N00164.AR.000885
NSWC CRANE
5090.3a

NAVSEA
CRANE
Surface Warfare Center Division

ANNUAL GROUNDWATER MONITORING REPORT FOR AMMUNITION BURNING GROUNDS, OLD RIFLE RANGE, and DEMO RANGE

CY2003

NAVAL SURFACE WARFARE CENTER, CRANE DIVISION
CRANE, INDIANA

Report date: 12 August 2004
Binder 2 of 2

Prepared By:
SAIC
R.R. 6 Box 28
Bloomfield, IN 47424
(812) 384-3587

ANNUAL GROUNDWATER MONITORING REPORT FOR AMMUNITION BURNING GROUNDS, OLD RIFLE RANGE, and DEMO RANGE

CY2003

NAVAL SURFACE WARFARE CENTER, CRANE DIVISION
CRANE, INDIANA

Report date: 12 August 2004
Binder 2 of 2

Prepared By:
SAIC
R.R. 6 Box 28
Bloomfield, IN 47424
(812) 384-3587

7.0

STATISTICAL ANALYSIS

7.0 ASSESSMENT OF DATA FOR USE IN STATISTICAL ANALYSIS

As discussed in Section 9.2.2 of the QAPP, qualification of analytical data during the validation process (i.e., the application of U, BU, J, BJ, JN, UJ, UR, and R qualifiers) will be conducted as required by Region 5 data validation SOPs. The addition of the data qualifiers to analytical results signifies the occurrence of QC noncompliance's that have been noted during the course of data validation. The various data qualifiers are defined as follows:

- **U** – Indicates that the chemical was not detected at the sample quantitation limit (SQL) noted. The laboratory reports the SQL for an analysis followed by this qualifier code if the analyte was not detected at a concentration greater than or equal to the SQL. This qualifier is added to a positive result (reported by the laboratory) during data validation if the detected concentration is determined to be attributable to contamination introduced during field sampling.

- **BU** – Indicates that the chemical was not detected at the SQL noted. This qualifier is added to a positive result (reported by the laboratory) during data validation if the detected concentration is determined to be attributable to contamination introduced during laboratory analysis.

- **UJ** – Indicates that the chemical was not detected at the SQL noted. However, the SQL is considered to be an estimate based on technical problems identified during data validation.

- **J** – Indicates that the chemical was detected. However, the laboratory-reported quantity is considered to be an estimate of the concentration that is actually present in the sample.

- **BJ** – Indicates that the chemical was detected in the sample as well as in an associated laboratory blank. The detected concentration was not determined during data validation to be wholly attributable to contamination introduced during laboratory analysis. However, the laboratory-reported quantity is considered to be an estimate of the concentration that is actually present in the sample.

- **JN** – Indicates that the qualitative presence of the chemical cannot be definitely confirmed, but that the chemical is presumed to be present. The laboratory-reported quantity is considered to be an estimated concentration. This qualifier is added to a positive result during data validation whenever qualitative and quantitative confirmation is not definitive.

- **UR** – Indicates that the nondetected analytical result (i.e., the SQL) reported by the laboratory is considered to be unreliable or unusable and has been rejected. The chemical may or may not be present. This qualifier is applied in cases of gross technical deficiencies (e.g., holding times missed by a factor of two times the specified limit, severe calibration noncompliance, and extremely low QC recoveries).

- **R** – Indicates that the positive analytical result reported by the laboratory is considered to be unreliable and unusable and has been rejected. The chemical may or may not be present. This qualifier is applied in cases of gross technical deficiencies.

- **E (Inorganic)** – The reported value is estimated because of the presence of interference.

- **D** – The value reported derives from analysis of a diluted sample of the sample extract.

- **E (Organic)** – The flagged value was reported from an analysis that exceeded the linear range of the instrument. Values so flagged should be considered estimates.

- P – When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.

- X – Samples were analyzed at least twice and the (X) compound may be quantitated in each analysis, but the X indicates the value that Laucks feels is most accurate.

- * – Duplicate analysis not within control limits.

- Z – Signifies that a coelution has occurred between two or more target analytes on the confirmation CN column. For this reason, only qualitative confirmation is possible.

Statistical Methodology

PARAMETRIC ANOVA

The parametric analysis of variance (ANOVA) technique is the preferred approach for comparing environmental measurement from different data sets to determine if they come from the same underlying background distribution. Parametric ANOVA methods make two key assumptions: (1) the data sets are all normally (or log-normally) distributed and (2) the group variances are approximately equal. For only about eight values in each set of data it is difficult to fail the normality test. If the variances are not homogeneous, this tends to cause the mean-square-error to be overly large. This can cause significant differences to be missed. However, if the ANOVA shows a significant difference, one can guarantee it is truly a significant difference within the alpha level used in the analysis. The alpha level used in an analysis is the probability of making an error when a difference is declared to be significant when it is really caused by random sampling and is not truly different. The alpha level used in these analyses was .05. The data in this analysis passed the normality test but several cases failed the test for homogeneity of variance. An ANOVA was still used for all the data. Any differences declared significant should still be valid. Some true differences could be missed. Once an ANOVA is done and a statistical difference is shown, the next step is to find out which values are different. This requires a multiple comparison test. There are many multiple comparison tests. The STATISTICA statistical package contains four such tests. Two of these were chosen: Newman-Keuls test and Duncan's Multiple Range Test. The results of these two tests are very similar.

NONPARAMETRIC ANOVA

It was recommended by IDEM that if the data failed the normality test or the homogeneous variance test that a nonparametric ANOVA test should be used. The one recommended by IDEM was the Kruskel-Wallis Rank Sum test.

The procedure for the Kruskal-Wallis test (U.S. EPA, 1989. Guidance Document on the Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities. EPA 530/SW-89-026) is described in the following paragraphs.

Step 1. Rank all N observations of the k wells from least to greatest.

Step 2. Add the ranks of the observations for each well. Call the sum of the ranks for the ith well R_i. Also, calculate the average rank for each well by:

$$\overline{R_i} = \frac{R_i}{N_i}$$

Step 3. Compute the Kruskal-Wallis statistic given by:

$$H = \left[\frac{12}{N(N+1)} \sum_{i=1}^{k} \frac{R_i^2}{N_i} \right] - 3(N+1)$$

where N = total number of samples,
N_i = number of each samples for each well, and
k = number of wells.

An adjustment to the Kruskal-Wallis statistic must be made to account for the presence of tied values. Tied values are those in which have the same concentration for a given analyte. This adjustment is given by the following formula:

$$H' = \frac{H}{1 - \left[\frac{\sum_{i=1}^{g} t_i^3 - t_i}{N^3 - N} \right]}$$

where g = the number of groups of distinct tied observations and
t_i = the number of tied observations in the ith group.

Step 4. Compare the calculated value H (or H') to the tabulated X^2 (chi-squared) value with (k-1) degrees of freedom, where k is the number of wells.

Step 5. If the computed H value exceeds the tabulated X^2 value, compute the critical difference for the wells

$$C_i = Z_{0.05/k-1} \sqrt{N(N+1)\frac{1}{12}\left[\frac{1}{N_1} + \frac{1}{N_i}\right]}$$

for i=2,…,k and $Z_{0.05/k-1}$ is the upper $(100-(5/k-1))^{th}$ percentile of the standard normal distribution.

Step 6. Compute the differences between the average ranks of each well and compare the differences to the critical values from Step 5 in order to determine which wells give significant evidence of contamination. That is, compare

$$D_i = \overline{R_i} - \overline{R_1}$$

to C_i for $i = 2,\ldots,k$. If D_i exceeds C_i, we can determine that the ith well exhibits statistically significant higher concentrations than the upgradient wells. If D_i does not exceed C_i, there is no statistically significant evidence of higher concentrations in the ith well relative to the upgradient wells.

This analysis method also has a weakness. Again if a difference is declared then it is truly a significant difference. But since the ranks are used instead of the values, many true differences are likely to be missed. In the analysis it was observed that when the upgradient well was second highest and a downgradient well was highest, this test could never declare a statistical difference no matter how large the values were for the highest well. A t-test used on the highest wells showed the difference to be highly significant in some cases.

Since both parametric and nonparametric ANOVA's have weaknesses for our data, both were run. Any statistical differences declared by those two analyses should point to a possible problem area. All of these tests were run using the STATISTICA statistical package.

Statistical evaluation procedures must be performed on the list of constituents from Table 1-2 of the Ground Water Monitoring Plan. Table 7.1 shows those constituents that had enough detections to complete a statistical analysis. Not all wells have detections for these constituents. A standard deviation of zero indicates that all of the readings were the same. This usually implies that there were no detections. Tables for each parameter, with applicable wells listed, begins on page 177.

Table 7.1. Table of Detected Analytes with More Than Two Positive Results.

	CONSTITUENTS	ABG	ORR	DR
EXPLOSIVES				
1.	1,3,5-Trinitrobenzene	X		
2.	2,4,6-Trinitrotoluene	X	X	
3.	2-Amino-4,6-dinitrotoluene	X	X	
4.	4-Amino-2,6-dinitrotoluene	X	X	
5.	HMX	X		
6.	Nitrocellulose	X	X	
7.	RDX	X		
METALS				
8.	Aluminum			X
9.	Antimony	X	X	X
10.	Arsenic	X	X	X
11.	Barium	X	X	X
12.	Cadmium		X	X
13.	Calcium	X		
14.	Chromium	X	X	X
15.	Cobalt			X
16.	Copper	X	X	X
17.	Lead	X	X	X
18.	Magnesium	X		
19.	Manganese		X	X
20.	Nickel			X
21.	Potassium	X		
22.	Selenium	X	X	X
23.	Silver		X	
24.	Sodium	X		
25.	Vanadium	X	X	X
26.	Zinc	X	X	X
VOLATILE ORGANIC COMPOUNDS				
27.	1,2-Dichloroethane	X		
28.	Carbon tetrachloride	X		
29.	Chloroform	X		
30.	cis-1,2-Dichloroethene	X		
31.	Tetrachloroethene	X		
32.	trans-1,2-Dichloroethene	X		
33.	Trichloroethene	X		
MISCELLANEOUS PARAMETERS				
34.	Ammonia		X	
35.	Chloride	X		
36.	Sulfate	X		

Table 7.1. Table of Detected Analytes with More Than Two Positive Results. (Continued)

	CONSTITUENTS	ABG	ORR	DR
37.	Total Phosphorus (Filtered)	X		
38.	Total Phosphorus	X		
39.	Total Organic Carbon (TOC)	X	X	X
40.	Total Organic Halogens (TOX)	X	X	

X=Positive response for the analyte

The following table shows some isolated detections but not enough information is available to complete statistical analyses.

CONSTITUENT	LOCATION	AQUIFER	WELL	QUARTER	YEAR	AMOUNT
1,1-Dichloroethene	ABG[1]	--	C20	2	2002	.5
1,3,5-Trinitrobenzene	ORR[2]	B[4]	C15	2	2001	1.6
2,4-Dinitrotoluene	ORR	B	C08	4	2000	1.6
2,4-Dinitrotoluene	ABG	--	C20	4	2000	1.6
2,6-Dinitrotoluene	ABG	--	C20	4	2000	2.2
Antimony	ORR	B	C15	2	2002	1.5
Antimony	ORR	C[5]	C14P2	2	2002	1.6
Cadmium (Filtered)	DR[3]	B[6]	C03	1	2000	1.2
Cadmium	DR	P[7]	C06P2	1	2000	1.3
Cadmium	ORR	B	C14	1	2001	5.8
Cadmium	ORR	C	C18P2	1	2000	1.1
Cadmium	ORR	C	C18P2	2	2000	1.5
Chromium	ABG	--	C02P2	1	2002	8.0
Chromium	DR	P	C03P2	1	2003	20.5
Chromium	DR	P	C03P2	1	2003	30.2
Chromium	ORR	C	C18P2	1	2000	7.9
Copper (Filtered)	DR	P	C08P2	3	2001	2.3
Copper (Filtered)	DR	P	C06P2	1	2002	3.2
Lead	DR	B	C08	1	2003	4.1
Lead (Filtered)	DR	P	C06P2	1	2000	1.1
Lead	ORR	C	C14P2	2	2003	1.7
Mercury	ABG	--	C17	2	2003	.37
Mercury	ABG	--	C25	1	2002	.23
Mercury	DR	P	C06P2	3	2003	.38
Mercury	ORR	B	C18	3	2000	.23
Mercury	ORR	C	C11P2	4	2002	.79
Methylene Chloride	ABG	--	C08P2	2	2002	6.9
Methylene Chloride	ABG	--	C20	2	2003	15
Nickel	ABG	--	C17	1	2001	34.9
Nickel (Filtered)	ORR	B	C14	3	2000	10.5
Nitrocellulose	DR	B	C07	1	2002	1600

CONSTITUENT	LOCATION	AQUIFER	WELL	QUARTER	YEAR	AMOUNT
Nitrocellulose	DR	B	C08	3	2002	1500
Nitrocellulose	ORR	B	C11	2	2003	3600
Nitrocellulose	ORR	B	C16	2	2003	1100
Picramic Acid	ORR	B	C15	1	2001	2.4
RDX	ORR	B	C15	4	2002	.79
Silver	ORR	C	C14P2	2	2002	6.7
Total Organic Carbon	DR	P	C03P2	1	2001	1.3
Total Organic Carbon	DR	P	C03P2	1	2003	1.0
Total Organic Halogens	DR	P	C04P2	3	2003	.14
Total Organic Halogens	ORR	B	C13	3	2001	.19
Vanadium	DR	P	C03P2	1	2003	20
Vanadium	DR	P	C03P2	1	2003	28.7
Vanadium (Filtered)	DR	P	C04P2	3	2003	2.2
Zinc (Filtered) (Outliers Removed)	DR	B	C02	1	2002	29.3
Zinc (Filtered) (Outliers Removed)	DR	B	C05	3	2002	21.5
Zinc (Filtered) (Outliers Removed)	ORR	C	C13P2	1	2002	12.4
Zinc (Filtered) (Outliers Removed)	ORR	C	C14P2	2	2001	18.6

[1] ABG - Ammunition Burning Grounds
[2] ORR - Old Rifle Range
[3] DR - Demo Range
[4] B - Beech Creek Aquifer for Old Rifle Range
[5] C - Big Clifty Aquifer for Old Rifle Range
[6] B - Big Clifty/Beech Creek Aquifer for Demo Range
[7] P - Pennsylvanian Aquifer for Demo Range

The lab data for the constituents that had detections are shown on the following pages in Table 7.2 through Table 7.40. Only raw data for 2003 are shown in the following tables.

Table 7.2. Raw Data for 1,3,5-Trinitrobenzene.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03	A	C02P2	1	1	1,3,5-TRINITROBENZENE	N	1	2003	1.1	UG/L	U
AC02P22A03	A	C02P2	1	1	1,3,5-TRINITROBENZENE	N	2	2003	1.3	UG/L	U
AC02P23A03	A	C02P2	1	1	1,3,5-TRINITROBENZENE	N	3	2003	0.46	UG/L	U
AC02P24A03	A	C02P2	1	1	1,3,5-TRINITROBENZENE	N	4	2003	0.53	UG/L	U
AC031A03	A	C03	2	1	1,3,5-TRINITROBENZENE	N	1	2003	1.4	UG/L	U
AC032A03	A	C03	2	1	1,3,5-TRINITROBENZENE	N	2	2003	1.2	UG/L	U
AC033A03	A	C03	2	1	1,3,5-TRINITROBENZENE	N	3	2003	0.84	UG/L	U
AC034A03	A	C03	2	1	1,3,5-TRINITROBENZENE	N	4	2003	0.51	UG/L	U
AC041A03	A	C04	3	1	1,3,5-TRINITROBENZENE	N	1	2003	0.99	UG/L	U
AC042A03	A	C04	3	1	1,3,5-TRINITROBENZENE	N	2	2003	0.79	UG/L	U
AC043A03	A	C04	3	1	1,3,5-TRINITROBENZENE	N	3	2003	1.4	UG/L	U
AC044A03	A	C04	3	1	1,3,5-TRINITROBENZENE	N	4	2003	0.52	UG/L	U
AC071A03	A	C07	4	1	1,3,5-TRINITROBENZENE	N	1	2003	1.1	UG/L	U
AC072A03	A	C07	4	1	1,3,5-TRINITROBENZENE	N	2	2003	1.9	UG/L	U
AC073A03	A	C07	4	1	1,3,5-TRINITROBENZENE	N	3	2003	0.81	UG/L	U
AC074A03	A	C07	4	1	1,3,5-TRINITROBENZENE	N	4	2003	0.6	UG/L	U
AC08P21A03	A	C08P2	5	1	1,3,5-TRINITROBENZENE	N	1	2003	0.31	UG/L	U
AC08P22A03	A	C08P2	5	1	1,3,5-TRINITROBENZENE	N	2	2003	0.95	UG/L	U
AC08P23A03	A	C08P2	5	1	1,3,5-TRINITROBENZENE	N	3	2003	0.64	UG/L	U
AC08P24A03	A	C08P2	5	1	1,3,5-TRINITROBENZENE	N	4	2003	0.5	UG/L	U
AC09P21A03	A	C09P2	6	1	1,3,5-TRINITROBENZENE	N	1	2003	0.68	UG/L	U
AC09P22A03	A	C09P2	6	1	1,3,5-TRINITROBENZENE	N	2	2003	0.57	UG/L	U
FD08280301	A	C09P2	6	1	1,3,5-TRINITROBENZENE	N	3	2003	0.64	UG/L	U
AC09P23A03	A	C09P2	6	1	1,3,5-TRINITROBENZENE	N	3	2003	1.4	UG/L	U
AC09P24A03	A	C09P2	6	1	1,3,5-TRINITROBENZENE	N	4	2003	0.49	UG/L	U
FD03050301	A	C15	7	1	1,3,5-TRINITROBENZENE	N	1	2003	0.99	UG/L	U
AC151A03	A	C15	7	1	1,3,5-TRINITROBENZENE	N	1	2003	1.3	UG/L	U
AC152A03	A	C15	7	1	1,3,5-TRINITROBENZENE	N	2	2003	1	UG/L	U
FD06170301	A	C15	7	1	1,3,5-TRINITROBENZENE	N	2	2003	1.3	UG/L	U
FD09040301	A	C15	7	1	1,3,5-TRINITROBENZENE	N	3	2003	0.65	UG/L	U
AC153A03	A	C15	7	1	1,3,5-TRINITROBENZENE	N	3	2003	1	UG/L	U
FD12020301	A	C15	7	1	1,3,5-TRINITROBENZENE	N	4	2003	0.52	UG/L	U
AC154A03	A	C15	7	1	1,3,5-TRINITROBENZENE	N	4	2003	0.51	UG/L	U
AC171A03	A	C17	8	1	1,3,5-TRINITROBENZENE	N	1	2003	1.3	UG/L	U
FD03110301	A	C17	8	1	1,3,5-TRINITROBENZENE	N	1	2003	1	UG/L	U
AC172A03	A	C17	8	1	1,3,5-TRINITROBENZENE	N	2	2003	1.7	UG/L	U
FD06190301	A	C17	8	1	1,3,5-TRINITROBENZENE	N	2	2003	0.69	UG/L	U
AC173A03	A	C17	8	1	1,3,5-TRINITROBENZENE	N	3	2003	1.5	UG/L	U
AC174A03	A	C17	8	1	1,3,5-TRINITROBENZENE	N	4	2003	0.56	UG/L	U
AC201A03	A	C20	9	1	1,3,5-TRINITROBENZENE	N	1	2003	6.3	UG/L	
AC202A03DL	A	C20	9	1	1,3,5-TRINITROBENZENE	N	2	2003	6.1	UG/L	D
AC203A03DL	A	C20	9	1	1,3,5-TRINITROBENZENE	N	3	2003	5.7	UG/L	JD

Table 7.2. Raw Data for 1,3,5-Trinitrobenzene. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC204A03DL	A	C20	9	1	1,3,5-TRINITROBENZENE	N	4	2003	8.7	UG/L	D
AC252A03	A	C25	10	1	1,3,5-TRINITROBENZENE	N	2	2003	1.1	UG/L	U
AC253A03	A	C25	10	1	1,3,5-TRINITROBENZENE	N	3	2003	0.31	UG/L	U
AC254A03	A	C25	10	1	1,3,5-TRINITROBENZENE	N	4	2003	0.53	UG/L	U
AC261A03	A	C26	11	1	1,3,5-TRINITROBENZENE	N	1	2003	0.91	UG/L	U
AC262A03	A	C26	11	1	1,3,5-TRINITROBENZENE	N	2	2003	0.22	UG/L	U
AC263A03	A	C26	11	1	1,3,5-TRINITROBENZENE	N	3	2003	0.71	UG/L	U
AC264A03	A	C26	11	1	1,3,5-TRINITROBENZENE	N	4	2003	0.54	UG/L	U
AC272A03	A	C27	12	1	1,3,5-TRINITROBENZENE	N	2	2003	0.81	UG/L	U
AC273A03	A	C27	12	1	1,3,5-TRINITROBENZENE	N	3	2003	0.3	UG/L	U
AC274A03	A	C27	12	1	1,3,5-TRINITROBENZENE	N	4	2003	0.53	UG/L	U
AC301A03	A	C30	13	1	1,3,5-TRINITROBENZENE	N	1	2003	1.1	UG/L	U
AC302A03	A	C30	13	1	1,3,5-TRINITROBENZENE	N	2	2003	0.77	UG/L	U
AC303A03	A	C30	13	1	1,3,5-TRINITROBENZENE	N	3	2003	1.2	UG/L	U
AC304A03	A	C30	13	1	1,3,5-TRINITROBENZENE	N	4	2003	0.56	UG/L	U
ASPA1A03	A	SPA	14	1	1,3,5-TRINITROBENZENE	N	1	2003	0.44	UG/L	U
ASPA2A03	A	SPA	14	1	1,3,5-TRINITROBENZENE	N	2	2003	1.2	UG/L	U
ASPA3A03	A	SPA	14	1	1,3,5-TRINITROBENZENE	N	3	2003	0.68	UG/L	U
ASPA4A03	A	SPA	14	1	1,3,5-TRINITROBENZENE	N	4	2003	0.53	UG/L	U
ASPC1A03	A	SPC	15	1	1,3,5-TRINITROBENZENE	N	1	2003	1.2	UG/L	U
ASPC2A03	A	SPC	15	1	1,3,5-TRINITROBENZENE	N	2	2003	1.4	UG/L	U
ASPC3A03	A	SPC	15	1	1,3,5-TRINITROBENZENE	N	3	2003	0.91	UG/L	U
FD12180301	A	SPC	15	1	1,3,5-TRINITROBENZENE	N	4	2003	0.5	UG/L	U
ASPC4A03	A	SPC	15	1	1,3,5-TRINITROBENZENE	N	4	2003	0.5	UG/L	U
DC021A03	D	C02	1	1	1,3,5-TRINITROBENZENE	N	1	2003	0.7	UG/L	U
DC023A03	D	C02	1	1	1,3,5-TRINITROBENZENE	N	3	2003	0.53	UG/L	U
DC031A03	D	C03	2	1	1,3,5-TRINITROBENZENE	N	1	2003	1.2	UG/L	U
DC033A03	D	C03	2	1	1,3,5-TRINITROBENZENE	N	3	2003	0.74	UG/L	U
FD07140301	D	C03	2	1	1,3,5-TRINITROBENZENE	N	3	2003	1	UG/L	U
DC041A03	D	C04	3	1	1,3,5-TRINITROBENZENE	N	1	2003	1.1	UG/L	U
FD07090301	D	C04	3	1	1,3,5-TRINITROBENZENE	N	3	2003	0.95	UG/L	U
DC043A03	D	C04	3	1	1,3,5-TRINITROBENZENE	N	3	2003	1	UG/L	U
FD01130301	D	C05	4	1	1,3,5-TRINITROBENZENE	N	1	2003	1.1	UG/L	U
DC051A03	D	C05	4	1	1,3,5-TRINITROBENZENE	N	1	2003	0.81	UG/L	U
DC053A03	D	C05	4	1	1,3,5-TRINITROBENZENE	N	3	2003	1.6	UG/L	U
DC061A03	D	C06	5	1	1,3,5-TRINITROBENZENE	N	1	2003	0.77	UG/L	U
DC063A03	D	C06	5	1	1,3,5-TRINITROBENZENE	N	3	2003	0.46	UG/L	U
DC071A03	D	C07	6	1	1,3,5-TRINITROBENZENE	N	1	2003	0.77	UG/L	U
DC073A03	D	C07	6	1	1,3,5-TRINITROBENZENE	N	3	2003	1.7	UG/L	U
DC081A03	D	C08	7	1	1,3,5-TRINITROBENZENE	N	1	2003	0.84	UG/L	U
DC083A03	D	C08	7	1	1,3,5-TRINITROBENZENE	N	3	2003	0.91	UG/L	U
DC03P21A03	D	C03P2	1	2	1,3,5-TRINITROBENZENE	N	1	2003	0.88	UG/L	U
FD01090301	D	C03P2	1	2	1,3,5-TRINITROBENZENE	N	1	2003	0.97	UG/L	U
DC03P23A03	D	C03P2	1	2	1,3,5-TRINITROBENZENE	N	3	2003	0.87	UG/L	U

Table 7.2. Raw Data for 1,3,5-Trinitrobenzene. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
DC04P21A03	D	C04P2	2	2	1,3,5-TRINITROBENZENE	N	1	2003	0.33	UG/L	U
DC04P23A03	D	C04P2	2	2	1,3,5-TRINITROBENZENE	N	3	2003	0.35	UG/L	U
DC06P21A03	D	C06P2	3	2	1,3,5-TRINITROBENZENE	N	1	2003	1.2	UG/L	U
DC06P23A03	D	C06P2	3	2	1,3,5-TRINITROBENZENE	N	3	2003	1.5	UG/L	U
DC08P23A03	D	C08P2	4	2	1,3,5-TRINITROBENZENE	N	3	2003	0.52	UG/L	U
OC081A03	O	C08	1	1	1,3,5-TRINITROBENZENE	N	1	2003	0.92	UG/L	U
OC082A03	O	C08	1	1	1,3,5-TRINITROBENZENE	N	2	2003	0.73	UG/L	U
OC083A03	O	C08	1	1	1,3,5-TRINITROBENZENE	N	3	2003	0.92	UG/L	U
OC084A03	O	C08	1	1	1,3,5-TRINITROBENZENE	N	4	2003	0.58	UG/L	U
OC111A03	O	C11	2	1	1,3,5-TRINITROBENZENE	N	1	2003	0.73	UG/L	U
OC112A03	O	C11	2	1	1,3,5-TRINITROBENZENE	N	2	2003	1.4	UG/L	U
OC113A03	O	C11	2	1	1,3,5-TRINITROBENZENE	N	3	2003	0.2	UG/L	U
OC114A03	O	C11	2	1	1,3,5-TRINITROBENZENE	N	4	2003	0.53	UG/L	U
OC121A03	O	C12	3	1	1,3,5-TRINITROBENZENE	N	1	2003	1.1	UG/L	U
OC122A03	O	C12	3	1	1,3,5-TRINITROBENZENE	N	2	2003	1.1	UG/L	U
FD04290301	O	C12	3	1	1,3,5-TRINITROBENZENE	N	2	2003	1	UG/L	U
OC123A03	O	C12	3	1	1,3,5-TRINITROBENZENE	N	3	2003	0.75	UG/L	U
OC124A03	O	C12	3	1	1,3,5-TRINITROBENZENE	N	4	2003	0.56	UG/L	U
FD10150301	O	C12	3	1	1,3,5-TRINITROBENZENE	N	4	2003	0.55	UG/L	U
OC131A03	O	C13	4	1	1,3,5-TRINITROBENZENE	N	1	2003	0.47	UG/L	U
OC132A03	O	C13	4	1	1,3,5-TRINITROBENZENE	N	2	2003	1.4	UG/L	U
OC133A03	O	C13	4	1	1,3,5-TRINITROBENZENE	N	3	2003	0.78	UG/L	U
OC134A03	O	C13	4	1	1,3,5-TRINITROBENZENE	N	4	2003	0.55	UG/L	U
OC141A03	O	C14	5	1	1,3,5-TRINITROBENZENE	N	1	2003	1.3	UG/L	U
OC142A03	O	C14	5	1	1,3,5-TRINITROBENZENE	N	2	2003	0.55	UG/L	U
OC143A03	O	C14	5	1	1,3,5-TRINITROBENZENE	N	3	2003	0.77	UG/L	U
OC144A03	O	C14	5	1	1,3,5-TRINITROBENZENE	N	4	2003	0.56	UG/L	U
OC151A03	O	C15	6	1	1,3,5-TRINITROBENZENE	N	1	2003	0.96	UG/L	U
FD01290301	O	C15	6	1	1,3,5-TRINITROBENZENE	N	1	2003	0.99	UG/L	U
OC152A03	O	C15	6	1	1,3,5-TRINITROBENZENE	N	2	2003	1.2	UG/L	U
FD05070301	O	C15	6	1	1,3,5-TRINITROBENZENE	N	2	2003	0.7	UG/L	
OC153A03	O	C15	6	1	1,3,5-TRINITROBENZENE	N	3	2003	1.2	UG/L	U
FD08120301	O	C15	6	1	1,3,5-TRINITROBENZENE	N	3	2003	0.9	UG/L	U
FD10300301	O	C15	6	1	1,3,5-TRINITROBENZENE	N	4	2003	0.8	UG/L	
OC154A03	O	C15	6	1	1,3,5-TRINITROBENZENE	N	4	2003	0.7	UG/L	
FD02130301	O	C16	7	1	1,3,5-TRINITROBENZENE	N	1	2003	0.56	UG/L	U
OC161A03	O	C16	7	1	1,3,5-TRINITROBENZENE	N	1	2003	0.64	UG/L	U
OC162A03	O	C16	7	1	1,3,5-TRINITROBENZENE	N	2	2003	0.58	UG/L	U
OC163A03	O	C16	7	1	1,3,5-TRINITROBENZENE	N	3	2003	1.1	UG/L	U
OC164A03	O	C16	7	1	1,3,5-TRINITROBENZENE	N	4	2003	0.59	UG/L	U
OC181A03	O	C18	8	1	1,3,5-TRINITROBENZENE	N	1	2003	0.83	UG/L	U
OC182A03	O	C18	8	1	1,3,5-TRINITROBENZENE	N	2	2003	0.84	UG/L	U
OC183A03	O	C18	8	1	1,3,5-TRINITROBENZENE	N	3	2003	0.44	UG/L	U
OC184A03	O	C18	8	1	1,3,5-TRINITROBENZENE	N	4	2003	0.54	UG/L	U

