4	15
SED	G-8	8/4/94		< 1	5000	1	1.3	29	1.1	1.1	3.7	4.9	< 0.4	4800	< 0.02	140	< 0.9	3.1	7.4	< 0.25	< 0.3	< 4	6.9	< 0.25	8	27
SED	G-9	10/19/93		< 1	21000	3	5.4	83	1.4	< 0.4	4.6	13	5.2	15000	< 0.1	260	< 0.9	10	8.8	< 0.1	< 0.2	< 8	20	0.2	24	43
SED	G-9	8/4/94		< 1	5500	1	< 1	57	0.56	< 0.4	4.4	6.2	< 0.5	8200	< 0.02	280	< 0.9	4.8	6.8	< 0.25	< 0.3	< 4	8	< 0.25	16	30
SED	Mortandad at Rio Grande (A-11)	5/11/93		< 1	2800	0.9	< 3	30	0.19	< 0.4	3.9	4.4	4	5900	< 0.1	120	< 2	4.2	< 5	< 0.2	< 0.2	< 8	11	< 0.2	12	22
SED	Mortandad at Rio Grande (A-11)	9/27/94		< 1	2500	1.9	< 1	80	0.29	0.58	2.5	4.4	4.2	4800	0.04	110	2.3	3	6.2	< 0.2	< 0.3	< 4	36	< 0.2	10	16
SED	Mortandad at Rio Grande (A-11)	9/11/95		1.9	8900	2	< 1.2	140	0.55	< 0.4	6	9.2	7.9	12000	0.03	410	< 0.9	8.2	8.5	< 0.25	0.6	< 4	32	< 0.25	15	40
SED	Mortandad at Rio Grande (A-11)	9/11/95	R1												0.03											
SED	Mortandad at Rio Grande (A-11)	9/11/95	R2												0.03											
SED	Pajarito at Rio Grande	10/13/93		< 1	2000	2.3	< 3	17	0.11	< 0.4	2.9	4	2.3	6400	< 0.1	98	< 2	5	< 5	< 0.2	< 0.2	< 8	8.2	< 0.2	9.5	21
SED	Pajarito at Rio Grande	9/28/94		< 1	1200	0.5	1.6	15	0.11	< 0.4	0.79	2.9	2.4	2600	0.04	65	1.9	< 2	11	< 0.2	0.5	< 4	3.7	< 0.2	3.5	12
SED	Pajarito at Rio Grande	9/11/95		< 1.3	1400	0.4	< 1.3	12	< 0.17	< 0.4	< 0.5	2.9	1.5	3000	< 0.03	46	< 0.9	< 2	< 4	< 0.25	0.1	< 4	3.5	< 0.25	3.8	13
SED	Pajarito at Rio Grande	9/11/95	R1												< 0.03											
SED	Pajarito at Rio Grande	9/11/95	R2												< 0.03											
SED	Pajarito at SR-4	6/2/94		< 1	15000	3	5.7	120	0.54	< 0.4	11	14	12	14000	< 0.02	280	5.5	8.4	37	< 0.2	0.4	< 4	31	0.2	19	140

