Appendix E

Justification Information and Data

Appendix E
Figures

Tables

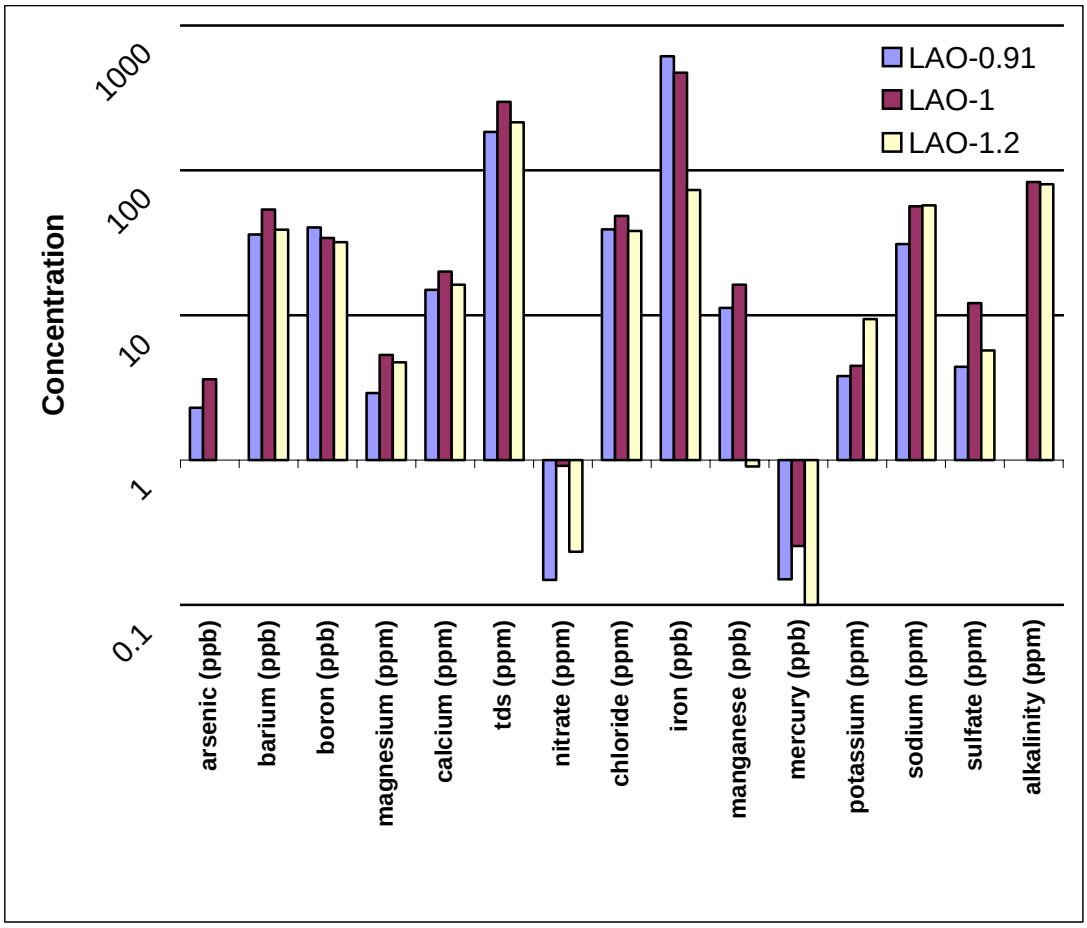


Figure E.2.1 RedLoc_1. Redundant locations in upper Los Alamos Canyon LAO-0.91, LAO-1, and LAO-1.2.

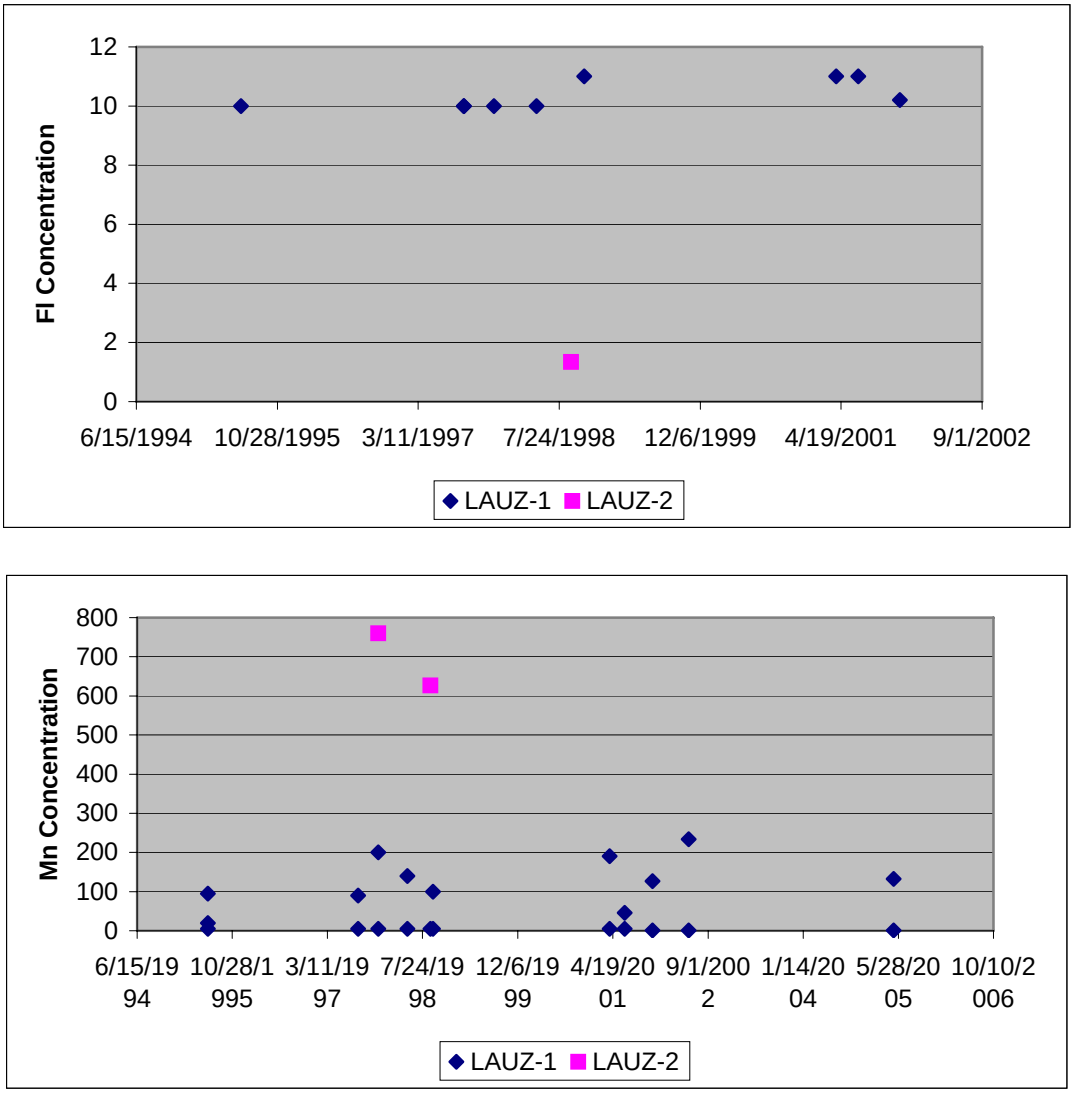


Figure E.2.2. Comparison of manganese and fluoride concentrations at LAUZ-1 and LAUZ-2. Note that LAUZ-1 has a more extensive data set over a longer breadth of time then LAUZ-2.

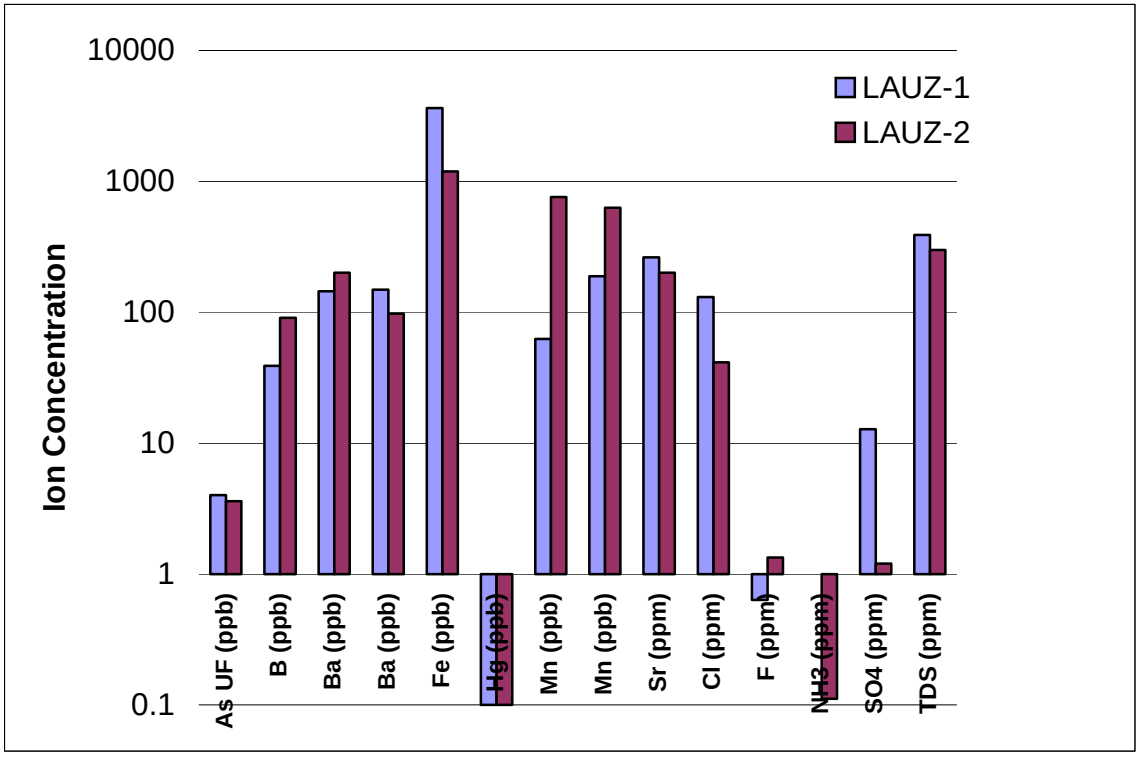


Figure E.2.3. Comparison of average values of select ion chemistry results from LAUZ-1 and LAUZ-2.

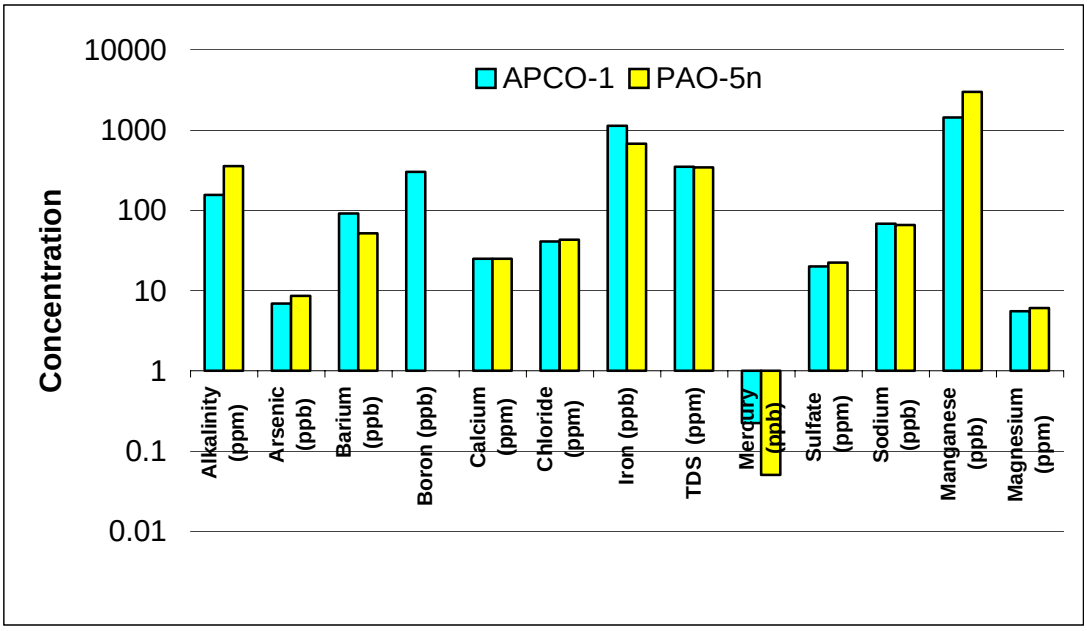


Figure E.2.4. Comparison of average groundwater analytical results from Pueblo Canyon alluvial wells APCO-1 and PCO-5n.