Table 7.2. Raw Data for 1,3,5-Trinitrobenzene. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC191A03	O	C19	9	1	1,3,5-TRINITROBENZENE	N	1	2003	0.9	UG/L	U
OC192A03	O	C19	9	1	1,3,5-TRINITROBENZENE	N	2	2003	0.82	UG/L	U
FD08200301	O	C19	9	1	1,3,5-TRINITROBENZENE	N	3	2003	0.51	UG/L	U
OC193A03	O	C19	9	1	1,3,5-TRINITROBENZENE	N	3	2003	0.25	UG/L	U
OC194A03	O	C19	9	1	1,3,5-TRINITROBENZENE	N	4	2003	0.49	UG/L	U
OC11P21A03	O	C11P2	1	2	1,3,5-TRINITROBENZENE	N	1	2003	1.2	UG/L	U
OC11P22A03	O	C11P2	1	2	1,3,5-TRINITROBENZENE	N	2	2003	1.6	UG/L	U
OC11P23A03	O	C11P2	1	2	1,3,5-TRINITROBENZENE	N	3	2003	0.96	UG/L	U
OC11P24A03	O	C11P2	1	2	1,3,5-TRINITROBENZENE	N	4	2003	0.58	UG/L	U
OC13P21A03	O	C13P2	2	2	1,3,5-TRINITROBENZENE	N	1	2003	0.31	UG/L	U
OC13P22A03	O	C13P2	2	2	1,3,5-TRINITROBENZENE	N	2	2003	1.6	UG/L	U
OC13P23A03	O	C13P2	2	2	1,3,5-TRINITROBENZENE	N	3	2003	0.31	UG/L	U
OC13P24A03	O	C13P2	2	2	1,3,5-TRINITROBENZENE	N	4	2003	0.56	UG/L	U
OC14P21A03	O	C14P2	3	2	1,3,5-TRINITROBENZENE	N	1	2003	0.87	UG/L	U
OC14P22A03	O	C14P2	3	2	1,3,5-TRINITROBENZENE	N	2	2003	0.77	UG/L	U
OC14P23A03	O	C14P2	3	2	1,3,5-TRINITROBENZENE	N	3	2003	0.75	UG/L	U
OC14P24A03	O	C14P2	3	2	1,3,5-TRINITROBENZENE	N	4	2003	0.5	UG/L	U
OC14P24A03	O	C14P2	3	2	1,3,5-TRINITROBENZENE	N	4	2003	0.56	UG/L	U
OC18P21A03	O	C18P2	4	2	1,3,5-TRINITROBENZENE	N	1	2003	0.69	UG/L	U
OC18P22A03	O	C18P2	4	2	1,3,5-TRINITROBENZENE	N	2	2003	1.6	UG/L	U
OC18P23A03	O	C18P2	4	2	1,3,5-TRINITROBENZENE	N	3	2003	1.1	UG/L	U
OC18P24A03	O	C18P2	4	2	1,3,5-TRINITROBENZENE	N	4	2003	0.56	UG/L	U
OC19P21A03	O	C19P2	5	2	1,3,5-TRINITROBENZENE	N	1	2003	0.87	UG/L	U
OC19P22A03	O	C19P2	5	2	1,3,5-TRINITROBENZENE	N	2	2003	0.81	UG/L	U
OC19P23A03	O	C19P2	5	2	1,3,5-TRINITROBENZENE	N	3	2003	0.52	UG/L	U
OC19P24A03	O	C19P2	5	2	1,3,5-TRINITROBENZENE	N	4	2003	0.57	UG/L	U
OC19P24A03	O	C19P2	5	2	1,3,5-TRINITROBENZENE	N	4	2003	0.48	UG/L	U

Table 7.3. Raw Data for 2,4,6-Trinitrotoluene.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03	A	C02P2	1	1	2,4,6-TRINITROTOLUENE	N	1	2003	1.1	UG/L	U
AC02P22A03	A	C02P2	1	1	2,4,6-TRINITROTOLUENE	N	2	2003	1.3	UG/L	U
AC02P23A03	A	C02P2	1	1	2,4,6-TRINITROTOLUENE	N	3	2003	0.46	UG/L	U
AC02P24A03	A	C02P2	1	1	2,4,6-TRINITROTOLUENE	N	4	2003	0.53	UG/L	U
AC031A03	A	C03	2	1	2,4,6-TRINITROTOLUENE	N	1	2003	1.4	UG/L	U
AC032A03	A	C03	2	1	2,4,6-TRINITROTOLUENE	N	2	2003	1.2	UG/L	U
AC033A03	A	C03	2	1	2,4,6-TRINITROTOLUENE	N	3	2003	0.84	UG/L	U
AC034A03	A	C03	2	1	2,4,6-TRINITROTOLUENE	N	4	2003	0.51	UG/L	U
AC041A03	A	C04	3	1	2,4,6-TRINITROTOLUENE	N	1	2003	0.99	UG/L	U
AC042A03	A	C04	3	1	2,4,6-TRINITROTOLUENE	N	2	2003	0.79	UG/L	U
AC043A03	A	C04	3	1	2,4,6-TRINITROTOLUENE	N	3	2003	1.4	UG/L	U
AC044A03	A	C04	3	1	2,4,6-TRINITROTOLUENE	N	4	2003	0.52	UG/L	U
AC071A03	A	C07	4	1	2,4,6-TRINITROTOLUENE	N	1	2003	1.1	UG/L	U

Table 7.3. Raw Data for 2,4,6-Trinitrotoluene. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC072A03	A	C07	4	1	2,4,6-TRINITROTOLUENE	N	2	2003	1.9	UG/L	U
AC073A03	A	C07	4	1	2,4,6-TRINITROTOLUENE	N	3	2003	0.81	UG/L	U
AC074A03	A	C07	4	1	2,4,6-TRINITROTOLUENE	N	4	2003	0.6	UG/L	U
AC08P21A03	A	C08P2	5	1	2,4,6-TRINITROTOLUENE	N	1	2003	0.31	UG/L	U
AC08P22A03	A	C08P2	5	1	2,4,6-TRINITROTOLUENE	N	2	2003	0.95	UG/L	U
AC08P23A03	A	C08P2	5	1	2,4,6-TRINITROTOLUENE	N	3	2003	0.64	UG/L	U
AC08P24A03	A	C08P2	5	1	2,4,6-TRINITROTOLUENE	N	4	2003	0.5	UG/L	U
AC09P21A03	A	C09P2	6	1	2,4,6-TRINITROTOLUENE	N	1	2003	0.68	UG/L	U
AC09P22A03	A	C09P2	6	1	2,4,6-TRINITROTOLUENE	N	2	2003	0.57	UG/L	U
FD08280301	A	C09P2	6	1	2,4,6-TRINITROTOLUENE	N	3	2003	0.64	UG/L	U
AC09P23A03	A	C09P2	6	1	2,4,6-TRINITROTOLUENE	N	3	2003	1.4	UG/L	U
AC09P24A03	A	C09P2	6	1	2,4,6-TRINITROTOLUENE	N	4	2003	0.49	UG/L	U
FD03050301	A	C15	7	1	2,4,6-TRINITROTOLUENE	N	1	2003	0.99	UG/L	U
AC151A03	A	C15	7	1	2,4,6-TRINITROTOLUENE	N	1	2003	1.3	UG/L	U
FD06170301	A	C15	7	1	2,4,6-TRINITROTOLUENE	N	2	2003	1.3	UG/L	U
AC152A03	A	C15	7	1	2,4,6-TRINITROTOLUENE	N	2	2003	1	UG/L	U
FD09040301	A	C15	7	1	2,4,6-TRINITROTOLUENE	N	3	2003	0.65	UG/L	U
AC153A03	A	C15	7	1	2,4,6-TRINITROTOLUENE	N	3	2003	1	UG/L	U
FD12020301	A	C15	7	1	2,4,6-TRINITROTOLUENE	N	4	2003	0.52	UG/L	U
AC154A03	A	C15	7	1	2,4,6-TRINITROTOLUENE	N	4	2003	0.51	UG/L	U
FD03110301	A	C17	8	1	2,4,6-TRINITROTOLUENE	N	1	2003	1	UG/L	U
AC171A03	A	C17	8	1	2,4,6-TRINITROTOLUENE	N	1	2003	1.3	UG/L	U
FD06190301	A	C17	8	1	2,4,6-TRINITROTOLUENE	N	2	2003	0.69	UG/L	U
AC172A03	A	C17	8	1	2,4,6-TRINITROTOLUENE	N	2	2003	1.7	UG/L	U
AC173A03	A	C17	8	1	2,4,6-TRINITROTOLUENE	N	3	2003	1.5	UG/L	U
AC174A03	A	C17	8	1	2,4,6-TRINITROTOLUENE	N	4	2003	0.56	UG/L	U
AC201A03	A	C20	9	1	2,4,6-TRINITROTOLUENE	N	1	2003	0.9	UG/L	U
AC202A03	A	C20	9	1	2,4,6-TRINITROTOLUENE	N	2	2003	1	UG/L	U
AC203A03	A	C20	9	1	2,4,6-TRINITROTOLUENE	N	3	2003	0.68	UG/L	P
AC204A03	A	C20	9	1	2,4,6-TRINITROTOLUENE	N	4	2003	0.73	UG/L	P
AC252A03	A	C25	10	1	2,4,6-TRINITROTOLUENE	N	2	2003	1.1	UG/L	U
AC253A03	A	C25	10	1	2,4,6-TRINITROTOLUENE	N	3	2003	0.31	UG/L	U
AC254A03	A	C25	10	1	2,4,6-TRINITROTOLUENE	N	4	2003	0.53	UG/L	U
AC261A03	A	C26	11	1	2,4,6-TRINITROTOLUENE	N	1	2003	0.91	UG/L	U
AC262A03	A	C26	11	1	2,4,6-TRINITROTOLUENE	N	2	2003	0.22	UG/L	U
AC263A03	A	C26	11	1	2,4,6-TRINITROTOLUENE	N	3	2003	0.71	UG/L	U
AC264A03	A	C26	11	1	2,4,6-TRINITROTOLUENE	N	4	2003	0.54	UG/L	U
AC272A03	A	C27	12	1	2,4,6-TRINITROTOLUENE	N	2	2003	0.81	UG/L	U
AC273A03	A	C27	12	1	2,4,6-TRINITROTOLUENE	N	3	2003	0.3	UG/L	U
AC274A03	A	C27	12	1	2,4,6-TRINITROTOLUENE	N	4	2003	0.53	UG/L	U
AC301A03	A	C30	13	1	2,4,6-TRINITROTOLUENE	N	1	2003	1.1	UG/L	U
AC302A03	A	C30	13	1	2,4,6-TRINITROTOLUENE	N	2	2003	0.77	UG/L	U
AC303A03	A	C30	13	1	2,4,6-TRINITROTOLUENE	N	3	2003	1.2	UG/L	U
AC304A03	A	C30	13	1	2,4,6-TRINITROTOLUENE	N	4	2003	0.56	UG/L	U

Table 7.3. Raw Data for 2,4,6-Trinitrotoluene. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
ASPA1A03	A	SPA	14	1	2,4,6-TRINITROTOLUENE	N	1	2003	0.44	UG/L	U
ASPA2A03	A	SPA	14	1	2,4,6-TRINITROTOLUENE	N	2	2003	3	UG/L	
ASPA3A03	A	SPA	14	1	2,4,6-TRINITROTOLUENE	N	3	2003	3	UG/L	P
ASPA4A03	A	SPA	14	1	2,4,6-TRINITROTOLUENE	N	4	2003	0.53	UG/L	U
ASPC1A03	A	SPC	15	1	2,4,6-TRINITROTOLUENE	N	1	2003	1.2	UG/L	U
ASPC2A03	A	SPC	15	1	2,4,6-TRINITROTOLUENE	N	2	2003	1.4	UG/L	U
ASPC3A03	A	SPC	15	1	2,4,6-TRINITROTOLUENE	N	3	2003	0.91	UG/L	U
ASPC4A03	A	SPC	15	1	2,4,6-TRINITROTOLUENE	N	4	2003	0.5	UG/L	U
FD12180301	A	SPC	15	1	2,4,6-TRINITROTOLUENE	N	4	2003	0.5	UG/L	U
DC021A03	D	C02	1	1	2,4,6-TRINITROTOLUENE	N	1	2003	0.7	UG/L	U
DC023A03	D	C02	1	1	2,4,6-TRINITROTOLUENE	N	3	2003	0.53	UG/L	U
DC031A03	D	C03	2	1	2,4,6-TRINITROTOLUENE	N	1	2003	1.2	UG/L	U
DC033A03	D	C03	2	1	2,4,6-TRINITROTOLUENE	N	3	2003	0.74	UG/L	U
FD07140301	D	C03	2	1	2,4,6-TRINITROTOLUENE	N	3	2003	1	UG/L	U
DC041A03	D	C04	3	1	2,4,6-TRINITROTOLUENE	N	1	2003	1.1	UG/L	U
DC043A03	D	C04	3	1	2,4,6-TRINITROTOLUENE	N	3	2003	1	UG/L	U
FD07090301	D	C04	3	1	2,4,6-TRINITROTOLUENE	N	3	2003	0.95	UG/L	U
DC051A03	D	C05	4	1	2,4,6-TRINITROTOLUENE	N	1	2003	0.81	UG/L	U
FD01130301	D	C05	4	1	2,4,6-TRINITROTOLUENE	N	1	2003	1.1	UG/L	U
DC053A03	D	C05	4	1	2,4,6-TRINITROTOLUENE	N	3	2003	1.6	UG/L	U
DC061A03	D	C06	5	1	2,4,6-TRINITROTOLUENE	N	1	2003	0.77	UG/L	U
DC063A03	D	C06	5	1	2,4,6-TRINITROTOLUENE	N	3	2003	0.46	UG/L	U
DC071A03	D	C07	6	1	2,4,6-TRINITROTOLUENE	N	1	2003	0.77	UG/L	U
DC073A03	D	C07	6	1	2,4,6-TRINITROTOLUENE	N	3	2003	1.7	UG/L	U
DC081A03	D	C08	7	1	2,4,6-TRINITROTOLUENE	N	1	2003	0.84	UG/L	U
DC083A03	D	C08	7	1	2,4,6-TRINITROTOLUENE	N	3	2003	0.91	UG/L	U
FD01090301	D	C03P2	1	2	2,4,6-TRINITROTOLUENE	N	1	2003	0.97	UG/L	U
DC03P21A03	D	C03P2	1	2	2,4,6-TRINITROTOLUENE	N	1	2003	0.88	UG/L	U
DC03P23A03	D	C03P2	1	2	2,4,6-TRINITROTOLUENE	N	3	2003	0.87	UG/L	U
DC04P21A03	D	C04P2	2	2	2,4,6-TRINITROTOLUENE	N	1	2003	0.33	UG/L	U
DC04P23A03	D	C04P2	2	2	2,4,6-TRINITROTOLUENE	N	3	2003	0.35	UG/L	U
DC06P21A03	D	C06P2	3	2	2,4,6-TRINITROTOLUENE	N	1	2003	1.2	UG/L	U
DC06P23A03	D	C06P2	3	2	2,4,6-TRINITROTOLUENE	N	3	2003	1.5	UG/L	U
DC08P23A03	D	C08P2	4	2	2,4,6-TRINITROTOLUENE	N	3	2003	0.52	UG/L	U
OC081A03	O	C08	1	1	2,4,6-TRINITROTOLUENE	N	1	2003	0.92	UG/L	U
OC082A03	O	C08	1	1	2,4,6-TRINITROTOLUENE	N	2	2003	0.73	UG/L	U
OC083A03	O	C08	1	1	2,4,6-TRINITROTOLUENE	N	3	2003	0.92	UG/L	U
OC084A03	O	C08	1	1	2,4,6-TRINITROTOLUENE	N	4	2003	0.58	UG/L	U
OC111A03	O	C11	2	1	2,4,6-TRINITROTOLUENE	N	1	2003	0.73	UG/L	U
OC112A03	O	C11	2	1	2,4,6-TRINITROTOLUENE	N	2	2003	1.4	UG/L	U
OC113A03	O	C11	2	1	2,4,6-TRINITROTOLUENE	N	3	2003	0.2	UG/L	U
OC114A03	O	C11	2	1	2,4,6-TRINITROTOLUENE	N	4	2003	0.53	UG/L	U
OC121A03	O	C12	3	1	2,4,6-TRINITROTOLUENE	N	1	2003	1.1	UG/L	U
OC122A03	O	C12	3	1	2,4,6-TRINITROTOLUENE	N	2	2003	1.1	UG/L	U

Table 7.3. Raw Data for 2,4,6-Trinitrotoluene. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
FD04290301	O	C12	3	1	2,4,6-TRINITROTOLUENE	N	2	2003	1	UG/L	U
OC123A03	O	C12	3	1	2,4,6-TRINITROTOLUENE	N	3	2003	0.75	UG/L	U
FD10150301	O	C12	3	1	2,4,6-TRINITROTOLUENE	N	4	2003	0.55	UG/L	U
OC124A03	O	C12	3	1	2,4,6-TRINITROTOLUENE	N	4	2003	0.56	UG/L	U
OC131A03	O	C13	4	1	2,4,6-TRINITROTOLUENE	N	1	2003	0.47	UG/L	U
OC132A03	O	C13	4	1	2,4,6-TRINITROTOLUENE	N	2	2003	1.4	UG/L	U
OC133A03	O	C13	4	1	2,4,6-TRINITROTOLUENE	N	3	2003	0.78	UG/L	U
OC134A03	O	C13	4	1	2,4,6-TRINITROTOLUENE	N	4	2003	0.55	UG/L	U
OC141A03	O	C14	5	1	2,4,6-TRINITROTOLUENE	N	1	2003	1.3	UG/L	U
OC142A03	O	C14	5	1	2,4,6-TRINITROTOLUENE	N	2	2003	0.55	UG/L	U
OC143A03	O	C14	5	1	2,4,6-TRINITROTOLUENE	N	3	2003	0.77	UG/L	U
OC144A03	O	C14	5	1	2,4,6-TRINITROTOLUENE	N	4	2003	0.56	UG/L	U
OC151A03	O	C15	6	1	2,4,6-TRINITROTOLUENE	N	1	2003	5.8	UG/L	
FD01290301	O	C15	6	1	2,4,6-TRINITROTOLUENE	N	1	2003	5.8	UG/L	P
OC152A03	O	C15	6	1	2,4,6-TRINITROTOLUENE	N	2	2003	5.7	UG/L	
FD05070301	O	C15	6	1	2,4,6-TRINITROTOLUENE	N	2	2003	5.2	UG/L	
FD08120301	O	C15	6	1	2,4,6-TRINITROTOLUENE	N	3	2003	5	UG/L	P
OC153A03	O	C15	6	1	2,4,6-TRINITROTOLUENE	N	3	2003	4.9	UG/L	P
FD10300301	O	C15	6	1	2,4,6-TRINITROTOLUENE	N	4	2003	4.5	UG/L	
OC154A03	O	C15	6	1	2,4,6-TRINITROTOLUENE	N	4	2003	4.1	UG/L	
OC161A03	O	C16	7	1	2,4,6-TRINITROTOLUENE	N	1	2003	0.64	UG/L	U
FD02130301	O	C16	7	1	2,4,6-TRINITROTOLUENE	N	1	2003	0.56	UG/L	U
OC162A03	O	C16	7	1	2,4,6-TRINITROTOLUENE	N	2	2003	0.58	UG/L	U
OC163A03	O	C16	7	1	2,4,6-TRINITROTOLUENE	N	3	2003	1.1	UG/L	U
OC164A03	O	C16	7	1	2,4,6-TRINITROTOLUENE	N	4	2003	0.59	UG/L	U
OC181A03	O	C18	8	1	2,4,6-TRINITROTOLUENE	N	1	2003	0.83	UG/L	U
OC182A03	O	C18	8	1	2,4,6-TRINITROTOLUENE	N	2	2003	0.84	UG/L	U
OC183A03	O	C18	8	1	2,4,6-TRINITROTOLUENE	N	3	2003	0.44	UG/L	U
OC184A03	O	C18	8	1	2,4,6-TRINITROTOLUENE	N	4	2003	0.54	UG/L	U
OC191A03	O	C19	9	1	2,4,6-TRINITROTOLUENE	N	1	2003	0.9	UG/L	U
OC192A03	O	C19	9	1	2,4,6-TRINITROTOLUENE	N	2	2003	0.82	UG/L	U
OC193A03	O	C19	9	1	2,4,6-TRINITROTOLUENE	N	3	2003	0.25	UG/L	U
FD08200301	O	C19	9	1	2,4,6-TRINITROTOLUENE	N	3	2003	0.51	UG/L	U
OC194A03	O	C19	9	1	2,4,6-TRINITROTOLUENE	N	4	2003	0.49	UG/L	U
OC11P21A03	O	C11P2	1	2	2,4,6-TRINITROTOLUENE	N	1	2003	1.2	UG/L	U
OC11P22A03	O	C11P2	1	2	2,4,6-TRINITROTOLUENE	N	2	2003	1.6	UG/L	U
OC11P23A03	O	C11P2	1	2	2,4,6-TRINITROTOLUENE	N	3	2003	0.96	UG/L	U
OC11P24A03	O	C11P2	1	2	2,4,6-TRINITROTOLUENE	N	4	2003	0.58	UG/L	U
OC13P21A03	O	C13P2	2	2	2,4,6-TRINITROTOLUENE	N	1	2003	0.31	UG/L	U
OC13P22A03	O	C13P2	2	2	2,4,6-TRINITROTOLUENE	N	2	2003	1.6	UG/L	U
OC13P23A03	O	C13P2	2	2	2,4,6-TRINITROTOLUENE	N	3	2003	0.31	UG/L	U
OC13P24A03	O	C13P2	2	2	2,4,6-TRINITROTOLUENE	N	4	2003	0.56	UG/L	U
OC14P21A03	O	C14P2	3	2	2,4,6-TRINITROTOLUENE	N	1	2003	0.87	UG/L	U
OC14P22A03	O	C14P2	3	2	2,4,6-TRINITROTOLUENE	N	2	2003	0.77	UG/L	U

Table 7.3. Raw Data for 2,4,6-Trinitrotoluene. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC14P23A03	O	C14P2	3	2	2,4,6-TRINITROTOLUENE	N	3	2003	0.75	UG/L	U
OC14P24A03	O	C14P2	3	2	2,4,6-TRINITROTOLUENE	N	4	2003	0.5	UG/L	U
OC14P24A03	O	C14P2	3	2	2,4,6-TRINITROTOLUENE	N	4	2003	0.56	UG/L	U
OC18P21A03	O	C18P2	4	2	2,4,6-TRINITROTOLUENE	N	1	2003	0.69	UG/L	U
OC18P22A03	O	C18P2	4	2	2,4,6-TRINITROTOLUENE	N	2	2003	1.6	UG/L	U
OC18P23A03	O	C18P2	4	2	2,4,6-TRINITROTOLUENE	N	3	2003	1.1	UG/L	U
OC18P24A03	O	C18P2	4	2	2,4,6-TRINITROTOLUENE	N	4	2003	0.56	UG/L	U
OC19P21A03	O	C19P2	5	2	2,4,6-TRINITROTOLUENE	N	1	2003	0.87	UG/L	U
OC19P22A03	O	C19P2	5	2	2,4,6-TRINITROTOLUENE	N	2	2003	0.81	UG/L	U
OC19P23A03	O	C19P2	5	2	2,4,6-TRINITROTOLUENE	N	3	2003	0.52	UG/L	U
OC19P24A03	O	C19P2	5	2	2,4,6-TRINITROTOLUENE	N	4	2003	0.48	UG/L	U
OC19P24A03	O	C19P2	5	2	2,4,6-TRINITROTOLUENE	N	4	2003	0.57	UG/L	U

Table 7.4. Raw Data for 2-Amino-4,6-dinitrotoluene.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03	A	C02P2	1	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	1.1	UG/L	U
AC02P22A03	A	C02P2	1	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	1.3	UG/L	U
AC02P23A03	A	C02P2	1	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.46	UG/L	U
AC02P24A03	A	C02P2	1	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.53	UG/L	U
AC031A03	A	C03	2	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	1.4	UG/L	U
AC032A03	A	C03	2	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	1.2	UG/L	U
AC033A03	A	C03	2	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.84	UG/L	U
AC034A03	A	C03	2	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.51	UG/L	U
AC041A03	A	C04	3	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	0.99	UG/L	U
AC042A03	A	C04	3	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	0.79	UG/L	U
AC043A03	A	C04	3	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	1.4	UG/L	U
AC044A03	A	C04	3	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.52	UG/L	U
AC071A03	A	C07	4	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	1.1	UG/L	U
AC072A03	A	C07	4	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	1.9	UG/L	U
AC073A03	A	C07	4	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.81	UG/L	U
AC074A03	A	C07	4	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.6	UG/L	U
AC08P21A03	A	C08P2	5	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	2	UG/L	PZ
AC08P22A03	A	C08P2	5	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	2.2	UG/L	PZ
AC08P23A03	A	C08P2	5	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	2	UG/L	PZ
AC08P24A03	A	C08P2	5	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	2.1	UG/L	P
AC09P21A03	A	C09P2	6	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	0.68	UG/L	U
AC09P22A03	A	C09P2	6	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	0.57	UG/L	U
AC09P23A03	A	C09P2	6	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	1.4	UG/L	U
FD08280301	A	C09P2	6	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.64	UG/L	U
AC09P24A03	A	C09P2	6	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.49	UG/L	U
FD03050301	A	C15	7	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	0.99	UG/L	U
AC151A03	A	C15	7	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	1.3	UG/L	U
FD06170301	A	C15	7	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	1.3	UG/L	U

Table 7.4. Raw Data for 2-Amino-4,6-dinitrotoluene. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC152A03	A	C15	7	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	1	UG/L	U
FD09040301	A	C15	7	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.65	UG/L	U
AC153A03	A	C15	7	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	1	UG/L	U
FD12020301	A	C15	7	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.52	UG/L	U
AC154A03	A	C15	7	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.51	UG/L	U
AC171A03	A	C17	8	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	1.3	UG/L	U
FD03110301	A	C17	8	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	1	UG/L	U
FD06190301	A	C17	8	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	0.69	UG/L	U
AC172A03	A	C17	8	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	1.7	UG/L	U
AC173A03	A	C17	8	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	1.5	UG/L	U
AC174A03	A	C17	8	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.56	UG/L	U
AC201A03DL	A	C20	9	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	12	UG/L	DPZ
AC202A03DL	A	C20	9	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	11	UG/L	DPZ
AC203A03DL	A	C20	9	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	10	UG/L	DPZ
AC204A03DL	A	C20	9	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	10	UG/L	DP
AC252A03	A	C25	10	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	1.1	UG/L	U
AC253A03	A	C25	10	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.31	UG/L	U
AC254A03	A	C25	10	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.53	UG/L	U
AC261A03	A	C26	11	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	0.91	UG/L	U
AC262A03	A	C26	11	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	0.22	UG/L	U
AC263A03	A	C26	11	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.71	UG/L	U
AC264A03	A	C26	11	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.54	UG/L	U
AC272A03	A	C27	12	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	0.81	UG/L	U
AC273A03	A	C27	12	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.3	UG/L	U
AC274A03	A	C27	12	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.53	UG/L	U
AC301A03	A	C30	13	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	1.1	UG/L	U
AC302A03	A	C30	13	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	0.77	UG/L	U
AC303A03	A	C30	13	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	1.2	UG/L	U
AC304A03	A	C30	13	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.56	UG/L	U
ASPA1A03	A	SPA	14	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	0.44	UG/L	U
ASPA2A03	A	SPA	14	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	1.2	UG/L	PZ
ASPA3A03	A	SPA	14	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	1.7	UG/L	PZ
ASPA4A03	A	SPA	14	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.53	UG/L	U
ASPC1A03	A	SPC	15	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	1.2	UG/L	U
ASPC2A03	A	SPC	15	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	1.4	UG/L	U
ASPC3A03	A	SPC	15	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.91	UG/L	U
ASPC4A03	A	SPC	15	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.5	UG/L	U
FD12180301	A	SPC	15	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.5	UG/L	U
DC021A03	D	C02	1	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	0.7	UG/L	U
DC023A03	D	C02	1	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.53	UG/L	U
DC031A03	D	C03	2	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	1.2	UG/L	U
DC033A03	D	C03	2	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.74	UG/L	U
FD07140301	D	C03	2	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	1	UG/L	U
DC041A03	D	C04	3	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	1.1	UG/L	U

Table 7.4. Raw Data for 2-Amino-4,6-dinitrotoluene. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
DC043A03	D	C04	3	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	1	UG/L	U
FD07090301	D	C04	3	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.95	UG/L	U
DC051A03	D	C05	4	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	0.81	UG/L	U
FD01130301	D	C05	4	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	1.1	UG/L	U
DC053A03	D	C05	4	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	1.6	UG/L	U
DC061A03	D	C06	5	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	0.77	UG/L	U
DC063A03	D	C06	5	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.46	UG/L	U
DC071A03	D	C07	6	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	0.77	UG/L	U
DC073A03	D	C07	6	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	1.7	UG/L	U
DC081A03	D	C08	7	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	0.84	UG/L	U
DC083A03	D	C08	7	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.91	UG/L	U
DC03P21A03	D	C03P2	1	2	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	0.88	UG/L	U
FD01090301	D	C03P2	1	2	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	0.97	UG/L	U
DC03P23A03	D	C03P2	1	2	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.87	UG/L	U
DC04P21A03	D	C04P2	2	2	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	0.33	UG/L	U
DC04P23A03	D	C04P2	2	2	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.35	UG/L	U
DC06P21A03	D	C06P2	3	2	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	1.2	UG/L	U
DC06P23A03	D	C06P2	3	2	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	1.5	UG/L	U
DC08P23A03	D	C08P2	4	2	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.52	UG/L	U
OC081A03	O	C08	1	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	0.92	UG/L	U
OC082A03	O	C08	1	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	0.73	UG/L	U
OC083A03	O	C08	1	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.92	UG/L	U
OC084A03	O	C08	1	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.58	UG/L	U
OC111A03	O	C11	2	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	0.73	UG/L	U
OC112A03	O	C11	2	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	1.4	UG/L	U
OC113A03	O	C11	2	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.2	UG/L	U
OC114A03	O	C11	2	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.53	UG/L	U
OC121A03	O	C12	3	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	1.1	UG/L	U
FD04290301	O	C12	3	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	1	UG/L	U
OC122A03	O	C12	3	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	1.1	UG/L	U
OC123A03	O	C12	3	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.75	UG/L	U
OC124A03	O	C12	3	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.56	UG/L	U
FD10150301	O	C12	3	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.55	UG/L	U
OC131A03	O	C13	4	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	0.47	UG/L	U
OC132A03	O	C13	4	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	1.4	UG/L	U
OC133A03	O	C13	4	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.78	UG/L	U
OC134A03	O	C13	4	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.55	UG/L	U
OC141A03	O	C14	5	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	1.3	UG/L	U
OC142A03	O	C14	5	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	0.55	UG/L	U
OC143A03	O	C14	5	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.77	UG/L	U
OC144A03	O	C14	5	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.56	UG/L	U
OC151A03	O	C15	6	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	2.5	UG/L	PZ
FD01290301	O	C15	6	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	2.5	UG/L	PZ
FD05070301	O	C15	6	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	2.2	UG/L	PZ

Table 7.4. Raw Data for 2-Amino-4,6-dinitrotoluene. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC152A03	O	C15	6	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	2.5	UG/L	PZ
OC153A03	O	C15	6	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	2.2	UG/L	PZ
FD08120301	O	C15	6	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	2.2	UG/L	PZ
FD10300301	O	C15	6	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	2.1	UG/L	P
OC154A03	O	C15	6	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	2	UG/L	P
FD02130301	O	C16	7	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	0.56	UG/L	U
OC161A03	O	C16	7	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	0.64	UG/L	U
OC162A03	O	C16	7	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	0.58	UG/L	U
OC163A03	O	C16	7	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	1.1	UG/L	U
OC164A03	O	C16	7	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.59	UG/L	U
OC181A03	O	C18	8	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	0.83	UG/L	U
OC182A03	O	C18	8	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	0.84	UG/L	U
OC183A03	O	C18	8	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.44	UG/L	U
OC184A03	O	C18	8	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.54	UG/L	U
OC191A03	O	C19	9	1	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	0.9	UG/L	U
OC192A03	O	C19	9	1	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	0.82	UG/L	U
OC193A03	O	C19	9	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.25	UG/L	U
FD08200301	O	C19	9	1	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.51	UG/L	U
OC194A03	O	C19	9	1	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.49	UG/L	U
OC11P21A03	O	C11P2	1	2	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	1.2	UG/L	U
OC11P22A03	O	C11P2	1	2	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	1.6	UG/L	U
OC11P23A03	O	C11P2	1	2	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.96	UG/L	U
OC11P24A03	O	C11P2	1	2	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.58	UG/L	U
OC13P21A03	O	C13P2	2	2	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	0.31	UG/L	U
OC13P22A03	O	C13P2	2	2	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	1.6	UG/L	U
OC13P23A03	O	C13P2	2	2	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.31	UG/L	U
OC13P24A03	O	C13P2	2	2	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.56	UG/L	U
OC14P21A03	O	C14P2	3	2	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	0.87	UG/L	U
OC14P22A03	O	C14P2	3	2	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	0.77	UG/L	U
OC14P23A03	O	C14P2	3	2	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.75	UG/L	U
OC14P24A03	O	C14P2	3	2	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.56	UG/L	U
OC14P24A03	O	C14P2	3	2	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.5	UG/L	U
OC18P21A03	O	C18P2	4	2	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	0.69	UG/L	U
OC18P22A03	O	C18P2	4	2	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	1.6	UG/L	U
OC18P23A03	O	C18P2	4	2	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	1.1	UG/L	U
OC18P24A03	O	C18P2	4	2	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.56	UG/L	U
OC19P21A03	O	C19P2	5	2	2-AMINO-4,6-DINITROTOLUENE	N	1	2003	0.87	UG/L	U
OC19P22A03	O	C19P2	5	2	2-AMINO-4,6-DINITROTOLUENE	N	2	2003	0.81	UG/L	U
OC19P23A03	O	C19P2	5	2	2-AMINO-4,6-DINITROTOLUENE	N	3	2003	0.52	UG/L	U
OC19P24A03	O	C19P2	5	2	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.57	UG/L	U
OC19P24A03	O	C19P2	5	2	2-AMINO-4,6-DINITROTOLUENE	N	4	2003	0.48	UG/L	U