Codes: d-field duplicate
R1, R2-lab replicate

Area-G Radiochemical Analysis

Radiochemical Analysis of Ground Waters for 1993, 1994, 1995													
Matrix	Station Name	Date	Code	² H	⁸⁷ Sr	¹³⁷ Cs	U ^a	²³⁸ Pu	²³⁹ Pu	²⁴¹ Am	Gross Alpha	Gross Beta	Gross Gamma
				pCi/L	pCi/L	pCi/L	ug/L	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L
GW	CDBO-6	12/8/93		500 (300)		-0.5 (0.3)	5.8 (0.7)	0.01 (0.03)	-0.003 (0.02)		24 (5)	29 (3)	60 (60)
GW	CDBO-6	8/7/94		400 (300)	0.2 (0.8)	< 1.1	1.2 (0.3)	0.03 (0.015)	0.039 (0.015)	0.041 (0.016)	26 (5)	23 (2)	60 (50)
GW	CDBO-6	8/14/95		200 (300)	1.1 (1.1)	-0.37 (0.8)	2.29 (0.23)	0.002 (0.008)	0.003 (0.012)	0.026 (0.042)	3 (1)	7 (0.8)	-20 (50)
GW	CDBO-7	12/8/93		300 (300)		-0.4 (0.2)	2.6 (0.6)	-0.007 (0.03)	0.013 (0.02)		17 (4)	20 (2)	100 (60)
GW	CDBO-7	8/7/94		400 (300)	0.9 (0.7)	< 1.1	2.9 (0.3)	0.034 (0.017)	0.01 (0.012)	0.024 (0.012)	6 (1)	10 (1)	80 (50)
GW	CDBO-7	8/14/95		500 (300)	0.3 (1.3)	-0.23 (0.8)	3.13 (0.31)	-0.027 (0.009)	0.014 (0.018)	0.019 (0.037)	12 (2)	21 (2)	40 (50)
GW	PCO-1	6/7/93		700 (300)		2.8 (1.3)	< 1	-0.016 (0.03)	0.004 (0.02)		3 (1)	6 (1)	70 (90)
GW	PCO-1	6/22/94		400 (300)	0.9 (0.8)	1.8 (0.7)	0.3 (0.1)	-0.006 (0.03)	0.006 (0.02)		4 (2)	8 (1)	60 (50)
GW	PCO-1	5/20/95		-200 (300)	0.2 (0.7)	< 0.71	0.08 (0.01)	-0.012 (0.004)	0.01 (0.009)	0.063 (0.019)	-1.4 (0.6)	4.5 (0.5)	60 (40)
GW	PCO-2	6/7/93		700 (300)		3.2 (1.3)	2 (0.1)	0.022 (0.03)	0.036 (0.02)		12 (3)	11 (1)	110 (100)
GW	PCO-2	6/22/94		100 (300)	1.6 (0.7)	< 1	6.5 (1.6)	0.004 (0.03)	-0.002 (0.02)		50 (10)	54 (6)	50 (50)
GW	PCO-2	5/20/95		-100 (300)	0.4 (0.7)	< 1.09	0.1 (0.01)	-0.003 (0.001)	0.016 (0.01)	0.038 (0.02)	0 (0.8)	11.1 (1)	40 (40)
GW	PCO-3	6/7/93		500 (300)		2.6 (1.3)	18 (5)	0.059 (0.03)	0.018 (0.02)		9 (3)	11 (1)	50 (90)
GW	PCO-3	8/12/94		100 (300)	0.9 (0.8)	< 1	0.2	-0.002 (0.006)	0.011 (0.012)	0.047 (0.015)	1	2	40 (50)
GW	PCO-3	5/20/95		-100 (300)	0.7 (0.7)	< 0.91	0.45 (0.05)	0.002 (0.008)	0.025 (0.013)	0.06 (0.024)	-2.4 (2)	2.7 (0.5)	40 (40)
GW	PM-1	6/2/93		300 (300)		< 2 (0.1)	-0.018 (0.03)	0.005 (0.02)			2 (1)	5 (1)	130 (100)
GW	PM-1	12/2/94		-300 (300)	0.3 (0.8)	< 1	1	-0.007 (0.005)	0.055 (0.017)	0.02 (0.02)	1 (1)	3 (1)	110 (50)