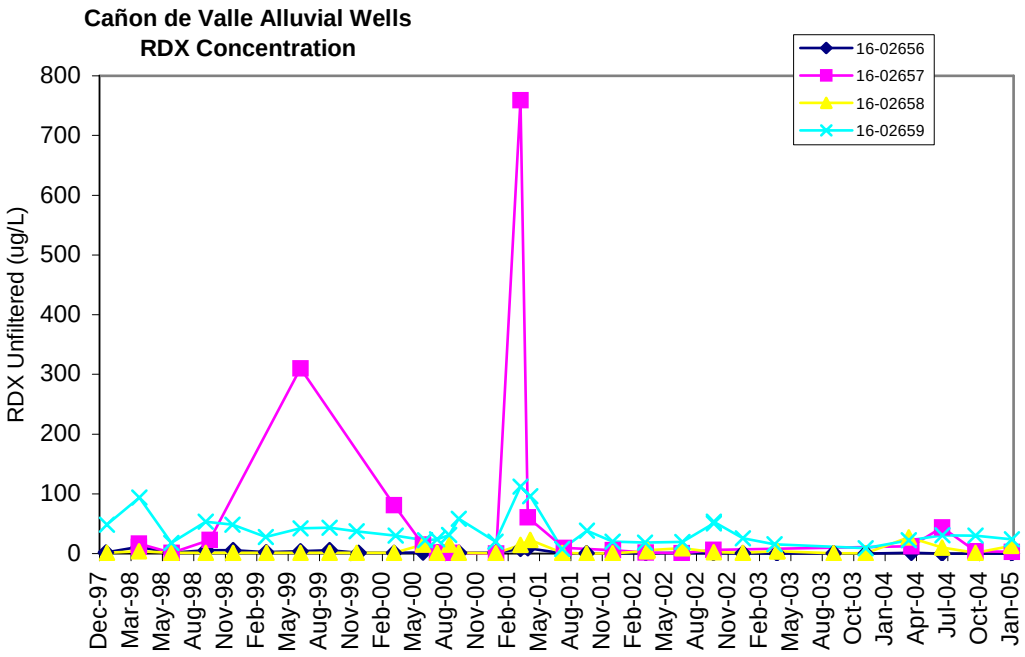


Figure E.6.1. RDX concentrations in Canon de Valle alluvial groundwater from 1998 through 2005.

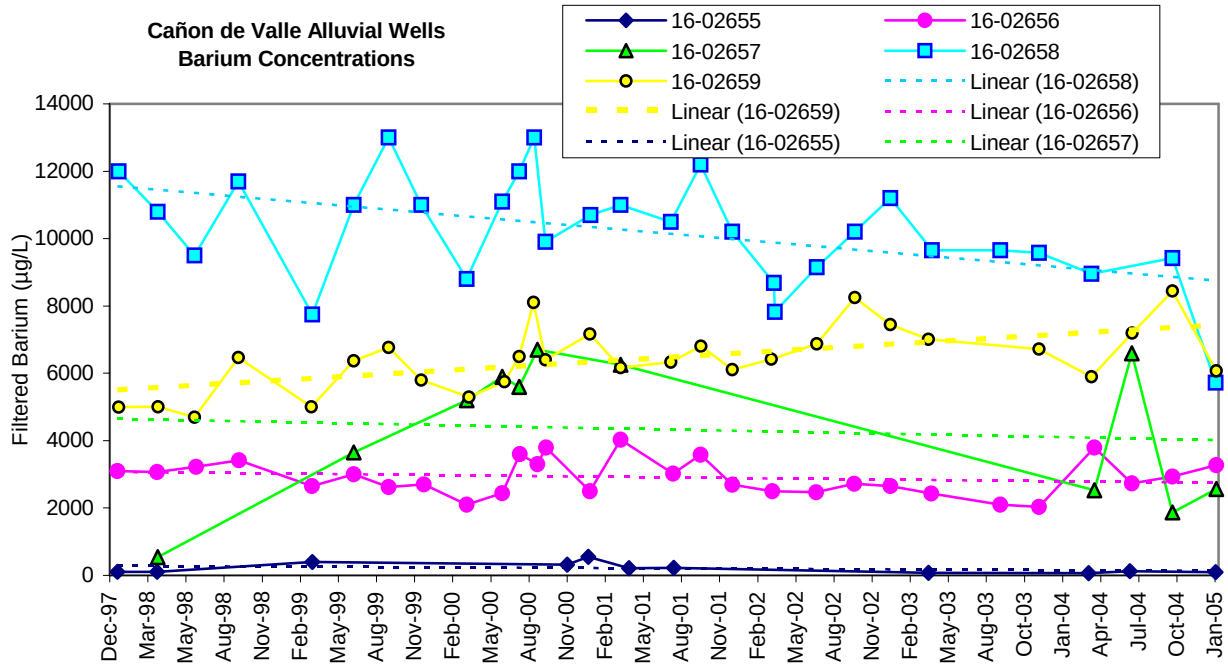
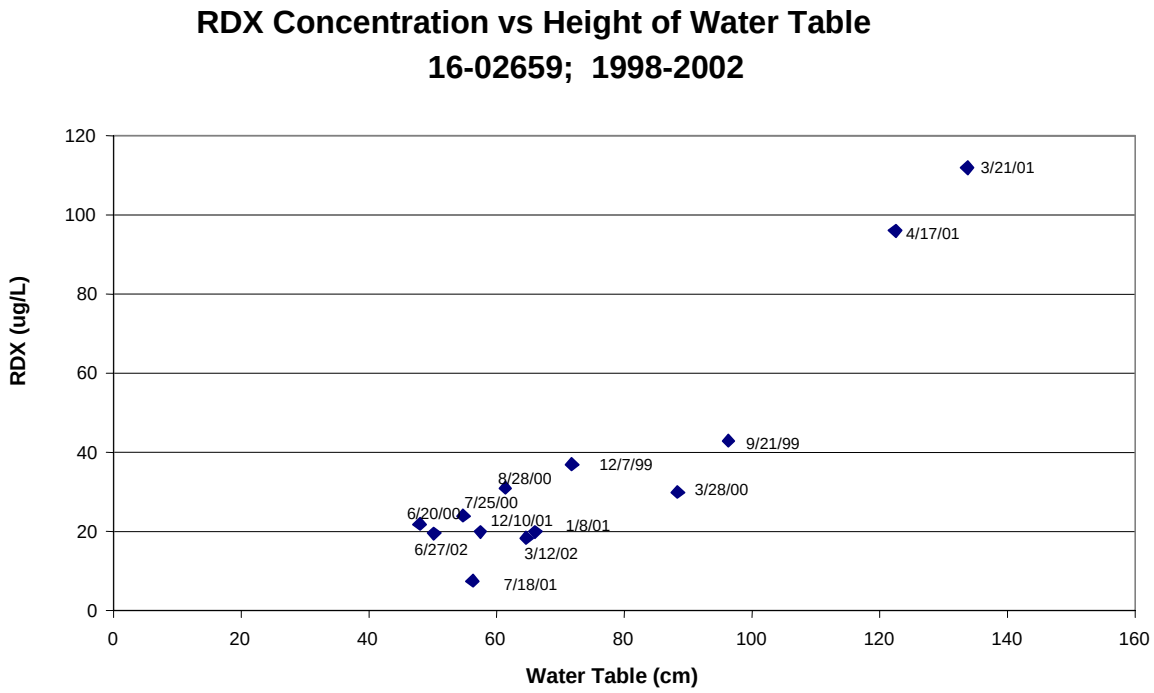


Figure E.6.2. Barium concentrations in Canon de Valle alluvial groundwater from 1998 through 2005.



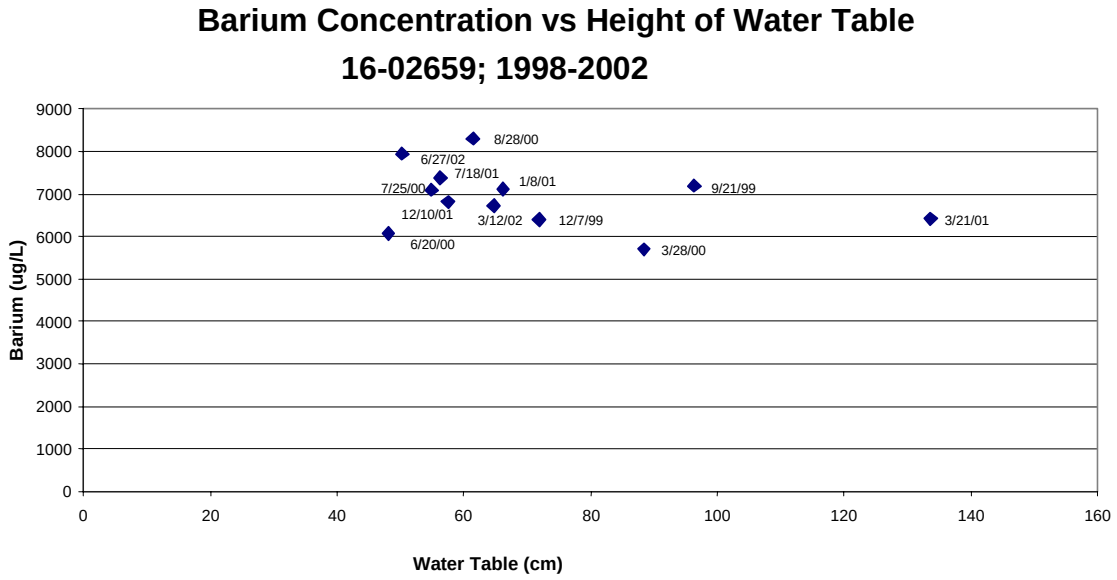


Figure E.6.3. Barium concentrations versus the height of the water table in Canon de Valle alluvial groundwater from 1998 through 2005.

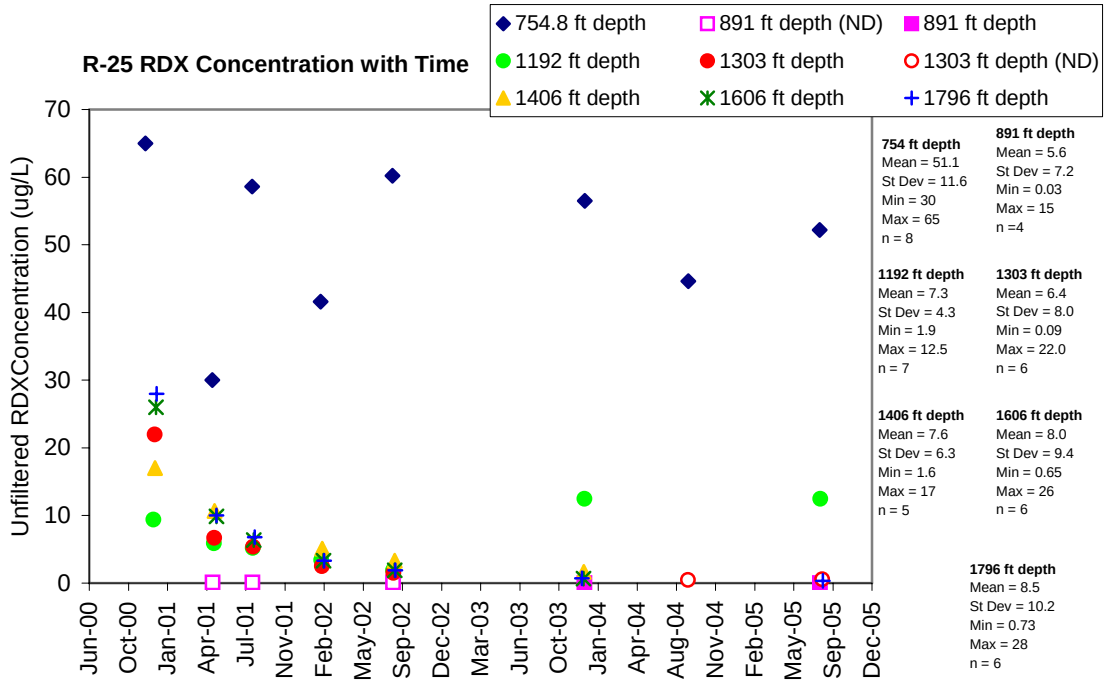


Figure E.6.4. RDX concentrations in regional groundwater well R-25.