Table 7.5. Raw Data for 4-Amino-2,6-dinitrotoluene.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qua
AC02P21A03	A	C02P2	1	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	1.1	UG/L	U
AC02P22A03	A	C02P2	1	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	1.3	UG/L	U
AC02P23A03	A	C02P2	1	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.46	UG/L	U
AC02P24A03	A	C02P2	1	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.53	UG/L	U
AC031A03	A	C03	2	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	1.4	UG/L	U
AC032A03	A	C03	2	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	1.2	UG/L	U
AC033A03	A	C03	2	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.84	UG/L	U
AC034A03	A	C03	2	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.51	UG/L	U
AC041A03	A	C04	3	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	0.99	UG/L	U
AC042A03	A	C04	3	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	0.79	UG/L	U
AC043A03	A	C04	3	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	1.4	UG/L	U
AC044A03	A	C04	3	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.52	UG/L	U
AC071A03	A	C07	4	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	1.1	UG/L	U
AC072A03	A	C07	4	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	1.9	UG/L	U
AC073A03	A	C07	4	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.81	UG/L	U
AC074A03	A	C07	4	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.6	UG/L	U
AC08P21A03	A	C08P2	5	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	2.6	UG/L	PZ
AC08P22A03	A	C08P2	5	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	2.9	UG/L	PZ
AC08P23A03	A	C08P2	5	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	2.5	UG/L	PZ
AC08P24A03DL	A	C08P2	5	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	2.9	UG/L	D
AC09P21A03	A	C09P2	6	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	0.68	UG/L	U
AC09P22A03	A	C09P2	6	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	0.57	UG/L	U
FD08280301	A	C09P2	6	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.64	UG/L	U
AC09P23A03	A	C09P2	6	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	1.4	UG/L	U
AC09P24A03	A	C09P2	6	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.49	UG/L	U
FD03050301	A	C15	7	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	0.99	UG/L	U
AC151A03	A	C15	7	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	1.3	UG/L	U
AC152A03	A	C15	7	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	1	UG/L	U
FD06170301	A	C15	7	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	1.3	UG/L	U
AC153A03	A	C15	7	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	1	UG/L	U
FD09040301	A	C15	7	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.65	UG/L	U
AC154A03	A	C15	7	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.51	UG/L	U
FD12020301	A	C15	7	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.52	UG/L	U
FD03110301	A	C17	8	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	1	UG/L	U
AC171A03	A	C17	8	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	1.3	UG/L	U
AC172A03	A	C17	8	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	1.7	UG/L	U
FD06190301	A	C17	8	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	0.69	UG/L	U
AC173A03	A	C17	8	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	1.5	UG/L	U
AC174A03	A	C17	8	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.56	UG/L	U
AC201A03DL	A	C20	9	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	14	UG/L	DPZ
AC202A03DL	A	C20	9	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	13	UG/L	DPZ
AC203A03DL	A	C20	9	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	12	UG/L	DPZ
AC204A03DL	A	C20	9	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	13	UG/L	D
AC252A03	A	C25	10	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	1.1	UG/L	U

Table 7.5. Raw Data for 4-Amino-2,6-dinitrotoluene. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC253A03	A	C25	10	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.31	UG/L	U
AC254A03	A	C25	10	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.53	UG/L	U
AC261A03	A	C26	11	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	0.91	UG/L	U
AC262A03	A	C26	11	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	0.22	UG/L	U
AC263A03	A	C26	11	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.71	UG/L	U
AC264A03	A	C26	11	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.54	UG/L	U
AC272A03	A	C27	12	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	0.81	UG/L	U
AC273A03	A	C27	12	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.3	UG/L	U
AC274A03	A	C27	12	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.53	UG/L	U
AC301A03	A	C30	13	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	1.1	UG/L	U
AC302A03	A	C30	13	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	0.77	UG/L	U
AC303A03	A	C30	13	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	1.2	UG/L	U
AC304A03	A	C30	13	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.56	UG/L	U
ASPA1A03	A	SPA	14	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	0.44	UG/L	U
ASPA2A03	A	SPA	14	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	2.8	UG/L	PZ
ASPA3A03	A	SPA	14	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	3.7	UG/L	PZ
ASPA4A03	A	SPA	14	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.53	UG/L	U
ASPC1A03	A	SPC	15	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	1.2	UG/L	U
ASPC2A03	A	SPC	15	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	1.4	UG/L	U
ASPC3A03	A	SPC	15	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.91	UG/L	U
FD12180301	A	SPC	15	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.5	UG/L	U
ASPC4A03	A	SPC	15	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.5	UG/L	U
DC021A03	D	C02	1	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	0.7	UG/L	U
DC023A03	D	C02	1	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.53	UG/L	U
DC031A03	D	C03	2	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	1.2	UG/L	U
FD07140301	D	C03	2	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	1	UG/L	U
DC033A03	D	C03	2	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.74	UG/L	U
DC041A03	D	C04	3	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	1.1	UG/L	U
DC043A03	D	C04	3	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	1	UG/L	U
FD07090301	D	C04	3	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.95	UG/L	U
FD01130301	D	C05	4	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	1.1	UG/L	U
DC051A03	D	C05	4	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	0.81	UG/L	U
DC053A03	D	C05	4	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	1.6	UG/L	U
DC061A03	D	C06	5	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	0.77	UG/L	U
DC063A03	D	C06	5	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.46	UG/L	U
DC071A03	D	C07	6	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	0.77	UG/L	U
DC073A03	D	C07	6	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	1.7	UG/L	U
DC081A03	D	C08	7	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	0.84	UG/L	U
DC083A03	D	C08	7	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.91	UG/L	U
DC03P21A03	D	C03P2	1	2	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	0.88	UG/L	U
FD01090301	D	C03P2	1	2	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	0.97	UG/L	U
DC03P23A03	D	C03P2	1	2	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.87	UG/L	U
DC04P21A03	D	C04P2	2	2	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	0.33	UG/L	U
DC04P23A03	D	C04P2	2	2	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.35	UG/L	U

Table 7.5. Raw Data for 4-Amino-2,6-dinitrotoluene. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
DC06P21A03	D	C06P2	3	2	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	1.2	UG/L	U
DC06P23A03	D	C06P2	3	2	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	1.5	UG/L	U
DC08P23A03	D	C08P2	4	2	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.52	UG/L	U
OC081A03	O	C08	1	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	0.92	UG/L	U
OC082A03	O	C08	1	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	0.73	UG/L	U
OC083A03	O	C08	1	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.92	UG/L	U
OC084A03	O	C08	1	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.58	UG/L	U
OC111A03	O	C11	2	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	0.73	UG/L	U
OC112A03	O	C11	2	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	1.4	UG/L	U
OC113A03	O	C11	2	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.2	UG/L	U
OC114A03	O	C11	2	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.53	UG/L	U
OC121A03	O	C12	3	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	1.1	UG/L	U
OC122A03	O	C12	3	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	1.1	UG/L	U
FD04290301	O	C12	3	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	1	UG/L	U
OC123A03	O	C12	3	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.75	UG/L	U
FD10150301	O	C12	3	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.55	UG/L	U
OC124A03	O	C12	3	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.56	UG/L	U
OC131A03	O	C13	4	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	0.47	UG/L	U
OC132A03	O	C13	4	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	1.4	UG/L	U
OC133A03	O	C13	4	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.78	UG/L	U
OC134A03	O	C13	4	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.55	UG/L	U
OC141A03	O	C14	5	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	1.3	UG/L	U
OC142A03	O	C14	5	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	0.55	UG/L	U
OC143A03	O	C14	5	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.77	UG/L	U
OC144A03	O	C14	5	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.56	UG/L	U
FD01290301	O	C15	6	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	2.8	UG/L	PZ
OC151A03	O	C15	6	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	2.8	UG/L	PZ
OC152A03	O	C15	6	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	3	UG/L	PZ
FD05070301	O	C15	6	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	2.6	UG/L	PZ
OC153A03	O	C15	6	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	2.5	UG/L	PZ
FD08120301	O	C15	6	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	2.5	UG/L	PZ
FD10300301	O	C15	6	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	2.4	UG/L	
OC154A03	O	C15	6	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	2.2	UG/L	
OC161A03	O	C16	7	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	0.64	UG/L	U
FD02130301	O	C16	7	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	0.56	UG/L	U
OC162A03	O	C16	7	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	0.58	UG/L	U
OC163A03	O	C16	7	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	1.1	UG/L	U
OC164A03	O	C16	7	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.59	UG/L	U
OC181A03	O	C18	8	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	0.83	UG/L	U
OC182A03	O	C18	8	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	0.84	UG/L	U
OC183A03	O	C18	8	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.44	UG/L	U
OC184A03	O	C18	8	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.54	UG/L	U
OC191A03	O	C19	9	1	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	0.9	UG/L	U
OC192A03	O	C19	9	1	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	0.82	UG/L	U

Table 7.5. Raw Data for 4-Amino-2,6-dinitrotoluene. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
FD08200301	O	C19	9	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.51	UG/L	U
OC193A03	O	C19	9	1	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.25	UG/L	U
OC194A03	O	C19	9	1	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.49	UG/L	U
OC11P21A03	O	C11P2	1	2	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	1.2	UG/L	U
OC11P22A03	O	C11P2	1	2	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	1.6	UG/L	U
OC11P23A03	O	C11P2	1	2	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.96	UG/L	U
OC11P24A03	O	C11P2	1	2	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.58	UG/L	U
OC13P21A03	O	C13P2	2	2	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	0.31	UG/L	U
OC13P22A03	O	C13P2	2	2	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	1.6	UG/L	U
OC13P23A03	O	C13P2	2	2	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.31	UG/L	U
OC13P24A03	O	C13P2	2	2	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.56	UG/L	U
OC14P21A03	O	C14P2	3	2	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	0.87	UG/L	U
OC14P22A03	O	C14P2	3	2	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	0.77	UG/L	U
OC14P23A03	O	C14P2	3	2	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.75	UG/L	U
OC14P24A03	O	C14P2	3	2	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.56	UG/L	U
OC14P24A03	O	C14P2	3	2	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.5	UG/L	U
OC18P21A03	O	C18P2	4	2	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	0.69	UG/L	U
OC18P22A03	O	C18P2	4	2	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	1.6	UG/L	U
OC18P23A03	O	C18P2	4	2	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	1.1	UG/L	U
OC18P24A03	O	C18P2	4	2	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.56	UG/L	U
OC19P21A03	O	C19P2	5	2	4-AMINO-2,6-DINITROTOLUENE	N	1	2003	0.87	UG/L	U
OC19P22A03	O	C19P2	5	2	4-AMINO-2,6-DINITROTOLUENE	N	2	2003	0.81	UG/L	U
OC19P23A03	O	C19P2	5	2	4-AMINO-2,6-DINITROTOLUENE	N	3	2003	0.52	UG/L	U
OC19P24A03	O	C19P2	5	2	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.57	UG/L	U
OC19P24A03	O	C19P2	5	2	4-AMINO-2,6-DINITROTOLUENE	N	4	2003	0.48	UG/L	U

Table 7.6. Raw Data for HMX.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03	A	C02P2	1	1	HMX	N	1	2003	2.6	UG/L	
AC02P22A03	A	C02P2	1	1	HMX	N	2	2003	29	UG/L	
AC02P23A03	A	C02P2	1	1	HMX	N	3	2003	27	UG/L	P
AC02P24A03	A	C02P2	1	1	HMX	N	4	2003	7.8	UG/L	
AC031A03	A	C03	2	1	HMX	N	1	2003	1.4	UG/L	U
AC032A03	A	C03	2	1	HMX	N	2	2003	1.2	UG/L	U
AC033A03	A	C03	2	1	HMX	N	3	2003	0.84	UG/L	U
AC034A03	A	C03	2	1	HMX	N	4	2003	0.51	UG/L	U
AC041A03	A	C04	3	1	HMX	N	1	2003	0.99	UG/L	U
AC042A03	A	C04	3	1	HMX	N	2	2003	0.79	UG/L	U
AC043A03	A	C04	3	1	HMX	N	3	2003	1.4	UG/L	U
AC044A03	A	C04	3	1	HMX	N	4	2003	0.52	UG/L	U
AC071A03	A	C07	4	1	HMX	N	1	2003	11	UG/L	
AC072A03	A	C07	4	1	HMX	N	2	2003	10	UG/L	
AC073A03	A	C07	4	1	HMX	N	3	2003	7.8	UG/L	P

Table 7.6. Raw Data for HMX. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC074A03	A	C07	4	1	HMX	N	4	2003	11	UG/L	
AC08P21A03DL	A	C08P2	5	1	HMX	N	1	2003	24	UG/L	D
AC08P22A03	A	C08P2	5	1	HMX	N	2	2003	26	UG/L	
AC08P23A03DL	A	C08P2	5	1	HMX	N	3	2003	27	UG/L	DP
AC08P24A03DL	A	C08P2	5	1	HMX	N	4	2003	29	UG/L	D
AC09P21A03	A	C09P2	6	1	HMX	N	1	2003	4.7	UG/L	
AC09P22A03DL	A	C09P2	6	1	HMX	N	2	2003	5.3	UG/L	D
AC09P23A03	A	C09P2	6	1	HMX	N	3	2003	5.5	UG/L	P
FD08280301	A	C09P2	6	1	HMX	N	3	2003	4.7	UG/L	P
AC09P24A03DL	A	C09P2	6	1	HMX	N	4	2003	5.7	UG/L	DP
AC151A03	A	C15	7	1	HMX	N	1	2003	1.3	UG/L	U
FD03050301	A	C15	7	1	HMX	N	1	2003	0.99	UG/L	U
AC152A03	A	C15	7	1	HMX	N	2	2003	1	UG/L	U
FD06170301	A	C15	7	1	HMX	N	2	2003	1.3	UG/L	U
FD09040301	A	C15	7	1	HMX	N	3	2003	0.65	UG/L	U
AC153A03	A	C15	7	1	HMX	N	3	2003	1	UG/L	U
FD12020301	A	C15	7	1	HMX	N	4	2003	0.52	UG/L	U
AC154A03	A	C15	7	1	HMX	N	4	2003	0.51	UG/L	U
AC171A03	A	C17	8	1	HMX	N	1	2003	1.3	UG/L	U
FD03110301	A	C17	8	1	HMX	N	1	2003	1	UG/L	U
AC172A03	A	C17	8	1	HMX	N	2	2003	1.7	UG/L	U
FD06190301	A	C17	8	1	HMX	N	2	2003	0.69	UG/L	U
AC173A03	A	C17	8	1	HMX	N	3	2003	1.5	UG/L	U
AC174A03	A	C17	8	1	HMX	N	4	2003	0.56	UG/L	U
AC201A03DL	A	C20	9	1	HMX	N	1	2003	30	UG/L	D
AC202A03DL	A	C20	9	1	HMX	N	2	2003	29	UG/L	D
AC203A03DL	A	C20	9	1	HMX	N	3	2003	26	UG/L	D
AC204A03	A	C20	9	1	HMX	N	4	2003	30	UG/L	
AC252A03	A	C25	10	1	HMX	N	2	2003	1.1	UG/L	U
AC253A03	A	C25	10	1	HMX	N	3	2003	0.31	UG/L	U
AC254A03	A	C25	10	1	HMX	N	4	2003	0.53	UG/L	U
AC261A03	A	C26	11	1	HMX	N	1	2003	0.91	UG/L	U
AC262A03	A	C26	11	1	HMX	N	2	2003	0.22	UG/L	U
AC263A03	A	C26	11	1	HMX	N	3	2003	0.71	UG/L	U
AC264A03	A	C26	11	1	HMX	N	4	2003	0.54	UG/L	U
AC272A03	A	C27	12	1	HMX	N	2	2003	0.81	UG/L	U
AC273A03	A	C27	12	1	HMX	N	3	2003	0.3	UG/L	U
AC274A03	A	C27	12	1	HMX	N	4	2003	0.53	UG/L	U
AC301A03	A	C30	13	1	HMX	N	1	2003	1.1	UG/L	U
AC302A03	A	C30	13	1	HMX	N	2	2003	0.77	UG/L	U
AC303A03	A	C30	13	1	HMX	N	3	2003	1.2	UG/L	U
AC304A03	A	C30	13	1	HMX	N	4	2003	0.56	UG/L	U
ASPA1A03	A	SPA	14	1	HMX	N	1	2003	2	UG/L	
ASPA2A03	A	SPA	14	1	HMX	N	2	2003	19	UG/L	

Table 7.6. Raw Data for HMX. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
ASPA3A03	A	SPA	14	1	HMX	N	3	2003	24	UG/L	P
ASPA4A03	A	SPA	14	1	HMX	N	4	2003	2.2	UG/L	
ASPC1A03	A	SPC	15	1	HMX	N	1	2003	1.2	UG/L	U
ASPC2A03	A	SPC	15	1	HMX	N	2	2003	1.6	UG/L	
ASPC3A03	A	SPC	15	1	HMX	N	3	2003	2.3	UG/L	P
ASPC4A03	A	SPC	15	1	HMX	N	4	2003	1.1	UG/L	
FD12180301	A	SPC	15	1	HMX	N	4	2003	0.9	UG/L	
DC021A03	D	C02	1	1	HMX	N	1	2003	0.7	UG/L	U
DC023A03	D	C02	1	1	HMX	N	3	2003	0.53	UG/L	U
DC031A03	D	C03	2	1	HMX	N	1	2003	1.2	UG/L	U
FD07140301	D	C03	2	1	HMX	N	3	2003	1	UG/L	U
DC033A03	D	C03	2	1	HMX	N	3	2003	0.74	UG/L	U
DC041A03	D	C04	3	1	HMX	N	1	2003	1.1	UG/L	U
DC043A03	D	C04	3	1	HMX	N	3	2003	1	UG/L	U
FD07090301	D	C04	3	1	HMX	N	3	2003	0.95	UG/L	U
DC051A03	D	C05	4	1	HMX	N	1	2003	0.81	UG/L	U
FD01130301	D	C05	4	1	HMX	N	1	2003	1.1	UG/L	U
DC053A03	D	C05	4	1	HMX	N	3	2003	1.6	UG/L	U
DC061A03	D	C06	5	1	HMX	N	1	2003	0.77	UG/L	U
DC063A03	D	C06	5	1	HMX	N	3	2003	0.46	UG/L	U
DC071A03	D	C07	6	1	HMX	N	1	2003	0.77	UG/L	U
DC073A03	D	C07	6	1	HMX	N	3	2003	1.7	UG/L	U
DC081A03	D	C08	7	1	HMX	N	1	2003	0.84	UG/L	U
DC083A03	D	C08	7	1	HMX	N	3	2003	0.91	UG/L	U
DC03P21A03	D	C03P2	1	2	HMX	N	1	2003	0.88	UG/L	U
FD01090301	D	C03P2	1	2	HMX	N	1	2003	0.97	UG/L	U
DC03P23A03	D	C03P2	1	2	HMX	N	3	2003	0.87	UG/L	U
DC04P21A03	D	C04P2	2	2	HMX	N	1	2003	0.33	UG/L	U
DC04P23A03	D	C04P2	2	2	HMX	N	3	2003	0.35	UG/L	U
DC06P21A03	D	C06P2	3	2	HMX	N	1	2003	1.2	UG/L	U
DC06P23A03	D	C06P2	3	2	HMX	N	3	2003	1.5	UG/L	U
DC08P23A03	D	C08P2	4	2	HMX	N	3	2003	0.52	UG/L	U
OC081A03	O	C08	1	1	HMX	N	1	2003	0.92	UG/L	U
OC082A03	O	C08	1	1	HMX	N	2	2003	0.73	UG/L	U
OC083A03	O	C08	1	1	HMX	N	3	2003	0.92	UG/L	U
OC084A03	O	C08	1	1	HMX	N	4	2003	0.58	UG/L	U
OC111A03	O	C11	2	1	HMX	N	1	2003	0.73	UG/L	U
OC112A03	O	C11	2	1	HMX	N	2	2003	1.4	UG/L	U
OC113A03	O	C11	2	1	HMX	N	3	2003	0.2	UG/L	U
OC114A03	O	C11	2	1	HMX	N	4	2003	0.53	UG/L	U
OC121A03	O	C12	3	1	HMX	N	1	2003	1.1	UG/L	U
FD04290301	O	C12	3	1	HMX	N	2	2003	1	UG/L	U
OC122A03	O	C12	3	1	HMX	N	2	2003	1.1	UG/L	U
OC123A03	O	C12	3	1	HMX	N	3	2003	0.75	UG/L	U

Table 7.6. Raw Data for HMX. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
FD10150301	O	C12	3	1	HMX	N	4	2003	0.55	UG/L	U
OC124A03	O	C12	3	1	HMX	N	4	2003	0.56	UG/L	U
OC131A03	O	C13	4	1	HMX	N	1	2003	0.47	UG/L	U
OC132A03	O	C13	4	1	HMX	N	2	2003	1.4	UG/L	U
OC133A03	O	C13	4	1	HMX	N	3	2003	0.78	UG/L	U
OC134A03	O	C13	4	1	HMX	N	4	2003	0.55	UG/L	U
OC141A03	O	C14	5	1	HMX	N	1	2003	1.3	UG/L	U
OC142A03	O	C14	5	1	HMX	N	2	2003	0.55	UG/L	U
OC143A03	O	C14	5	1	HMX	N	3	2003	0.77	UG/L	U
OC144A03	O	C14	5	1	HMX	N	4	2003	0.56	UG/L	U
OC151A03	O	C15	6	1	HMX	N	1	2003	0.96	UG/L	U
FD01290301	O	C15	6	1	HMX	N	1	2003	0.99	UG/L	U
OC152A03	O	C15	6	1	HMX	N	2	2003	1.2	UG/L	U
FD05070301	O	C15	6	1	HMX	N	2	2003	0.43	UG/L	U
OC153A03	O	C15	6	1	HMX	N	3	2003	1.2	UG/L	U
FD08120301	O	C15	6	1	HMX	N	3	2003	0.9	UG/L	U
FD10300301	O	C15	6	1	HMX	N	4	2003	0.56	UG/L	U
OC154A03	O	C15	6	1	HMX	N	4	2003	0.56	UG/L	U
OC161A03	O	C16	7	1	HMX	N	1	2003	0.64	UG/L	U
FD02130301	O	C16	7	1	HMX	N	1	2003	0.56	UG/L	U
OC162A03	O	C16	7	1	HMX	N	2	2003	0.58	UG/L	U
OC163A03	O	C16	7	1	HMX	N	3	2003	1.1	UG/L	U
OC164A03	O	C16	7	1	HMX	N	4	2003	0.59	UG/L	U
OC181A03	O	C18	8	1	HMX	N	1	2003	0.83	UG/L	U
OC182A03	O	C18	8	1	HMX	N	2	2003	0.84	UG/L	U
OC183A03	O	C18	8	1	HMX	N	3	2003	0.44	UG/L	U
OC184A03	O	C18	8	1	HMX	N	4	2003	0.54	UG/L	U
OC191A03	O	C19	9	1	HMX	N	1	2003	0.9	UG/L	U
OC192A03	O	C19	9	1	HMX	N	2	2003	0.82	UG/L	U
FD08200301	O	C19	9	1	HMX	N	3	2003	0.51	UG/L	U
OC193A03	O	C19	9	1	HMX	N	3	2003	0.25	UG/L	U
OC194A03	O	C19	9	1	HMX	N	4	2003	0.49	UG/L	U
OC11P21A03	O	C11P2	1	2	HMX	N	1	2003	1.2	UG/L	U
OC11P22A03	O	C11P2	1	2	HMX	N	2	2003	1.6	UG/L	U
OC11P23A03	O	C11P2	1	2	HMX	N	3	2003	0.96	UG/L	U
OC11P24A03	O	C11P2	1	2	HMX	N	4	2003	0.58	UG/L	U
OC13P21A03	O	C13P2	2	2	HMX	N	1	2003	0.31	UG/L	U
OC13P22A03	O	C13P2	2	2	HMX	N	2	2003	1.6	UG/L	U
OC13P23A03	O	C13P2	2	2	HMX	N	3	2003	0.31	UG/L	U
OC13P24A03	O	C13P2	2	2	HMX	N	4	2003	0.56	UG/L	U
OC14P21A03	O	C14P2	3	2	HMX	N	1	2003	0.87	UG/L	U
OC14P22A03	O	C14P2	3	2	HMX	N	2	2003	0.77	UG/L	U
OC14P23A03	O	C14P2	3	2	HMX	N	3	2003	0.75	UG/L	U
OC14P24A03	O	C14P2	3	2	HMX	N	4	2003	0.56	UG/L	U

Table 7.6. Raw Data for HMX. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC14P24A03	O	C14P2	3	2	HMX	N	4	2003	0.5	UG/L	U
OC18P21A03	O	C18P2	4	2	HMX	N	1	2003	0.69	UG/L	U
OC18P22A03	O	C18P2	4	2	HMX	N	2	2003	1.6	UG/L	U
OC18P23A03	O	C18P2	4	2	HMX	N	3	2003	1.1	UG/L	U
OC18P24A03	O	C18P2	4	2	HMX	N	4	2003	0.56	UG/L	U
OC19P21A03	O	C19P2	5	2	HMX	N	1	2003	0.87	UG/L	U
OC19P22A03	O	C19P2	5	2	HMX	N	2	2003	0.81	UG/L	U
OC19P23A03	O	C19P2	5	2	HMX	N	3	2003	0.52	UG/L	U
OC19P24A03	O	C19P2	5	2	HMX	N	4	2003	0.48	UG/L	U
OC19P24A03	O	C19P2	5	2	HMX	N	4	2003	0.57	UG/L	U

Table 7.7. Raw Data for Nitrocellulose.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03	A	C02P2	1	1	NITROCELLULOSE IN WATER	N	1	2003	1200	UG/L	
AC02P22A03	A	C02P2	1	1	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	U
AC02P23A03	A	C02P2	1	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
AC02P24A03	A	C02P2	1	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
AC031A03	A	C03	2	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
AC032A03	A	C03	2	1	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	U
AC033A03	A	C03	2	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
AC034A03	A	C03	2	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
AC041A03	A	C04	3	1	NITROCELLULOSE IN WATER	N	1	2003	1800	UG/L	
AC042A03	A	C04	3	1	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	UJ
AC043A03	A	C04	3	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
AC044A03	A	C04	3	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
AC071A03	A	C07	4	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
AC072A03	A	C07	4	1	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	U
AC073A03	A	C07	4	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
AC074A03	A	C07	4	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
AC08P21A03	A	C08P2	5	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
AC08P22A03	A	C08P2	5	1	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	U
AC08P23A03	A	C08P2	5	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
AC08P24A03	A	C08P2	5	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
AC09P21A03	A	C09P2	6	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
AC09P22A03	A	C09P2	6	1	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	U
AC09P23A03	A	C09P2	6	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
FD08280301	A	C09P2	6	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
AC09P24A03	A	C09P2	6	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
FD03050301	A	C15	7	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
AC151A03	A	C15	7	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
FD06170301	A	C15	7	1	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	U
AC152A03	A	C15	7	1	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	U
AC153A03	A	C15	7	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U

Table 7.7. Raw Data for Nitrocellulose. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
FD09040301	A	C15	7	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
FD12020301	A	C15	7	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
AC154A03	A	C15	7	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
FD03110301	A	C17	8	1	NITROCELLULOSE IN WATER	N	1	2003	4500	UG/L	
AC171A03	A	C17	8	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
FD06190301	A	C17	8	1	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	U
AC172A03	A	C17	8	1	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	U
AC173A03	A	C17	8	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
AC174A03	A	C17	8	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
AC201A03	A	C20	9	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
AC202A03	A	C20	9	1	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	U
AC203A03	A	C20	9	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
AC204A03	A	C20	9	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	UJ
AC252A03	A	C25	10	1	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	U
AC253A03	A	C25	10	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
AC254A03	A	C25	10	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
AC261A03	A	C26	11	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
AC262A03	A	C26	11	1	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	U
AC263A03	A	C26	11	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
AC264A03	A	C26	11	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
AC272A03	A	C27	12	1	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	U
AC273A03	A	C27	12	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
AC274A03	A	C27	12	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
AC301A03	A	C30	13	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
AC302A03	A	C30	13	1	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	U
AC303A03	A	C30	13	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
AC304A03	A	C30	13	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
ASPA1A03	A	SPA	14	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
ASPA2A03	A	SPA	14	1	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	U
ASPA3A03	A	SPA	14	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
ASPA4A03	A	SPA	14	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
ASPC1A03	A	SPC	15	1	NITROCELLULOSE IN WATER	N	1	2003	1400	UG/L	
ASPC2A03	A	SPC	15	1	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	U
ASPC3A03	A	SPC	15	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
ASPC4A03	A	SPC	15	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
FD12180301	A	SPC	15	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
DC021A03	D	C02	1	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
DC023A03	D	C02	1	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
DC031A03	D	C03	2	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
FD07140301	D	C03	2	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
DC033A03	D	C03	2	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
DC041A03	D	C04	3	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
FD07090301	D	C04	3	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
DC043A03	D	C04	3	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U

Table 7.7. Raw Data for Nitrocellulose. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
FD01130301	D	C05	4	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
DC051A03	D	C05	4	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
DC053A03	D	C05	4	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
DC061A03	D	C06	5	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
DC063A03	D	C06	5	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
DC071A03	D	C07	6	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
DC073A03	D	C07	6	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
DC081A03	D	C08	7	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
DC083A03	D	C08	7	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
DC03P21A03	D	C03P2	1	2	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
FD01090301	D	C03P2	1	2	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
DC03P23A03	D	C03P2	1	2	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
DC04P21A03	D	C04P2	2	2	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
DC04P23A03	D	C04P2	2	2	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
DC06P21A03	D	C06P2	3	2	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
DC06P23A03	D	C06P2	3	2	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
DC08P23A03	D	C08P2	4	2	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
OC081A03	O	C08	1	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
OC082A03	O	C08	1	1	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	U
OC083A03	O	C08	1	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
OC084A03	O	C08	1	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
OC111A03	O	C11	2	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
OC112A03	O	C11	2	1	NITROCELLULOSE IN WATER	N	2	2003	3600	UG/L	J
OC113A03	O	C11	2	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
OC114A03	O	C11	2	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
OC121A03	O	C12	3	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
FD04290301	O	C12	3	1	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	U
OC122A03	O	C12	3	1	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	U
OC123A03	O	C12	3	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
OC124A03	O	C12	3	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
FD10150301	O	C12	3	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
OC131A03	O	C13	4	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
OC132A03	O	C13	4	1	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	UJ
OC133A03	O	C13	4	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
OC134A03	O	C13	4	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
OC141A03	O	C14	5	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
OC142A03	O	C14	5	1	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	U
OC143A03	O	C14	5	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
OC144A03	O	C14	5	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
FD01290301	O	C15	6	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
OC151A03	O	C15	6	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
FD05070301	O	C15	6	1	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	U
OC152A03	O	C15	6	1	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	U
OC153A03	O	C15	6	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U