GW	PM-1	6/12/95		0 (500)	4.6 (10.8)	-0.14 (0.8)	2.09 (0.21)	0.009 (0.015)	-0.017 (0.009)	0.052 (0.03)	0.5 (0.9)	4.3 (0.5)	100 (40)
GW	PM-2	5/19/93		500 (300)	0.8 (0.9)	1.4 (1.2)	< 1	0.004 (0.03)	0.127 (0.024)	0.021 (0.03)	1 (1)	2	60 (90)
GW	PM-2	5/24/94		< 200 (100)		< 1.7	< 1	0.005 (0.009)	< 0.003 (0.01)		0 (2)	3 (2)	
GW	PM-2	6/12/95		0 (500)	0 (0.9)	0.08 (0.12)	0.15 (0.04)	-0.009 (0.01)	0.013 (0.011)	0.028 (0.017)	-0.6 (0.6)	2.4 (0.4)	40 (40)
GW	PM-2	6/12/95	D1		-0.1 (0.8)		0.14 (0.03)						
GW	PM-2	6/12/95	d	-200 (500)	6.6 (18.2)	0.04 (0.08)	0.16 (0.04)	-0.013 (0.005)	0.024 (0.013)	0.029 (0.018)	-1.4 (0.5)	1.7 (0.3)	70 (40)
GW	PM-2	7/14/95						-0.001 (0.005)	0.006 (0.009)				
GW	PM-2	7/14/95	R1					0.002 (0.0056)	0.0152 (0.0069)				
GW	PM-3	5/19/93		400 (300)	-0.6 (1)	2 (1.3)	< 2	-0.008 (0.03)	0.099 (0.023)	0.031 (0.03)	-1 (1)	4 (1)	40 (90)
GW	PM-3	6/12/95		-100 (500)	-0.1 (0.8)	0.67 (1)	1 (0.12)	-0.005 (0.009)	0.023 (0.02)	0.064 (0.019)	-0.5 (0.9)	3.9 (0.5)	110 (40)
GW	PM-3	7/14/95						-0.003 (0.008)	-0.015 (0.002)				
GW	PM-4	8/18/93		600 (300)	0.7 (0.8)	-0.5 (0.5)	< 1	-0.012 (0.02)	0.015 (0.03)	0.009 (0.03)			190 (100)
GW	PM-4	5/24/94		< 100 (100)		< 2.2	< 1	0.005 (0.014)	0.006 (0.008)		2 (3)	2 (3)	
GW	PM-4	6/12/95		-100 (500)	0.5 (1.1)	0.31 (0.47)	0.4 (0.06)	0.013 (0.022)	0.052 (0.025)	0.109 (0.028)	-0.6 (0.6)	3 (0.4)	80 (40)
GW	PM-4	6/12/95	R1					0.017 (0.006)	0.025 (0.006)	0.023 (0.009)			
GW	PM-5	8/18/93		400 (300)	-0.5 (0.9)	0.2 (0.5)	< 1	-0.008 (0.02)	0.03 (0.03)	0.039 (0.03)			210 (100)
GW	PM-5	5/24/94		0 (100)		< 1.4	< 1	< 0.003 (0.016)	0.006 (0.011)		1 (2)	1 (2)	
GW	PM-5	6/12/95		0 (500)	-0.1 (0.8)	0.2 (0.3)	0.59 (0.1)	-0.02 (0.013)	0.012 (0.017)	0.067 (0.021)	-1.3 (0.6)	2.7 (0.4)	120 (50)
GW	PM-5	6/12/95	R1								-0.5 (0.6)	2.7 (0.4)	
GW	Sandia Spring	10/12/93		200 (300)			0.7 (0.1) ^b	-0.004 (0.02)	-0.003 (0.03)		1	4 (1)	100 (100)
GW	Sandia Spring	10/12/93					1 (0.1)						
GW	Sandia Spring	9/27/94		100 (300)	0 (0.7)	< 0.5	1.1 (0.1)	0.011 (0.03)	0.037 (0.02)	0.025 (0.03)	1 (1)	8 (1)	120 (50)
GW	Sandia Spring	9/11/95		300 (300)	2.9 (0.9)	0.6 (0.3)	7.62 (0.99)	0.026 (0.027)	0.01 (0.018)	-0.048 (0.187)	15 (4)	17 (2)	90 (50)