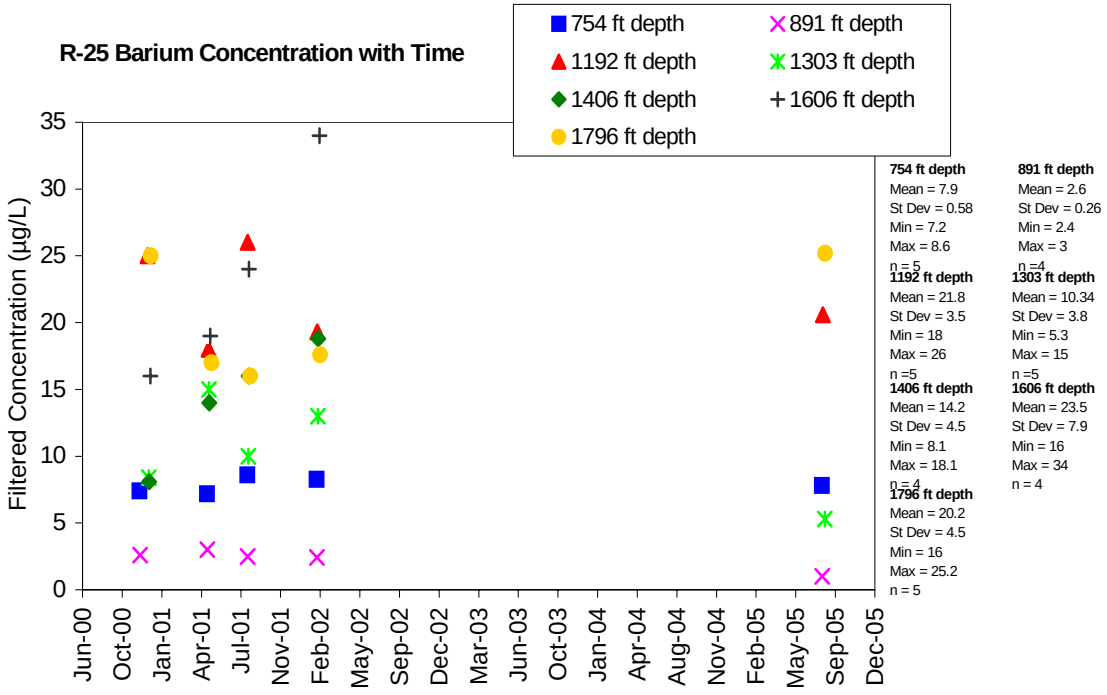


Figure E.6.5. Barium concentrations in regional groundwater well R-25.

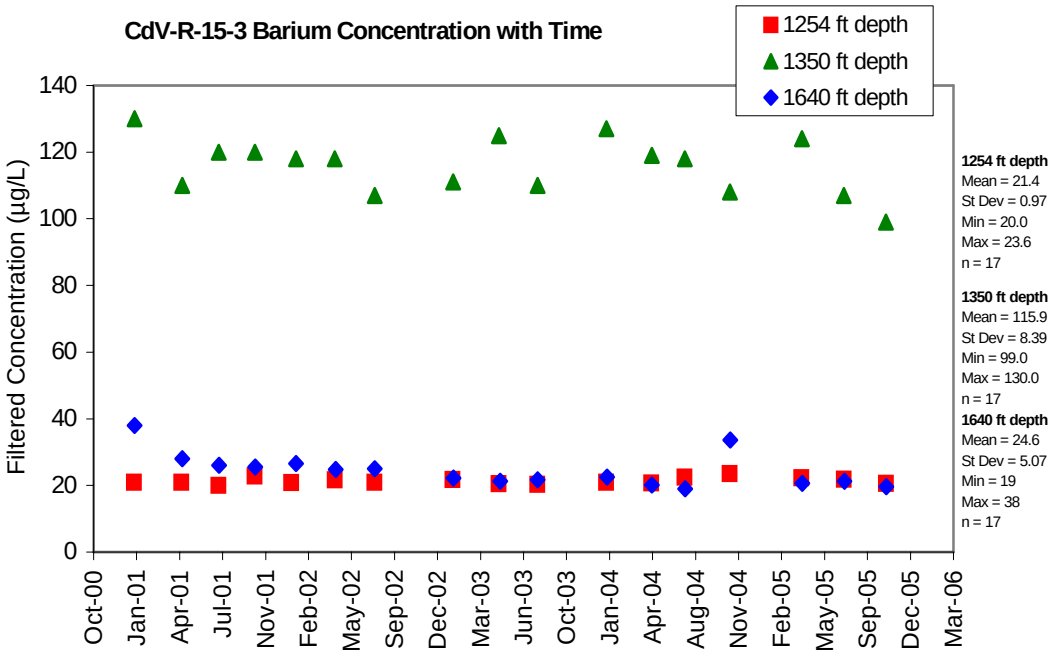


Figure E.6.6. Barium concentrations in regional groundwater well CdV-R-15-3.

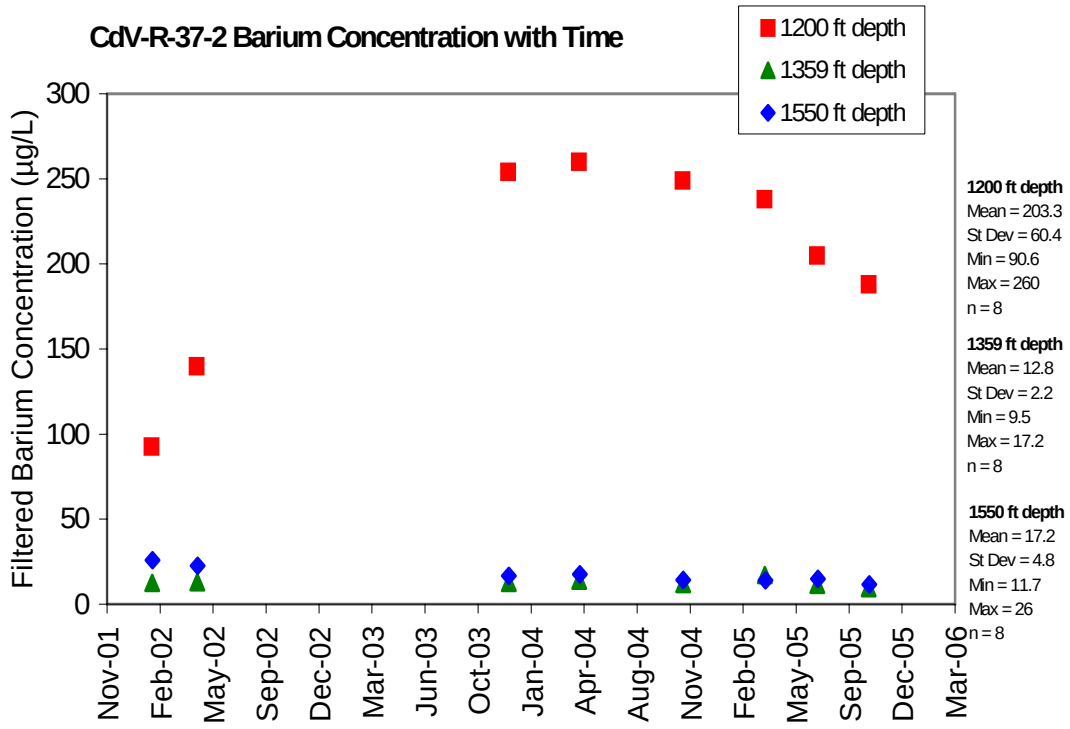


Figure E.6.7. Barium concentrations in regional groundwater well CdV-R-37-2.

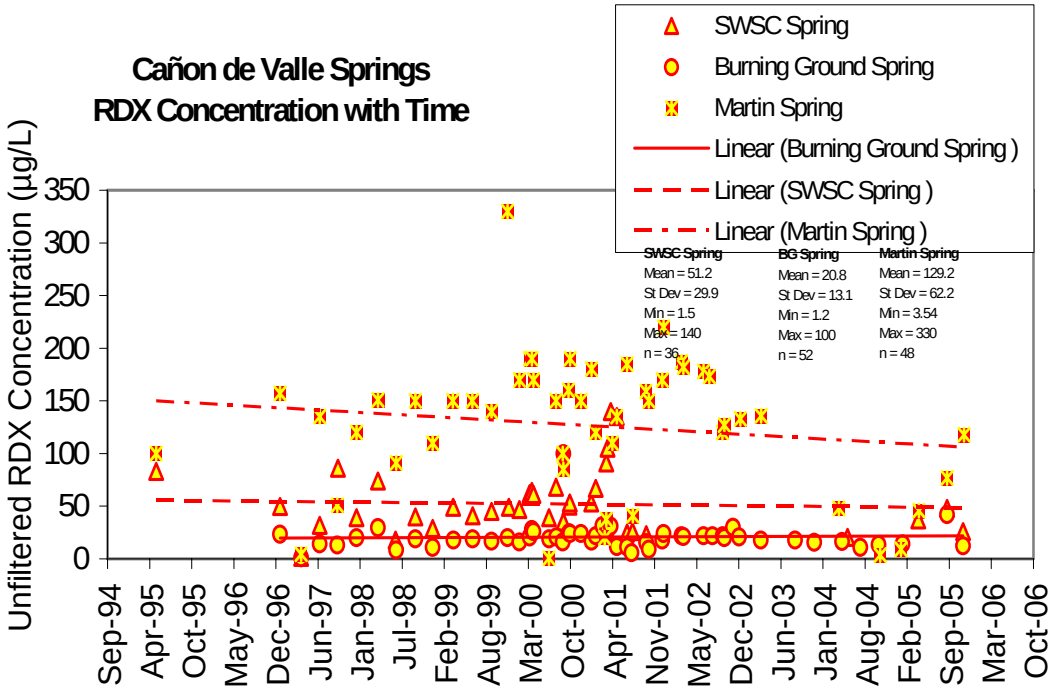


Figure E.6.8. RDX concentrations in Canon de Valle Spring groundwater from 1995 through 2005.

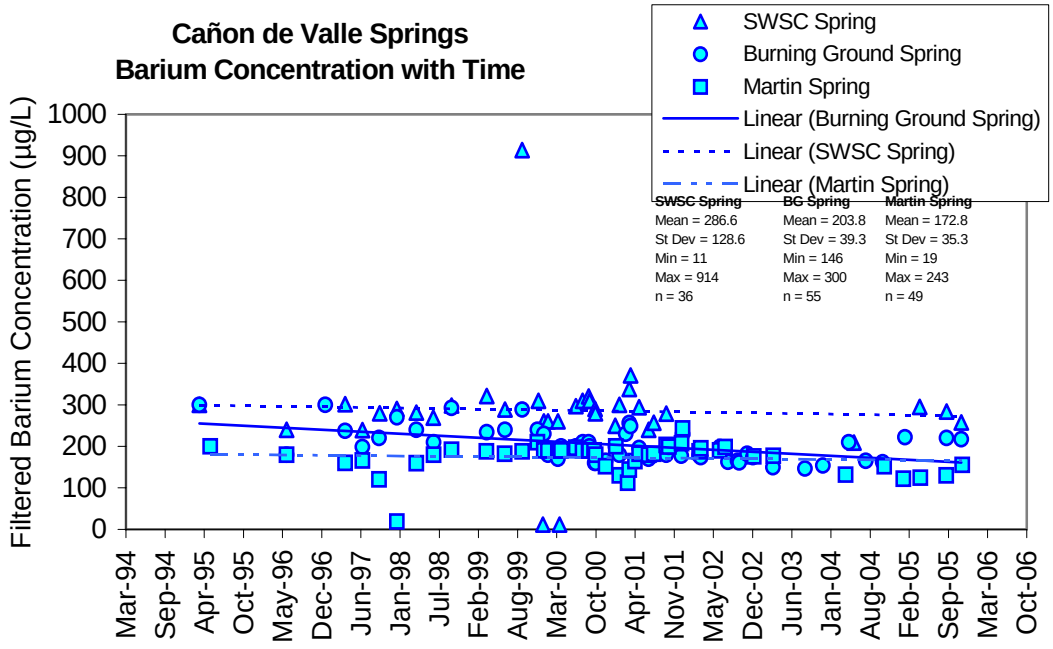


Figure E.6.9. Barium concentrations in Canon de Valle Spring groundwater from 1995 through 2005.