Table 7.7. Raw Data for Nitrocellulose. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
FD08120301	O	C15	6	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
FD10300301	O	C15	6	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	UJ
OC154A03	O	C15	6	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	UJ
FD02130301	O	C16	7	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
OC161A03	O	C16	7	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
OC162A03	O	C16	7	1	NITROCELLULOSE IN WATER	N	2	2003	1100	UG/L	
OC163A03	O	C16	7	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
OC164A03	O	C16	7	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
OC181A03	O	C18	8	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
OC182A03	O	C18	8	1	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	UJ
OC183A03	O	C18	8	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
OC184A03	O	C18	8	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
OC191A03	O	C19	9	1	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
OC192A03	O	C19	9	1	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	U
FD08200301	O	C19	9	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
OC193A03	O	C19	9	1	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
OC194A03	O	C19	9	1	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
OC11P21A03	O	C11P2	1	2	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
OC11P22A03	O	C11P2	1	2	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	U
OC11P23A03	O	C11P2	1	2	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
OC11P24A03	O	C11P2	1	2	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
OC13P21A03	O	C13P2	2	2	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
OC13P22A03	O	C13P2	2	2	NITROCELLULOSE IN WATER	N	2	2003	2500	UG/L	J
OC13P23A03	O	C13P2	2	2	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
OC13P24A03	O	C13P2	2	2	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
OC14P21A03	O	C14P2	3	2	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
OC14P22A03	O	C14P2	3	2	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	UJ
OC14P23A03	O	C14P2	3	2	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
OC14P24A03	O	C14P2	3	2	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
OC18P21A03	O	C18P2	4	2	NITROCELLULOSE IN WATER	N	1	2003	5900	UG/L	
OC18P22A03	O	C18P2	4	2	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	UJ
OC18P23A03	O	C18P2	4	2	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
OC18P24A03	O	C18P2	4	2	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U
OC19P21A03	O	C19P2	5	2	NITROCELLULOSE IN WATER	N	1	2003	1000	UG/L	U
OC19P22A03	O	C19P2	5	2	NITROCELLULOSE IN WATER	N	2	2003	1000	UG/L	UJ
OC19P23A03	O	C19P2	5	2	NITROCELLULOSE IN WATER	N	3	2003	1000	UG/L	U
OC19P24A03	O	C19P2	5	2	NITROCELLULOSE IN WATER	N	4	2003	1000	UG/L	U

Table 7.8. Raw Data for RDX.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03	A	C02P2	1	1	RDX	N	1	2003	1.1	UG/L	U
AC02P22A03	A	C02P2	1	1	RDX	N	2	2003	10	UG/L	
AC02P23A03	A	C02P2	1	1	RDX	N	3	2003	9.8	UG/L	
AC02P24A03	A	C02P2	1	1	RDX	N	4	2003	2.7	UG/L	
AC031A03	A	C03	2	1	RDX	N	1	2003	1.4	UG/L	U
AC032A03	A	C03	2	1	RDX	N	2	2003	1.2	UG/L	U
AC033A03	A	C03	2	1	RDX	N	3	2003	0.84	UG/L	U
AC034A03	A	C03	2	1	RDX	N	4	2003	0.51	UG/L	U
AC041A03	A	C04	3	1	RDX	N	1	2003	0.99	UG/L	U
AC042A03	A	C04	3	1	RDX	N	2	2003	0.79	UG/L	U
AC043A03	A	C04	3	1	RDX	N	3	2003	1.4	UG/L	U
AC044A03	A	C04	3	1	RDX	N	4	2003	0.52	UG/L	U
AC071A03	A	C07	4	1	RDX	N	1	2003	35	UG/L	
AC072A03	A	C07	4	1	RDX	N	2	2003	31	UG/L	
AC073A03	A	C07	4	1	RDX	N	3	2003	24	UG/L	
AC074A03	A	C07	4	1	RDX	N	4	2003	39	UG/L	
AC08P21A03DL	A	C08P2	5	1	RDX	N	1	2003	68	UG/L	D
AC08P22A03	A	C08P2	5	1	RDX	N	2	2003	73	UG/L	
AC08P23A03DL	A	C08P2	5	1	RDX	N	3	2003	73	UG/L	D
AC08P24A03DL	A	C08P2	5	1	RDX	N	4	2003	82	UG/L	D
AC09P21A03DL	A	C09P2	6	1	RDX	N	1	2003	170	UG/L	D
AC09P22A03DL	A	C09P2	6	1	RDX	N	2	2003	160	UG/L	D
AC09P23A03DL	A	C09P2	6	1	RDX	N	3	2003	190	UG/L	D
FD08280301DL	A	C09P2	6	1	RDX	N	3	2003	170	UG/L	DP
AC09P24A03DL	A	C09P2	6	1	RDX	N	4	2003	200	UG/L	D
FD03050301	A	C15	7	1	RDX	N	1	2003	0.99	UG/L	U
AC151A03	A	C15	7	1	RDX	N	1	2003	1.3	UG/L	U
AC152A03	A	C15	7	1	RDX	N	2	2003	1	UG/L	U
FD06170301	A	C15	7	1	RDX	N	2	2003	1.3	UG/L	U
AC153A03	A	C15	7	1	RDX	N	3	2003	1	UG/L	U
FD09040301	A	C15	7	1	RDX	N	3	2003	0.65	UG/L	U
AC154A03	A	C15	7	1	RDX	N	4	2003	0.51	UG/L	U
FD12020301	A	C15	7	1	RDX	N	4	2003	0.52	UG/L	U
AC171A03	A	C17	8	1	RDX	N	1	2003	1.3	UG/L	U
FD03110301	A	C17	8	1	RDX	N	1	2003	1	UG/L	U
AC172A03	A	C17	8	1	RDX	N	2	2003	1.7	UG/L	U
FD06190301	A	C17	8	1	RDX	N	2	2003	0.69	UG/L	U
AC173A03	A	C17	8	1	RDX	N	3	2003	1.5	UG/L	U
AC174A03	A	C17	8	1	RDX	N	4	2003	0.56	UG/L	U
AC201A03DL	A	C20	9	1	RDX	N	1	2003	200	UG/L	D
AC202A03DL	A	C20	9	1	RDX	N	2	2003	190	UG/L	D
AC203A03DL	A	C20	9	1	RDX	N	3	2003	180	UG/L	D
AC204A03DL	A	C20	9	1	RDX	N	4	2003	220	UG/L	D
AC252A03	A	C25	10	1	RDX	N	2	2003	1.1	UG/L	U

Table 7.8. Raw Data for RDX. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC253A03	A	C25	10	1	RDX	N	3	2003	0.31	UG/L	U
AC254A03	A	C25	10	1	RDX	N	4	2003	0.53	UG/L	U
AC261A03	A	C26	11	1	RDX	N	1	2003	1.7	UG/L	P
AC262A03	A	C26	11	1	RDX	N	2	2003	0.89	UG/L	
AC263A03	A	C26	11	1	RDX	N	3	2003	1.6	UG/L	
AC264A03	A	C26	11	1	RDX	N	4	2003	1.8	UG/L	
AC272A03	A	C27	12	1	RDX	N	2	2003	0.81	UG/L	U
AC273A03	A	C27	12	1	RDX	N	3	2003	0.3	UG/L	U
AC274A03	A	C27	12	1	RDX	N	4	2003	0.53	UG/L	U
AC301A03	A	C30	13	1	RDX	N	1	2003	1.1	UG/L	U
AC302A03	A	C30	13	1	RDX	N	2	2003	0.77	UG/L	U
AC303A03	A	C30	13	1	RDX	N	3	2003	1.2	UG/L	U
AC304A03	A	C30	13	1	RDX	N	4	2003	0.56	UG/L	U
ASPA1A03	A	SPA	14	1	RDX	N	1	2003	1.6	UG/L	
ASPA2A03	A	SPA	14	1	RDX	N	2	2003	50	UG/L	
ASPA3A03	A	SPA	14	1	RDX	N	3	2003	66	UG/L	
ASPA4A03	A	SPA	14	1	RDX	N	4	2003	2.5	UG/L	
ASPC1A03	A	SPC	15	1	RDX	N	1	2003	1.7	UG/L	
ASPC2A03	A	SPC	15	1	RDX	N	2	2003	3.6	UG/L	
ASPC3A03	A	SPC	15	1	RDX	N	3	2003	6.4	UG/L	P
FD12180301	A	SPC	15	1	RDX	N	4	2003	2.5	UG/L	
ASPC4A03	A	SPC	15	1	RDX	N	4	2003	2.9	UG/L	
DC021A03	D	C02	1	1	RDX	N	1	2003	0.7	UG/L	U
DC023A03	D	C02	1	1	RDX	N	3	2003	0.53	UG/L	U
DC031A03	D	C03	2	1	RDX	N	1	2003	1.2	UG/L	U
FD07140301	D	C03	2	1	RDX	N	3	2003	1	UG/L	U
DC033A03	D	C03	2	1	RDX	N	3	2003	0.74	UG/L	U
DC041A03	D	C04	3	1	RDX	N	1	2003	1.1	UG/L	U
FD07090301	D	C04	3	1	RDX	N	3	2003	0.95	UG/L	U
DC043A03	D	C04	3	1	RDX	N	3	2003	1	UG/L	U
DC051A03	D	C05	4	1	RDX	N	1	2003	0.81	UG/L	U
FD01130301	D	C05	4	1	RDX	N	1	2003	1.1	UG/L	U
DC053A03	D	C05	4	1	RDX	N	3	2003	1.6	UG/L	U
DC061A03	D	C06	5	1	RDX	N	1	2003	0.77	UG/L	U
DC063A03	D	C06	5	1	RDX	N	3	2003	0.46	UG/L	U
DC071A03	D	C07	6	1	RDX	N	1	2003	0.77	UG/L	U
DC073A03	D	C07	6	1	RDX	N	3	2003	1.7	UG/L	U
DC081A03	D	C08	7	1	RDX	N	1	2003	0.84	UG/L	U
DC083A03	D	C08	7	1	RDX	N	3	2003	0.91	UG/L	U
DC03P21A03	D	C03P2	1	2	RDX	N	1	2003	0.88	UG/L	U
FD01090301	D	C03P2	1	2	RDX	N	1	2003	0.97	UG/L	U
DC03P23A03	D	C03P2	1	2	RDX	N	3	2003	0.87	UG/L	U
DC04P21A03	D	C04P2	2	2	RDX	N	1	2003	0.33	UG/L	U
DC04P23A03	D	C04P2	2	2	RDX	N	3	2003	0.35	UG/L	U

Table 7.8. Raw Data for RDX. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
DC06P21A03	D	C06P2	3	2	RDX	N	1	2003	1.2	UG/L	U
DC06P23A03	D	C06P2	3	2	RDX	N	3	2003	1.5	UG/L	U
DC08P23A03	D	C08P2	4	2	RDX	N	3	2003	0.52	UG/L	U
OC081A03	O	C08	1	1	RDX	N	1	2003	0.92	UG/L	U
OC082A03	O	C08	1	1	RDX	N	2	2003	0.73	UG/L	U
OC083A03	O	C08	1	1	RDX	N	3	2003	0.92	UG/L	U
OC084A03	O	C08	1	1	RDX	N	4	2003	0.58	UG/L	U
OC111A03	O	C11	2	1	RDX	N	1	2003	0.73	UG/L	U
OC112A03	O	C11	2	1	RDX	N	2	2003	1.4	UG/L	U
OC113A03	O	C11	2	1	RDX	N	3	2003	0.2	UG/L	U
OC114A03	O	C11	2	1	RDX	N	4	2003	0.53	UG/L	U
OC121A03	O	C12	3	1	RDX	N	1	2003	1.1	UG/L	U
OC122A03	O	C12	3	1	RDX	N	2	2003	1.1	UG/L	U
FD04290301	O	C12	3	1	RDX	N	2	2003	1	UG/L	U
OC123A03	O	C12	3	1	RDX	N	3	2003	0.75	UG/L	U
FD10150301	O	C12	3	1	RDX	N	4	2003	0.55	UG/L	U
OC124A03	O	C12	3	1	RDX	N	4	2003	0.56	UG/L	U
OC131A03	O	C13	4	1	RDX	N	1	2003	0.47	UG/L	U
OC132A03	O	C13	4	1	RDX	N	2	2003	1.4	UG/L	U
OC133A03	O	C13	4	1	RDX	N	3	2003	0.78	UG/L	U
OC134A03	O	C13	4	1	RDX	N	4	2003	0.55	UG/L	U
OC141A03	O	C14	5	1	RDX	N	1	2003	1.3	UG/L	U
OC142A03	O	C14	5	1	RDX	N	2	2003	0.55	UG/L	U
OC143A03	O	C14	5	1	RDX	N	3	2003	0.77	UG/L	U
OC144A03	O	C14	5	1	RDX	N	4	2003	0.56	UG/L	U
FD01290301	O	C15	6	1	RDX	N	1	2003	0.99	UG/L	U
OC151A03	O	C15	6	1	RDX	N	1	2003	0.96	UG/L	U
OC152A03	O	C15	6	1	RDX	N	2	2003	1.2	UG/L	U
FD05070301	O	C15	6	1	RDX	N	2	2003	0.43	UG/L	U
FD08120301	O	C15	6	1	RDX	N	3	2003	0.9	UG/L	U
OC153A03	O	C15	6	1	RDX	N	3	2003	1.2	UG/L	U
FD10300301	O	C15	6	1	RDX	N	4	2003	0.56	UG/L	U
OC154A03	O	C15	6	1	RDX	N	4	2003	0.56	UG/L	U
OC161A03	O	C16	7	1	RDX	N	1	2003	0.64	UG/L	U
FD02130301	O	C16	7	1	RDX	N	1	2003	0.56	UG/L	U
OC162A03	O	C16	7	1	RDX	N	2	2003	0.58	UG/L	U
OC163A03	O	C16	7	1	RDX	N	3	2003	1.1	UG/L	U
OC164A03	O	C16	7	1	RDX	N	4	2003	0.59	UG/L	U
OC181A03	O	C18	8	1	RDX	N	1	2003	0.83	UG/L	U
OC182A03	O	C18	8	1	RDX	N	2	2003	0.84	UG/L	U
OC183A03	O	C18	8	1	RDX	N	3	2003	0.44	UG/L	U
OC184A03	O	C18	8	1	RDX	N	4	2003	0.54	UG/L	U
OC191A03	O	C19	9	1	RDX	N	1	2003	0.9	UG/L	U
OC192A03	O	C19	9	1	RDX	N	2	2003	0.82	UG/L	U

Table 7.8. Raw Data for RDX. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC193A03	O	C19	9	1	RDX	N	3	2003	0.25	UG/L	U
FD08200301	O	C19	9	1	RDX	N	3	2003	0.51	UG/L	U
OC194A03	O	C19	9	1	RDX	N	4	2003	0.49	UG/L	U
OC11P21A03	O	C11P2	1	2	RDX	N	1	2003	1.2	UG/L	U
OC11P22A03	O	C11P2	1	2	RDX	N	2	2003	1.6	UG/L	U
OC11P23A03	O	C11P2	1	2	RDX	N	3	2003	0.96	UG/L	U
OC11P24A03	O	C11P2	1	2	RDX	N	4	2003	0.58	UG/L	U
OC13P21A03	O	C13P2	2	2	RDX	N	1	2003	0.31	UG/L	U
OC13P22A03	O	C13P2	2	2	RDX	N	2	2003	1.6	UG/L	U
OC13P23A03	O	C13P2	2	2	RDX	N	3	2003	0.31	UG/L	U
OC13P24A03	O	C13P2	2	2	RDX	N	4	2003	0.56	UG/L	U
OC14P21A03	O	C14P2	3	2	RDX	N	1	2003	0.87	UG/L	U
OC14P22A03	O	C14P2	3	2	RDX	N	2	2003	0.77	UG/L	U
OC14P23A03	O	C14P2	3	2	RDX	N	3	2003	0.75	UG/L	U
OC14P24A03	O	C14P2	3	2	RDX	N	4	2003	0.5	UG/L	U
OC14P24A03	O	C14P2	3	2	RDX	N	4	2003	0.56	UG/L	U
OC18P21A03	O	C18P2	4	2	RDX	N	1	2003	0.69	UG/L	U
OC18P22A03	O	C18P2	4	2	RDX	N	2	2003	1.6	UG/L	U
OC18P23A03	O	C18P2	4	2	RDX	N	3	2003	1.1	UG/L	U
OC18P24A03	O	C18P2	4	2	RDX	N	4	2003	0.56	UG/L	U
OC19P21A03	O	C19P2	5	2	RDX	N	1	2003	0.87	UG/L	U
OC19P22A03	O	C19P2	5	2	RDX	N	2	2003	0.81	UG/L	U
OC19P23A03	O	C19P2	5	2	RDX	N	3	2003	0.52	UG/L	U
OC19P24A03	O	C19P2	5	2	RDX	N	4	2003	0.48	UG/L	U
OC19P24A03	O	C19P2	5	2	RDX	N	4	2003	0.57	UG/L	U

Table 7.9. Raw Data for Aluminum.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
DC021A03	D	C02	1	1	ALUMINUM	N	1	2003	55.6	UG/L	U
DC023A03	D	C02	1	1	ALUMINUM	N	3	2003	222	UG/L	U
DC031A03	D	C03	2	1	ALUMINUM	N	1	2003	55.6	UG/L	U
DC033A03	D	C03	2	1	ALUMINUM	N	3	2003	222	UG/L	U
FD07140301	D	C03	2	1	ALUMINUM	N	3	2003	222	UG/L	U
DC041A03	D	C04	3	1	ALUMINUM	N	1	2003	56	UG/L	
DC043A03	D	C04	3	1	ALUMINUM	N	3	2003	222	UG/L	U
FD07090301	D	C04	3	1	ALUMINUM	N	3	2003	222	UG/L	U
DC051A03	D	C05	4	1	ALUMINUM	N	1	2003	60.5	UG/L	
FD01130301	D	C05	4	1	ALUMINUM	N	1	2003	55.6	UG/L	U
DC053A03	D	C05	4	1	ALUMINUM	N	3	2003	222	UG/L	U
DC061A03	D	C06	5	1	ALUMINUM	N	1	2003	55.6	UG/L	U
DC063A03	D	C06	5	1	ALUMINUM	N	3	2003	222	UG/L	U
DC071A03	D	C07	6	1	ALUMINUM	N	1	2003	55.6	UG/L	U
DC073A03	D	C07	6	1	ALUMINUM	N	3	2003	222	UG/L	U
DC081A03	D	C08	7	1	ALUMINUM	N	1	2003	15700	UG/L	
DC083A03	D	C08	7	1	ALUMINUM	N	3	2003	490	UG/L	
DC021A03F	D	C02	1	1	ALUMINUM	Y	1	2003	50	UG/L	U
DC023A03F	D	C02	1	1	ALUMINUM	Y	3	2003	200	UG/L	U
DC031A03F	D	C03	2	1	ALUMINUM	Y	1	2003	50	UG/L	U
DC033A03F	D	C03	2	1	ALUMINUM	Y	3	2003	200	UG/L	U
FD07140301F	D	C03	2	1	ALUMINUM	Y	3	2003	200	UG/L	U
DC041A03F	D	C04	3	1	ALUMINUM	Y	1	2003	50	UG/L	U
DC043A03F	D	C04	3	1	ALUMINUM	Y	3	2003	200	UG/L	U
FD07090301F	D	C04	3	1	ALUMINUM	Y	3	2003	200	UG/L	U
DC051A03F	D	C05	4	1	ALUMINUM	Y	1	2003	50	UG/L	U
FD01130301F	D	C05	4	1	ALUMINUM	Y	1	2003	50	UG/L	U
DC053A03F	D	C05	4	1	ALUMINUM	Y	3	2003	200	UG/L	U
DC061A03F	D	C06	5	1	ALUMINUM	Y	1	2003	50	UG/L	U
DC063A03F	D	C06	5	1	ALUMINUM	Y	3	2003	200	UG/L	U
DC071A03F	D	C07	6	1	ALUMINUM	Y	1	2003	50	UG/L	U
DC073A03F	D	C07	6	1	ALUMINUM	Y	3	2003	200	UG/L	U
DC081A03F	D	C08	7	1	ALUMINUM	Y	1	2003	50	UG/L	U
DC083A03F	D	C08	7	1	ALUMINUM	Y	3	2003	200	UG/L	U
DC03P21A03	D	C03P2	1	2	ALUMINUM	N	1	2003	20900	UG/L	
FD01090301	D	C03P2	1	2	ALUMINUM	N	1	2003	28700	UG/L	
DC03P23A03	D	C03P2	1	2	ALUMINUM	N	3	2003	222	UG/L	U
DC04P21A03	D	C04P2	2	2	ALUMINUM	N	1	2003	55.6	UG/L	U
DC04P23A03	D	C04P2	2	2	ALUMINUM	N	3	2003	222	UG/L	U
DC06P21A03	D	C06P2	3	2	ALUMINUM	N	1	2003	55.6	UG/L	U
DC06P23A03	D	C06P2	3	2	ALUMINUM	N	3	2003	222	UG/L	U
DC08P23A03	D	C08P2	4	2	ALUMINUM	N	3	2003	237	UG/L	

Table 7.9. Raw Data for Aluminum. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
DC03P21A03F	D	C03P2	1	2	ALUMINUM	Y	1	2003	50	UG/L	U
FD01090301F	D	C03P2	1	2	ALUMINUM	Y	1	2003	50	UG/L	U
DC03P23A03F	D	C03P2	1	2	ALUMINUM	Y	3	2003	200	UG/L	U
DC04P21A03F	D	C04P2	2	2	ALUMINUM	Y	1	2003	50	UG/L	U
DC04P23A03F	D	C04P2	2	2	ALUMINUM	Y	3	2003	200	UG/L	U
DC06P21A03F	D	C06P2	3	2	ALUMINUM	Y	1	2003	50	UG/L	U
DC06P23A03F	D	C06P2	3	2	ALUMINUM	Y	3	2003	200	UG/L	U
DC08P23A03F	D	C08P2	4	2	ALUMINUM	Y	3	2003	241	UG/L	

Table 7.10. Raw Data for Antimony.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03F	A	C02P2	1	1	ANTIMONY	Y	1	2003	1	UG/L	U
AC02P22A03F	A	C02P2	1	1	ANTIMONY	Y	2	2003	1	UG/L	U
AC02P23A03F	A	C02P2	1	1	ANTIMONY	Y	3	2003	1	UG/L	U
AC02P24A03F	A	C02P2	1	1	ANTIMONY	Y	4	2003	1	UG/L	U
AC031A03F	A	C03	2	1	ANTIMONY	Y	1	2003	1	UG/L	U
AC032A03F	A	C03	2	1	ANTIMONY	Y	2	2003	1	UG/L	U
AC033A03F	A	C03	2	1	ANTIMONY	Y	3	2003	1	UG/L	U
AC034A03F	A	C03	2	1	ANTIMONY	Y	4	2003	1	UG/L	U
AC041A03F	A	C04	3	1	ANTIMONY	Y	1	2003	1	UG/L	U
AC042A03F	A	C04	3	1	ANTIMONY	Y	2	2003	1	UG/L	U
AC043A03F	A	C04	3	1	ANTIMONY	Y	3	2003	1	UG/L	U
AC044A03F	A	C04	3	1	ANTIMONY	Y	4	2003	1	UG/L	U
AC071A03F	A	C07	4	1	ANTIMONY	Y	1	2003	1	UG/L	U
AC072A03F	A	C07	4	1	ANTIMONY	Y	2	2003	1	UG/L	U
AC073A03F	A	C07	4	1	ANTIMONY	Y	3	2003	1	UG/L	U
AC074A03F	A	C07	4	1	ANTIMONY	Y	4	2003	1	UG/L	U
AC08P21A03F	A	C08P2	5	1	ANTIMONY	Y	1	2003	1	UG/L	U
AC08P22A03F	A	C08P2	5	1	ANTIMONY	Y	2	2003	1	UG/L	U
AC08P23A03F	A	C08P2	5	1	ANTIMONY	Y	3	2003	1	UG/L	U
AC08P24A03F	A	C08P2	5	1	ANTIMONY	Y	4	2003	1	UG/L	U
AC09P21A03F	A	C09P2	6	1	ANTIMONY	Y	1	2003	1	UG/L	U
AC09P22A03F	A	C09P2	6	1	ANTIMONY	Y	2	2003	1	UG/L	U
FD08280301F	A	C09P2	6	1	ANTIMONY	Y	3	2003	1	UG/L	U
AC09P23A03F	A	C09P2	6	1	ANTIMONY	Y	3	2003	1	UG/L	U
AC09P24A03F	A	C09P2	6	1	ANTIMONY	Y	4	2003	1	UG/L	U
AC151A03F	A	C15	7	1	ANTIMONY	Y	1	2003	1	UG/L	U
FD03050301F	A	C15	7	1	ANTIMONY	Y	1	2003	1	UG/L	U
FD06170301F	A	C15	7	1	ANTIMONY	Y	2	2003	1	UG/L	U
AC152A03F	A	C15	7	1	ANTIMONY	Y	2	2003	1	UG/L	U
AC153A03F	A	C15	7	1	ANTIMONY	Y	3	2003	1	UG/L	U
FD09040301F	A	C15	7	1	ANTIMONY	Y	3	2003	1	UG/L	U
FD12020301F	A	C15	7	1	ANTIMONY	Y	4	2003	1	UG/L	U

Table 7.10. Raw Data for Antimony. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC154A03F	A	C15	7	1	ANTIMONY	Y	4	2003	1	UG/L	U
FD03110301F	A	C17	8	1	ANTIMONY	Y	1	2003	1	UG/L	U
AC171A03F	A	C17	8	1	ANTIMONY	Y	1	2003	1	UG/L	U
FD06190301F	A	C17	8	1	ANTIMONY	Y	2	2003	1	UG/L	U
AC172A03F	A	C17	8	1	ANTIMONY	Y	2	2003	1	UG/L	U
AC173A03F	A	C17	8	1	ANTIMONY	Y	3	2003	1	UG/L	U
AC174A03F	A	C17	8	1	ANTIMONY	Y	4	2003	1	UG/L	U
AC201A03F	A	C20	9	1	ANTIMONY	Y	1	2003	1	UG/L	U
AC202A03F	A	C20	9	1	ANTIMONY	Y	2	2003	1	UG/L	U
AC203A03F	A	C20	9	1	ANTIMONY	Y	3	2003	1	UG/L	U
AC204A03F	A	C20	9	1	ANTIMONY	Y	4	2003	1	UG/L	U
AC252A03F	A	C25	10	1	ANTIMONY	Y	2	2003	1	UG/L	U
AC253A03F	A	C25	10	1	ANTIMONY	Y	3	2003	1.3	UG/L	
AC254A03F	A	C25	10	1	ANTIMONY	Y	4	2003	1	UG/L	U
AC261A03F	A	C26	11	1	ANTIMONY	Y	1	2003	1	UG/L	U
AC262A03F	A	C26	11	1	ANTIMONY	Y	2	2003	1	UG/L	U
AC263A03F	A	C26	11	1	ANTIMONY	Y	3	2003	1	UG/L	U
AC264A03F	A	C26	11	1	ANTIMONY	Y	4	2003	1	UG/L	U
AC272A03F	A	C27	12	1	ANTIMONY	Y	2	2003	1	UG/L	U
AC273A03F	A	C27	12	1	ANTIMONY	Y	3	2003	1	UG/L	U
AC274A03F	A	C27	12	1	ANTIMONY	Y	4	2003	1	UG/L	U
AC301A03F	A	C30	13	1	ANTIMONY	Y	1	2003	1	UG/L	U
AC302A03F	A	C30	13	1	ANTIMONY	Y	2	2003	1	UG/L	U
AC303A03F	A	C30	13	1	ANTIMONY	Y	3	2003	1	UG/L	U
AC304A03F	A	C30	13	1	ANTIMONY	Y	4	2003	1	UG/L	U
ASPA1A03F	A	SPA	14	1	ANTIMONY	Y	1	2003	1	UG/L	U
ASPA2A03F	A	SPA	14	1	ANTIMONY	Y	2	2003	1	UG/L	U
ASPA3A03F	A	SPA	14	1	ANTIMONY	Y	3	2003	1.6	UG/L	
ASPA4A03F	A	SPA	14	1	ANTIMONY	Y	4	2003	1	UG/L	U
ASPC1A03F	A	SPC	15	1	ANTIMONY	Y	1	2003	1	UG/L	U
ASPC2A03F	A	SPC	15	1	ANTIMONY	Y	2	2003	1	UG/L	U
ASPC3A03F	A	SPC	15	1	ANTIMONY	Y	3	2003	1	UG/L	U
FD12180301F	A	SPC	15	1	ANTIMONY	Y	4	2003	1	UG/L	U
ASPC4A03F	A	SPC	15	1	ANTIMONY	Y	4	2003	1	UG/L	U
AC02P21A03	A	C02P2	1	1	ANTIMONY	N	1	2003	1.1	UG/L	U
AC02P22A03	A	C02P2	1	1	ANTIMONY	N	2	2003	1.1	UG/L	U
AC02P23A03	A	C02P2	1	1	ANTIMONY	N	3	2003	1.1	UG/L	U
AC02P24A03	A	C02P2	1	1	ANTIMONY	N	4	2003	1.1	UG/L	U
AC031A03	A	C03	2	1	ANTIMONY	N	1	2003	1.1	UG/L	U
AC032A03	A	C03	2	1	ANTIMONY	N	2	2003	1.1	UG/L	U
AC033A03	A	C03	2	1	ANTIMONY	N	3	2003	1.1	UG/L	U
AC034A03	A	C03	2	1	ANTIMONY	N	4	2003	1.1	UG/L	U
AC041A03	A	C04	3	1	ANTIMONY	N	1	2003	1.1	UG/L	U
AC042A03	A	C04	3	1	ANTIMONY	N	2	2003	1.1	UG/L	U