^aICPES analysis method used for U samples unless otherwise noted^bKPA analysis method used for U sample^cMean of multiple samples

Codes: d-field duplicate

R1-lab replicate

D1-lab duplicate

Area-G Radiochemical Analysis (cont)

Radiochemical Analysis of Ground Waters for 1993, 1994, 1995													
Matrix	Station Name	Date	Code	³ H	⁹⁰ Sr	¹³⁷ Cs	U ^a	²³⁸ Pu	²³⁹ Pu	²⁴¹ Am	Gross Alpha	Gross Beta	Gross Gamma
				pCi/L	pCi/L	pCi/L	ug/L	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L
GW	Spring 1	10/12/93		500 (300)			3.9 (0.4) ^b	-0.008 (0.02)	0.011 (0.03)		5 (1)	6 (1)	-100 (100)
GW	Spring 1	10/12/93					7 (1)						
GW	Spring 1	9/27/94		-100 (300)	0 (7)	< 0.9	3.2 (0.3)	0.004 (0.03)	0.022 (0.02)	0.04 (0.03)	1 (1)	4 (1)	60 (50)
GW	Spring 1	6/5/95	-1/2 gpm	-100 (300)	-0.1 (0.9)	< 0.47	2.33 (0.23)	-0.012 (0.008)	0.012 (0.012)	0.024 (0.016)	0.2 (0.6)	2 (0.4)	50 (40)
GW	Spring 2	10/12/93		100 (300)			14 (6)	0.067 (0.022)	0.005 (0.03)		10 (2)	9 (1)	0 (100)
GW	Spring 2	10/12/93					8.1 (0.8) ^b						
GW	Spring 2	9/27/94		100 (300)	0.3 (0.8)	< 0.6	4.6 (0.9)	0.001 (0.03)	0.023 (0.02)	0.024 (0.03)	4 (2)	9 (1)	90 (50)
GW	Spring 2	6/5/95	-1/2 gpm	0 (300)	0.1 (0.8)	< 0.61	2.8 (0.36)	-0.01 (0.009)	0.003 (0.006)	0.013 (0.02)	1.2 (0.8)	3.1 (0.5)	100 (50)
GW	Spring 3	10/12/93		100 (300)		< 1.7	0.7 (0.1) ^b	0.024 (0.02)	0.021 (0.03)		2	4	0 (100)
GW	Spring 3	10/12/93					2 (0.2)						
GW	Spring 3	9/27/94		200 (300)	0.1 (0.7)	< 0.9	1.4 (0.2)	-0.003 (0.03)	0.021 (0.02)	-0.006 (0.03)	0 (1)	9 (1)	90 (50)
GW	Spring 3	9/11/95		300 (300)	-0.1 (1)	0.58 (0.87)	1.75 (0.18)	0.044 (0.018)	0.038 (0.017)	0.027 (0.02)	1 (0.7)	3.1 (0.6)	50 (50)
GW	Spring 3A	10/12/93		800 (300)		< 1.1	0.5 (0.1) ^b	0.013 (0.02)	0.04 (0.03)		2 (1)	3	-100 (100)
GW	Spring 3A	10/12/93					1.5 (0.4)						
GW	Spring 3A	4/4/94		400 (300)	-0.1 (0.7)	< 0.5	1.1 (0.3)	< 0.001 (0.03)	0.021 (0.02)	0.016 (0.03)	1 (1)	8 (1)	50 (50)
GW	Spring 3AA	9/27/94		100 (300)	0.1 (0.8)	< 1.2	5.8 (1)	-0.003 (0.03)	0.01 (0.02)	0.068 (0.03)	17 (5)	15 (2)	40 (50)
GW	Spring 3AA	9/11/95		300 (300)	1 (1)	0.01 (0.8)	1.23 (0.13)	0.004 (0.011)	-0.003 (0.015)	0.069 (0.02)	0.9 (0.6)	3 (0.6)	60 (50)
GW	Spring 3B	10/12/93		500 (300)		< 0.8	25.2 (2.5) ^b	-0.001 (0.02)	0.011 (0.03)		24 (6)	15 (2)	-200 (100)
GW	Spring 3B	10/12/93					39 (5)						
GW	Spring 3B	9/27/94		-200 (300)	0.2 (0.7)	0.7 (0.4)	17.3 (4)	0.001 (0.03)	-0.007 (0.02)	0.054 (0.03)	36 (8)	14 (1)	120 (50)
GW	Spring 4	10/12/93		0 (300)			0.2 (0.1) ^b	0.004 (0.02)	-0.005 (0.03)		1	3	-200 (100)
GW	Spring 4	10/12/93					1 (0.4)						
GW	Spring 4	9/27/94		300 (300)	-0.5 (9.1)	< 0.9	1.3 (0.3)	0.013 (0.03)	0.003 (0.02)	0.057 (0.03)	-1 (1)	3	50 (50)
GW	Spring 4A	10/13/93		100 (300)		< 0.9	1 (0.1) ^b	0.024 (0.02)	-0.004 (0.03)		2	2	0 (100)
GW	Spring 4A	10/13/93					1 (0.4)						
GW	Spring 4A	9/28/94		0 (300)	-0.2 (0.7)	1.4 (0.7)	0.9 (0.2)	0.004 (0.03)	0.018 (0.02)	0.079 (0.03)	-1 (1)	2	60 (50)
GW	Spring 4A	9/11/95		300 (300)	0.7 (0.9)	0.79 (1.19)	1.02 (0.13)	-0.026 (0.01)	0.011 (0.016)	0.044 (0.017)	-4 (0.6)	3 (0.4)	50 (50)
GW	Spring 4A	9/11/95	D1			-1.1 (0.8)							
GW	Spring 4A	9/11/95	R1										
GW	Spring 4A	9/11/95	d	0 (300)	0 (0.9)	-0.04 (0.8)	0.96 (0.1)	0.005 (0.008)	0.02 (0.013)	0.014 (0.014)	0 (0.5)	2 (0.3)	60 (50)
GW	Spring 5	10/13/93		0 (300)			0.8 (0.1) ^b	0.03 (0.02)	0.05 (0.03)		1	3	0 (100)
GW	Spring 5	10/13/93					1 (0.2)						
GW	Spring 5	9/28/94		200 (300)	0.5 (0.7)	1.1 (0.5)	0.8 (0.1)	-0.001 (0.03)	0.001 (0.02)	0.035 (0.03)	1 (1)	2	150 (50)
GW	Spring 5	9/12/95		0 (300)	0.5 (0.7)	2.18 (0.73)	2.44 (0.24)	0.022 (0.016)	0.004 (0.013)	0.071 (0.02)	3 (1)	8 (0.9)	60 (50)
GW	Spring 5A	10/13/93		100 (300)		< 1.2	1.2 (0.1) ^b	0.001 (0.02)	0.017 (0.03)		1	4 (1)	400 (100)
GW	Spring 5A	10/13/93					1.5 (0.2)						
GW	Spring 5A	9/28/94		400 (300)	0.2 (0.7)	1.6 (0.7)	6.6 (1.3)	0.006 (0.03)	0.022 (0.02)	0.07 (0.03)	11 (3)	14 (1)	-20 (50)
GW	Spring 5B	9/28/94		500 (300)	-0.3 (0.7)	< 1.3	3.6 (0.5)	-0.004 (0.03)	0.008 (0.02)	0.047 (0.03)	4 (1)	6 (1)	60 (50)
GW	Spring 5B	9/12/95		-300 (300)	0.2 (1)	-0.16 (0.8)	1.02 (0.1)	-0.004 (0.011)	-0.004 (0.01)	0.01 (0.013)	1 (0.7)	3 (0.5)	60 (50)