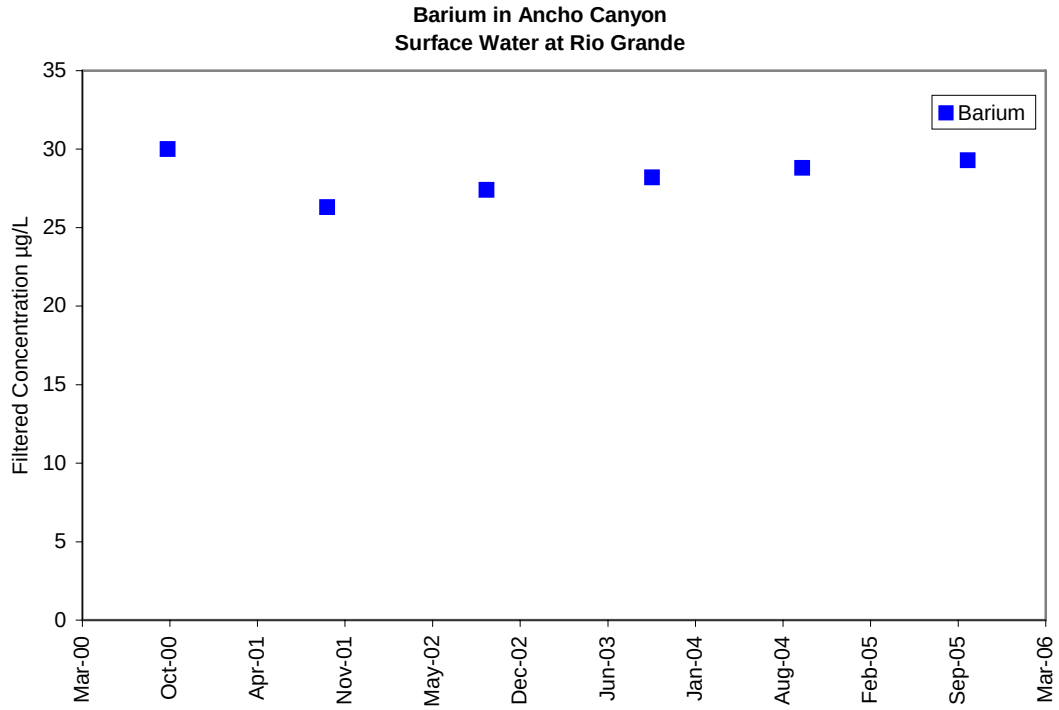


Figure E.7.1. Barium in surface water in lower Ancho Canyon (Ancho at Rio Grande).

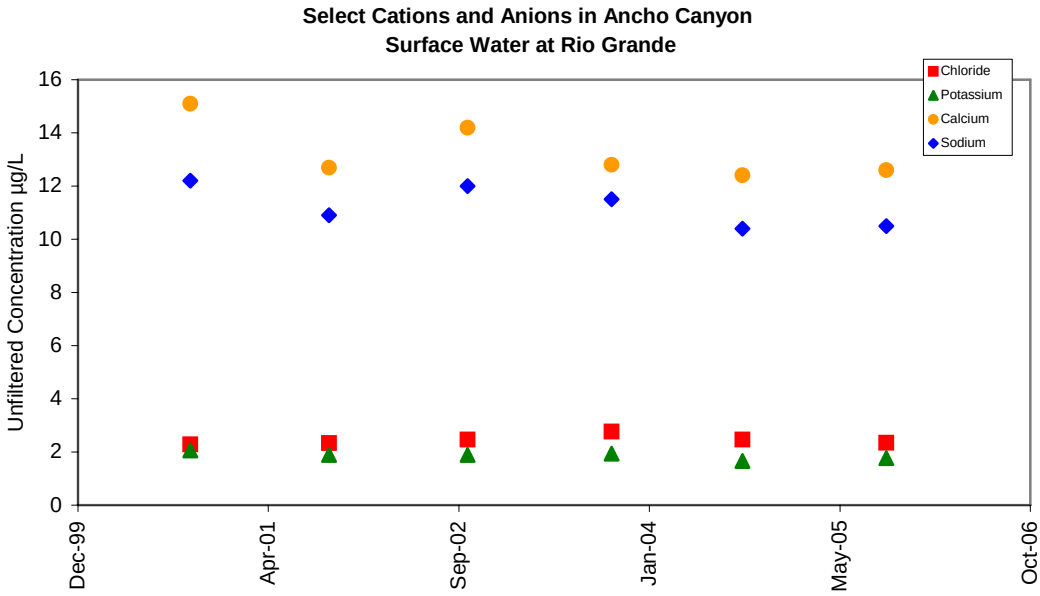


Figure E.7.2. Major anions in surface water in lower Ancho Canyon (Ancho at Rio Grande).

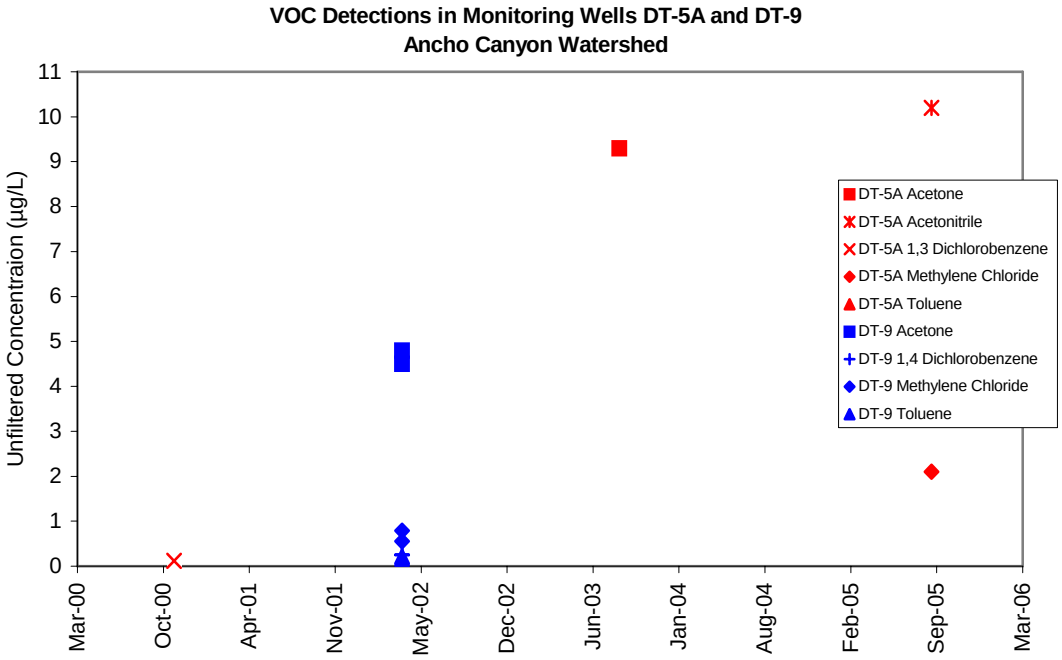


Figure E.7.3 VOCs detected in Ancho Canyon groundwater.

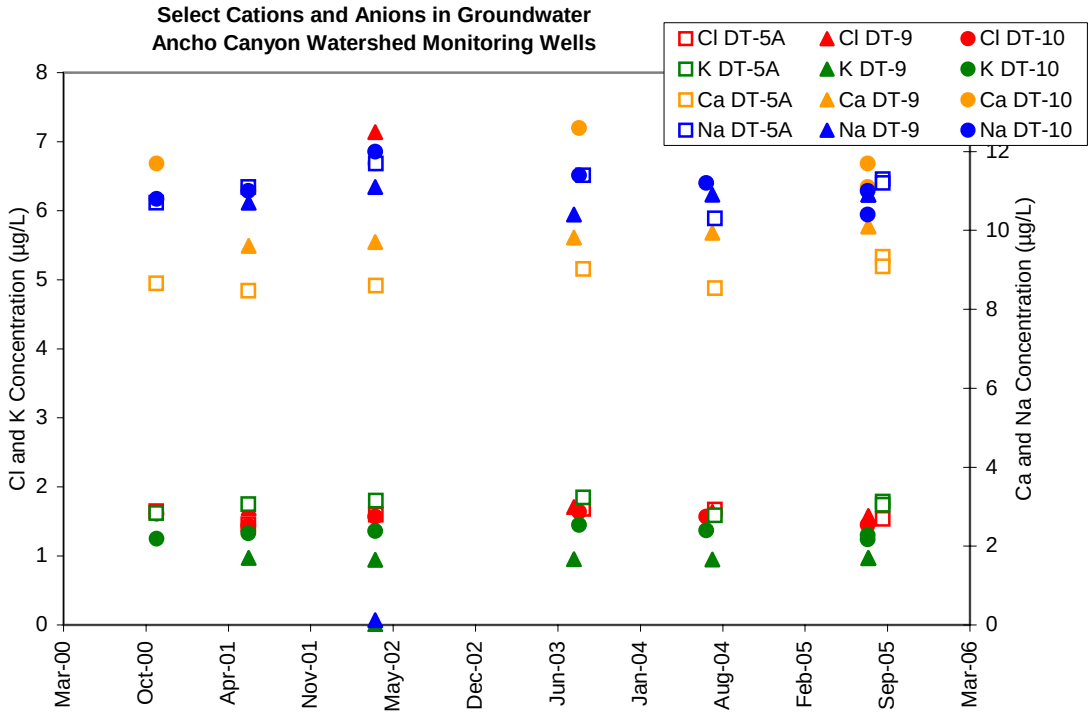


Figure E.7.4. Major ions in Ancho Canyon groundwater.

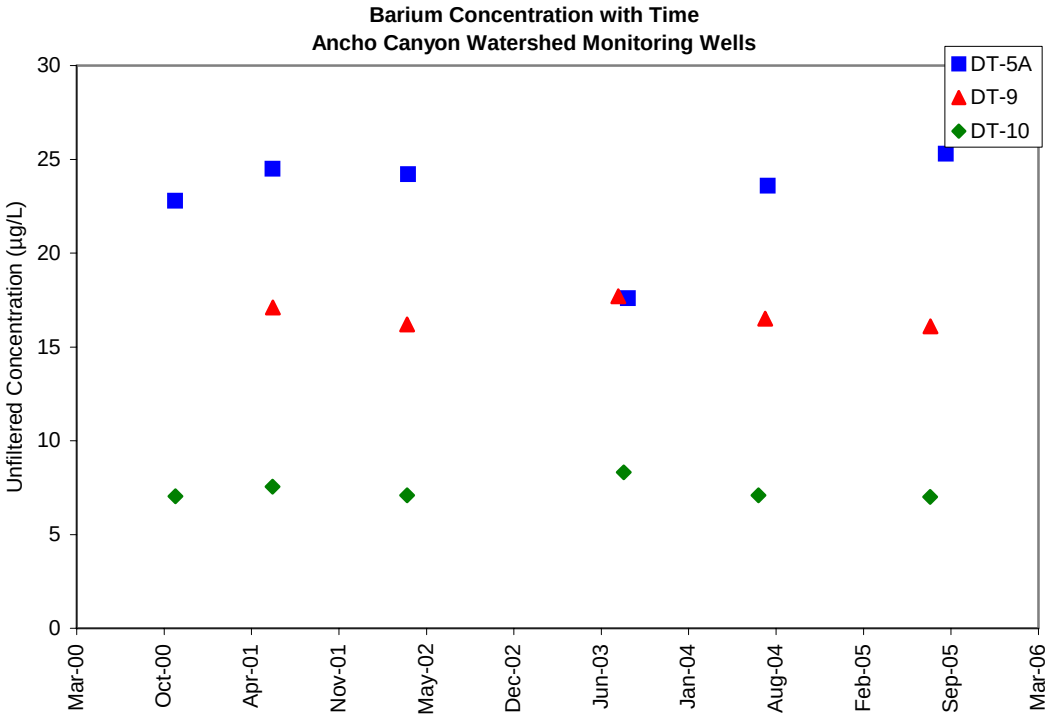


Figure E.7.5. Barium detected in Ancho Canyon groundwater.

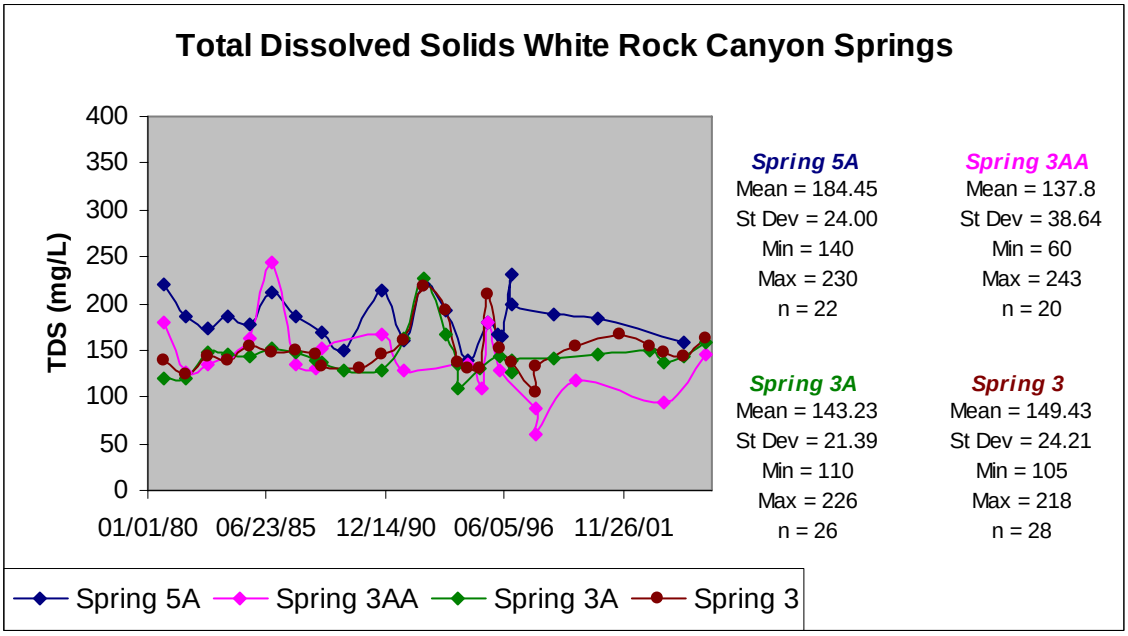


Figure E.8.1. TDS in White Rock Springs groundwater, springs 3, 3A, 3AA, and 5A.