Table 7.10. Raw Data for Antimony. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC043A03	A	C04	3	1	ANTIMONY	N	3	2003	1.1	UG/L	U
AC044A03	A	C04	3	1	ANTIMONY	N	4	2003	1.1	UG/L	U
AC071A03	A	C07	4	1	ANTIMONY	N	1	2003	1.1	UG/L	U
AC072A03	A	C07	4	1	ANTIMONY	N	2	2003	1.1	UG/L	U
AC073A03	A	C07	4	1	ANTIMONY	N	3	2003	1.1	UG/L	U
AC074A03	A	C07	4	1	ANTIMONY	N	4	2003	1.1	UG/L	U
AC08P21A03	A	C08P2	5	1	ANTIMONY	N	1	2003	1.1	UG/L	U
AC08P22A03	A	C08P2	5	1	ANTIMONY	N	2	2003	1.1	UG/L	U
AC08P23A03	A	C08P2	5	1	ANTIMONY	N	3	2003	1.1	UG/L	U
AC08P24A03	A	C08P2	5	1	ANTIMONY	N	4	2003	1.1	UG/L	U
AC09P21A03	A	C09P2	6	1	ANTIMONY	N	1	2003	1.1	UG/L	U
AC09P22A03	A	C09P2	6	1	ANTIMONY	N	2	2003	1.1	UG/L	U
FD08280301	A	C09P2	6	1	ANTIMONY	N	3	2003	1.1	UG/L	U
AC09P23A03	A	C09P2	6	1	ANTIMONY	N	3	2003	1.1	UG/L	U
AC09P24A03	A	C09P2	6	1	ANTIMONY	N	4	2003	1.1	UG/L	U
AC151A03	A	C15	7	1	ANTIMONY	N	1	2003	1.1	UG/L	U
FD03050301	A	C15	7	1	ANTIMONY	N	1	2003	1.1	UG/L	U
FD06170301	A	C15	7	1	ANTIMONY	N	2	2003	1.1	UG/L	U
AC152A03	A	C15	7	1	ANTIMONY	N	2	2003	1.1	UG/L	U
AC153A03	A	C15	7	1	ANTIMONY	N	3	2003	1.1	UG/L	U
FD09040301	A	C15	7	1	ANTIMONY	N	3	2003	1.1	UG/L	U
FD12020301	A	C15	7	1	ANTIMONY	N	4	2003	1.1	UG/L	U
AC154A03	A	C15	7	1	ANTIMONY	N	4	2003	1.1	UG/L	U
AC171A03	A	C17	8	1	ANTIMONY	N	1	2003	1.1	UG/L	U
FD03110301	A	C17	8	1	ANTIMONY	N	1	2003	1.1	UG/L	U
FD06190301	A	C17	8	1	ANTIMONY	N	2	2003	1.1	UG/L	U
AC172A03	A	C17	8	1	ANTIMONY	N	2	2003	1.1	UG/L	U
AC173A03	A	C17	8	1	ANTIMONY	N	3	2003	1.1	UG/L	U
AC174A03	A	C17	8	1	ANTIMONY	N	4	2003	1.1	UG/L	U
AC201A03	A	C20	9	1	ANTIMONY	N	1	2003	1.1	UG/L	U
AC202A03	A	C20	9	1	ANTIMONY	N	2	2003	1.1	UG/L	U
AC203A03	A	C20	9	1	ANTIMONY	N	3	2003	1.1	UG/L	U
AC204A03	A	C20	9	1	ANTIMONY	N	4	2003	1.1	UG/L	U
AC252A03	A	C25	10	1	ANTIMONY	N	2	2003	1.1	UG/L	U
AC253A03	A	C25	10	1	ANTIMONY	N	3	2003	1.1	UG/L	U
AC254A03	A	C25	10	1	ANTIMONY	N	4	2003	1.1	UG/L	U
AC261A03	A	C26	11	1	ANTIMONY	N	1	2003	1.1	UG/L	U
AC262A03	A	C26	11	1	ANTIMONY	N	2	2003	1.1	UG/L	U
AC263A03	A	C26	11	1	ANTIMONY	N	3	2003	1.1	UG/L	U
AC264A03	A	C26	11	1	ANTIMONY	N	4	2003	1.1	UG/L	U
AC272A03	A	C27	12	1	ANTIMONY	N	2	2003	1.1	UG/L	U
AC273A03	A	C27	12	1	ANTIMONY	N	3	2003	1.1	UG/L	U
AC274A03	A	C27	12	1	ANTIMONY	N	4	2003	1.1	UG/L	U
AC301A03	A	C30	13	1	ANTIMONY	N	1	2003	1.1	UG/L	U

Table 7.10. Raw Data for Antimony. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC302A03	A	C30	13	1	ANTIMONY	N	2	2003	1.1	UG/L	U
AC303A03	A	C30	13	1	ANTIMONY	N	3	2003	1.1	UG/L	U
AC304A03	A	C30	13	1	ANTIMONY	N	4	2003	1.1	UG/L	U
ASPA1A03	A	SPA	14	1	ANTIMONY	N	1	2003	1.1	UG/L	U
ASPA2A03	A	SPA	14	1	ANTIMONY	N	2	2003	1.1	UG/L	U
ASPA3A03	A	SPA	14	1	ANTIMONY	N	3	2003	1.1	UG/L	U
ASPA4A03	A	SPA	14	1	ANTIMONY	N	4	2003	1.1	UG/L	U
ASPC1A03	A	SPC	15	1	ANTIMONY	N	1	2003	1.1	UG/L	U
ASPC2A03	A	SPC	15	1	ANTIMONY	N	2	2003	1.1	UG/L	U
ASPC3A03	A	SPC	15	1	ANTIMONY	N	3	2003	1.1	UG/L	U
FD12180301	A	SPC	15	1	ANTIMONY	N	4	2003	1.1	UG/L	U
ASPC4A03	A	SPC	15	1	ANTIMONY	N	4	2003	1.1	UG/L	U
DC021A03F	D	C02	1	1	ANTIMONY	Y	1	2003	3.1	UG/L	
DC023A03F	D	C02	1	1	ANTIMONY	Y	3	2003	1	UG/L	U
DC031A03F	D	C03	2	1	ANTIMONY	Y	1	2003	2.9	UG/L	
DC033A03F	D	C03	2	1	ANTIMONY	Y	3	2003	2.6	UG/L	
FD07140301F	D	C03	2	1	ANTIMONY	Y	3	2003	1	UG/L	U
DC041A03F	D	C04	3	1	ANTIMONY	Y	1	2003	3	UG/L	
DC043A03F	D	C04	3	1	ANTIMONY	Y	3	2003	2	UG/L	
FD07090301F	D	C04	3	1	ANTIMONY	Y	3	2003	1	UG/L	U
DC051A03F	D	C05	4	1	ANTIMONY	Y	1	2003	3.1	UG/L	
FD01130301F	D	C05	4	1	ANTIMONY	Y	1	2003	1	UG/L	U
DC053A03F	D	C05	4	1	ANTIMONY	Y	3	2003	2.5	UG/L	
DC061A03F	D	C06	5	1	ANTIMONY	Y	1	2003	2.7	UG/L	
DC063A03F	D	C06	5	1	ANTIMONY	Y	3	2003	2.7	UG/L	
DC071A03F	D	C07	6	1	ANTIMONY	Y	1	2003	2.8	UG/L	
DC073A03F	D	C07	6	1	ANTIMONY	Y	3	2003	2.7	UG/L	
DC081A03F	D	C08	7	1	ANTIMONY	Y	1	2003	3.3	UG/L	
DC083A03F	D	C08	7	1	ANTIMONY	Y	3	2003	3	UG/L	
DC021A03	D	C02	1	1	ANTIMONY	N	1	2003	1.1	UG/L	U
DC023A03	D	C02	1	1	ANTIMONY	N	3	2003	1.1	UG/L	U
DC031A03	D	C03	2	1	ANTIMONY	N	1	2003	1.1	UG/L	U
DC033A03	D	C03	2	1	ANTIMONY	N	3	2003	1.1	UG/L	U
FD07140301	D	C03	2	1	ANTIMONY	N	3	2003	1.1	UG/L	U
DC041A03	D	C04	3	1	ANTIMONY	N	1	2003	1.1	UG/L	U
DC043A03	D	C04	3	1	ANTIMONY	N	3	2003	1.1	UG/L	U
FD07090301	D	C04	3	1	ANTIMONY	N	3	2003	1.1	UG/L	U
FD01130301	D	C05	4	1	ANTIMONY	N	1	2003	1.1	UG/L	U
DC051A03	D	C05	4	1	ANTIMONY	N	1	2003	1.1	UG/L	U
DC053A03	D	C05	4	1	ANTIMONY	N	3	2003	1.1	UG/L	U
DC061A03	D	C06	5	1	ANTIMONY	N	1	2003	1.1	UG/L	U
DC063A03	D	C06	5	1	ANTIMONY	N	3	2003	1.1	UG/L	U
DC071A03	D	C07	6	1	ANTIMONY	N	1	2003	1.1	UG/L	U
DC073A03	D	C07	6	1	ANTIMONY	N	3	2003	1.1	UG/L	U

Table 7.10. Raw Data for Antimony. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
DC081A03	D	C08	7	1	ANTIMONY	N	1	2003	1.1	UG/L	U
DC083A03	D	C08	7	1	ANTIMONY	N	3	2003	1.1	UG/L	U
DC03P21A03F	D	C03P2	1	2	ANTIMONY	Y	1	2003	2.9	UG/L	
FD01090301F	D	C03P2	1	2	ANTIMONY	Y	1	2003	1	UG/L	U
DC03P23A03F	D	C03P2	1	2	ANTIMONY	Y	3	2003	2.2	UG/L	
DC04P21A03F	D	C04P2	2	2	ANTIMONY	Y	1	2003	3	UG/L	
DC04P23A03F	D	C04P2	2	2	ANTIMONY	Y	3	2003	2.6	UG/L	
DC06P21A03F	D	C06P2	3	2	ANTIMONY	Y	1	2003	2.1	UG/L	
DC06P23A03F	D	C06P2	3	2	ANTIMONY	Y	3	2003	1.6	UG/L	
DC08P23A03F	D	C08P2	4	2	ANTIMONY	Y	3	2003	3.1	UG/L	
DC03P21A03	D	C03P2	1	2	ANTIMONY	N	1	2003	1.1	UG/L	U
FD01090301	D	C03P2	1	2	ANTIMONY	N	1	2003	1.1	UG/L	U
DC03P23A03	D	C03P2	1	2	ANTIMONY	N	3	2003	1.1	UG/L	U
DC04P21A03	D	C04P2	2	2	ANTIMONY	N	1	2003	1.1	UG/L	U
DC04P23A03	D	C04P2	2	2	ANTIMONY	N	3	2003	1.1	UG/L	U
DC06P21A03	D	C06P2	3	2	ANTIMONY	N	1	2003	1.1	UG/L	U
DC06P23A03	D	C06P2	3	2	ANTIMONY	N	3	2003	1.1	UG/L	U
DC08P23A03	D	C08P2	4	2	ANTIMONY	N	3	2003	1.1	UG/L	U
OC081A03F	O	C08	1	1	ANTIMONY	Y	1	2003	3.4	UG/L	
OC082A03F	O	C08	1	1	ANTIMONY	Y	2	2003	3.1	UG/L	
OC083A03F	O	C08	1	1	ANTIMONY	Y	3	2003	1	UG/L	UJ
OC084A03F	O	C08	1	1	ANTIMONY	Y	4	2003	1	UG/L	U
OC111A03F	O	C11	2	1	ANTIMONY	Y	1	2003	3	UG/L	
OC112A03F	O	C11	2	1	ANTIMONY	Y	2	2003	2.8	UG/L	
OC113A03F	O	C11	2	1	ANTIMONY	Y	3	2003	3.5	UG/L	J
OC114A03F	O	C11	2	1	ANTIMONY	Y	4	2003	1	UG/L	U
OC121A03F	O	C12	3	1	ANTIMONY	Y	1	2003	2.7	UG/L	
OC122A03F	O	C12	3	1	ANTIMONY	Y	2	2003	2.3	UG/L	
FD04290301F	O	C12	3	1	ANTIMONY	Y	2	2003	1	UG/L	U
OC123A03F	O	C12	3	1	ANTIMONY	Y	3	2003	1	UG/L	UJ
OC124A03F	O	C12	3	1	ANTIMONY	Y	4	2003	1	UG/L	U
FD10150301F	O	C12	3	1	ANTIMONY	Y	4	2003	1	UG/L	U
OC131A03F	O	C13	4	1	ANTIMONY	Y	1	2003	2.5	UG/L	
OC132A03F	O	C13	4	1	ANTIMONY	Y	2	2003	2.3	UG/L	
OC133A03F	O	C13	4	1	ANTIMONY	Y	3	2003	1.2	UG/L	J
OC134A03F	O	C13	4	1	ANTIMONY	Y	4	2003	1	UG/L	U
OC141A03F	O	C14	5	1	ANTIMONY	Y	1	2003	2.6	UG/L	
OC142A03F	O	C14	5	1	ANTIMONY	Y	2	2003	2.4	UG/L	
OC143A03F	O	C14	5	1	ANTIMONY	Y	3	2003	1	UG/L	UJ
OC144A03F	O	C14	5	1	ANTIMONY	Y	4	2003	1	UG/L	U
OC151A03F	O	C15	6	1	ANTIMONY	Y	1	2003	2.9	UG/L	
OC152A03F	O	C15	6	1	ANTIMONY	Y	2	2003	2.3	UG/L	
FD05070301F	O	C15	6	1	ANTIMONY	Y	2	2003	1	UG/L	U
FD08120301F	O	C15	6	1	ANTIMONY	Y	3	2003	1	UG/L	UJ

Table 7.10. Raw Data for Antimony. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC153A03F	O	C15	6	1	ANTIMONY	Y	3	2003	2.9	UG/L	J
FD10300301F	O	C15	6	1	ANTIMONY	Y	4	2003	1	UG/L	U
OC154A03F	O	C15	6	1	ANTIMONY	Y	4	2003	1	UG/L	U
OC161A03F	O	C16	7	1	ANTIMONY	Y	1	2003	3	UG/L	
FD02130301F	O	C16	7	1	ANTIMONY	Y	1	2003	2.6	UG/L	
FD01290301F	O	C16	7	1	ANTIMONY	Y	1	2003	1	UG/L	U
OC162A03F	O	C16	7	1	ANTIMONY	Y	2	2003	2.5	UG/L	
OC163A03F	O	C16	7	1	ANTIMONY	Y	3	2003	1.7	UG/L	J
OC164A03F	O	C16	7	1	ANTIMONY	Y	4	2003	1	UG/L	U
OC181A03F	O	C18	8	1	ANTIMONY	Y	1	2003	2.8	UG/L	
OC182A03F	O	C18	8	1	ANTIMONY	Y	2	2003	3	UG/L	
OC183A03F	O	C18	8	1	ANTIMONY	Y	3	2003	3.1	UG/L	J
OC184A03F	O	C18	8	1	ANTIMONY	Y	4	2003	1	UG/L	U
OC191A03F	O	C19	9	1	ANTIMONY	Y	1	2003	1	UG/L	U
OC192A03F	O	C19	9	1	ANTIMONY	Y	2	2003	2.7	UG/L	
FD08200301F	O	C19	9	1	ANTIMONY	Y	3	2003	1	UG/L	UJ
OC193A03F	O	C19	9	1	ANTIMONY	Y	3	2003	1	UG/L	J
OC194A03F	O	C19	9	1	ANTIMONY	Y	4	2003	1	UG/L	U
OC081A03	O	C08	1	1	ANTIMONY	N	1	2003	1.1	UG/L	U
OC082A03	O	C08	1	1	ANTIMONY	N	2	2003	1.1	UG/L	U
OC083A03	O	C08	1	1	ANTIMONY	N	3	2003	1.1	UG/L	U
OC084A03	O	C08	1	1	ANTIMONY	N	4	2003	1.1	UG/L	U
OC111A03	O	C11	2	1	ANTIMONY	N	1	2003	1.1	UG/L	U
OC112A03	O	C11	2	1	ANTIMONY	N	2	2003	1.1	UG/L	U
OC113A03	O	C11	2	1	ANTIMONY	N	3	2003	1.1	UG/L	U
OC114A03	O	C11	2	1	ANTIMONY	N	4	2003	1.1	UG/L	U
OC121A03	O	C12	3	1	ANTIMONY	N	1	2003	1.1	UG/L	U
FD04290301	O	C12	3	1	ANTIMONY	N	2	2003	1.1	UG/L	U
OC122A03	O	C12	3	1	ANTIMONY	N	2	2003	1.1	UG/L	U
OC123A03	O	C12	3	1	ANTIMONY	N	3	2003	1.1	UG/L	U
OC124A03	O	C12	3	1	ANTIMONY	N	4	2003	1.1	UG/L	U
FD10150301	O	C12	3	1	ANTIMONY	N	4	2003	1.1	UG/L	U
OC131A03	O	C13	4	1	ANTIMONY	N	1	2003	1.1	UG/L	U
OC132A03	O	C13	4	1	ANTIMONY	N	2	2003	1.1	UG/L	U
OC133A03	O	C13	4	1	ANTIMONY	N	3	2003	1.1	UG/L	U
OC134A03	O	C13	4	1	ANTIMONY	N	4	2003	1.1	UG/L	U
OC141A03	O	C14	5	1	ANTIMONY	N	1	2003	1.1	UG/L	U
OC142A03	O	C14	5	1	ANTIMONY	N	2	2003	1.1	UG/L	U
OC143A03	O	C14	5	1	ANTIMONY	N	3	2003	1.1	UG/L	U
OC144A03	O	C14	5	1	ANTIMONY	N	4	2003	1.1	UG/L	U
OC151A03	O	C15	6	1	ANTIMONY	N	1	2003	1.1	UG/L	U
FD01290301	O	C15	6	1	ANTIMONY	N	1	2003	1.1	UG/L	U
OC152A03	O	C15	6	1	ANTIMONY	N	2	2003	1.1	UG/L	U
FD05070301	O	C15	6	1	ANTIMONY	N	2	2003	1.1	UG/L	U

Table 7.10. Raw Data for Antimony. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC153A03	O	C15	6	1	ANTIMONY	N	3	2003	1.1	UG/L	U
FD08120301	O	C15	6	1	ANTIMONY	N	3	2003	1.1	UG/L	U
OC154A03	O	C15	6	1	ANTIMONY	N	4	2003	1.1	UG/L	U
FD10300301	O	C15	6	1	ANTIMONY	N	4	2003	1.1	UG/L	U
FD02130301	O	C16	7	1	ANTIMONY	N	1	2003	1.1	UG/L	U
OC161A03	O	C16	7	1	ANTIMONY	N	1	2003	1.1	UG/L	U
OC162A03	O	C16	7	1	ANTIMONY	N	2	2003	1.1	UG/L	U
OC163A03	O	C16	7	1	ANTIMONY	N	3	2003	1.1	UG/L	U
OC164A03	O	C16	7	1	ANTIMONY	N	4	2003	1.1	UG/L	U
OC181A03	O	C18	8	1	ANTIMONY	N	1	2003	1.1	UG/L	U
OC182A03	O	C18	8	1	ANTIMONY	N	2	2003	1.1	UG/L	U
OC183A03	O	C18	8	1	ANTIMONY	N	3	2003	1.1	UG/L	U
OC184A03	O	C18	8	1	ANTIMONY	N	4	2003	1.1	UG/L	U
OC191A03	O	C19	9	1	ANTIMONY	N	1	2003	1.1	UG/L	U
OC192A03	O	C19	9	1	ANTIMONY	N	2	2003	1.1	UG/L	U
OC193A03	O	C19	9	1	ANTIMONY	N	3	2003	1.1	UG/L	U
FD08200301	O	C19	9	1	ANTIMONY	N	3	2003	1.1	UG/L	U
OC194A03	O	C19	9	1	ANTIMONY	N	4	2003	1.1	UG/L	U
OC11P21A03F	O	C11P2	1	2	ANTIMONY	Y	1	2003	3	UG/L	
OC11P22A03F	O	C11P2	1	2	ANTIMONY	Y	2	2003	2.7	UG/L	
OC11P23A03F	O	C11P2	1	2	ANTIMONY	Y	3	2003	3.2	UG/L	J
OC11P24A03F	O	C11P2	1	2	ANTIMONY	Y	4	2003	1	UG/L	U
OC13P21A03F	O	C13P2	2	2	ANTIMONY	Y	1	2003	2.3	UG/L	
OC13P22A03F	O	C13P2	2	2	ANTIMONY	Y	2	2003	2.4	UG/L	
OC13P23A03F	O	C13P2	2	2	ANTIMONY	Y	3	2003	1	UG/L	UJ
OC13P24A03F	O	C13P2	2	2	ANTIMONY	Y	4	2003	1	UG/L	U
OC14P21A03F	O	C14P2	3	2	ANTIMONY	Y	1	2003	2.6	UG/L	
OC14P22A03F	O	C14P2	3	2	ANTIMONY	Y	2	2003	2.3	UG/L	
OC14P23A03F	O	C14P2	3	2	ANTIMONY	Y	3	2003	1.2	UG/L	J
OC14P24A03F	O	C14P2	3	2	ANTIMONY	Y	4	2003	1	UG/L	U
OC18P21A03F	O	C18P2	4	2	ANTIMONY	Y	1	2003	2.8	UG/L	
OC18P22A03F	O	C18P2	4	2	ANTIMONY	Y	2	2003	2.2	UG/L	
OC18P23A03F	O	C18P2	4	2	ANTIMONY	Y	3	2003	2.3	UG/L	J
OC18P24A03F	O	C18P2	4	2	ANTIMONY	Y	4	2003	1	UG/L	U
OC19P21A03F	O	C19P2	5	2	ANTIMONY	Y	1	2003	2.6	UG/L	
OC19P22A03F	O	C19P2	5	2	ANTIMONY	Y	2	2003	2.2	UG/L	
OC19P23A03F	O	C19P2	5	2	ANTIMONY	Y	3	2003	1.3	UG/L	J
OC19P24A03F	O	C19P2	5	2	ANTIMONY	Y	4	2003	2.1	UG/L	
OC11P21A03	O	C11P2	1	2	ANTIMONY	N	1	2003	1.1	UG/L	U
OC11P22A03	O	C11P2	1	2	ANTIMONY	N	2	2003	1.1	UG/L	U
OC11P23A03	O	C11P2	1	2	ANTIMONY	N	3	2003	1.1	UG/L	U
OC11P24A03	O	C11P2	1	2	ANTIMONY	N	4	2003	1.1	UG/L	U
OC13P21A03	O	C13P2	2	2	ANTIMONY	N	1	2003	1.1	UG/L	U
OC13P22A03	O	C13P2	2	2	ANTIMONY	N	2	2003	1.1	UG/L	U

Table 7.10. Raw Data for Antimony. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC13P23A03	O	C13P2	2	2	ANTIMONY	N	3	2003	1.1	UG/L	U
OC13P24A03	O	C13P2	2	2	ANTIMONY	N	4	2003	1.1	UG/L	U
OC14P21A03	O	C14P2	3	2	ANTIMONY	N	1	2003	1.1	UG/L	U
OC14P22A03	O	C14P2	3	2	ANTIMONY	N	2	2003	1.1	UG/L	U
OC14P23A03	O	C14P2	3	2	ANTIMONY	N	3	2003	1.1	UG/L	U
OC14P24A03	O	C14P2	3	2	ANTIMONY	N	4	2003	1.1	UG/L	U
OC18P21A03	O	C18P2	4	2	ANTIMONY	N	1	2003	1.1	UG/L	U
OC18P22A03	O	C18P2	4	2	ANTIMONY	N	2	2003	1.1	UG/L	U
OC18P23A03	O	C18P2	4	2	ANTIMONY	N	3	2003	1.1	UG/L	U
OC18P24A03	O	C18P2	4	2	ANTIMONY	N	4	2003	1.1	UG/L	U
OC19P21A03	O	C19P2	5	2	ANTIMONY	N	1	2003	1.1	UG/L	U
OC19P22A03	O	C19P2	5	2	ANTIMONY	N	2	2003	1.1	UG/L	U
OC19P23A03	O	C19P2	5	2	ANTIMONY	N	3	2003	1.1	UG/L	U
OC19P24A03	O	C19P2	5	2	ANTIMONY	N	4	2003	1.1	UG/L	U

Table 7.11. Raw Data for Arsenic.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03F	A	C02P2	1	1	ARSENIC	Y	1	2003	1	UG/L	U
AC02P22A03F	A	C02P2	1	1	ARSENIC	Y	2	2003	1	UG/L	U
AC02P23A03F	A	C02P2	1	1	ARSENIC	Y	3	2003	1	UG/L	U
AC02P24A03F	A	C02P2	1	1	ARSENIC	Y	4	2003	1	UG/L	U
AC031A03F	A	C03	2	1	ARSENIC	Y	1	2003	1	UG/L	U
AC032A03F	A	C03	2	1	ARSENIC	Y	2	2003	1	UG/L	U
AC033A03F	A	C03	2	1	ARSENIC	Y	3	2003	1	UG/L	U
AC034A03F	A	C03	2	1	ARSENIC	Y	4	2003	1	UG/L	U
AC041A03F	A	C04	3	1	ARSENIC	Y	1	2003	1	UG/L	U
AC042A03F	A	C04	3	1	ARSENIC	Y	2	2003	1	UG/L	U
AC043A03F	A	C04	3	1	ARSENIC	Y	3	2003	1	UG/L	U
AC044A03F	A	C04	3	1	ARSENIC	Y	4	2003	1	UG/L	U
AC071A03F	A	C07	4	1	ARSENIC	Y	1	2003	1	UG/L	U
AC072A03F	A	C07	4	1	ARSENIC	Y	2	2003	1	UG/L	U
AC073A03F	A	C07	4	1	ARSENIC	Y	3	2003	1	UG/L	U
AC074A03F	A	C07	4	1	ARSENIC	Y	4	2003	1	UG/L	U
AC08P21A03F	A	C08P2	5	1	ARSENIC	Y	1	2003	1	UG/L	U
AC08P22A03F	A	C08P2	5	1	ARSENIC	Y	2	2003	1	UG/L	U
AC08P23A03F	A	C08P2	5	1	ARSENIC	Y	3	2003	1	UG/L	U
AC08P24A03F	A	C08P2	5	1	ARSENIC	Y	4	2003	1	UG/L	U
AC09P21A03F	A	C09P2	6	1	ARSENIC	Y	1	2003	1	UG/L	U
AC09P22A03F	A	C09P2	6	1	ARSENIC	Y	2	2003	1	UG/L	U
FD08280301F	A	C09P2	6	1	ARSENIC	Y	3	2003	1	UG/L	U
AC09P23A03F	A	C09P2	6	1	ARSENIC	Y	3	2003	1	UG/L	U
AC09P24A03F	A	C09P2	6	1	ARSENIC	Y	4	2003	1	UG/L	U
AC151A03F	A	C15	7	1	ARSENIC	Y	1	2003	1	UG/L	U

Table 7.11. Raw Data for Arsenic. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
FD03050301F	A	C15	7	1	ARSENIC	Y	1	2003	1	UG/L	U
AC152A03F	A	C15	7	1	ARSENIC	Y	2	2003	1	UG/L	U
FD06170301F	A	C15	7	1	ARSENIC	Y	2	2003	1	UG/L	U
FD09040301F	A	C15	7	1	ARSENIC	Y	3	2003	1	UG/L	U
AC153A03F	A	C15	7	1	ARSENIC	Y	3	2003	1	UG/L	U
FD12020301F	A	C15	7	1	ARSENIC	Y	4	2003	1	UG/L	U
AC154A03F	A	C15	7	1	ARSENIC	Y	4	2003	1	UG/L	U
AC171A03F	A	C17	8	1	ARSENIC	Y	1	2003	2.5	UG/L	
FD03110301F	A	C17	8	1	ARSENIC	Y	1	2003	2.4	UG/L	
AC172A03F	A	C17	8	1	ARSENIC	Y	2	2003	1.7	UG/L	
FD06190301F	A	C17	8	1	ARSENIC	Y	2	2003	1.6	UG/L	
AC173A03F	A	C17	8	1	ARSENIC	Y	3	2003	1.5	UG/L	
AC174A03F	A	C17	8	1	ARSENIC	Y	4	2003	1.9	UG/L	
AC201A03F	A	C20	9	1	ARSENIC	Y	1	2003	1	UG/L	U
AC202A03F	A	C20	9	1	ARSENIC	Y	2	2003	1	UG/L	U
AC203A03F	A	C20	9	1	ARSENIC	Y	3	2003	1	UG/L	U
AC204A03F	A	C20	9	1	ARSENIC	Y	4	2003	1	UG/L	U
AC252A03F	A	C25	10	1	ARSENIC	Y	2	2003	1	UG/L	U
AC253A03F	A	C25	10	1	ARSENIC	Y	3	2003	1	UG/L	U
AC254A03F	A	C25	10	1	ARSENIC	Y	4	2003	1	UG/L	U
AC261A03F	A	C26	11	1	ARSENIC	Y	1	2003	1	UG/L	U
AC262A03F	A	C26	11	1	ARSENIC	Y	2	2003	1	UG/L	U
AC263A03F	A	C26	11	1	ARSENIC	Y	3	2003	1	UG/L	U
AC264A03F	A	C26	11	1	ARSENIC	Y	4	2003	1	UG/L	U
AC272A03F	A	C27	12	1	ARSENIC	Y	2	2003	1	UG/L	U
AC273A03F	A	C27	12	1	ARSENIC	Y	3	2003	1	UG/L	U
AC274A03F	A	C27	12	1	ARSENIC	Y	4	2003	1	UG/L	U
AC301A03F	A	C30	13	1	ARSENIC	Y	1	2003	1	UG/L	U
AC302A03F	A	C30	13	1	ARSENIC	Y	2	2003	1	UG/L	U
AC303A03F	A	C30	13	1	ARSENIC	Y	3	2003	1	UG/L	U
AC304A03F	A	C30	13	1	ARSENIC	Y	4	2003	1	UG/L	U
ASPA1A03F	A	SPA	14	1	ARSENIC	Y	1	2003	1	UG/L	U
ASPA2A03F	A	SPA	14	1	ARSENIC	Y	2	2003	1	UG/L	U
ASPA3A03F	A	SPA	14	1	ARSENIC	Y	3	2003	1	UG/L	U
ASPA4A03F	A	SPA	14	1	ARSENIC	Y	4	2003	1	UG/L	U
ASPC1A03F	A	SPC	15	1	ARSENIC	Y	1	2003	1	UG/L	U
ASPC2A03F	A	SPC	15	1	ARSENIC	Y	2	2003	1	UG/L	U
ASPC3A03F	A	SPC	15	1	ARSENIC	Y	3	2003	1	UG/L	U
ASPC4A03F	A	SPC	15	1	ARSENIC	Y	4	2003	1	UG/L	U
FD12180301F	A	SPC	15	1	ARSENIC	Y	4	2003	1	UG/L	U
AC02P21A03	A	C02P2	1	1	ARSENIC	N	1	2003	1.1	UG/L	U
AC02P22A03	A	C02P2	1	1	ARSENIC	N	2	2003	1.1	UG/L	U
AC02P23A03	A	C02P2	1	1	ARSENIC	N	3	2003	1.1	UG/L	U
AC02P24A03	A	C02P2	1	1	ARSENIC	N	4	2003	1.1	UG/L	U