^aICPES analysis method used for U samples unless otherwise noted

^bKPA analysis method used for U sample

^cMean of multiple samples

Codes: d-field duplicate

R1-lab replicate

D1-lab duplicate

Area-G Radiochemical Analysis (cont)

Radiochemical Analysis of Surface Waters for 1993, 1994, 1995													
Matrix	Station Name	Date	Code	³ H	⁹⁰ Sr	¹³⁷ Cs	U ^a	²³⁸ Pu	²³⁹ Pu	²⁴¹ Am	Gross Alpha	Gross Beta	Gross Gamma
				pCi/L	pCi/L	pCi/L	ug/L	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L
SW	Cañada del Buey	6/7/93		700 (300)		1.1 (1.3)	< 1	0 (0.03)	0.044 (0.02)		1 (1)	6 (1)	180 (100)
SW	Cañada del Buey	8/18/94		300 (300)	1.1 (0.8)		0.3 (0.1)	0.007 (0.03)	0.008 (0.02)	0.023 (0.03)	2 (1)	6 (1)	-10 (50)
SW	Cañada del Buey	6/5/95		-200 (300)	1.1 (0.9)	< 0.82	0.92 (0.09)	0.006 (0.009)	0.008 (0.013)	0.055 (0.017)	2.9 (1.8)	5 (0.6)	0 (40)
SW	Mortandad at Rio Grande (A-11)	10/12/93		-100 (300)			0.4 ^b	0.008 (0.02)	0.021 (0.03)		0 (1)	12 (1)	-100 (100)
SW	Mortandad at Rio Grande (A-11)	10/12/93					1 (0.3)						
SW	Mortandad at Rio Grande (A-11)	9/11/95		200 (300)	0.5 (0.7)	0.24 (0.37)	0.54 (0.05)	-0.016 (0.011)	-0.01 (0.012)	0.022 (0.013)	0 (1)	15 (1)	20 (40)
SW	Pajarito at Rio Grande	10/13/93		200 (300)		< 0.4	0.4 (0.1) ^b	0.02 (0.02)	0.045 (0.03)		1	2	900 (100)
SW	Pajarito at Rio Grande	10/13/93					1 (0.2)						
SW	Pajarito at Rio Grande	9/30/94		500 (300)	2.1 (8.5)	1.5 (0.6)	0.9 (0.2)	-0.005 (0.03)	0.01 (0.02)	0.037 (0.03)	0 (1)	3 (1)	40 (50)
SW	Pajarito at Rio Grande	9/11/95		-200 (300)	1.2 (0.8)	0.21 (0.32)	1.08 (0.15)	0.016 (0.016)	0.026 (0.015)	0.033 (0.02)	0.6 (0.6)	3 (0.5)	180 (50)
SW	Pajarito at Rio Grande	9/11/95	D1			0.81 (0.39)							
SW	Pajarito at Rio Grande	9/11/95	R1	100 (400)							0.2 (0.6)	3 (0.5)	100 (50)
SW	Pajarito Canyon	1/1/93	no sample date	600 (400)	0 (0.7)	1 (1.5)	< 2	0.005 (0.042)	0.006 (0.028)	0.009 (0.03)	1 (1)	8 (1)	-15 (141)
SW	Pajarito Canyon	5/25/94		< 100 (100)		< 1.7		0.001 (0.009)	0.001 (0.004)		1 (3)	3 (3)	
SW	Pajarito Canyon	7/27/95		100 (300)	0.4 (0.7)	-0.61 (0.8)	0.17 (0.02)	0.007 (0.015)	0.018 (0.014)	0.036 (0.017)	0.2 (0.6)	1 (0.3)	50 (40)
Radiochemical Analysis of Spring Runoff Surface Waters for 1993, 1994, 1995													
Matrix	Station Name	Date	Code	³ H	⁹⁰ Sr	¹³⁷ Cs	U ^a	²³⁸ Pu	²³⁹ Pu	²⁴¹ Am	Gross Alpha	Gross Beta	Gross Gamma
				pCi/L	pCi/L	pCi/L	ug/L	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L
RO	Pajarito at SR-4	1/1/93	no sample date	500 (600) ^c		1.3 (2.6) ^c		0.009 (0.06) ^c	0.007 (0.04) ^c		1 (1) ^c	6 (2) ^c	40 (200) ^c
RO	Pajarito at SR-4	7/18/95		300 (300)	0.3 (0.8)	1.06 (0.54)	1.16 (0.12)	0.002 (0.01)	-0.016 (0.009)	0.028 (0.012)	3 (1)	7 (0.9)	10 (50)

^aICPES analysis method used for U samples unless otherwise noted

^bKPA analysis method used for U sample

^cMean of multiple samples

Codes: d-field duplicate

R1-lab replicate

D1-lab duplicate

Area-G Radiochemical Analysis (cont)