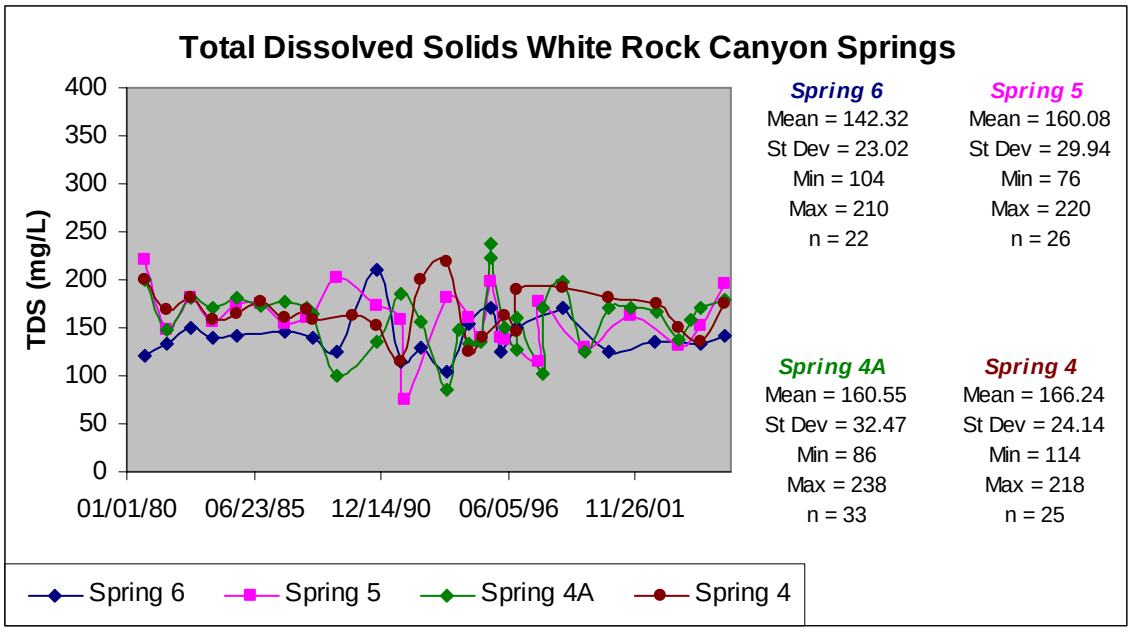


Figure E.8.2. TDS in White Rock Springs groundwater, springs 4, 4A, 5, and 6.

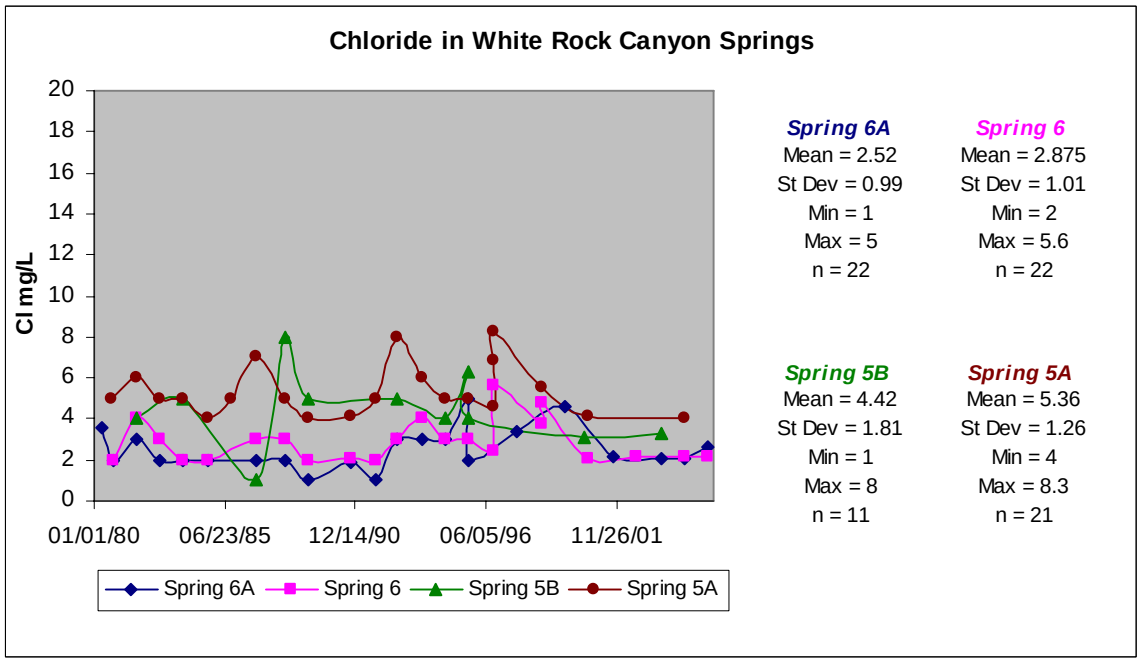


Figure E.8.3. Chloride in White Rock Springs groundwater; springs 5A, 5B, 6, and 6A.

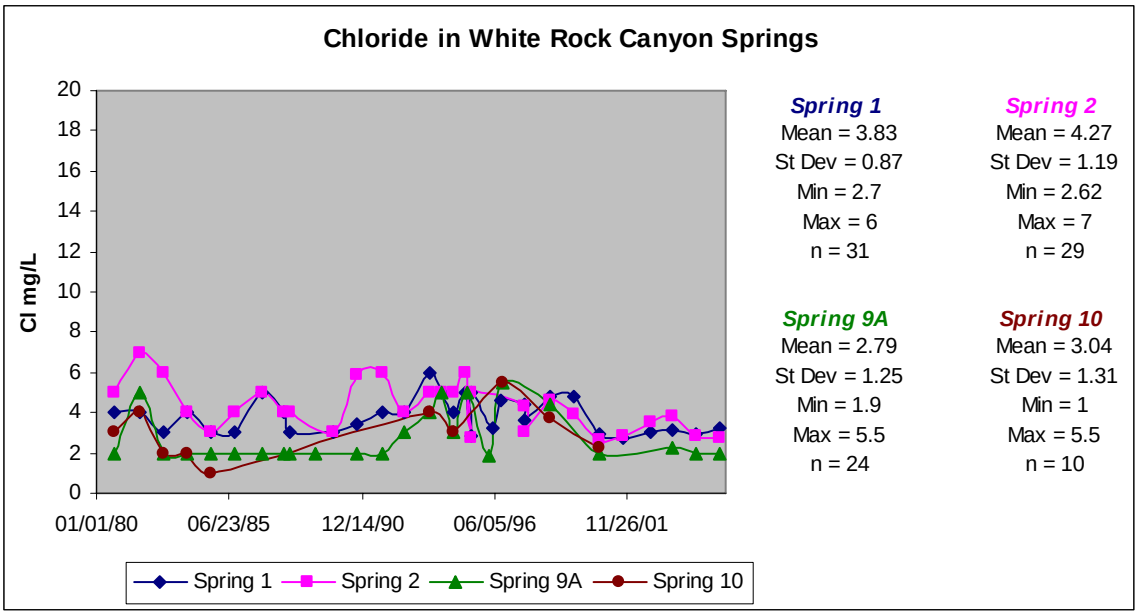


Figure E.8.4. Chloride in White Rock Springs groundwater; springs 1, 2, 9A, and 10.

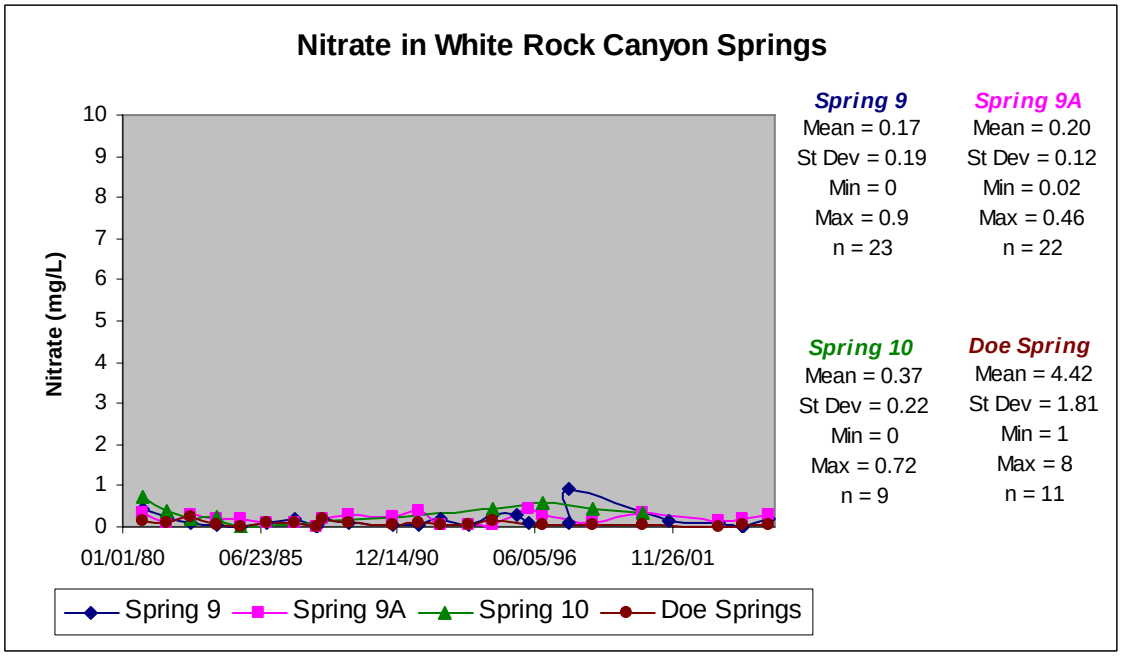


Figure E.8.5. Nitrate in White Rock Springs groundwater; springs 9, 9A,10, and Doe.

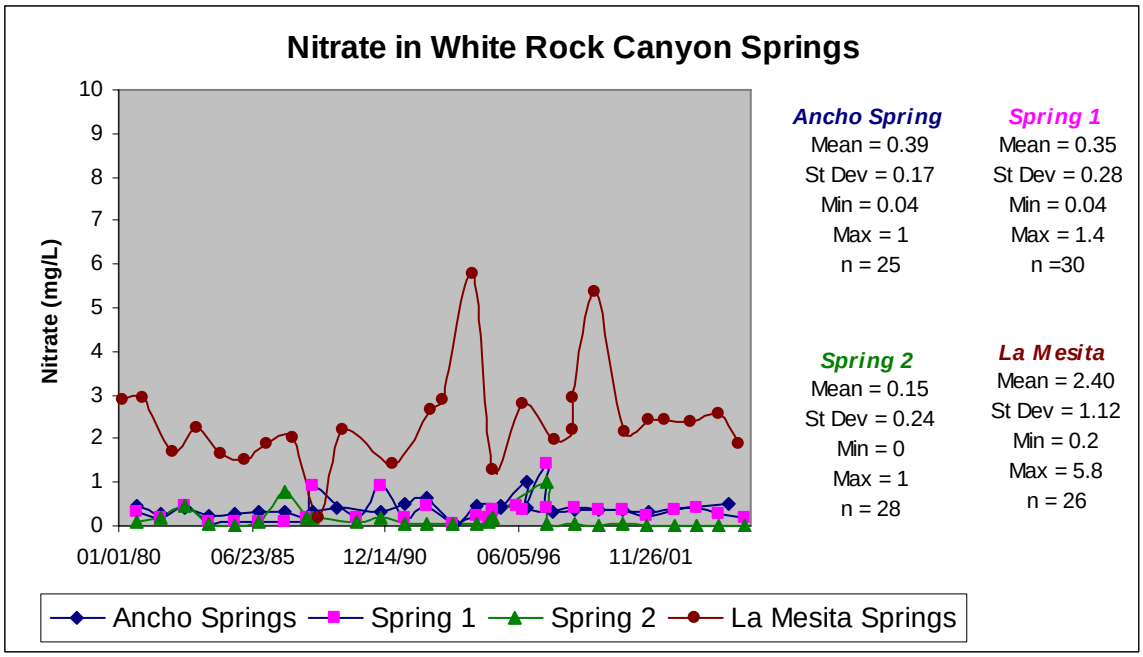


Figure E.8.6. Nitrate in White Rock Springs groundwater; springs Ancho, 1, 2, and La Mesita.