Table 7.11. Raw Data for Arsenic. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC031A03	A	C03	2	1	ARSENIC	N	1	2003	1.1	UG/L	U
AC032A03	A	C03	2	1	ARSENIC	N	2	2003	1.1	UG/L	U
AC033A03	A	C03	2	1	ARSENIC	N	3	2003	1.1	UG/L	U
AC034A03	A	C03	2	1	ARSENIC	N	4	2003	1.1	UG/L	U
AC041A03	A	C04	3	1	ARSENIC	N	1	2003	1.1	UG/L	U
AC042A03	A	C04	3	1	ARSENIC	N	2	2003	1.1	UG/L	U
AC043A03	A	C04	3	1	ARSENIC	N	3	2003	1.1	UG/L	U
AC044A03	A	C04	3	1	ARSENIC	N	4	2003	1.1	UG/L	U
AC071A03	A	C07	4	1	ARSENIC	N	1	2003	1.1	UG/L	U
AC072A03	A	C07	4	1	ARSENIC	N	2	2003	1.1	UG/L	U
AC073A03	A	C07	4	1	ARSENIC	N	3	2003	1.1	UG/L	U
AC074A03	A	C07	4	1	ARSENIC	N	4	2003	1.1	UG/L	U
AC08P21A03	A	C08P2	5	1	ARSENIC	N	1	2003	1.1	UG/L	U
AC08P22A03	A	C08P2	5	1	ARSENIC	N	2	2003	1.1	UG/L	U
AC08P23A03	A	C08P2	5	1	ARSENIC	N	3	2003	1.1	UG/L	U
AC08P24A03	A	C08P2	5	1	ARSENIC	N	4	2003	1.1	UG/L	U
AC09P21A03	A	C09P2	6	1	ARSENIC	N	1	2003	1.5	UG/L	
AC09P22A03	A	C09P2	6	1	ARSENIC	N	2	2003	1.9	UG/L	
AC09P23A03	A	C09P2	6	1	ARSENIC	N	3	2003	2.3	UG/L	
FD08280301	A	C09P2	6	1	ARSENIC	N	3	2003	2.1	UG/L	
AC09P24A03	A	C09P2	6	1	ARSENIC	N	4	2003	2.7	UG/L	
AC151A03	A	C15	7	1	ARSENIC	N	1	2003	1.1	UG/L	U
FD03050301	A	C15	7	1	ARSENIC	N	1	2003	1.1	UG/L	U
AC152A03	A	C15	7	1	ARSENIC	N	2	2003	1.1	UG/L	U
FD06170301	A	C15	7	1	ARSENIC	N	2	2003	1.1	UG/L	U
FD09040301	A	C15	7	1	ARSENIC	N	3	2003	1.1	UG/L	U
AC153A03	A	C15	7	1	ARSENIC	N	3	2003	1.1	UG/L	U
FD12020301	A	C15	7	1	ARSENIC	N	4	2003	1.1	UG/L	U
AC154A03	A	C15	7	1	ARSENIC	N	4	2003	1.1	UG/L	U
AC171A03	A	C17	8	1	ARSENIC	N	1	2003	3.1	UG/L	
FD03110301	A	C17	8	1	ARSENIC	N	1	2003	3	UG/L	
FD06190301	A	C17	8	1	ARSENIC	N	2	2003	2.4	UG/L	
AC172A03	A	C17	8	1	ARSENIC	N	2	2003	2.5	UG/L	
AC173A03	A	C17	8	1	ARSENIC	N	3	2003	2.2	UG/L	
AC174A03	A	C17	8	1	ARSENIC	N	4	2003	2.2	UG/L	
AC201A03	A	C20	9	1	ARSENIC	N	1	2003	1.1	UG/L	U
AC202A03	A	C20	9	1	ARSENIC	N	2	2003	1.1	UG/L	U
AC203A03	A	C20	9	1	ARSENIC	N	3	2003	1.1	UG/L	U
AC204A03	A	C20	9	1	ARSENIC	N	4	2003	1.1	UG/L	U
AC252A03	A	C25	10	1	ARSENIC	N	2	2003	1.1	UG/L	U
AC253A03	A	C25	10	1	ARSENIC	N	3	2003	1.1	UG/L	U
AC254A03	A	C25	10	1	ARSENIC	N	4	2003	1.1	UG/L	U
AC261A03	A	C26	11	1	ARSENIC	N	1	2003	1.1	UG/L	U
AC262A03	A	C26	11	1	ARSENIC	N	2	2003	1.1	UG/L	U

Table 7.11. Raw Data for Arsenic. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC263A03	A	C26	11	1	ARSENIC	N	3	2003	1.1	UG/L	U
AC264A03	A	C26	11	1	ARSENIC	N	4	2003	1.1	UG/L	U
AC272A03	A	C27	12	1	ARSENIC	N	2	2003	1.1	UG/L	U
AC273A03	A	C27	12	1	ARSENIC	N	3	2003	1.1	UG/L	U
AC274A03	A	C27	12	1	ARSENIC	N	4	2003	1.1	UG/L	U
AC301A03	A	C30	13	1	ARSENIC	N	1	2003	1.1	UG/L	U
AC302A03	A	C30	13	1	ARSENIC	N	2	2003	1.1	UG/L	U
AC303A03	A	C30	13	1	ARSENIC	N	3	2003	1.1	UG/L	U
AC304A03	A	C30	13	1	ARSENIC	N	4	2003	1.1	UG/L	U
ASPA1A03	A	SPA	14	1	ARSENIC	N	1	2003	1.1	UG/L	U
ASPA2A03	A	SPA	14	1	ARSENIC	N	2	2003	1.1	UG/L	U
ASPA3A03	A	SPA	14	1	ARSENIC	N	3	2003	1.1	UG/L	U
ASPA4A03	A	SPA	14	1	ARSENIC	N	4	2003	1.1	UG/L	U
ASPC1A03	A	SPC	15	1	ARSENIC	N	1	2003	1.1	UG/L	U
ASPC2A03	A	SPC	15	1	ARSENIC	N	2	2003	1.1	UG/L	U
ASPC3A03	A	SPC	15	1	ARSENIC	N	3	2003	1.1	UG/L	U
ASPC4A03	A	SPC	15	1	ARSENIC	N	4	2003	1.1	UG/L	U
FD12180301	A	SPC	15	1	ARSENIC	N	4	2003	1.1	UG/L	U
DC021A03F	D	C02	1	1	ARSENIC	Y	1	2003	1	UG/L	UE
DC023A03F	D	C02	1	1	ARSENIC	Y	3	2003	1	UG/L	U
DC031A03F	D	C03	2	1	ARSENIC	Y	1	2003	17.9	UG/L	E
FD07140301F	D	C03	2	1	ARSENIC	Y	3	2003	18.3	UG/L	
DC033A03F	D	C03	2	1	ARSENIC	Y	3	2003	17.5	UG/L	
DC041A03F	D	C04	3	1	ARSENIC	Y	1	2003	1	UG/L	UE
FD07090301F	D	C04	3	1	ARSENIC	Y	3	2003	1	UG/L	U
DC043A03F	D	C04	3	1	ARSENIC	Y	3	2003	1	UG/L	U
FD01130301F	D	C05	4	1	ARSENIC	Y	1	2003	1	UG/L	UE
DC051A03F	D	C05	4	1	ARSENIC	Y	1	2003	1	UG/L	UE
DC053A03F	D	C05	4	1	ARSENIC	Y	3	2003	1	UG/L	U
DC061A03F	D	C06	5	1	ARSENIC	Y	1	2003	1	UG/L	UE
DC063A03F	D	C06	5	1	ARSENIC	Y	3	2003	1	UG/L	U
DC071A03F	D	C07	6	1	ARSENIC	Y	1	2003	1	UG/L	UE
DC073A03F	D	C07	6	1	ARSENIC	Y	3	2003	1	UG/L	U
DC081A03F	D	C08	7	1	ARSENIC	Y	1	2003	1	UG/L	UE
DC083A03F	D	C08	7	1	ARSENIC	Y	3	2003	1	UG/L	U
DC021A03	D	C02	1	1	ARSENIC	N	1	2003	1.1	UG/L	U
DC023A03	D	C02	1	1	ARSENIC	N	3	2003	1.1	UG/L	U
DC031A03	D	C03	2	1	ARSENIC	N	1	2003	11.2	UG/L	
FD07140301	D	C03	2	1	ARSENIC	N	3	2003	14.3	UG/L	
DC033A03	D	C03	2	1	ARSENIC	N	3	2003	13.7	UG/L	
DC041A03	D	C04	3	1	ARSENIC	N	1	2003	1.1	UG/L	U
FD07090301	D	C04	3	1	ARSENIC	N	3	2003	1.1	UG/L	U
DC043A03	D	C04	3	1	ARSENIC	N	3	2003	1.1	UG/L	U
FD01130301	D	C05	4	1	ARSENIC	N	1	2003	1.1	UG/L	U

Table 7.11. Raw Data for Arsenic. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
DC051A03	D	C05	4	1	ARSENIC	N	1	2003	1.1	UG/L	U
DC053A03	D	C05	4	1	ARSENIC	N	3	2003	1.1	UG/L	U
DC061A03	D	C06	5	1	ARSENIC	N	1	2003	1.1	UG/L	U
DC063A03	D	C06	5	1	ARSENIC	N	3	2003	1.1	UG/L	U
DC071A03	D	C07	6	1	ARSENIC	N	1	2003	1.1	UG/L	U
DC073A03	D	C07	6	1	ARSENIC	N	3	2003	1.1	UG/L	U
DC081A03	D	C08	7	1	ARSENIC	N	1	2003	1.5	UG/L	
DC083A03	D	C08	7	1	ARSENIC	N	3	2003	1.1	UG/L	U
FD01090301F	D	C03P2	1	2	ARSENIC	Y	1	2003	1	UG/L	UE
DC03P21A03F	D	C03P2	1	2	ARSENIC	Y	1	2003	1	UG/L	UE
DC03P23A03F	D	C03P2	1	2	ARSENIC	Y	3	2003	1	UG/L	U
DC04P21A03F	D	C04P2	2	2	ARSENIC	Y	1	2003	1	UG/L	UE
DC04P23A03F	D	C04P2	2	2	ARSENIC	Y	3	2003	1	UG/L	U
DC06P21A03F	D	C06P2	3	2	ARSENIC	Y	1	2003	1	UG/L	UE
DC06P23A03F	D	C06P2	3	2	ARSENIC	Y	3	2003	1	UG/L	U
DC08P23A03F	D	C08P2	4	2	ARSENIC	Y	3	2003	1.4	UG/L	
FD01090301	D	C03P2	1	2	ARSENIC	N	1	2003	3.2	UG/L	
DC03P21A03	D	C03P2	1	2	ARSENIC	N	1	2003	2.3	UG/L	
DC03P23A03	D	C03P2	1	2	ARSENIC	N	3	2003	1.1	UG/L	U
DC04P21A03	D	C04P2	2	2	ARSENIC	N	1	2003	1.1	UG/L	U
DC04P23A03	D	C04P2	2	2	ARSENIC	N	3	2003	1.1	UG/L	U
DC06P21A03	D	C06P2	3	2	ARSENIC	N	1	2003	1.1	UG/L	U
DC06P23A03	D	C06P2	3	2	ARSENIC	N	3	2003	1.1	UG/L	U
DC08P23A03	D	C08P2	4	2	ARSENIC	N	3	2003	1.1	UG/L	
OC081A03F	O	C08	1	1	ARSENIC	Y	1	2003	1	UG/L	U
OC082A03F	O	C08	1	1	ARSENIC	Y	2	2003	1	UG/L	U
OC083A03F	O	C08	1	1	ARSENIC	Y	3	2003	1	UG/L	U
OC084A03F	O	C08	1	1	ARSENIC	Y	4	2003	1	UG/L	U
OC111A03F	O	C11	2	1	ARSENIC	Y	1	2003	1.3	UG/L	
OC112A03F	O	C11	2	1	ARSENIC	Y	2	2003	1	UG/L	
OC113A03F	O	C11	2	1	ARSENIC	Y	3	2003	1.1	UG/L	
OC114A03F	O	C11	2	1	ARSENIC	Y	4	2003	1.2	UG/L	
OC121A03F	O	C12	3	1	ARSENIC	Y	1	2003	1	UG/L	U
OC122A03F	O	C12	3	1	ARSENIC	Y	2	2003	1	UG/L	U
FD04290301F	O	C12	3	1	ARSENIC	Y	2	2003	1	UG/L	U
OC123A03F	O	C12	3	1	ARSENIC	Y	3	2003	1	UG/L	U
OC124A03F	O	C12	3	1	ARSENIC	Y	4	2003	1	UG/L	U
FD10150301F	O	C12	3	1	ARSENIC	Y	4	2003	1	UG/L	U
OC131A03F	O	C13	4	1	ARSENIC	Y	1	2003	28.5	UG/L	
OC132A03F	O	C13	4	1	ARSENIC	Y	2	2003	28.3	UG/L	
OC133A03F	O	C13	4	1	ARSENIC	Y	3	2003	25.7	UG/L	
OC134A03F	O	C13	4	1	ARSENIC	Y	4	2003	30.2	UG/L	
OC141A03F	O	C14	5	1	ARSENIC	Y	1	2003	1	UG/L	U
OC142A03F	O	C14	5	1	ARSENIC	Y	2	2003	1	UG/L	U

Table 7.11. Raw Data for Arsenic. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC143A03F	O	C14	5	1	ARSENIC	Y	3	2003	1	UG/L	U
OC144A03F	O	C14	5	1	ARSENIC	Y	4	2003	1	UG/L	U
OC151A03F	O	C15	6	1	ARSENIC	Y	1	2003	1	UG/L	U
OC152A03F	O	C15	6	1	ARSENIC	Y	2	2003	1	UG/L	U
FD05070301F	O	C15	6	1	ARSENIC	Y	2	2003	1	UG/L	U
OC153A03F	O	C15	6	1	ARSENIC	Y	3	2003	1	UG/L	U
FD08120301F	O	C15	6	1	ARSENIC	Y	3	2003	1	UG/L	U
OC154A03F	O	C15	6	1	ARSENIC	Y	4	2003	1	UG/L	U
FD10300301F	O	C15	6	1	ARSENIC	Y	4	2003	1	UG/L	U
OC161A03F	O	C16	7	1	ARSENIC	Y	1	2003	1.3	UG/L	
FD02130301F	O	C16	7	1	ARSENIC	Y	1	2003	1	UG/L	U
FD01290301F	O	C16	7	1	ARSENIC	Y	1	2003	1	UG/L	U
OC162A03F	O	C16	7	1	ARSENIC	Y	2	2003	1	UG/L	U
OC163A03F	O	C16	7	1	ARSENIC	Y	3	2003	1	UG/L	U
OC164A03F	O	C16	7	1	ARSENIC	Y	4	2003	1	UG/L	U
OC181A03F	O	C18	8	1	ARSENIC	Y	1	2003	2	UG/L	
OC182A03F	O	C18	8	1	ARSENIC	Y	2	2003	2.2	UG/L	
OC183A03F	O	C18	8	1	ARSENIC	Y	3	2003	2.2	UG/L	
OC184A03F	O	C18	8	1	ARSENIC	Y	4	2003	2.2	UG/L	
OC191A03F	O	C19	9	1	ARSENIC	Y	1	2003	1.1	UG/L	
OC192A03F	O	C19	9	1	ARSENIC	Y	2	2003	1.2	UG/L	
OC193A03F	O	C19	9	1	ARSENIC	Y	3	2003	1.2	UG/L	
FD08200301F	O	C19	9	1	ARSENIC	Y	3	2003	1.2	UG/L	
OC194A03F	O	C19	9	1	ARSENIC	Y	4	2003	1.5	UG/L	
OC081A03	O	C08	1	1	ARSENIC	N	1	2003	1.1	UG/L	U
OC082A03	O	C08	1	1	ARSENIC	N	2	2003	1.1	UG/L	U
OC083A03	O	C08	1	1	ARSENIC	N	3	2003	1.1	UG/L	U
OC084A03	O	C08	1	1	ARSENIC	N	4	2003	1.1	UG/L	U
OC111A03	O	C11	2	1	ARSENIC	N	1	2003	1.9	UG/L	
OC112A03	O	C11	2	1	ARSENIC	N	2	2003	1.3	UG/L	
OC113A03	O	C11	2	1	ARSENIC	N	3	2003	1.5	UG/L	
OC114A03	O	C11	2	1	ARSENIC	N	4	2003	1.5	UG/L	
OC121A03	O	C12	3	1	ARSENIC	N	1	2003	1.1	UG/L	U
OC122A03	O	C12	3	1	ARSENIC	N	2	2003	1.1	UG/L	U
FD04290301	O	C12	3	1	ARSENIC	N	2	2003	1.1	UG/L	U
OC123A03	O	C12	3	1	ARSENIC	N	3	2003	1.1	UG/L	U
OC124A03	O	C12	3	1	ARSENIC	N	4	2003	1.1	UG/L	U
FD10150301	O	C12	3	1	ARSENIC	N	4	2003	1.1	UG/L	U
OC131A03	O	C13	4	1	ARSENIC	N	1	2003	64.3	UG/L	
OC132A03	O	C13	4	1	ARSENIC	N	2	2003	55.9	UG/L	
OC133A03	O	C13	4	1	ARSENIC	N	3	2003	47.7	UG/L	
OC134A03	O	C13	4	1	ARSENIC	N	4	2003	37.2	UG/L	
OC141A03	O	C14	5	1	ARSENIC	N	1	2003	3.7	UG/L	
OC142A03	O	C14	5	1	ARSENIC	N	2	2003	2.5	UG/L	

Table 7.11. Raw Data for Arsenic. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC143A03	O	C14	5	1	ARSENIC	N	3	2003	1.3	UG/L	
OC144A03	O	C14	5	1	ARSENIC	N	4	2003	1.1	UG/L	U
OC151A03	O	C15	6	1	ARSENIC	N	1	2003	1.1	UG/L	U
FD01290301	O	C15	6	1	ARSENIC	N	1	2003	1.1	UG/L	U
OC152A03	O	C15	6	1	ARSENIC	N	2	2003	1.1	UG/L	U
FD05070301	O	C15	6	1	ARSENIC	N	2	2003	1.1	UG/L	U
OC153A03	O	C15	6	1	ARSENIC	N	3	2003	1.1	UG/L	U
FD08120301	O	C15	6	1	ARSENIC	N	3	2003	1.1	UG/L	U
OC154A03	O	C15	6	1	ARSENIC	N	4	2003	1.1	UG/L	U
FD10300301	O	C15	6	1	ARSENIC	N	4	2003	1.1	UG/L	U
FD02130301	O	C16	7	1	ARSENIC	N	1	2003	1.1	UG/L	U
OC161A03	O	C16	7	1	ARSENIC	N	1	2003	1.1	UG/L	U
OC162A03	O	C16	7	1	ARSENIC	N	2	2003	1.1	UG/L	U
OC163A03	O	C16	7	1	ARSENIC	N	3	2003	1.1	UG/L	U
OC164A03	O	C16	7	1	ARSENIC	N	4	2003	1.1	UG/L	U
OC181A03	O	C18	8	1	ARSENIC	N	1	2003	2.2	UG/L	
OC182A03	O	C18	8	1	ARSENIC	N	2	2003	2	UG/L	
OC183A03	O	C18	8	1	ARSENIC	N	3	2003	2	UG/L	
OC184A03	O	C18	8	1	ARSENIC	N	4	2003	2.4	UG/L	
OC191A03	O	C19	9	1	ARSENIC	N	1	2003	1.1	UG/L	U
OC192A03	O	C19	9	1	ARSENIC	N	2	2003	1.1	UG/L	
OC193A03	O	C19	9	1	ARSENIC	N	3	2003	1.4	UG/L	
FD08200301	O	C19	9	1	ARSENIC	N	3	2003	1.4	UG/L	
OC194A03	O	C19	9	1	ARSENIC	N	4	2003	1.3	UG/L	
OC11P21A03F	O	C11P2	1	2	ARSENIC	Y	1	2003	1	UG/L	U
OC11P22A03F	O	C11P2	1	2	ARSENIC	Y	2	2003	1	UG/L	U
OC11P23A03F	O	C11P2	1	2	ARSENIC	Y	3	2003	1	UG/L	U
OC11P24A03F	O	C11P2	1	2	ARSENIC	Y	4	2003	1	UG/L	U
OC13P21A03F	O	C13P2	2	2	ARSENIC	Y	1	2003	36.3	UG/L	
OC13P22A03F	O	C13P2	2	2	ARSENIC	Y	2	2003	34.5	UG/L	
OC13P23A03F	O	C13P2	2	2	ARSENIC	Y	3	2003	34.2	UG/L	
OC13P24A03F	O	C13P2	2	2	ARSENIC	Y	4	2003	35.4	UG/L	
OC14P21A03F	O	C14P2	3	2	ARSENIC	Y	1	2003	1	UG/L	U
OC14P22A03F	O	C14P2	3	2	ARSENIC	Y	2	2003	1	UG/L	U
OC14P23A03F	O	C14P2	3	2	ARSENIC	Y	3	2003	1	UG/L	U
OC14P24A03F	O	C14P2	3	2	ARSENIC	Y	4	2003	1	UG/L	U
OC18P21A03F	O	C18P2	4	2	ARSENIC	Y	1	2003	18.4	UG/L	
OC18P22A03F	O	C18P2	4	2	ARSENIC	Y	2	2003	16.3	UG/L	
OC18P23A03F	O	C18P2	4	2	ARSENIC	Y	3	2003	16	UG/L	
OC18P24A03F	O	C18P2	4	2	ARSENIC	Y	4	2003	16.4	UG/L	
OC19P21A03F	O	C19P2	5	2	ARSENIC	Y	1	2003	2	UG/L	
OC19P22A03F	O	C19P2	5	2	ARSENIC	Y	2	2003	2.2	UG/L	
OC19P23A03F	O	C19P2	5	2	ARSENIC	Y	3	2003	2.1	UG/L	
OC19P24A03F	O	C19P2	5	2	ARSENIC	Y	4	2003	2.5	UG/L	

Table 7.11. Raw Data for Arsenic. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC11P21A03	O	C11P2	1	2	ARSENIC	N	1	2003	2.7	UG/L	
OC11P22A03	O	C11P2	1	2	ARSENIC	N	2	2003	1.2	UG/L	
OC11P23A03	O	C11P2	1	2	ARSENIC	N	3	2003	1.1	UG/L	
OC11P24A03	O	C11P2	1	2	ARSENIC	N	4	2003	1.1	UG/L	
OC13P21A03	O	C13P2	2	2	ARSENIC	N	1	2003	33.4	UG/L	
OC13P22A03	O	C13P2	2	2	ARSENIC	N	2	2003	31.5	UG/L	
OC13P23A03	O	C13P2	2	2	ARSENIC	N	3	2003	31.6	UG/L	
OC13P24A03	O	C13P2	2	2	ARSENIC	N	4	2003	30.2	UG/L	
OC14P21A03	O	C14P2	3	2	ARSENIC	N	1	2003	1.1	UG/L	U
OC14P22A03	O	C14P2	3	2	ARSENIC	N	2	2003	1.1	UG/L	U
OC14P23A03	O	C14P2	3	2	ARSENIC	N	3	2003	1.1	UG/L	U
OC14P24A03	O	C14P2	3	2	ARSENIC	N	4	2003	1.1	UG/L	U
OC18P21A03	O	C18P2	4	2	ARSENIC	N	1	2003	18	UG/L	
OC18P22A03	O	C18P2	4	2	ARSENIC	N	2	2003	16	UG/L	
OC18P23A03	O	C18P2	4	2	ARSENIC	N	3	2003	14.5	UG/L	
OC18P24A03	O	C18P2	4	2	ARSENIC	N	4	2003	14.2	UG/L	
OC19P21A03	O	C19P2	5	2	ARSENIC	N	1	2003	3.7	UG/L	
OC19P22A03	O	C19P2	5	2	ARSENIC	N	2	2003	2.7	UG/L	
OC19P23A03	O	C19P2	5	2	ARSENIC	N	3	2003	2.6	UG/L	
OC19P24A03	O	C19P2	5	2	ARSENIC	N	4	2003	2.1	UG/L	

Table 7.12. Raw Data for Barium.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03	A	C02P2	1	1	BARIUM	N	1	2003	61.6	UG/L	
AC02P22A03	A	C02P2	1	1	BARIUM	N	2	2003	83.9	UG/L	
AC02P23A03	A	C02P2	1	1	BARIUM	N	3	2003	86.2	UG/L	
AC02P24A03	A	C02P2	1	1	BARIUM	N	4	2003	72.2	UG/L	
AC031A03	A	C03	2	1	BARIUM	N	1	2003	36.2	UG/L	
AC032A03	A	C03	2	1	BARIUM	N	2	2003	35.6	UG/L	
AC033A03	A	C03	2	1	BARIUM	N	3	2003	34.1	UG/L	
AC034A03	A	C03	2	1	BARIUM	N	4	2003	36.8	UG/L	
AC041A03	A	C04	3	1	BARIUM	N	1	2003	34.7	UG/L	
AC042A03	A	C04	3	1	BARIUM	N	2	2003	21.8	UG/L	
AC043A03	A	C04	3	1	BARIUM	N	3	2003	21.2	UG/L	
AC044A03	A	C04	3	1	BARIUM	N	4	2003	25.2	UG/L	
AC071A03	A	C07	4	1	BARIUM	N	1	2003	28.8	UG/L	
AC072A03	A	C07	4	1	BARIUM	N	2	2003	30.1	UG/L	
AC073A03	A	C07	4	1	BARIUM	N	3	2003	26.9	UG/L	
AC074A03	A	C07	4	1	BARIUM	N	4	2003	28.5	UG/L	
AC08P21A03	A	C08P2	5	1	BARIUM	N	1	2003	64.7	UG/L	
AC08P22A03	A	C08P2	5	1	BARIUM	N	2	2003	55.8	UG/L	
AC08P23A03	A	C08P2	5	1	BARIUM	N	3	2003	53.3	UG/L	
AC08P24A03	A	C08P2	5	1	BARIUM	N	4	2003	57.6	UG/L	

Table 7.12. Raw Data for Barium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC09P21A03	A	C09P2	6	1	BARIUM	N	1	2003	16.5	UG/L	
AC09P22A03	A	C09P2	6	1	BARIUM	N	2	2003	16.8	UG/L	
FD08280301	A	C09P2	6	1	BARIUM	N	3	2003	17.2	UG/L	
AC09P23A03	A	C09P2	6	1	BARIUM	N	3	2003	16.6	UG/L	
AC09P24A03	A	C09P2	6	1	BARIUM	N	4	2003	19.3	UG/L	
AC151A03	A	C15	7	1	BARIUM	N	1	2003	28.4	UG/L	
FD03050301	A	C15	7	1	BARIUM	N	1	2003	27.5	UG/L	
FD06170301	A	C15	7	1	BARIUM	N	2	2003	25.3	UG/L	
AC152A03	A	C15	7	1	BARIUM	N	2	2003	24.9	UG/L	
FD09040301	A	C15	7	1	BARIUM	N	3	2003	23.1	UG/L	
AC153A03	A	C15	7	1	BARIUM	N	3	2003	23.3	UG/L	
AC154A03	A	C15	7	1	BARIUM	N	4	2003	25.7	UG/L	
FD12020301	A	C15	7	1	BARIUM	N	4	2003	25.8	UG/L	
AC171A03	A	C17	8	1	BARIUM	N	1	2003	11.4	UG/L	
FD03110301	A	C17	8	1	BARIUM	N	1	2003	11.2	UG/L	
AC172A03	A	C17	8	1	BARIUM	N	2	2003	10	UG/L	
FD06190301	A	C17	8	1	BARIUM	N	2	2003	14.4	UG/L	
AC173A03	A	C17	8	1	BARIUM	N	3	2003	10.6	UG/L	
AC174A03	A	C17	8	1	BARIUM	N	4	2003	10.9	UG/L	
AC201A03	A	C20	9	1	BARIUM	N	1	2003	30.4	UG/L	
AC202A03	A	C20	9	1	BARIUM	N	2	2003	28.6	UG/L	
AC203A03	A	C20	9	1	BARIUM	N	3	2003	30.5	UG/L	
AC204A03	A	C20	9	1	BARIUM	N	4	2003	31.3	UG/L	
AC252A03	A	C25	10	1	BARIUM	N	2	2003	15.4	UG/L	
AC253A03	A	C25	10	1	BARIUM	N	3	2003	15.8	UG/L	
AC254A03	A	C25	10	1	BARIUM	N	4	2003	16.4	UG/L	
AC261A03	A	C26	11	1	BARIUM	N	1	2003	37.9	UG/L	
AC262A03	A	C26	11	1	BARIUM	N	2	2003	37.2	UG/L	
AC263A03	A	C26	11	1	BARIUM	N	3	2003	37.4	UG/L	
AC264A03	A	C26	11	1	BARIUM	N	4	2003	39.5	UG/L	
AC272A03	A	C27	12	1	BARIUM	N	2	2003	25.8	UG/L	
AC273A03	A	C27	12	1	BARIUM	N	3	2003	26.4	UG/L	
AC274A03	A	C27	12	1	BARIUM	N	4	2003	31.7	UG/L	
AC301A03	A	C30	13	1	BARIUM	N	1	2003	53.2	UG/L	
AC302A03	A	C30	13	1	BARIUM	N	2	2003	39.5	UG/L	
AC303A03	A	C30	13	1	BARIUM	N	3	2003	44.9	UG/L	
AC304A03	A	C30	13	1	BARIUM	N	4	2003	56.8	UG/L	
ASPA1A03	A	SPA	14	1	BARIUM	N	1	2003	37.9	UG/L	
ASPA2A03	A	SPA	14	1	BARIUM	N	2	2003	106	UG/L	
ASPA3A03	A	SPA	14	1	BARIUM	N	3	2003	134	UG/L	
ASPA4A03	A	SPA	14	1	BARIUM	N	4	2003	51.3	UG/L	
ASPC1A03	A	SPC	15	1	BARIUM	N	1	2003	29.2	UG/L	
ASPC2A03	A	SPC	15	1	BARIUM	N	2	2003	60.2	UG/L	
ASPC3A03	A	SPC	15	1	BARIUM	N	3	2003	60.7	UG/L	

Table 7.12. Raw Data for Barium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
ASPC4A03	A	SPC	15	1	BARIUM	N	4	2003	36.2	UG/L	
FD12180301	A	SPC	15	1	BARIUM	N	4	2003	34.9	UG/L	
AC02P21A03F	A	C02P2	1	1	BARIUM	Y	1	2003	60.9	UG/L	
AC02P22A03F	A	C02P2	1	1	BARIUM	Y	2	2003	85.4	UG/L	
AC02P23A03F	A	C02P2	1	1	BARIUM	Y	3	2003	93.3	UG/L	
AC02P24A03F	A	C02P2	1	1	BARIUM	Y	4	2003	72.8	UG/L	
AC031A03F	A	C03	2	1	BARIUM	Y	1	2003	36.5	UG/L	
AC032A03F	A	C03	2	1	BARIUM	Y	2	2003	36.4	UG/L	
AC033A03F	A	C03	2	1	BARIUM	Y	3	2003	37.2	UG/L	
AC034A03F	A	C03	2	1	BARIUM	Y	4	2003	35.7	UG/L	
AC041A03F	A	C04	3	1	BARIUM	Y	1	2003	18.2	UG/L	
AC042A03F	A	C04	3	1	BARIUM	Y	2	2003	15.5	UG/L	
AC043A03F	A	C04	3	1	BARIUM	Y	3	2003	16.7	UG/L	
AC044A03F	A	C04	3	1	BARIUM	Y	4	2003	18.9	UG/L	
AC071A03F	A	C07	4	1	BARIUM	Y	1	2003	29.4	UG/L	
AC072A03F	A	C07	4	1	BARIUM	Y	2	2003	30.7	UG/L	
AC073A03F	A	C07	4	1	BARIUM	Y	3	2003	28.8	UG/L	
AC074A03F	A	C07	4	1	BARIUM	Y	4	2003	29.9	UG/L	
AC08P21A03F	A	C08P2	5	1	BARIUM	Y	1	2003	57.3	UG/L	
AC08P22A03F	A	C08P2	5	1	BARIUM	Y	2	2003	52.6	UG/L	
AC08P23A03F	A	C08P2	5	1	BARIUM	Y	3	2003	53	UG/L	
AC08P24A03F	A	C08P2	5	1	BARIUM	Y	4	2003	52.4	UG/L	
AC09P21A03F	A	C09P2	6	1	BARIUM	Y	1	2003	12.4	UG/L	
AC09P22A03F	A	C09P2	6	1	BARIUM	Y	2	2003	12	UG/L	
FD08280301F	A	C09P2	6	1	BARIUM	Y	3	2003	12.1	UG/L	
AC09P23A03F	A	C09P2	6	1	BARIUM	Y	3	2003	12.4	UG/L	
AC09P24A03F	A	C09P2	6	1	BARIUM	Y	4	2003	12.6	UG/L	
AC151A03F	A	C15	7	1	BARIUM	Y	1	2003	27.9	UG/L	
FD03050301F	A	C15	7	1	BARIUM	Y	1	2003	28.2	UG/L	
AC152A03F	A	C15	7	1	BARIUM	Y	2	2003	25.2	UG/L	
FD06170301F	A	C15	7	1	BARIUM	Y	2	2003	25	UG/L	
FD09040301F	A	C15	7	1	BARIUM	Y	3	2003	24.6	UG/L	
AC153A03F	A	C15	7	1	BARIUM	Y	3	2003	23.7	UG/L	
AC154A03F	A	C15	7	1	BARIUM	Y	4	2003	26.4	UG/L	
FD12020301F	A	C15	7	1	BARIUM	Y	4	2003	26.4	UG/L	
AC171A03F	A	C17	8	1	BARIUM	Y	1	2003	10.9	UG/L	
FD03110301F	A	C17	8	1	BARIUM	Y	1	2003	10.9	UG/L	
AC172A03F	A	C17	8	1	BARIUM	Y	2	2003	9	UG/L	
FD06190301F	A	C17	8	1	BARIUM	Y	2	2003	8.9	UG/L	
AC173A03F	A	C17	8	1	BARIUM	Y	3	2003	9.8	UG/L	
AC174A03F	A	C17	8	1	BARIUM	Y	4	2003	10.5	UG/L	
AC201A03F	A	C20	9	1	BARIUM	Y	1	2003	31	UG/L	
AC202A03F	A	C20	9	1	BARIUM	Y	2	2003	28.4	UG/L	
AC203A03F	A	C20	9	1	BARIUM	Y	3	2003	31.7	UG/L	