Radiochemical Analysis of Sediments for 1993, 1994, 1995													
Matrix	Station Name	Date	Code	¹ H	⁹⁰ Sr	¹³⁷ Cs	¹³⁷ U ^a	²³⁸ Pu	²³⁹ Pu	²⁴¹ Am	Gross Alpha	Gross Beta	Gross Gamma
				pCi/L	pCi/g	pCi/g	ug/g	pCi/g	pCi/g	pCi/g	pCi/g	pCi/g	pCi/g
SED	Cañada del Buey at SR-4	8/18/93		200 (300)	0.4 (0.2)	0	1.1 (0.1)	0.005 (0.03)	0.004 (0.02)	0.005 (0.03)	2 (1)	2	0
SED	Cañada del Buey at SR-4	6/3/94			0.1 (0.2)	0	1.9 (0.2)	0.003 (0.001)	0.002 (0.001)	0.004 (0.001)	4 (1)	< 3	2
SED	Cañada del Buey at SR-4	3/21/95		500 (500)	0.3 (0.2)	0.04 (0.02)	1.53 (0.15)	0.004 (0.001)	0.007 (0.001)	0.002 (0.001)	2.6 (0.6)	2.1 (0.3)	2.7 (0.3)
SED	G-1	10/19/93		1100 (500)		0.1	3.7 (0.6)	0.021 (0.03)	0.005 (0.02)		5 (1)	4	2
SED	G-1	8/4/94		200 (300)	0.2 (0.2)	0.2 (0.1)	1.7 (0.2)	0.008 (0.03)	0.03 (0.02)	0.009 (0.002)	6 (1)	5 (1)	2
SED	G-1	5/5/95		-200 (300)	0 (0.3)	0.08 (0.03)	0.84 (0.15)	0.001 (0.001)	0.004 (0.001)	0.004 (0.001)	2.2 (0.5)	1.4 (0.2)	5.2 (0.6)
SED	G-2	10/19/93				0.1 (0.1)	0.8 (0.2)	0.002 (0.03)	0.001 (0.02)		2	1	0
SED	G-2	8/4/94		1800 (400)	0.1 (0.2)	< 0.1	0.6 (0.1)	0.002 (0.03)	0.003 (0.02)	0.002 (0.001)	3 (1)	3	1
SED	G-2	5/5/95		-100 (300)	0 (0.3)	0.06 (0.02)	1.25 (0.13)	0.012 (0.002)	0.002 (0.001)	0.002 (0.002)	2.1 (0.5)	2 (0.3)	4.2 (0.5)
SED	G-3	10/19/93		2300 (500)		0.3 (0.1)	2.7 (0.7)	0.008 (0.03)	0.011 (0.02)		5 (1)	5 (1)	3
SED	G-3	8/4/94		800 (300)	0.4 (0.2)	0.4 (0.1)	1.6 (0.2)	0.011 (0.03)	0.016 (0.02)	0.009 (0.002)	6 (1)	5 (1)	2
SED	G-3	5/5/95		400 (300)	0.1 (0.3)	0.36 (0.06)	1.98 (0.22)	0.003 (0.001)	0.021 (0.002)	0.008 (0.001)	4.5 (1)	4 (0.5)	5 (0.5)
SED	G-4	10/19/93		3700 (600)		0.1	3.8 (0.8)	0.011 (0.03)	0.101 (0.02)		7 (1)	5 (1)	4
SED	G-4	8/4/94		4300 (600)	0.2 (0.2)	0.1	0.8 (0.1)	0.007 (0.03)	0.019 (0.02)	0.014 (0.002)	3 (1)	3	2
SED	G-4	5/5/95		100 (300)	0 (0.3)	0.35 (0.06)	2.32 (0.46)	0.016 (0.002)	0.026 (0.002)	0.005 (0.001)	6 (1)	4.3 (0.5)	4.9 (0.5)
SED	G-5	10/19/93		5500 (1600)		0.1	1.9 (0.4)	0.011 (0.03)	0.039 (0.02)		4 (1)	2	2
SED	G-5	8/4/94		2000 (400)	0 (0.2)	0.2 (0.1)	1.4 (0.3)	0.009 (0.03)	0.067 (0.02)	0.023 (0.003)	4 (1)	3	2
SED	G-5	5/5/95		1600 (400)	0.3 (0.3)	0.11 (0.03)	1.06 (0.11)	0.015 (0.002)	0.009 (0.002)	0.004 (0.001)	2.3 (0.5)	2.2 (0.3)	2.8 (0.3)