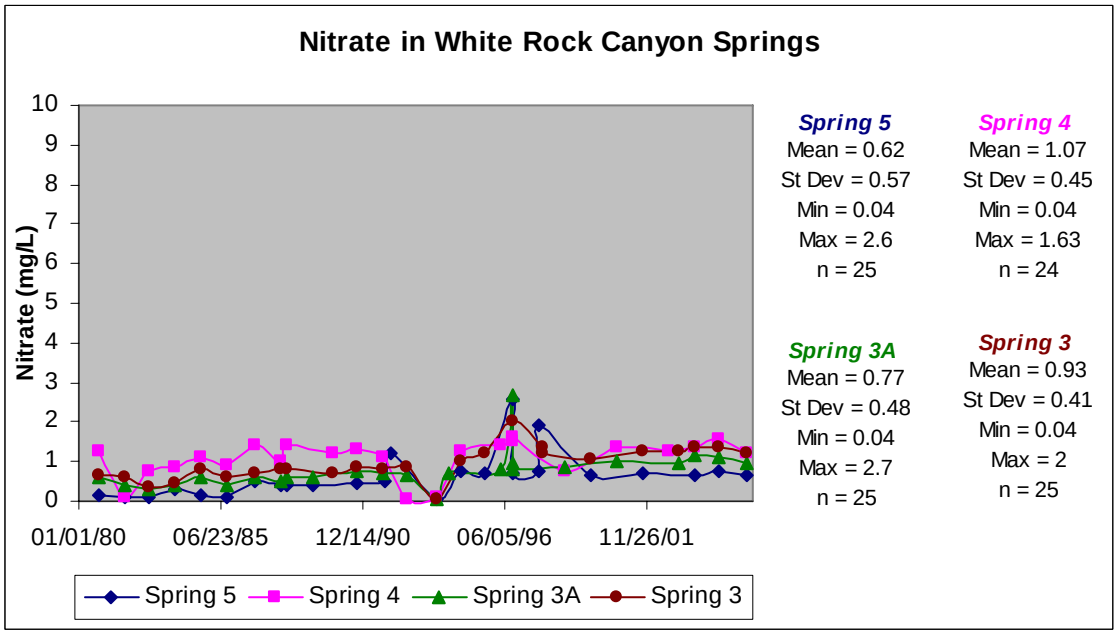


Figure E.8.7. Nitrate in White Rock Springs groundwater; springs 3, 3A, 4, and 5.

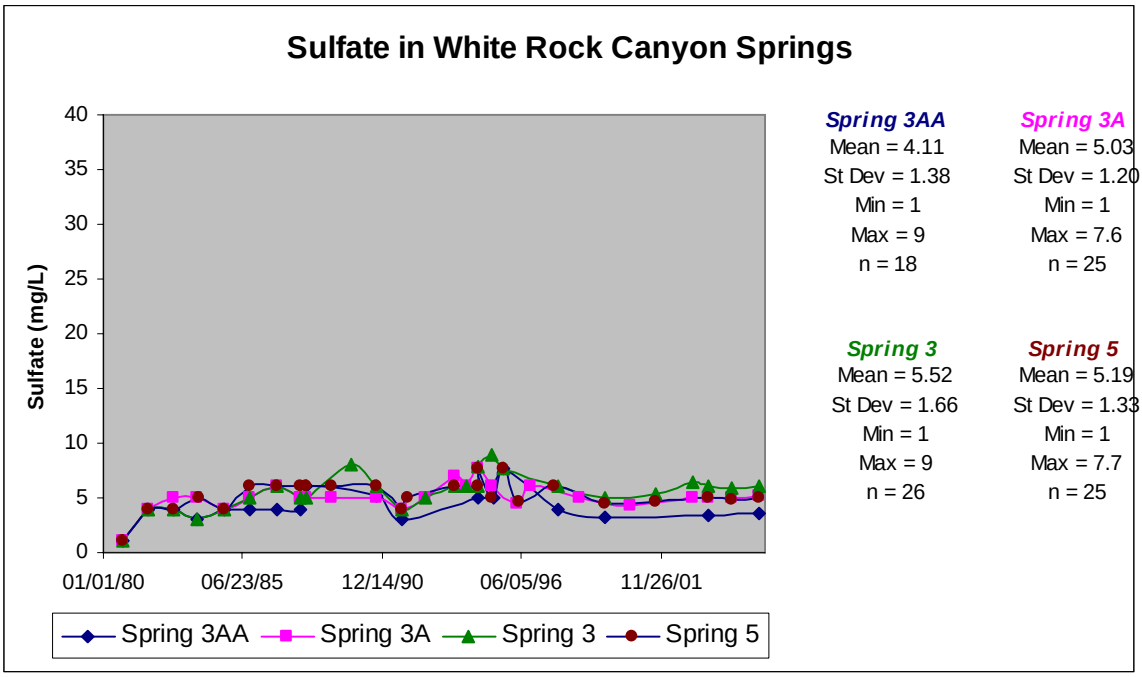


Figure E.8.8. Sulfate in White Rock Springs groundwater; springs 3, 3A, 3AA, and 5.

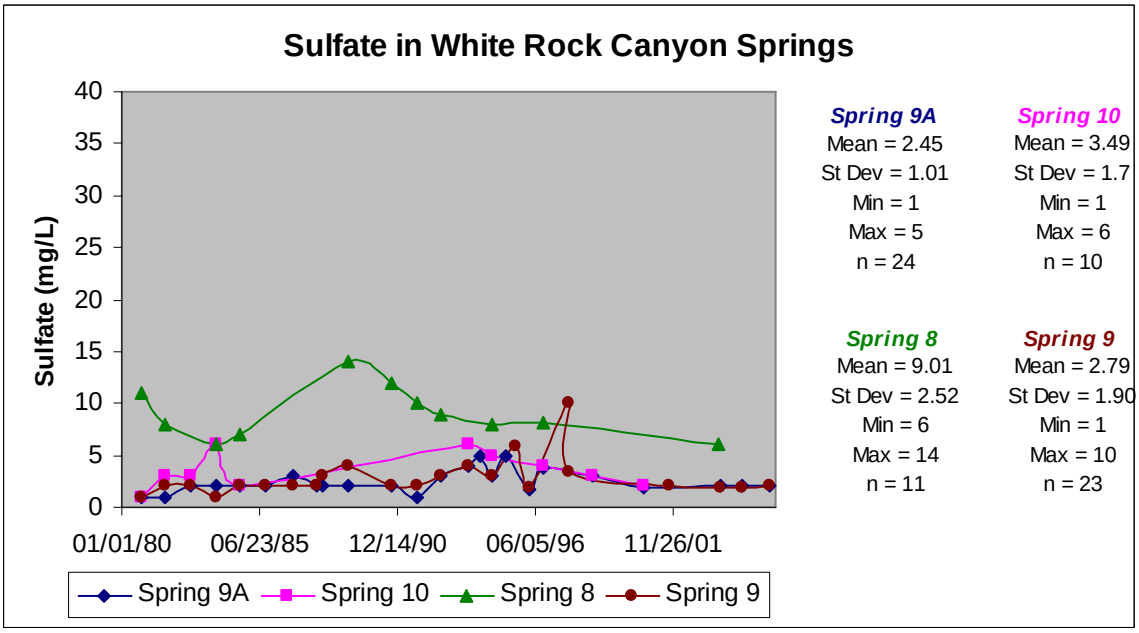


Figure E.8.9. Sulfate in White Rock Springs groundwater; springs 8, 9, 9A, and 10.

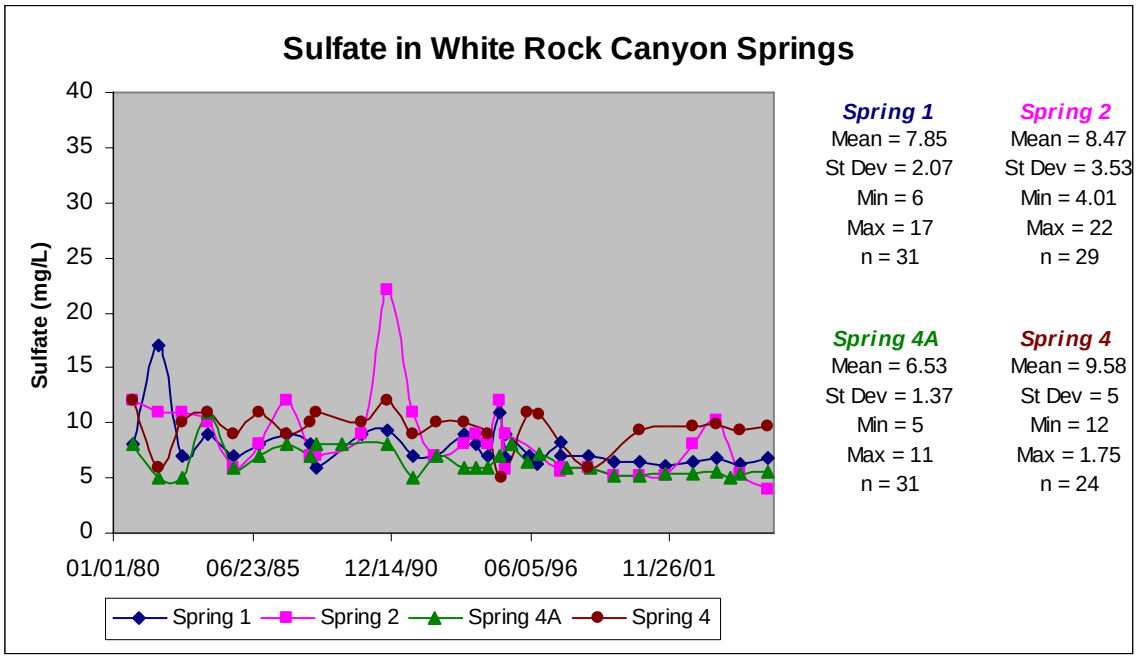


Figure E.8.10. Sulfate in White Rock Springs groundwater; springs 1, 2, 4, and 4A.

Table E.8.1
White Rock Springs locations, analytical suites, and sample collection dates

Location Name	Sample Year	General Inorganics	Explosive Compounds	Stable Isotopes	Metals	Pesticides/ PCBs	RAD	SVOCs	VOCs
Ancho Spring	1980	1			1		1		
	1981	1			1		1		
	1982	1			1		1		
	1983	1			1		1		
	1984	1			1		1		
	1985	1			1		1		
	1986	1			1		1		
	1987	1			1		1		
	1988	1			1		1		
	1989	1			1		1		
	1990	1			1		1		
	1991	1			1		1		
	1992	1			1		1		
	1993	1			1		1		
	1994	2			2		2		
	1995	1	1		1		1		
	1996	2	1		1		1	1	1
	1997	2	2		1		1		
	1998	1	1		1		1		
	1999	1	1		1	1	1	1	1
	2000	1	1		1		1		
	2001	1	1		1	1	1	1	1
	2005	1	1		1	1	1	1	1
Doe Spring	1980	1			1		1		
	1981	1			1		1		
	1982	1			1		1		
	1983	1			1		1		
	1984	1			1		1		
	1985	1			1		1		
	1986	1			1		1		
	1987	1			1		1		
	1988	1			1		1		
	1989	1			1		1		
	1990	1			1		1		
	1991	1			1		1		
	1992	1			1		1		
	1993	1			1		1		
	1994	3			2		3		
	1995	2			1		1		
	1996	1	1		1	1	1	1	1
	1997	1							
	1998	1	1		1		1		
	2000	1	1		1	1	1	1	1

Location Name	Sample Year	General Inorganics	Explosive Compounds	Stable Isotopes	Metals	Pesticides/ PCBs	RAD	SVOCs	VOCs
	2003	1	1		1	1	1	1	1
	2004	2	1		1		1		
	2005	1	1		1		1		
La Mesita Spring	1980	1			1		2		
	1981	1			1		2		
	1982	1					1		
	1983	1			1		2		
	1984	1			1		2		
	1985	1					2		
	1986	1			1		2		
	1987	1			1		2		
	1988	1			1		1		
	1989	1			1		1		
	1991	1			1		1		
	1992	1			1		1		
	1993	1			1		1		
	1994	1			1		1		
	1995	1			1		1		
	1996	1	1		1	1	1	1	1
	1997	1			1		1		
	1998	1	1		1		1		
	1999	1	1		1	1	1	1	1
	2000	1					1		
	2001	2			2	1	2	1	1
	2002	1			1		1		
	2003	1					1		
	2004	1			1	1	1	1	1
	2005	1			1	1	1	1	1
Sacred Spring	1980	1			1		2		
	1982	1					1		
	1983	1			1		2		
	1984	1			1		2		
	1985	1			1		2		
	1986	1			1		2		
	1987	2			2		3		
	1988	1			1		1		
	1989	1			1		1		
	1990	1			1		1		
	1991	1			1		1		
	1992	1			1		1		
	1993	1			1		1		
	1994	1			1		1		
	1995	1	1		1	1	1	1	1
	1996	1	1		1	1	1	1	1
	1997	1			1		1		