Table 7.12. Raw Data for Barium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC204A03F	A	C20	9	1	BARIUM	Y	4	2003	31.9	UG/L	
AC252A03F	A	C25	10	1	BARIUM	Y	2	2003	15.4	UG/L	
AC253A03F	A	C25	10	1	BARIUM	Y	3	2003	15.4	UG/L	
AC254A03F	A	C25	10	1	BARIUM	Y	4	2003	16.3	UG/L	
AC261A03F	A	C26	11	1	BARIUM	Y	1	2003	38.7	UG/L	
AC262A03F	A	C26	11	1	BARIUM	Y	2	2003	37.7	UG/L	
AC263A03F	A	C26	11	1	BARIUM	Y	3	2003	38.3	UG/L	
AC264A03F	A	C26	11	1	BARIUM	Y	4	2003	40.4	UG/L	
AC272A03F	A	C27	12	1	BARIUM	Y	2	2003	26	UG/L	
AC273A03F	A	C27	12	1	BARIUM	Y	3	2003	28.4	UG/L	
AC274A03F	A	C27	12	1	BARIUM	Y	4	2003	33.4	UG/L	
AC301A03F	A	C30	13	1	BARIUM	Y	1	2003	49.4	UG/L	
AC302A03F	A	C30	13	1	BARIUM	Y	2	2003	46	UG/L	
AC303A03F	A	C30	13	1	BARIUM	Y	3	2003	34.9	UG/L	
AC304A03F	A	C30	13	1	BARIUM	Y	4	2003	36.5	UG/L	
ASPA1A03F	A	SPA	14	1	BARIUM	Y	1	2003	38	UG/L	
ASPA2A03F	A	SPA	14	1	BARIUM	Y	2	2003	109	UG/L	
ASPA3A03F	A	SPA	14	1	BARIUM	Y	3	2003	142	UG/L	
ASPA4A03F	A	SPA	14	1	BARIUM	Y	4	2003	50.9	UG/L	
ASPC1A03F	A	SPC	15	1	BARIUM	Y	1	2003	29.5	UG/L	
ASPC2A03F	A	SPC	15	1	BARIUM	Y	2	2003	61.1	UG/L	
ASPC3A03F	A	SPC	15	1	BARIUM	Y	3	2003	63.3	UG/L	
ASPC4A03F	A	SPC	15	1	BARIUM	Y	4	2003	35.4	UG/L	
FD12180301F	A	SPC	15	1	BARIUM	Y	4	2003	34.6	UG/L	
DC021A03	D	C02	1	1	BARIUM	N	1	2003	96.5	UG/L	
DC023A03	D	C02	1	1	BARIUM	N	3	2003	105	UG/L	
DC031A03	D	C03	2	1	BARIUM	N	1	2003	80	UG/L	
DC033A03	D	C03	2	1	BARIUM	N	3	2003	78.7	UG/L	
FD07140301	D	C03	2	1	BARIUM	N	3	2003	76.3	UG/L	
DC041A03	D	C04	3	1	BARIUM	N	1	2003	148	UG/L	
DC043A03	D	C04	3	1	BARIUM	N	3	2003	143	UG/L	
FD07090301	D	C04	3	1	BARIUM	N	3	2003	140	UG/L	
FD01130301	D	C05	4	1	BARIUM	N	1	2003	64.7	UG/L	
DC051A03	D	C05	4	1	BARIUM	N	1	2003	64.2	UG/L	
DC053A03	D	C05	4	1	BARIUM	N	3	2003	69.5	UG/L	
DC061A03	D	C06	5	1	BARIUM	N	1	2003	36.1	UG/L	
DC063A03	D	C06	5	1	BARIUM	N	3	2003	26.6	UG/L	
DC071A03	D	C07	6	1	BARIUM	N	1	2003	252	UG/L	
DC073A03	D	C07	6	1	BARIUM	N	3	2003	243	UG/L	
DC081A03	D	C08	7	1	BARIUM	N	1	2003	134	UG/L	
DC083A03	D	C08	7	1	BARIUM	N	3	2003	36	UG/L	
DC021A03F	D	C02	1	1	BARIUM	Y	1	2003	87.5	UG/L	
DC023A03F	D	C02	1	1	BARIUM	Y	3	2003	96.4	UG/L	EJ
DC031A03F	D	C03	2	1	BARIUM	Y	1	2003	73.5	UG/L	

Table 7.12. Raw Data for Barium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
DC033A03F	D	C03	2	1	BARIUM	Y	3	2003	72	UG/L	EJ
FD07140301F	D	C03	2	1	BARIUM	Y	3	2003	71.7	UG/L	EJ
DC041A03F	D	C04	3	1	BARIUM	Y	1	2003	141	UG/L	
DC043A03F	D	C04	3	1	BARIUM	Y	3	2003	135	UG/L	EJ
FD07090301F	D	C04	3	1	BARIUM	Y	3	2003	133	UG/L	EJ
DC051A03F	D	C05	4	1	BARIUM	Y	1	2003	60.6	UG/L	
FD01130301F	D	C05	4	1	BARIUM	Y	1	2003	61.2	UG/L	
DC053A03F	D	C05	4	1	BARIUM	Y	3	2003	63.7	UG/L	EJ
DC061A03F	D	C06	5	1	BARIUM	Y	1	2003	32.1	UG/L	
DC063A03F	D	C06	5	1	BARIUM	Y	3	2003	25.1	UG/L	EJ
DC071A03F	D	C07	6	1	BARIUM	Y	1	2003	239	UG/L	
DC073A03F	D	C07	6	1	BARIUM	Y	3	2003	241	UG/L	EJ
DC081A03F	D	C08	7	1	BARIUM	Y	1	2003	30.7	UG/L	
DC083A03F	D	C08	7	1	BARIUM	Y	3	2003	30.6	UG/L	EJ
DC03P21A03	D	C03P2	1	2	BARIUM	N	1	2003	170	UG/L	
FD01090301	D	C03P2	1	2	BARIUM	N	1	2003	190	UG/L	
DC03P23A03	D	C03P2	1	2	BARIUM	N	3	2003	89.5	UG/L	
DC04P21A03	D	C04P2	2	2	BARIUM	N	1	2003	43.4	UG/L	
DC04P23A03	D	C04P2	2	2	BARIUM	N	3	2003	33.3	UG/L	
DC06P21A03	D	C06P2	3	2	BARIUM	N	1	2003	13	UG/L	
DC06P23A03	D	C06P2	3	2	BARIUM	N	3	2003	12.5	UG/L	
DC08P23A03	D	C08P2	4	2	BARIUM	N	3	2003	10.8	UG/L	
DC03P21A03F	D	C03P2	1	2	BARIUM	Y	1	2003	77.4	UG/L	
FD01090301F	D	C03P2	1	2	BARIUM	Y	1	2003	76.8	UG/L	
DC03P23A03F	D	C03P2	1	2	BARIUM	Y	3	2003	80.5	UG/L	EJ
DC04P21A03F	D	C04P2	2	2	BARIUM	Y	1	2003	37.6	UG/L	
DC04P23A03F	D	C04P2	2	2	BARIUM	Y	3	2003	27.9	UG/L	EJ
DC06P21A03F	D	C06P2	3	2	BARIUM	Y	1	2003	12.8	UG/L	
DC06P23A03F	D	C06P2	3	2	BARIUM	Y	3	2003	11.3	UG/L	EJ
DC08P23A03F	D	C08P2	4	2	BARIUM	Y	3	2003	10.7	UG/L	EJ
OC081A03	O	C08	1	1	BARIUM	N	1	2003	40.5	UG/L	
OC082A03	O	C08	1	1	BARIUM	N	2	2003	36.4	UG/L	
OC083A03	O	C08	1	1	BARIUM	N	3	2003	38	UG/L	
OC084A03	O	C08	1	1	BARIUM	N	4	2003	35.5	UG/L	
OC111A03	O	C11	2	1	BARIUM	N	1	2003	51.7	UG/L	
OC112A03	O	C11	2	1	BARIUM	N	2	2003	58.4	UG/L	
OC113A03	O	C11	2	1	BARIUM	N	3	2003	37.6	UG/L	
OC114A03	O	C11	2	1	BARIUM	N	4	2003	45.3	UG/L	
OC121A03	O	C12	3	1	BARIUM	N	1	2003	37.4	UG/L	
OC122A03	O	C12	3	1	BARIUM	N	2	2003	36.5	UG/L	
FD04290301	O	C12	3	1	BARIUM	N	2	2003	36.1	UG/L	
OC123A03	O	C12	3	1	BARIUM	N	3	2003	35.9	UG/L	
OC124A03	O	C12	3	1	BARIUM	N	4	2003	32.5	UG/L	
FD10150301	O	C12	3	1	BARIUM	N	4	2003	31.6	UG/L	

Table 7.12. Raw Data for Barium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC131A03	O	C13	4	1	BARIUM	N	1	2003	80.5	UG/L	
OC132A03	O	C13	4	1	BARIUM	N	2	2003	74.3	UG/L	
OC133A03	O	C13	4	1	BARIUM	N	3	2003	70	UG/L	
OC134A03	O	C13	4	1	BARIUM	N	4	2003	65.2	UG/L	
OC141A03	O	C14	5	1	BARIUM	N	1	2003	35.7	UG/L	
OC142A03	O	C14	5	1	BARIUM	N	2	2003	29.7	UG/L	
OC143A03	O	C14	5	1	BARIUM	N	3	2003	24.8	UG/L	
OC144A03	O	C14	5	1	BARIUM	N	4	2003	21.4	UG/L	
OC151A03	O	C15	6	1	BARIUM	N	1	2003	28.7	UG/L	
FD01290301	O	C15	6	1	BARIUM	N	1	2003	29.1	UG/L	
OC152A03	O	C15	6	1	BARIUM	N	2	2003	29.1	UG/L	
FD05070301	O	C15	6	1	BARIUM	N	2	2003	29.1	UG/L	
FD08120301	O	C15	6	1	BARIUM	N	3	2003	27	UG/L	
OC153A03	O	C15	6	1	BARIUM	N	3	2003	27.5	UG/L	
FD10300301	O	C15	6	1	BARIUM	N	4	2003	26.1	UG/L	
OC154A03	O	C15	6	1	BARIUM	N	4	2003	27.2	UG/L	
OC161A03	O	C16	7	1	BARIUM	N	1	2003	101	UG/L	
FD02130301	O	C16	7	1	BARIUM	N	1	2003	100	UG/L	
OC162A03	O	C16	7	1	BARIUM	N	2	2003	104	UG/L	
OC163A03	O	C16	7	1	BARIUM	N	3	2003	95.5	UG/L	
OC164A03	O	C16	7	1	BARIUM	N	4	2003	93.1	UG/L	
OC181A03	O	C18	8	1	BARIUM	N	1	2003	95.2	UG/L	
OC182A03	O	C18	8	1	BARIUM	N	2	2003	92.9	UG/L	
OC183A03	O	C18	8	1	BARIUM	N	3	2003	89.7	UG/L	
OC184A03	O	C18	8	1	BARIUM	N	4	2003	84.9	UG/L	
OC191A03	O	C19	9	1	BARIUM	N	1	2003	39.5	UG/L	
OC192A03	O	C19	9	1	BARIUM	N	2	2003	38.8	UG/L	
FD08200301	O	C19	9	1	BARIUM	N	3	2003	45.5	UG/L	
OC193A03	O	C19	9	1	BARIUM	N	3	2003	45.9	UG/L	
OC194A03	O	C19	9	1	BARIUM	N	4	2003	39.7	UG/L	
OC081A03F	O	C08	1	1	BARIUM	Y	1	2003	33.6	UG/L	
OC082A03F	O	C08	1	1	BARIUM	Y	2	2003	31.9	UG/L	
OC083A03F	O	C08	1	1	BARIUM	Y	3	2003	30.1	UG/L	
OC084A03F	O	C08	1	1	BARIUM	Y	4	2003	32.9	UG/L	
OC111A03F	O	C11	2	1	BARIUM	Y	1	2003	26.6	UG/L	
OC112A03F	O	C11	2	1	BARIUM	Y	2	2003	44.9	UG/L	
OC113A03F	O	C11	2	1	BARIUM	Y	3	2003	18.9	UG/L	
OC114A03F	O	C11	2	1	BARIUM	Y	4	2003	15.7	UG/L	
OC121A03F	O	C12	3	1	BARIUM	Y	1	2003	39.3	UG/L	
OC122A03F	O	C12	3	1	BARIUM	Y	2	2003	37.8	UG/L	
FD04290301F	O	C12	3	1	BARIUM	Y	2	2003	39.8	UG/L	
OC123A03F	O	C12	3	1	BARIUM	Y	3	2003	35.2	UG/L	
FD10150301F	O	C12	3	1	BARIUM	Y	4	2003	31.2	UG/L	
OC124A03F	O	C12	3	1	BARIUM	Y	4	2003	31.7	UG/L	

Table 7.12. Raw Data for Barium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC131A03F	O	C13	4	1	BARIUM	Y	1	2003	59	UG/L	
OC132A03F	O	C13	4	1	BARIUM	Y	2	2003	56.1	UG/L	
OC133A03F	O	C13	4	1	BARIUM	Y	3	2003	54.9	UG/L	
OC134A03F	O	C13	4	1	BARIUM	Y	4	2003	56	UG/L	
OC141A03F	O	C14	5	1	BARIUM	Y	1	2003	21.7	UG/L	
OC142A03F	O	C14	5	1	BARIUM	Y	2	2003	22.7	UG/L	
OC143A03F	O	C14	5	1	BARIUM	Y	3	2003	21.5	UG/L	
OC144A03F	O	C14	5	1	BARIUM	Y	4	2003	19.4	UG/L	
OC151A03F	O	C15	6	1	BARIUM	Y	1	2003	29.6	UG/L	
FD05070301F	O	C15	6	1	BARIUM	Y	2	2003	27.4	UG/L	
OC152A03F	O	C15	6	1	BARIUM	Y	2	2003	28.8	UG/L	
OC153A03F	O	C15	6	1	BARIUM	Y	3	2003	26.9	UG/L	
FD08120301F	O	C15	6	1	BARIUM	Y	3	2003	26.9	UG/L	
FD10300301F	O	C15	6	1	BARIUM	Y	4	2003	26.9	UG/L	
OC154A03F	O	C15	6	1	BARIUM	Y	4	2003	26.7	UG/L	
OC161A03F	O	C16	7	1	BARIUM	Y	1	2003	27	UG/L	
FD02130301F	O	C16	7	1	BARIUM	Y	1	2003	99.6	UG/L	
FD01290301F	O	C16	7	1	BARIUM	Y	1	2003	29.7	UG/L	
OC162A03F	O	C16	7	1	BARIUM	Y	2	2003	93.7	UG/L	
OC163A03F	O	C16	7	1	BARIUM	Y	3	2003	89.7	UG/L	
OC164A03F	O	C16	7	1	BARIUM	Y	4	2003	93.9	UG/L	
OC181A03F	O	C18	8	1	BARIUM	Y	1	2003	98.8	UG/L	
OC182A03F	O	C18	8	1	BARIUM	Y	2	2003	90	UG/L	
OC183A03F	O	C18	8	1	BARIUM	Y	3	2003	86	UG/L	
OC184A03F	O	C18	8	1	BARIUM	Y	4	2003	89.6	UG/L	
OC191A03F	O	C19	9	1	BARIUM	Y	1	2003	40.7	UG/L	
OC192A03F	O	C19	9	1	BARIUM	Y	2	2003	36.7	UG/L	
FD08200301F	O	C19	9	1	BARIUM	Y	3	2003	42.5	UG/L	
OC193A03F	O	C19	9	1	BARIUM	Y	3	2003	42.5	UG/L	
OC194A03F	O	C19	9	1	BARIUM	Y	4	2003	40.5	UG/L	
OC11P21A03	O	C11P2	1	2	BARIUM	N	1	2003	35.5	UG/L	
OC11P22A03	O	C11P2	1	2	BARIUM	N	2	2003	35.4	UG/L	
OC11P23A03	O	C11P2	1	2	BARIUM	N	3	2003	32.3	UG/L	
OC11P24A03	O	C11P2	1	2	BARIUM	N	4	2003	29.7	UG/L	
OC13P21A03	O	C13P2	2	2	BARIUM	N	1	2003	55.8	UG/L	
OC13P22A03	O	C13P2	2	2	BARIUM	N	2	2003	55.7	UG/L	
OC13P23A03	O	C13P2	2	2	BARIUM	N	3	2003	57.5	UG/L	
OC13P24A03	O	C13P2	2	2	BARIUM	N	4	2003	57.3	UG/L	
OC14P21A03	O	C14P2	3	2	BARIUM	N	1	2003	35.3	UG/L	
OC14P22A03	O	C14P2	3	2	BARIUM	N	2	2003	35.3	UG/L	
OC14P23A03	O	C14P2	3	2	BARIUM	N	3	2003	38.2	UG/L	
OC14P24A03	O	C14P2	3	2	BARIUM	N	4	2003	41.3	UG/L	
OC18P21A03	O	C18P2	4	2	BARIUM	N	1	2003	156	UG/L	
OC18P22A03	O	C18P2	4	2	BARIUM	N	2	2003	135	UG/L	

Table 7.12. Raw Data for Barium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC18P23A03	O	C18P2	4	2	BARIUM	N	3	2003	121	UG/L	
OC18P24A03	O	C18P2	4	2	BARIUM	N	4	2003	120	UG/L	
OC19P21A03	O	C19P2	5	2	BARIUM	N	1	2003	36.7	UG/L	
OC19P22A03	O	C19P2	5	2	BARIUM	N	2	2003	36.3	UG/L	
OC19P23A03	O	C19P2	5	2	BARIUM	N	3	2003	34.7	UG/L	
OC19P24A03	O	C19P2	5	2	BARIUM	N	4	2003	34.7	UG/L	
OC11P21A03F	O	C11P2	1	2	BARIUM	Y	1	2003	33.8	UG/L	
OC11P22A03F	O	C11P2	1	2	BARIUM	Y	2	2003	33.8	UG/L	
OC11P23A03F	O	C11P2	1	2	BARIUM	Y	3	2003	31	UG/L	
OC11P24A03F	O	C11P2	1	2	BARIUM	Y	4	2003	29.2	UG/L	
OC13P21A03F	O	C13P2	2	2	BARIUM	Y	1	2003	58.6	UG/L	
OC13P22A03F	O	C13P2	2	2	BARIUM	Y	2	2003	53.6	UG/L	
OC13P23A03F	O	C13P2	2	2	BARIUM	Y	3	2003	56	UG/L	
OC13P24A03F	O	C13P2	2	2	BARIUM	Y	4	2003	56	UG/L	
OC14P21A03F	O	C14P2	3	2	BARIUM	Y	1	2003	37.8	UG/L	
OC14P22A03F	O	C14P2	3	2	BARIUM	Y	2	2003	35	UG/L	
OC14P23A03F	O	C14P2	3	2	BARIUM	Y	3	2003	37.1	UG/L	
OC14P24A03F	O	C14P2	3	2	BARIUM	Y	4	2003	40.9	UG/L	
OC18P21A03F	O	C18P2	4	2	BARIUM	Y	1	2003	154	UG/L	
OC18P22A03F	O	C18P2	4	2	BARIUM	Y	2	2003	128	UG/L	
OC18P23A03F	O	C18P2	4	2	BARIUM	Y	3	2003	121	UG/L	
OC18P24A03F	O	C18P2	4	2	BARIUM	Y	4	2003	116	UG/L	
OC19P21A03F	O	C19P2	5	2	BARIUM	Y	1	2003	36.8	UG/L	
OC19P22A03F	O	C19P2	5	2	BARIUM	Y	2	2003	34.7	UG/L	
OC19P23A03F	O	C19P2	5	2	BARIUM	Y	3	2003	34.1	UG/L	
OC19P24A03F	O	C19P2	5	2	BARIUM	Y	4	2003	34.8	UG/L	

Table 7.13. Raw Data for Calcium.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03F	A	C02P2	1	1	CALCIUM	Y	1	2003	37100	UG/L	
AC02P22A03F	A	C02P2	1	1	CALCIUM	Y	2	2003	81300	UG/L	J
AC02P23A03F	A	C02P2	1	1	CALCIUM	Y	3	2003	111000	UG/L	
AC02P24A03F	A	C02P2	1	1	CALCIUM	Y	4	2003	42600	UG/L	
AC031A03F	A	C03	2	1	CALCIUM	Y	1	2003	1140	UG/L	
AC032A03F	A	C03	2	1	CALCIUM	Y	2	2003	1230	UG/L	
AC033A03F	A	C03	2	1	CALCIUM	Y	3	2003	1650	UG/L	
AC034A03F	A	C03	2	1	CALCIUM	Y	4	2003	1240	UG/L	
AC041A03F	A	C04	3	1	CALCIUM	Y	1	2003	132000	UG/L	
AC042A03F	A	C04	3	1	CALCIUM	Y	2	2003	141000	UG/L	J
AC043A03F	A	C04	3	1	CALCIUM	Y	3	2003	147000	UG/L	
AC044A03F	A	C04	3	1	CALCIUM	Y	4	2003	155000	UG/L	
AC071A03F	A	C07	4	1	CALCIUM	Y	1	2003	90000	UG/L	
AC072A03F	A	C07	4	1	CALCIUM	Y	2	2003	87200	UG/L	J

Table 7.13. Raw Data for Calcium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC073A03F	A	C07	4	1	CALCIUM	Y	3	2003	96800	UG/L	
AC074A03F	A	C07	4	1	CALCIUM	Y	4	2003	103000	UG/L	
AC08P21A03F	A	C08P2	5	1	CALCIUM	Y	1	2003	113000	UG/L	
AC08P22A03F	A	C08P2	5	1	CALCIUM	Y	2	2003	112000	UG/L	J
AC08P23A03F	A	C08P2	5	1	CALCIUM	Y	3	2003	127000	UG/L	
AC08P24A03F	A	C08P2	5	1	CALCIUM	Y	4	2003	134000	UG/L	
AC09P21A03F	A	C09P2	6	1	CALCIUM	Y	1	2003	63000	UG/L	
AC09P22A03F	A	C09P2	6	1	CALCIUM	Y	2	2003	62500	UG/L	J
AC09P23A03F	A	C09P2	6	1	CALCIUM	Y	3	2003	69000	UG/L	
FD08280301F	A	C09P2	6	1	CALCIUM	Y	3	2003	69600	UG/L	
AC09P24A03F	A	C09P2	6	1	CALCIUM	Y	4	2003	59500	UG/L	
AC151A03F	A	C15	7	1	CALCIUM	Y	1	2003	83800	UG/L	
FD03050301F	A	C15	7	1	CALCIUM	Y	1	2003	86000	UG/L	
AC152A03F	A	C15	7	1	CALCIUM	Y	2	2003	85400	UG/L	J
FD06170301F	A	C15	7	1	CALCIUM	Y	2	2003	86100	UG/L	J
AC153A03F	A	C15	7	1	CALCIUM	Y	3	2003	92200	UG/L	
FD09040301F	A	C15	7	1	CALCIUM	Y	3	2003	92500	UG/L	
AC154A03F	A	C15	7	1	CALCIUM	Y	4	2003	97000	UG/L	
FD12020301F	A	C15	7	1	CALCIUM	Y	4	2003	95300	UG/L	
AC171A03F	A	C17	8	1	CALCIUM	Y	1	2003	183000	UG/L	
FD03110301F	A	C17	8	1	CALCIUM	Y	1	2003	178000	UG/L	
AC172A03F	A	C17	8	1	CALCIUM	Y	2	2003	196000	UG/L	J
FD06190301F	A	C17	8	1	CALCIUM	Y	2	2003	188000	UG/L	J
AC173A03F	A	C17	8	1	CALCIUM	Y	3	2003	196000	UG/L	
AC174A03F	A	C17	8	1	CALCIUM	Y	4	2003	195000	UG/L	
AC201A03F	A	C20	9	1	CALCIUM	Y	1	2003	87100	UG/L	
AC202A03F	A	C20	9	1	CALCIUM	Y	2	2003	85700	UG/L	J
AC203A03F	A	C20	9	1	CALCIUM	Y	3	2003	95700	UG/L	
AC204A03F	A	C20	9	1	CALCIUM	Y	4	2003	101000	UG/L	
AC252A03F	A	C25	10	1	CALCIUM	Y	2	2003	91500	UG/L	J
AC253A03F	A	C25	10	1	CALCIUM	Y	3	2003	94900	UG/L	
AC254A03F	A	C25	10	1	CALCIUM	Y	4	2003	99000	UG/L	
AC261A03F	A	C26	11	1	CALCIUM	Y	1	2003	88700	UG/L	
AC262A03F	A	C26	11	1	CALCIUM	Y	2	2003	88500	UG/L	J
AC263A03F	A	C26	11	1	CALCIUM	Y	3	2003	95400	UG/L	
AC264A03F	A	C26	11	1	CALCIUM	Y	4	2003	104000	UG/L	
AC272A03F	A	C27	12	1	CALCIUM	Y	2	2003	47000	UG/L	J
AC273A03F	A	C27	12	1	CALCIUM	Y	3	2003	54300	UG/L	
AC274A03F	A	C27	12	1	CALCIUM	Y	4	2003	60100	UG/L	
AC301A03F	A	C30	13	1	CALCIUM	Y	1	2003	63400	UG/L	
AC302A03F	A	C30	13	1	CALCIUM	Y	2	2003	56600	UG/L	J
AC303A03F	A	C30	13	1	CALCIUM	Y	3	2003	35500	UG/L	
AC304A03F	A	C30	13	1	CALCIUM	Y	4	2003	32800	UG/L	
ASPA1A03F	A	SPA	14	1	CALCIUM	Y	1	2003	11700	UG/L	

Table 7.13. Raw Data for Calcium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
ASPA2A03F	A	SPA	14	1	CALCIUM	Y	2	2003	44200	UG/L	J
ASPA3A03F	A	SPA	14	1	CALCIUM	Y	3	2003	61200	UG/L	
ASPA4A03F	A	SPA	14	1	CALCIUM	Y	4	2003	17900	UG/L	
ASPC1A03F	A	SPC	15	1	CALCIUM	Y	1	2003	12800	UG/L	
ASPC2A03F	A	SPC	15	1	CALCIUM	Y	2	2003	40800	UG/L	J
ASPC3A03F	A	SPC	15	1	CALCIUM	Y	3	2003	53500	UG/L	
ASPC4A03F	A	SPC	15	1	CALCIUM	Y	4	2003	18900	UG/L	
FD12180301F	A	SPC	15	1	CALCIUM	Y	4	2003	18700	UG/L	

Table 7.14. Raw Data for Chromium.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03	A	C02P2	1	1	CHROMIUM	N	1	2003	5.6	UG/L	U
AC02P22A03	A	C02P2	1	1	CHROMIUM	N	2	2003	5.6	UG/L	U
AC02P23A03	A	C02P2	1	1	CHROMIUM	N	3	2003	5.6	UG/L	U
AC02P24A03	A	C02P2	1	1	CHROMIUM	N	4	2003	5.6	UG/L	U
AC031A03	A	C03	2	1	CHROMIUM	N	1	2003	5.6	UG/L	U
AC032A03	A	C03	2	1	CHROMIUM	N	2	2003	5.6	UG/L	U
AC033A03	A	C03	2	1	CHROMIUM	N	3	2003	5.6	UG/L	U
AC034A03	A	C03	2	1	CHROMIUM	N	4	2003	5.6	UG/L	U
AC041A03	A	C04	3	1	CHROMIUM	N	1	2003	5.6	UG/L	U
AC042A03	A	C04	3	1	CHROMIUM	N	2	2003	5.6	UG/L	U
AC043A03	A	C04	3	1	CHROMIUM	N	3	2003	5.6	UG/L	U
AC044A03	A	C04	3	1	CHROMIUM	N	4	2003	5.6	UG/L	U
AC071A03	A	C07	4	1	CHROMIUM	N	1	2003	5.6	UG/L	U
AC072A03	A	C07	4	1	CHROMIUM	N	2	2003	5.6	UG/L	U
AC073A03	A	C07	4	1	CHROMIUM	N	3	2003	5.6	UG/L	U
AC074A03	A	C07	4	1	CHROMIUM	N	4	2003	5.6	UG/L	U
AC08P21A03	A	C08P2	5	1	CHROMIUM	N	1	2003	5.6	UG/L	U
AC08P22A03	A	C08P2	5	1	CHROMIUM	N	2	2003	5.6	UG/L	U
AC08P23A03	A	C08P2	5	1	CHROMIUM	N	3	2003	5.6	UG/L	U
AC08P24A03	A	C08P2	5	1	CHROMIUM	N	4	2003	5.6	UG/L	U
AC09P21A03	A	C09P2	6	1	CHROMIUM	N	1	2003	5.6	UG/L	U
AC09P22A03	A	C09P2	6	1	CHROMIUM	N	2	2003	5.6	UG/L	U
AC09P23A03	A	C09P2	6	1	CHROMIUM	N	3	2003	5.6	UG/L	U
FD08280301	A	C09P2	6	1	CHROMIUM	N	3	2003	5.6	UG/L	U
AC09P24A03	A	C09P2	6	1	CHROMIUM	N	4	2003	5.6	UG/L	U
AC151A03	A	C15	7	1	CHROMIUM	N	1	2003	5.6	UG/L	U
FD03050301	A	C15	7	1	CHROMIUM	N	1	2003	5.6	UG/L	U
AC152A03	A	C15	7	1	CHROMIUM	N	2	2003	5.6	UG/L	U
FD06170301	A	C15	7	1	CHROMIUM	N	2	2003	5.6	UG/L	U
AC153A03	A	C15	7	1	CHROMIUM	N	3	2003	5.6	UG/L	U
FD09040301	A	C15	7	1	CHROMIUM	N	3	2003	5.6	UG/L	U
AC154A03	A	C15	7	1	CHROMIUM	N	4	2003	5.6	UG/L	U