SED	G-6	10/19/93		5200 (900)		0.1	1.5 (0.2)	0.01 (0.03)	0.031 (0.02)		5 (1)	3	3
SED	G-6	8/4/94		800 (300)	0.5 (0.2)	0.6 (0.1)	1.5 (0.2)	0.014 (0.03)	0.15 (0.02)	0.035 (0.003)	7 (1)	7 (1)	2
SED	G-6	5/5/95		2500 (500)	0.3 (0.2)	0.27 (0.05)	1.85 (0.26)	0.007 (0.001)	0.072 (0.004)	0.025 (0.003)	6 (1)	4.7 (0.5)	9 (0.9)
SED	G-7	10/19/93		1500 (400)		0.2	1.8 (0.4)	0.011 (0.03)	0.131 (0.02)		4 (1)	3	3
SED	G-7	8/4/94			0 (0.2)	0.1	2.1 (0.2)	0.173 (0.03)	0.087 (0.02)	0.027 (0.003)	4 (1)	3	2
SED	G-7	5/5/95		400 (300)	0.1 (0.4)	0.23 (0.05)	1.31 (0.2)	0.028 (0.002)	0.038 (0.003)	0.016 (0.006)	5 (1)	4.4 (0.5)	7.9 (0.8)
SED	G-8	10/19/93		3700 (600)		0.1	1.3 (0.3)	0.131 (0.03)	0.058 (0.02)		3 (1)	4	1
SED	G-8	8/4/94		1800 (600)	0.4 (0.2)	0.6 (0.1)	2 (0.2)	0.104 (0.03)	0.229 (0.02)	0.038 (0.003)	6 (1)	7 (1)	2
SED	G-8	5/5/95		700 (300)	0.1 (0.3)	0.09 (0.03)	1.58 (0.16)	0.176 (0.007)	0.147 (0.006)	0.033 (0.007)	2.8 (0.6)	1.6 (0.2)	6.7 (0.7)
SED	G-9	10/19/93		3500 (900)		0.3 (0.1)	3.1 (0.7)	0.023 (0.03)	0.134 (0.02)		5 (1)	2	0
SED	G-9	8/4/94			0 (0.2)	< 0.1	0.4	0.003 (0.03)	0.004 (0.02)	0.003 (0.001)	2	2	0
SED	G-9	5/5/95		300 (300)	0.3 (0.2)	0.31 (0.06)	1.18 (0.13)	0.022 (0.002)	0.048 (0.003)	0.015 (0.002)	5 (1)	3.5 (0.4)	6.8 (0.7)
SED	Mortandad at Rio Grande (A-11)	5/11/93		100 (300)		0	1.3 (0.3)	0.002 (0.03)	0.001 (0.02)		2 (1)	1	2
SED	Mortandad at Rio Grande (A-11)	9/27/94		-300 (400)	0.2 (0.3)	0.1	2.3 (0.4)	0.006 (0.001)	0.007 (0.001)	0.003 (0.001)	4 (1)	3 (1)	2
SED	Mortandad at Rio Grande (A-11)	9/11/95		-100 (300)		0.03 (0.01)	1.78 (0.21)	0.003 (0.001)	0.005 (0.001)	0.002 (0.001)	2 (0.6)	1.2 (0.2)	2.6 (0.3)
SED	Pajarito at Rio Grande	10/13/93		100 (300)		0	0.8 (0.1)	0.001 (0.03)	0.002 (0.02)		1	1	2
SED	Pajarito at Rio Grande	9/28/94		-100 (400)	0 (0.3)	0	1.3 (0.3)	0.001 (0.001)	0.002 (0.001)	0.003 (0.001)	1	1	2
SED	Pajarito at Rio Grande	9/11/95		-200 (300)	0 (0.5)	0.03 (0.04)	0.94 (0.09)	0.004 (0.001)	0.003 (0.001)	0.003 (0.001)	1 (0.2)	0.7 (0.1)	1.7 (0.2)
SED	Pajarito at SR-4	6/2/94		-100 (300)	0.2 (0.2)	0.2	2.7 (0.4)	0.01 (0.001)	0.009 (0.001)	0.004 (0.002)	5 (1)	7 (1)	3
SED	Pajarito at SR-4	3/21/95		200 (300)	0.2 (0.2)	0.29 (0.06)	2.25 (0.23)	0.025 (0.002)	0.072 (0.004)	0.013 (0.002)	5 (1)	4.9 (0.5)	3.6 (0.4)