Location Name	Sample Year	General Inorganics	Explosive Compounds	Stable Isotopes	Metals	Pesticides/ PCBs	RAD	SVOCs	VOCs
	1998	1	1		1		1		
	1999	1	1		1		1		1
	2000	1					1		
	2001	2			2	2	2	2	3
	2002	1					1		
	2003	1					1		
	2004	1			1	1	1	1	1
	2005	1			1	1	1	1	1
Sandia Spring	1980	1			1		1		
	1981	1			1		1		
	1982	1			1		1		
	1983	1			1		1		
	1984	1			1		1		
	1985	1			1		1		
	1986	1			1		1		
	1987	1			1		1		
	1988	1			1		1		
	1989	1			1		1		
	1990	1			1		1		
	1991	1			1		1		
	1992	1			1		1		
	1993	1			1		1		
	1994	2			2		2		
	1995	1			1		1		
	1996	1	1		1	1	1	1	1
	1997	1			1		1		
	1998	1	1		1		1		
	1999	1	1		1	1	1	1	
	2000	1					1		
	2001	1	1		1	1	1	1	1
	2002	1					1		
	2003	1					1		
	2004	1			1	1	1	1	1
	2005	2			2	2	2	2	2
Spring 1	1980	1			1		1		
	1981	1			1		1		
	1982	1			1		1		
	1983	1			1		1		
	1984	1			1		1		
	1985	1			1		1		
	1986	1			1		1		
	1987	1			1		1		
	1988	1			1		1		
	1989	1			1		1		
	1990	1			1		1		

Location Name	Sample Year	General Inorganics	Explosive Compounds	Stable Isotopes	Metals	Pesticides/ PCBs	RAD	SVOCs	VOCs
	1991	1			1		1		
	1992	1			1		1		
	1993	1			1		1		
	1994	2			2		2		
	1995	2			2		2		
	1996	2	1		2	1	2	1	1
	1997	2			2		1		
	1998	1	1		1		1		
	1999	1	1		1	1	1	1	1
	2000	1			1		1		
	2001	2			2	1	2	1	1
	2002	1					1		
	2003	1					1		
	2004	1			1		1		
	2005	1			1	1	1	1	1
	1980	1			1		1		
	1981	1			1		1		
	1982	1			1		1		
	1983	1			1		1		
	1984	1			1		1		
Spring 10	1992				1		1		
	1993	1			1		1		
	1994	1			1		1		
	1996	1	1		1	1	1	1	1
	1998	1	1		1		1		
	2000	1	1		1	1	1	1	1
Spring 2	1980	1			1		1		
	1981	1			1		1		
	1982	1			1		1		
	1983	1			1		1		
	1984	1			1		1		
	1985	1			1		1		
	1986	1			1		1		
	1987	1			1		1		
	1988	1			1		1		
	1989	1			1		1		
	1990	1			1		1		
	1991	1			1		1		
	1992	1			1		1		
	1993	1			1		1		
	1994	2			2		2		
	1995	2			2		2		
	1996	1							
	1997	1			1		1		
	1998	1	1		1	1	1	1	

Location Name	Sample Year	General Inorganics	Explosive Compounds	Stable Isotopes	Metals	Pesticides/ PCBs	RAD	SVOCs	VOCs
	1999	1	1		1		1		
	2000	1					1		
	2001	2			2	1	2	1	1
	2002	1					1		
	2003	1					1		
	2004	1			1	1	1	1	1
	2005	1			1	1	1	1	1
Spring 2A	1989	1			1		1		
Spring 2B	2003	1			1		1		
	2005	2		2	2				
Spring 3	1980	1			1		1		
	1981	1			1		1		
	1982	1			1		1		
	1983	1			1		1		
	1984	1			1		1		
	1985	1			1		1		
	1986	1			1		1		
	1987	1			1		1		
	1988	1			1		1		
	1989	1			1		1		
	1990	1			1		1		
	1991	1			1		1		
	1992	1			1		1		
	1993	1			1		1		
	1994	2			2		2		
	1995	2			2		2		
	1996	2							
	1997	1			1	1	1	1	1
	1999	1	1		1	1	1	1	1
	2000	1				1		1	1
	2001	2			2	2	2	2	2
	2002	1				1	1	1	1
	2003	2			2	1	2	1	1
	2004	2			1		1		
	2005	5		4	5	1	1	1	1
Spring 3A	1980	1			1		1		
	1981	1			1		1		
	1982	1			1		1		
	1983	1			1		1		
	1984	1			1		1		
	1985	1			1		1		
	1986	1			1		1		
	1987	1			1		1		
	1988	1			1		1		
	1989	1			1		1		

Location Name	Sample Year	General Inorganics	Explosive Compounds	Stable Isotopes	Metals	Pesticides/ PCBs	RAD	SVOCs	VOCs
	1990	1			1		1		
	1991	1			1		1		
	1992	1			1		1		
	1993	1			1		1		
	1994	2			2		2		
	1995	2			1		1		
	1996	2	1		2	1	2	1	1
	1998	1	1		1	1	1	1	
	2000	1			1	1	1	1	1
	2003	2			2	1	2	1	1
	2004	2			1		1		
	2005	6		5	6		1		
Spring 3AA	1980	1			1		1		
	1981	1			1		1		
	1982	1			1		1		
	1983	1			1		1		
	1984	1			1		1		
	1985	1			1		1		
	1986	1			1		1		
	1987	1			1		1		
	1988	1			1		1		
	1990	1			1		1		
	1991	1			1		1		
	1994	1			1		1		
	1995	2			2		2		
	1996	1							
	1997	1			1	1	1	1	1
	1999	1	1		1	1	1	1	1
	2003	1			1	1	1	1	1
	2004	1							
	2005	1			1		1		
Spring 3B	1980	1			1		1		
	1981	1			1		1		
	1982	1			1		1		
	1983	1			1		1		
	1984	1			1		1		
	1985	1			1		1		
	1986	1			1		1		
	1987	1			1		1		
	1988	1			1		1		
	1989	1			1		1		
	1990	1			1		1		
	1991	1			1		1		
	1992	1			1		1		
	1993	1			1		1		

Location Name	Sample Year	General Inorganics	Explosive Compounds	Stable Isotopes	Metals	Pesticides/ PCBs	RAD	SVOCs	VOCs
	1994	1			1		1		
Spring 3C	2004	1							
	2005	1		1	1				
Spring 4	1980	1			1		1		
	1981	1			1		1		
	1982	1			1		1		
	1983	1			1		1		
	1984	1			1		1		
	1985	1			1		1		
	1986	1			1		1		
	1987	1			1		1		
	1988	1			1		1		
	1989	1			1		1		
	1990	1			1		1		
	1991	1			1		1		
	1992	1			1		1		
	1993	1			1		1		
	1994	1			1		1		
	1995	2			1		1		
	1996	2	1		2	1	2	1	1
	1998	1	1		1	1	1	1	
	2000	1	1		1	1	1	1	1
	2001	3	1		2	1	2	1	2
	2002	2	1		1	1	2	1	1
	2003	1	1		1	1	1	1	1
	2004	2			1		1		
	2005	4		3	4	1	1	1	1
Spring 4A	1980	1			1		1		
	1981	1			1		1		
	1982	1			1		1		
	1983	1			1		1		
	1984	1			1		1		
	1985	1			1		1		
	1986	1			1		1		
	1987	1			1		1		
	1988	1			1		1		
	1989	1			1		1		
	1990	1			1		1		
	1991	1			1		1		
	1992	1			1		1		
	1993	1			1		1		
	1994	2			2		2		
	1995	2			2		2		
	1996	2	1		2	1	2	1	1
	1997	1	1		1		1		

Location Name	Sample Year	General Inorganics	Explosive Compounds	Stable Isotopes	Metals	Pesticides/ PCBs	RAD	SVOCs	VOCs
	1998	1	1		1		1		
	1999	1	1		1	1	1	1	1
	2000	1	1				1		
	2001	3	1		2	1	2	1	1
	2002	2	1				2		
	2003	1	1				1		
	2004	3	2		2	2	2	2	2
	2005	5	1	4	5	1	1	1	1
Spring 4AA	1995	1							
	2001	1							
	2002	1					1		
	2004	2							
	2005	5		4	4				
Spring 4B	1995	2			1		1		
	1996	1							
	2001	2							
	2002	1					1		
	2004	2							
	2005	5		4	4				
Spring 4C	1995	1							
	1996	2							
	2001	1							
	2002	1					1		
	2004	2							
	2005	5		4	4				
Spring 5	1980	1			1		1		
	1981	1			1		1		
	1982	1			1		1		
	1983	1			1		1		
	1984	1			1		1		
	1985	1			1		1		
	1986	1			1		1		
	1987	1			1		1		
	1988	1			1		1		
	1989	1			1		1		
	1990	1			1		1		
	1991	1			1		1		
	1992	1			1		1		
	1993	1			1		1		
	1994	1			1		1		
	1995	2			2		2		
	1996	3			1		1		
	1997	1	1		1	1	1	1	1
	1999	1	1		1	1	1	1	1
	2001	1	1		1	1	1	1	1

Location Name	Sample Year	General Inorganics	Explosive Compounds	Stable Isotopes	Metals	Pesticides/ PCBs	RAD	SVOCs	VOCs
	2003	1	1		1	1	1	1	1
	2004	3	2		2		2		
	2005	5		4	5		1		
Spring 5A	1980	1			1		1		
	1981	1			1		1		
	1982	1			1		1		
	1983	1			1		1		
	1984	1			1		1		
	1985	1			1		1		
	1986	1			1		1		
	1988	1			1		1		
	1989	1			1		1		
	1990	1			1		1		
	1991	1			1		1		
	1992	1			1		1		
	1993	1			1		1		
	1994	1			1		1		
	1995	1			1		1		
	1996	3	1		1	1	1	1	1
	1998	1	1		1		1		
	2000	1	1		1	1	1	1	1
	2004	1	1		1	1	1	1	1
Spring 5AA	1980	1			1		1		
	1981	1			1		1		
	1982	1			1		1		
	1983	1			1		1		
	1984	1			1		1		
	1985	1			1		1		
	1986	1			1		1		
	1987	1			1		1		
	1988	1			1		1		
	1991	1			1		1		
Spring 5B	1981	1			1		1		
	1983	1			1		1		
	1986	1			1		1		
	1988	1			1		1		
	1989	1			1		1		
	1992	1			1		1		
	1994	1			1		1		
	1995	1			1		1		
	2000	1	1		1	1	1	1	1
	2003	1	1		1	1	1	1	1
Spring 6	1980	1			1		1		
	1981	1			1		1		
	1982	1			1		1		

Location Name	Sample Year	General Inorganics	Explosive Compounds	Stable Isotopes	Metals	Pesticides/ PCBs	RAD	SVOCs	VOCs
	1983	1			1		1		
	1984	1			1		1		
	1986	1			1		1		
	1988	1			1		1		
	1989	1			1		1		
	1990	1			1		1		
	1991	1			1		1		
	1992	1			1		1		
	1993	1			1		1		
	1994	1			1		1		
	1995	1			1		1		
	1996	2	1		1	1	1	1	1
	1997	1			1				
	1998	1	1		1		1		
	2000	2	2		2	2	2	1	2
	2002	1	1		1	1	1	1	1
	2004	2	1		1	1	1	1	1
	2005	4	1	3	4	1	1	1	1
Spring 6A	1980	2			2		1		
	1981	1			1		1		
	1982	1			1		1		
	1983	1			1		1		
	1984	1			1		1		
	1986	1			1		1		
	1988	1			1		1		
	1989	1			1		1		
	1990	1			1		1		
	1991	1			1		1		
	1992	1			1		1		
	1993	1			1		1		
	1994	1			1		1		
	1995	1			1		1		
	1997	1	1		1	1	1	1	1
	1999	1	1		1		1		
	2001	2	1		2	1	2	1	1
	2003	1	1		1	1	1	1	1
	2004	2	1		1		1		
	2005	1	1		1		1		
Spring 7	1980	1			1		1		
	1981	1			1		1		
	1982	1			1		1		
	1983	1			1		1		
	1984	1			1		1		
	1988	1			1		1		
	1989	1			1		1		