^aICPES analysis method used for U samples unless otherwise noted

^bKPA analysis method used for U sample

^cMean of multiple samples

Codes: d-field duplicate

R1-lab replicate

D1-lab duplicate

Area-G Organic Analysis

Organic Analysis of Ground Waters for 1993, 1994, 1995							
Matrix	Station Name	Date	Comments	Analyte	Value	Uncertainty	Units
GW	PCO-1	6/22/94	common lab contaminant	Bis-2-Ethylhexylphthalate	14	4.2	ug/L
GW	PCO-2	6/22/94	trip blank contaminated	Acetone	27	8.1	ug/L
GW	PM-1	6/22/93	common lab contaminant	Bis-2-Ethylhexylphthalate	2000	11	ug/L
GW	PM-4	5/22/94	common lab contaminant	Bis-2-Ethylhexylphthalate	53	15.9	ug/L
GW	Spring 4A	10/13/93	common lab contaminant	Acetone	24	20	ug/L
Organic Analysis of Surface Waters for 1993, 1994, 1995							
SW	Pajarito Canyon at Rio Grande	10/13/93	common lab contaminant	Bis-2-Ethylhexylphthalate	630		mg/L
Organic Analysis of Sediments for 1993, 1994, 1995							
SED	Pajarito Canyon at SR-4	11/15/93	found in method blank (29 ng/g); common lab contaminant	Acetone	30		ng/g

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