Location Name	Sample Year	General Inorganics	Explosive Compounds	Stable Isotopes	Metals	Pesticides/ PCBs	RAD	SVOCs	VOCs
	1990	1			1		1		
	1991	1			1		1		
	1992	1			1		1		
	1993	1			1		1		
	1994	1			1		1		
	1995	1			1		1		
	1997	1	1		1	1	1	1	1
	1999	1	1		1	1	1	1	1
	2001								1
Spring 8	1980	1			1		1		
	1981	1			1		1		
	1983	1			1		1		
	1984	1			1		1		
	1989	1			1		1		
	1990	1			1		1		
	1991	1			1		1		
	1992	1			1		1		
	1994	1			1		1		
	1996	1	1		1	1	1	1	1
	2003	1	1		1	1	1	1	1
Spring 8A	1980	1			1		1		
	1981	1			1		1		
	1982	1			1		1		
	1983	1			1		1		
	1984	1			1		1		
	1985	1			1		1		
	1986	1			1		1		
	1987	1			1		1		
	1988	1			1		1		
	1989	1			1		1		
	1990	1			1		1		
	1991	1			1		1		
	1992	1			1		1		
	1993	1			1		1		
	1994	3			2		3		
	1995	1							
	1996	2	1		2	1	2	1	1
	1997	1			1		1		
	1998	1	1		1		1		
	2000	1	1		1	1	1	1	1
	2003	1	1		1	1	1	1	1
	2004	1							
	2005	1	1		1	1	1	1	1
Spring 8B	1990	1			1		1		
	1994	1			1		1		

Location Name	Sample Year	General Inorganics	Explosive Compounds	Stable Isotopes	Metals	Pesticides/ PCBs	RAD	SVOCs	VOCs
	1995	1			1		1		
	1996						1		
	1997	1	1		1	1	1	1	1
	1999	1	1		1		1		
Spring 9	1980	1			1		1		
	1981	1			1		1		
	1982	1			1		1		
	1983	1			1		1		
	1984	1			1		1		
	1985	1			1		1		
	1986	1			1		1		
	1987	1			1		1		
	1988	1			1		1		
	1989	1			1		1		
	1990	1			1		1		
	1991	1			1		1		
	1992	1			1		1		
	1993	1			1		1		
	1994	2			1		2		
	1995	2	1		1		1		
	1996	1	1		1		1		
	1997	1	1		1	1	1	1	1
	2001	2	1		2	1	2	1	1
	2003	1	1		1	1	1	1	1
	2004	2	1		1		1		
	2005	1	1		1		1		
Spring 9A	1980	1			1		1		
	1981	1			1		1		
	1982	1			1		1		
	1983	1			1		1		
	1984	1			1		1		
	1985	1			1		1		
	1986	1			1		1		
	1987	1			1		1		
	1988	1			1		1		
	1989	1			1		1		
	1990	1			1		1		
	1991	1			1		1		
	1992	1			1		1		
	1993	1			1		1		
	1994	3			2		3		
	1995	2			1				
	1996	2	1		2	1	2	1	1
	1998	1	1		1		1		
	2000	1	1		1	1	1	1	1

Location Name	Sample Year	General Inorganics	Explosive Compounds	Stable Isotopes	Metals	Pesticides/ PCBs	RAD	SVOCs	VOCs
	2003	1	1		1	1	1	1	1
	2004	2	1		1		1		
	2005	5	1	4	5		1		
Spring 9B	1980	1			1		1		
	1990	1			1		1		
	1995	2	1		2		2		
	1996	1	1		1	1	1	1	1
	1997	1							
	1998	1	1		1		1		
Spring 9D	1995	1							

Table E.8.2.
Sampling Frequency by Year for White Rock Canyon Springs

Year	Ancho Spring	Doe Spring	Spring 9A	Spring 4A	Spring 4AA	La Mesita Spring	Sacred Spring	Spring 1	Spring 2	Spring 2B	Spring 3	Spring 3A	Spring 3AA	Spring 3C	Spring 4	Spring 4B	Spring 4C	Spring 5	Spring 5A	Spring 5B	Spring 6	Spring 6A	Spring 7	Spring 8	Spring 8A	Spring 9	Spring 9B	Sandia Spring	Spring 10	Spring 2A	Spring 3B	Spring 5AA	Spring 8B	Spring 9D
1980	2	1	1	1		2	2	1	1		1	1	1		1			1	1		1	2	1	1	1	1	1	1	1		1	1		
1981	1	1	1	1		3		1	1		1	1	1		1			1	1	1	1	1	1	1	1	1		1	1		1	1		
1982	1	1	1	1		1	1	1	1		1	1	1		1			1	1		1	1	1		1	1		1	1		1	1		
1983	1	1	1	1		2	2	1	1		1	1	1		1			1	1	1	1	1	1	1	1	1		1	1		1	1		
1984	1	1	1	1		2	2	1	1		1	1	1		1			1	1		1	1	1	1	1	1		1	1		1	1		
1985	1	1	1	1		2	2	1	1		1	1	1		1			1	1						1	1		1			1	1		
1986	1	1	1	1		2	2	1	1		1	1	1		1			1	1	1	1	1			1	1		1			1	1		
1987	1	1	1	1		2	3	1	1		1	1	1		1			1							1	1		1			1	1		
1988	1	1	1	1		1	1	1	1		1	1	1		1			1	1	1	1	1	1		1	1		1			1	1		
1989	1	1	1	1		1	1	1	1		1	1			1			1	1	1	1	1	1	1	1	1		1		1	1			
1990	1	1	1	1			1	1	1		1	1	1		1			1	1		1	1	1	1	1	1	1	1			1		1	
1991	1	1	1	1		1	1	1	1		1	1	1		1			1	1		1	1	1	1	1	1		1			1	1		
1992	1	1	1	1		1	1	1	1		1	1			1			1	1	1	1	1	1	1	1	1		1	1		1			
1993	1	1	1	1		1	1	1	1		1	1			1			1	1		1	1	1		1	1		1	1		1			
1994	2	3	3	2		1	1	2	2		2	2	1		1			1	1	1	1	1	1	1	3	2		2	1		1		1	
1995	1	2	2	2	1	1	1	2	2		2	2	2		2	2	1	2	1	1	1	1	1		1	2	2	1					1	1
1996	2	1	2	2		1	1	2	1		2	2	1		2	1	2	3	3		2			1	2	2	1	1	1				1	
1997	2	1		1		1	1	2	1		1		1					1			1	1	1		1	1	1	1					1	
1998	1	1	1	1		1	1	1	1			1			1				1		1				1		1	1	1					
1999	1			1		1	1	1	1		1		1					1				1	1					1					1	
2000	1	1	1	1		1	1	1	1		1	1			1				1	1	2				1			1	1					
2001	1			3	1	2	3	2	2		2				4	2	1	1				2	1			2		1						
2002				2	1	1	1	1	1		1				2	1	1				1							1						
2003		1	1	1		1	1	1	1	1	2	2	1		1			1		1		1		1	1	1		1						
2004		2	2	3	2	1	1	1	1		2	2	1	1	2	2	2	3	1		2	2			1	2		1						
2005	1	1	5	5	5	1	1	1	1	2	5	6	1	1	4	5	5	5			4	1			1	1		2						
sum	27	27	31	38	10	34	34	31	29	3	35	32	20	2	34	13	12	32	21	10	27	23	16	11	26	27	7	28	11	1	15	10	6	1

Table E.8.3
LC-MSMS Perchlorate Results for Springs in White Rock Canyon

Location Name	Start Date	Field Prep Code	Symbol	Result	Method Detection Limit	Unit of Measure	Sample Identifier
Ancho Spring	03/16/04	UF	<	0.2		ug/L	GU04030GACA01
Ancho Spring	02/02/05	UF		0.439	0.05	ug/L	GU05010GSAW01
Doe Spring	03/18/04	UF		0.232		ug/L	GU04030GSDW01
Doe Spring	09/15/04	UF		0.131	0.05	ug/L	GU04090GSDW01
Doe Spring	09/28/05	F		0.223	0.05	ug/L	GF05080GSDW01
La Mesita Spring	08/24/04	UF		0.854	0.05	ug/L	GU04080GSML01
La Mesita Spring	07/12/05	F		0.894	0.05	ug/L	GF05070GSML01
Sacred Spring	08/24/04	UF		0.154	0.05	ug/L	GU04080GSDS01
Sacred Spring	07/13/05	F		0.122	0.05	ug/L	GF05070GSDS01
Sandia Spring	09/13/04	UF		0.149	0.05	ug/L	GU04090GSSW01
Sandia Spring	01/28/05	UF		0.451	0.05	ug/L	GU05010GSSW01
Sandia Spring	09/08/05	F		0.317	0.05	ug/L	GF05090GSSW01
Spring 1	09/13/04	UF		0.288	0.05	ug/L	GU04090G1SW01
Spring 1	09/26/05	F		0.275	0.05	ug/L	GF05090G1SW01
Spring 2	09/13/04	UF	<	0.05	0.05	ug/L	GU04090G2SW01
Spring 2	09/26/05	F	<	0.05	0.05	ug/L	GF05090G2SW01
Spring 3	03/08/04	UF		0.424		ug/L	GU04030G3SW01
Spring 3	09/13/04	UF		0.455	0.05	ug/L	GU04090G3SW01
Spring 3	09/26/05	F		0.419	0.05	ug/L	GF05090G3SW01
Spring 3A	03/08/04	UF		0.398		ug/L	GU04030GA3S01
Spring 3A	09/13/04	UF		0.5	0.05	ug/L	GU04090GA3S01
Spring 3A	09/26/05	F		0.425	0.05	ug/L	GF05090GA3S01
Spring 3AA	03/08/04	UF		0.43		ug/L	GU04030GAA301
Spring 3AA	09/26/05	F		0.424	0.05	ug/L	GF05090GAA301
Spring 3C	03/08/04	UF		0.403		ug/L	GU04030GS3C01
Spring 4	03/05/04	UF		0.609		ug/L	GU04030G4SW01
Spring 4	09/13/04	UF		0.619	0.05	ug/L	GU04090G4SW01
Spring 4	09/26/05	F		0.619	0.05	ug/L	GF05090G4SW01
Spring 4A	03/05/04	UF		0.463		ug/L	GU04030GA4S01
Spring 4A	04/15/04	UF		0.496		ug/L	GU04040GA4S01
Spring 4A	09/14/04	UF		0.524	0.05	ug/L	GU04090GA4S01
Spring 4A	09/27/05	F		0.509	0.05	ug/L	GF05090GA4S01
Spring 4AA	03/05/04	UF		0.497		ug/L	GU04030GAA401
Spring 4AA	09/14/04	UF		0.548	0.05	ug/L	GU04090GAA401
Spring 4AA	09/27/05	F		0.563	0.05	ug/L	GF05090GAA401
Spring 4B	03/05/04	UF		0.445		ug/L	GU04030GB4S01
Spring 4B	09/14/04	UF		0.295	0.05	ug/L	GU04090GB4S01
Spring 4B	09/26/05	F		0.321	0.05	ug/L	GF05090GB4S01
Spring 4C	03/05/04	UF		0.646		ug/L	GU04030GC4S01
Spring 4C	09/14/04	UF		0.622	0.05	ug/L	GU04090GC4S01
Spring 4C	09/27/05	F		0.643	0.05	ug/L	GF05090GC4S01
Spring 5	03/11/04	UF		0.404		ug/L	GU04030G5SW01
Spring 5	09/14/04	UF		0.423	0.05	ug/L	GU04090G5SW01
Spring 5	09/27/05	F		0.405	0.05	ug/L	GF05090G5SW01

Location Name	Start Date	Field Prep Code	Symbol	Result	Method Detection Limit	Unit of Measure	Sample Identifier
Spring 5A	09/14/04	UF		0.334	0.05	ug/L	GU04090GA5S01
Spring 6	03/12/04	UF		0.352		ug/L	GU04030G6SW01
Spring 6	09/14/04	UF		0.349	0.05	ug/L	GU04090G6SW01
Spring 6	09/27/05	F		0.311	0.05	ug/L	GF05090G6SW01
Spring 6A	03/12/04	UF		0.293		ug/L	GU04030GA6S01
Spring 6A	09/14/04	UF		0.323	0.05	ug/L	GU04090GA6S01
Spring 6A	09/27/05	F		0.306	0.05	ug/L	GF05090GA6S01
Spring 8A	03/18/04	UF		0.26		ug/L	GU04030GA8S01
Spring 8A	01/26/05	UF		0.237	0.05	ug/L	GU05010GA8S01
Spring 9	03/18/04	UF		0.281		ug/L	GU04030G9SW01
Spring 9	09/14/04	UF		0.143	0.05	ug/L	GU04090G9SW01
Spring 9	09/28/05	F		0.263	0.05	ug/L	GF05090G9SW01
Spring 9A	03/18/04	UF		0.293		ug/L	GU04030GA9S01
Spring 9A	09/14/04	UF		0.26	0.05	ug/L	GU04090GA9S01
Spring 9A	09/28/05	F		0.27	0.05	ug/L	GF05090GA9S01