Table 7.14. Raw Data for Chromium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
FD12020301	A	C15	7	1	CHROMIUM	N	4	2003	5.6	UG/L	U
AC171A03	A	C17	8	1	CHROMIUM	N	1	2003	5.6	UG/L	U
FD03110301	A	C17	8	1	CHROMIUM	N	1	2003	5.6	UG/L	U
AC172A03	A	C17	8	1	CHROMIUM	N	2	2003	5.6	UG/L	U
FD06190301	A	C17	8	1	CHROMIUM	N	2	2003	5.6	UG/L	U
AC173A03	A	C17	8	1	CHROMIUM	N	3	2003	5.6	UG/L	U
AC174A03	A	C17	8	1	CHROMIUM	N	4	2003	5.6	UG/L	U
AC201A03	A	C20	9	1	CHROMIUM	N	1	2003	5.6	UG/L	U
AC202A03	A	C20	9	1	CHROMIUM	N	2	2003	5.6	UG/L	U
AC203A03	A	C20	9	1	CHROMIUM	N	3	2003	5.6	UG/L	U
AC204A03	A	C20	9	1	CHROMIUM	N	4	2003	5.6	UG/L	U
AC252A03	A	C25	10	1	CHROMIUM	N	2	2003	5.6	UG/L	U
AC253A03	A	C25	10	1	CHROMIUM	N	3	2003	5.6	UG/L	U
AC254A03	A	C25	10	1	CHROMIUM	N	4	2003	5.6	UG/L	U
AC261A03	A	C26	11	1	CHROMIUM	N	1	2003	5.6	UG/L	U
AC262A03	A	C26	11	1	CHROMIUM	N	2	2003	5.6	UG/L	U
AC263A03	A	C26	11	1	CHROMIUM	N	3	2003	5.6	UG/L	U
AC264A03	A	C26	11	1	CHROMIUM	N	4	2003	5.6	UG/L	U
AC272A03	A	C27	12	1	CHROMIUM	N	2	2003	5.6	UG/L	U
AC273A03	A	C27	12	1	CHROMIUM	N	3	2003	5.6	UG/L	U
AC274A03	A	C27	12	1	CHROMIUM	N	4	2003	5.6	UG/L	U
AC301A03	A	C30	13	1	CHROMIUM	N	1	2003	5.6	UG/L	U
AC302A03	A	C30	13	1	CHROMIUM	N	2	2003	5.6	UG/L	U
AC303A03	A	C30	13	1	CHROMIUM	N	3	2003	5.6	UG/L	U
AC304A03	A	C30	13	1	CHROMIUM	N	4	2003	5.6	UG/L	U
ASPA1A03	A	SPA	14	1	CHROMIUM	N	1	2003	5.6	UG/L	U
ASPA2A03	A	SPA	14	1	CHROMIUM	N	2	2003	5.6	UG/L	U
ASPA3A03	A	SPA	14	1	CHROMIUM	N	3	2003	5.6	UG/L	U
ASPA4A03	A	SPA	14	1	CHROMIUM	N	4	2003	5.6	UG/L	U
ASPC1A03	A	SPC	15	1	CHROMIUM	N	1	2003	5.6	UG/L	U
ASPC2A03	A	SPC	15	1	CHROMIUM	N	2	2003	5.6	UG/L	U
ASPC3A03	A	SPC	15	1	CHROMIUM	N	3	2003	5.6	UG/L	U
ASPC4A03	A	SPC	15	1	CHROMIUM	N	4	2003	5.6	UG/L	U
FD12180301	A	SPC	15	1	CHROMIUM	N	4	2003	5.6	UG/L	U
AC02P21A03F	A	C02P2	1	1	CHROMIUM	Y	1	2003	5	UG/L	U
AC02P22A03F	A	C02P2	1	1	CHROMIUM	Y	2	2003	5	UG/L	U
AC02P23A03F	A	C02P2	1	1	CHROMIUM	Y	3	2003	5	UG/L	U
AC02P24A03F	A	C02P2	1	1	CHROMIUM	Y	4	2003	5	UG/L	U
AC031A03F	A	C03	2	1	CHROMIUM	Y	1	2003	5	UG/L	U
AC032A03F	A	C03	2	1	CHROMIUM	Y	2	2003	5	UG/L	U
AC033A03F	A	C03	2	1	CHROMIUM	Y	3	2003	5	UG/L	U
AC034A03F	A	C03	2	1	CHROMIUM	Y	4	2003	5	UG/L	U
AC041A03F	A	C04	3	1	CHROMIUM	Y	1	2003	5	UG/L	U
AC042A03F	A	C04	3	1	CHROMIUM	Y	2	2003	5	UG/L	U

Table 7.14. Raw Data for Chromium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC043A03F	A	C04	3	1	CHROMIUM	Y	3	2003	5	UG/L	U
AC044A03F	A	C04	3	1	CHROMIUM	Y	4	2003	5	UG/L	U
AC071A03F	A	C07	4	1	CHROMIUM	Y	1	2003	5	UG/L	U
AC072A03F	A	C07	4	1	CHROMIUM	Y	2	2003	5	UG/L	U
AC073A03F	A	C07	4	1	CHROMIUM	Y	3	2003	5	UG/L	U
AC074A03F	A	C07	4	1	CHROMIUM	Y	4	2003	5	UG/L	U
AC08P21A03F	A	C08P2	5	1	CHROMIUM	Y	1	2003	5	UG/L	U
AC08P22A03F	A	C08P2	5	1	CHROMIUM	Y	2	2003	5	UG/L	U
AC08P23A03F	A	C08P2	5	1	CHROMIUM	Y	3	2003	5	UG/L	U
AC08P24A03F	A	C08P2	5	1	CHROMIUM	Y	4	2003	5	UG/L	U
AC09P21A03F	A	C09P2	6	1	CHROMIUM	Y	1	2003	5	UG/L	U
AC09P22A03F	A	C09P2	6	1	CHROMIUM	Y	2	2003	5	UG/L	U
AC09P23A03F	A	C09P2	6	1	CHROMIUM	Y	3	2003	5	UG/L	U
FD08280301F	A	C09P2	6	1	CHROMIUM	Y	3	2003	5	UG/L	U
AC09P24A03F	A	C09P2	6	1	CHROMIUM	Y	4	2003	5	UG/L	U
AC151A03F	A	C15	7	1	CHROMIUM	Y	1	2003	5	UG/L	U
FD03050301F	A	C15	7	1	CHROMIUM	Y	1	2003	5	UG/L	U
AC152A03F	A	C15	7	1	CHROMIUM	Y	2	2003	5	UG/L	U
FD06170301F	A	C15	7	1	CHROMIUM	Y	2	2003	5	UG/L	U
AC153A03F	A	C15	7	1	CHROMIUM	Y	3	2003	5	UG/L	U
FD09040301F	A	C15	7	1	CHROMIUM	Y	3	2003	5	UG/L	U
AC154A03F	A	C15	7	1	CHROMIUM	Y	4	2003	5	UG/L	U
FD12020301F	A	C15	7	1	CHROMIUM	Y	4	2003	5	UG/L	U
AC171A03F	A	C17	8	1	CHROMIUM	Y	1	2003	5	UG/L	U
FD03110301F	A	C17	8	1	CHROMIUM	Y	1	2003	5	UG/L	U
AC172A03F	A	C17	8	1	CHROMIUM	Y	2	2003	5	UG/L	U
FD06190301F	A	C17	8	1	CHROMIUM	Y	2	2003	5	UG/L	U
AC173A03F	A	C17	8	1	CHROMIUM	Y	3	2003	5	UG/L	U
AC174A03F	A	C17	8	1	CHROMIUM	Y	4	2003	5	UG/L	U
AC201A03F	A	C20	9	1	CHROMIUM	Y	1	2003	5	UG/L	U
AC202A03F	A	C20	9	1	CHROMIUM	Y	2	2003	5	UG/L	U
AC203A03F	A	C20	9	1	CHROMIUM	Y	3	2003	5	UG/L	U
AC204A03F	A	C20	9	1	CHROMIUM	Y	4	2003	5	UG/L	U
AC252A03F	A	C25	10	1	CHROMIUM	Y	2	2003	5	UG/L	U
AC253A03F	A	C25	10	1	CHROMIUM	Y	3	2003	5	UG/L	U
AC254A03F	A	C25	10	1	CHROMIUM	Y	4	2003	5	UG/L	U
AC261A03F	A	C26	11	1	CHROMIUM	Y	1	2003	5	UG/L	U
AC262A03F	A	C26	11	1	CHROMIUM	Y	2	2003	5	UG/L	U
AC263A03F	A	C26	11	1	CHROMIUM	Y	3	2003	5	UG/L	U
AC264A03F	A	C26	11	1	CHROMIUM	Y	4	2003	5	UG/L	U
AC272A03F	A	C27	12	1	CHROMIUM	Y	2	2003	5	UG/L	U
AC273A03F	A	C27	12	1	CHROMIUM	Y	3	2003	5	UG/L	U
AC274A03F	A	C27	12	1	CHROMIUM	Y	4	2003	5	UG/L	U
AC301A03F	A	C30	13	1	CHROMIUM	Y	1	2003	5	UG/L	U

Table 7.14. Raw Data for Chromium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC302A03F	A	C30	13	1	CHROMIUM	Y	2	2003	5	UG/L	U
AC303A03F	A	C30	13	1	CHROMIUM	Y	3	2003	5	UG/L	U
AC304A03F	A	C30	13	1	CHROMIUM	Y	4	2003	5	UG/L	U
ASPA1A03F	A	SPA	14	1	CHROMIUM	Y	1	2003	5	UG/L	U
ASPA2A03F	A	SPA	14	1	CHROMIUM	Y	2	2003	5	UG/L	U
ASPA3A03F	A	SPA	14	1	CHROMIUM	Y	3	2003	5	UG/L	U
ASPA4A03F	A	SPA	14	1	CHROMIUM	Y	4	2003	5	UG/L	U
ASPC1A03F	A	SPC	15	1	CHROMIUM	Y	1	2003	5	UG/L	U
ASPC2A03F	A	SPC	15	1	CHROMIUM	Y	2	2003	5	UG/L	U
ASPC3A03F	A	SPC	15	1	CHROMIUM	Y	3	2003	5	UG/L	U
ASPC4A03F	A	SPC	15	1	CHROMIUM	Y	4	2003	5	UG/L	U
FD12180301F	A	SPC	15	1	CHROMIUM	Y	4	2003	5	UG/L	U
DC021A03	D	C02	1	1	CHROMIUM	N	1	2003	1.1	UG/L	U
DC023A03	D	C02	1	1	CHROMIUM	N	3	2003	5.6	UG/L	U
DC031A03	D	C03	2	1	CHROMIUM	N	1	2003	1.1	UG/L	U
DC033A03	D	C03	2	1	CHROMIUM	N	3	2003	5.6	UG/L	U
FD07140301	D	C03	2	1	CHROMIUM	N	3	2003	5.6	UG/L	U
DC041A03	D	C04	3	1	CHROMIUM	N	1	2003	1.1	UG/L	U
DC043A03	D	C04	3	1	CHROMIUM	N	3	2003	5.6	UG/L	U
FD07090301	D	C04	3	1	CHROMIUM	N	3	2003	5.6	UG/L	U
DC051A03	D	C05	4	1	CHROMIUM	N	1	2003	1.1	UG/L	U
FD01130301	D	C05	4	1	CHROMIUM	N	1	2003	1.1	UG/L	U
DC053A03	D	C05	4	1	CHROMIUM	N	3	2003	5.6	UG/L	U
DC061A03	D	C06	5	1	CHROMIUM	N	1	2003	1.1	UG/L	U
DC063A03	D	C06	5	1	CHROMIUM	N	3	2003	5.6	UG/L	U
DC071A03	D	C07	6	1	CHROMIUM	N	1	2003	1.1	UG/L	U
DC073A03	D	C07	6	1	CHROMIUM	N	3	2003	5.6	UG/L	U
DC081A03	D	C08	7	1	CHROMIUM	N	1	2003	3.5	UG/L	
DC083A03	D	C08	7	1	CHROMIUM	N	3	2003	5.6	UG/L	U
DC021A03F	D	C02	1	1	CHROMIUM	Y	1	2003	1	UG/L	U
DC023A03F	D	C02	1	1	CHROMIUM	Y	3	2003	9.5	UG/L	
DC031A03F	D	C03	2	1	CHROMIUM	Y	1	2003	1	UG/L	U
DC033A03F	D	C03	2	1	CHROMIUM	Y	3	2003	5.4	UG/L	
FD07140301F	D	C03	2	1	CHROMIUM	Y	3	2003	5	UG/L	
DC041A03F	D	C04	3	1	CHROMIUM	Y	1	2003	1	UG/L	U
DC043A03F	D	C04	3	1	CHROMIUM	Y	3	2003	5.2	UG/L	
FD07090301F	D	C04	3	1	CHROMIUM	Y	3	2003	5.6	UG/L	
DC051A03F	D	C05	4	1	CHROMIUM	Y	1	2003	1	UG/L	U
FD01130301F	D	C05	4	1	CHROMIUM	Y	1	2003	1	UG/L	U
DC053A03F	D	C05	4	1	CHROMIUM	Y	3	2003	6.4	UG/L	
DC061A03F	D	C06	5	1	CHROMIUM	Y	1	2003	1	UG/L	U
DC063A03F	D	C06	5	1	CHROMIUM	Y	3	2003	7	UG/L	
DC071A03F	D	C07	6	1	CHROMIUM	Y	1	2003	1	UG/L	U
DC073A03F	D	C07	6	1	CHROMIUM	Y	3	2003	5.1	UG/L	

Table 7.14. Raw Data for Chromium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
DC081A03F	D	C08	7	1	CHROMIUM	Y	1	2003	1	UG/L	U
DC083A03F	D	C08	7	1	CHROMIUM	Y	3	2003	8.7	UG/L	
DC03P21A03	D	C03P2	1	2	CHROMIUM	N	1	2003	20.5	UG/L	
FD01090301	D	C03P2	1	2	CHROMIUM	N	1	2003	30.2	UG/L	
DC03P23A03	D	C03P2	1	2	CHROMIUM	N	3	2003	5.6	UG/L	U
DC04P21A03	D	C04P2	2	2	CHROMIUM	N	1	2003	1.1	UG/L	U
DC04P23A03	D	C04P2	2	2	CHROMIUM	N	3	2003	5.6	UG/L	U
DC06P21A03	D	C06P2	3	2	CHROMIUM	N	1	2003	1.1	UG/L	U
DC06P23A03	D	C06P2	3	2	CHROMIUM	N	3	2003	5.6	UG/L	U
DC08P23A03	D	C08P2	4	2	CHROMIUM	N	3	2003	5.6	UG/L	U
DC03P21A03F	D	C03P2	1	2	CHROMIUM	Y	1	2003	1	UG/L	U
FD01090301F	D	C03P2	1	2	CHROMIUM	Y	1	2003	1	UG/L	U
DC03P23A03F	D	C03P2	1	2	CHROMIUM	Y	3	2003	5.4	UG/L	
DC04P21A03F	D	C04P2	2	2	CHROMIUM	Y	1	2003	1	UG/L	U
DC04P23A03F	D	C04P2	2	2	CHROMIUM	Y	3	2003	7.5	UG/L	
DC06P21A03F	D	C06P2	3	2	CHROMIUM	Y	1	2003	1	UG/L	U
DC06P23A03F	D	C06P2	3	2	CHROMIUM	Y	3	2003	5	UG/L	U
DC08P23A03F	D	C08P2	4	2	CHROMIUM	Y	3	2003	5	UG/L	U
OC081A03	O	C08	1	1	CHROMIUM	N	1	2003	5.6	UG/L	U
OC082A03	O	C08	1	1	CHROMIUM	N	2	2003	5.6	UG/L	U
OC083A03	O	C08	1	1	CHROMIUM	N	3	2003	5.6	UG/L	U
OC084A03	O	C08	1	1	CHROMIUM	N	4	2003	5.6	UG/L	U
OC111A03	O	C11	2	1	CHROMIUM	N	1	2003	5.6	UG/L	U
OC112A03	O	C11	2	1	CHROMIUM	N	2	2003	5.6	UG/L	U
OC113A03	O	C11	2	1	CHROMIUM	N	3	2003	5.6	UG/L	U
OC114A03	O	C11	2	1	CHROMIUM	N	4	2003	5.6	UG/L	U
OC121A03	O	C12	3	1	CHROMIUM	N	1	2003	5.6	UG/L	U
FD04290301	O	C12	3	1	CHROMIUM	N	2	2003	5.6	UG/L	U
OC122A03	O	C12	3	1	CHROMIUM	N	2	2003	5.6	UG/L	U
OC123A03	O	C12	3	1	CHROMIUM	N	3	2003	5.6	UG/L	U
FD10150301	O	C12	3	1	CHROMIUM	N	4	2003	5.6	UG/L	U
OC124A03	O	C12	3	1	CHROMIUM	N	4	2003	5.6	UG/L	U
OC131A03	O	C13	4	1	CHROMIUM	N	1	2003	5.6	UG/L	U
OC132A03	O	C13	4	1	CHROMIUM	N	2	2003	5.6	UG/L	U
OC133A03	O	C13	4	1	CHROMIUM	N	3	2003	5.6	UG/L	U
OC134A03	O	C13	4	1	CHROMIUM	N	4	2003	5.6	UG/L	U
OC141A03	O	C14	5	1	CHROMIUM	N	1	2003	14.9	UG/L	
OC142A03	O	C14	5	1	CHROMIUM	N	2	2003	9.1	UG/L	
OC143A03	O	C14	5	1	CHROMIUM	N	3	2003	5.6	UG/L	U
OC144A03	O	C14	5	1	CHROMIUM	N	4	2003	5.6	UG/L	U
FD01290301	O	C15	6	1	CHROMIUM	N	1	2003	5.6	UG/L	U
OC151A03	O	C15	6	1	CHROMIUM	N	1	2003	5.6	UG/L	U
FD05070301	O	C15	6	1	CHROMIUM	N	2	2003	5.6	UG/L	U
OC152A03	O	C15	6	1	CHROMIUM	N	2	2003	5.6	UG/L	U

Table 7.14. Raw Data for Chromium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
FD08120301	O	C15	6	1	CHROMIUM	N	3	2003	5.6	UG/L	U
OC153A03	O	C15	6	1	CHROMIUM	N	3	2003	5.6	UG/L	U
FD10300301	O	C15	6	1	CHROMIUM	N	4	2003	5.6	UG/L	U
OC154A03	O	C15	6	1	CHROMIUM	N	4	2003	5.6	UG/L	U
FD02130301	O	C16	7	1	CHROMIUM	N	1	2003	5.6	UG/L	U
OC161A03	O	C16	7	1	CHROMIUM	N	1	2003	5.6	UG/L	U
OC162A03	O	C16	7	1	CHROMIUM	N	2	2003	5.6	UG/L	U
OC163A03	O	C16	7	1	CHROMIUM	N	3	2003	5.6	UG/L	U
OC164A03	O	C16	7	1	CHROMIUM	N	4	2003	5.6	UG/L	U
OC181A03	O	C18	8	1	CHROMIUM	N	1	2003	5.6	UG/L	U
OC182A03	O	C18	8	1	CHROMIUM	N	2	2003	5.6	UG/L	U
OC183A03	O	C18	8	1	CHROMIUM	N	3	2003	5.6	UG/L	U
OC184A03	O	C18	8	1	CHROMIUM	N	4	2003	5.6	UG/L	U
OC191A03	O	C19	9	1	CHROMIUM	N	1	2003	5.6	UG/L	U
OC192A03	O	C19	9	1	CHROMIUM	N	2	2003	5.6	UG/L	U
FD08200301	O	C19	9	1	CHROMIUM	N	3	2003	5.6	UG/L	U
OC193A03	O	C19	9	1	CHROMIUM	N	3	2003	5.6	UG/L	U
OC194A03	O	C19	9	1	CHROMIUM	N	4	2003	5.6	UG/L	U
OC081A03F	O	C08	1	1	CHROMIUM	Y	1	2003	5	UG/L	U
OC082A03F	O	C08	1	1	CHROMIUM	Y	2	2003	5	UG/L	U
OC083A03F	O	C08	1	1	CHROMIUM	Y	3	2003	5	UG/L	U
OC084A03F	O	C08	1	1	CHROMIUM	Y	4	2003	5	UG/L	U
OC111A03F	O	C11	2	1	CHROMIUM	Y	1	2003	5	UG/L	U
OC112A03F	O	C11	2	1	CHROMIUM	Y	2	2003	5	UG/L	U
OC113A03F	O	C11	2	1	CHROMIUM	Y	3	2003	5	UG/L	U
OC114A03F	O	C11	2	1	CHROMIUM	Y	4	2003	5	UG/L	U
OC121A03F	O	C12	3	1	CHROMIUM	Y	1	2003	5	UG/L	U
FD04290301F	O	C12	3	1	CHROMIUM	Y	2	2003	5	UG/L	U
OC122A03F	O	C12	3	1	CHROMIUM	Y	2	2003	5	UG/L	U
OC123A03F	O	C12	3	1	CHROMIUM	Y	3	2003	5	UG/L	U
FD10150301F	O	C12	3	1	CHROMIUM	Y	4	2003	5	UG/L	U
OC124A03F	O	C12	3	1	CHROMIUM	Y	4	2003	5	UG/L	U
OC131A03F	O	C13	4	1	CHROMIUM	Y	1	2003	5	UG/L	U
OC132A03F	O	C13	4	1	CHROMIUM	Y	2	2003	5	UG/L	U
OC133A03F	O	C13	4	1	CHROMIUM	Y	3	2003	5	UG/L	U
OC134A03F	O	C13	4	1	CHROMIUM	Y	4	2003	5	UG/L	U
OC141A03F	O	C14	5	1	CHROMIUM	Y	1	2003	5	UG/L	U
OC142A03F	O	C14	5	1	CHROMIUM	Y	2	2003	5	UG/L	U
OC143A03F	O	C14	5	1	CHROMIUM	Y	3	2003	5	UG/L	U
OC144A03F	O	C14	5	1	CHROMIUM	Y	4	2003	5	UG/L	U
FD01290301F	O	C15	6	1	CHROMIUM	Y	1	2003	5	UG/L	U
OC151A03F	O	C15	6	1	CHROMIUM	Y	1	2003	5	UG/L	U
FD05070301F	O	C15	6	1	CHROMIUM	Y	2	2003	5	UG/L	U
OC152A03F	O	C15	6	1	CHROMIUM	Y	2	2003	5	UG/L	U

Table 7.14. Raw Data for Chromium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
FD08120301F	O	C15	6	1	CHROMIUM	Y	3	2003	5	UG/L	U
OC153A03F	O	C15	6	1	CHROMIUM	Y	3	2003	5	UG/L	U
FD10300301F	O	C15	6	1	CHROMIUM	Y	4	2003	5	UG/L	U
OC154A03F	O	C15	6	1	CHROMIUM	Y	4	2003	5	UG/L	U
FD02130301F	O	C16	7	1	CHROMIUM	Y	1	2003	5	UG/L	U
OC161A03F	O	C16	7	1	CHROMIUM	Y	1	2003	5	UG/L	U
OC162A03F	O	C16	7	1	CHROMIUM	Y	2	2003	5	UG/L	U
OC163A03F	O	C16	7	1	CHROMIUM	Y	3	2003	5	UG/L	U
OC164A03F	O	C16	7	1	CHROMIUM	Y	4	2003	5	UG/L	U
OC181A03F	O	C18	8	1	CHROMIUM	Y	1	2003	5	UG/L	U
OC182A03F	O	C18	8	1	CHROMIUM	Y	2	2003	5	UG/L	U
OC183A03F	O	C18	8	1	CHROMIUM	Y	3	2003	5	UG/L	U
OC184A03F	O	C18	8	1	CHROMIUM	Y	4	2003	5	UG/L	U
OC191A03F	O	C19	9	1	CHROMIUM	Y	1	2003	5	UG/L	U
OC192A03F	O	C19	9	1	CHROMIUM	Y	2	2003	5	UG/L	U
FD08200301F	O	C19	9	1	CHROMIUM	Y	3	2003	5	UG/L	U
OC193A03F	O	C19	9	1	CHROMIUM	Y	3	2003	5	UG/L	U
OC194A03F	O	C19	9	1	CHROMIUM	Y	4	2003	5	UG/L	U
OC11P21A03	O	C11P2	1	2	CHROMIUM	N	1	2003	5.6	UG/L	U
OC11P22A03	O	C11P2	1	2	CHROMIUM	N	2	2003	5.6	UG/L	U
OC11P23A03	O	C11P2	1	2	CHROMIUM	N	3	2003	5.6	UG/L	U
OC11P24A03	O	C11P2	1	2	CHROMIUM	N	4	2003	5.6	UG/L	U
OC13P21A03	O	C13P2	2	2	CHROMIUM	N	1	2003	5.6	UG/L	U
OC13P22A03	O	C13P2	2	2	CHROMIUM	N	2	2003	5.6	UG/L	U
OC13P23A03	O	C13P2	2	2	CHROMIUM	N	3	2003	5.6	UG/L	U
OC13P24A03	O	C13P2	2	2	CHROMIUM	N	4	2003	5.6	UG/L	U
OC14P21A03	O	C14P2	3	2	CHROMIUM	N	1	2003	5.6	UG/L	U
OC14P22A03	O	C14P2	3	2	CHROMIUM	N	2	2003	5.6	UG/L	U
OC14P23A03	O	C14P2	3	2	CHROMIUM	N	3	2003	5.6	UG/L	U
OC14P24A03	O	C14P2	3	2	CHROMIUM	N	4	2003	5.6	UG/L	U
OC18P21A03	O	C18P2	4	2	CHROMIUM	N	1	2003	5.6	UG/L	U
OC18P22A03	O	C18P2	4	2	CHROMIUM	N	2	2003	5.6	UG/L	U
OC18P23A03	O	C18P2	4	2	CHROMIUM	N	3	2003	5.6	UG/L	U
OC18P24A03	O	C18P2	4	2	CHROMIUM	N	4	2003	5.6	UG/L	U
OC19P21A03	O	C19P2	5	2	CHROMIUM	N	1	2003	5.6	UG/L	U
OC19P22A03	O	C19P2	5	2	CHROMIUM	N	2	2003	5.6	UG/L	U
OC19P23A03	O	C19P2	5	2	CHROMIUM	N	3	2003	5.6	UG/L	U
OC19P24A03	O	C19P2	5	2	CHROMIUM	N	4	2003	5.6	UG/L	U
OC11P21A03F	O	C11P2	1	2	CHROMIUM	Y	1	2003	5	UG/L	U
OC11P22A03F	O	C11P2	1	2	CHROMIUM	Y	2	2003	5	UG/L	U
OC11P23A03F	O	C11P2	1	2	CHROMIUM	Y	3	2003	5	UG/L	U
OC11P24A03F	O	C11P2	1	2	CHROMIUM	Y	4	2003	5	UG/L	U
OC13P21A03F	O	C13P2	2	2	CHROMIUM	Y	1	2003	5	UG/L	U
OC13P22A03F	O	C13P2	2	2	CHROMIUM	Y	2	2003	5	UG/L	U

Table 7.14. Raw Data for Chromium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC13P23A03F	O	C13P2	2	2	CHROMIUM	Y	3	2003	5	UG/L	U
OC13P24A03F	O	C13P2	2	2	CHROMIUM	Y	4	2003	5	UG/L	U
OC14P21A03F	O	C14P2	3	2	CHROMIUM	Y	1	2003	5	UG/L	U
OC14P22A03F	O	C14P2	3	2	CHROMIUM	Y	2	2003	5	UG/L	U
OC14P23A03F	O	C14P2	3	2	CHROMIUM	Y	3	2003	5	UG/L	U
OC14P24A03F	O	C14P2	3	2	CHROMIUM	Y	4	2003	5	UG/L	U
OC18P21A03F	O	C18P2	4	2	CHROMIUM	Y	1	2003	5	UG/L	U
OC18P22A03F	O	C18P2	4	2	CHROMIUM	Y	2	2003	5	UG/L	U
OC18P23A03F	O	C18P2	4	2	CHROMIUM	Y	3	2003	5	UG/L	U
OC18P24A03F	O	C18P2	4	2	CHROMIUM	Y	4	2003	5	UG/L	U
OC19P21A03F	O	C19P2	5	2	CHROMIUM	Y	1	2003	5	UG/L	U
OC19P22A03F	O	C19P2	5	2	CHROMIUM	Y	2	2003	5	UG/L	U
OC19P23A03F	O	C19P2	5	2	CHROMIUM	Y	3	2003	5	UG/L	U
OC19P24A03F	O	C19P2	5	2	CHROMIUM	Y	4	2003	5	UG/L	U

Table 7.15. Raw Data for Cobalt.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03	A	C02P2	1	1	COBALT	N	1	2003	3.3	UG/L	U
AC02P22A03	A	C02P2	1	1	COBALT	N	2	2003	3.3	UG/L	U
AC02P23A03	A	C02P2	1	1	COBALT	N	3	2003	3.3	UG/L	U
AC02P24A03	A	C02P2	1	1	COBALT	N	4	2003	3.3	UG/L	U
AC031A03	A	C03	2	1	COBALT	N	1	2003	3.3	UG/L	U
AC032A03	A	C03	2	1	COBALT	N	2	2003	3.3	UG/L	U
AC033A03	A	C03	2	1	COBALT	N	3	2003	3.3	UG/L	U
AC034A03	A	C03	2	1	COBALT	N	4	2003	3.3	UG/L	U
AC041A03	A	C04	3	1	COBALT	N	1	2003	3.3	UG/L	U
AC042A03	A	C04	3	1	COBALT	N	2	2003	3.3	UG/L	U
AC043A03	A	C04	3	1	COBALT	N	3	2003	3.3	UG/L	U
AC044A03	A	C04	3	1	COBALT	N	4	2003	3.3	UG/L	U
AC071A03	A	C07	4	1	COBALT	N	1	2003	3.3	UG/L	U
AC072A03	A	C07	4	1	COBALT	N	2	2003	3.3	UG/L	U
AC073A03	A	C07	4	1	COBALT	N	3	2003	3.3	UG/L	U
AC074A03	A	C07	4	1	COBALT	N	4	2003	3.3	UG/L	U
AC08P21A03	A	C08P2	5	1	COBALT	N	1	2003	3.3	UG/L	U
AC08P22A03	A	C08P2	5	1	COBALT	N	2	2003	3.3	UG/L	U
AC08P23A03	A	C08P2	5	1	COBALT	N	3	2003	3.3	UG/L	U
AC08P24A03	A	C08P2	5	1	COBALT	N	4	2003	3.3	UG/L	U
AC09P21A03	A	C09P2	6	1	COBALT	N	1	2003	3.3	UG/L	U
AC09P22A03	A	C09P2	6	1	COBALT	N	2	2003	3.3	UG/L	U
AC09P23A03	A	C09P2	6	1	COBALT	N	3	2003	3.3	UG/L	U
FD08280301	A	C09P2	6	1	COBALT	N	3	2003	3.3	UG/L	U
AC09P24A03	A	C09P2	6	1	COBALT	N	4	2003	3.3	UG/L	U
AC151A03	A	C15	7	1	COBALT	N	1	2003	3.3	UG/L	U

Table 7.15. Raw Data for Cobalt. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
FD03050301	A	C15	7	1	COBALT	N	1	2003	3.3	UG/L	U
AC152A03	A	C15	7	1	COBALT	N	2	2003	3.3	UG/L	U
FD06170301	A	C15	7	1	COBALT	N	2	2003	3.3	UG/L	U
AC153A03	A	C15	7	1	COBALT	N	3	2003	3.3	UG/L	U
FD09040301	A	C15	7	1	COBALT	N	3	2003	3.3	UG/L	U
AC154A03	A	C15	7	1	COBALT	N	4	2003	3.3	UG/L	U
FD12020301	A	C15	7	1	COBALT	N	4	2003	3.3	UG/L	U
AC171A03	A	C17	8	1	COBALT	N	1	2003	3.3	UG/L	U
FD03110301	A	C17	8	1	COBALT	N	1	2003	3.3	UG/L	U
AC172A03	A	C17	8	1	COBALT	N	2	2003	3.3	UG/L	U
FD06190301	A	C17	8	1	COBALT	N	2	2003	3.3	UG/L	U
AC173A03	A	C17	8	1	COBALT	N	3	2003	3.3	UG/L	U
AC174A03	A	C17	8	1	COBALT	N	4	2003	3.3	UG/L	U
AC201A03	A	C20	9	1	COBALT	N	1	2003	3.3	UG/L	U
AC202A03	A	C20	9	1	COBALT	N	2	2003	3.3	UG/L	U
AC203A03	A	C20	9	1	COBALT	N	3	2003	3.3	UG/L	U
AC204A03	A	C20	9	1	COBALT	N	4	2003	3.3	UG/L	U
AC252A03	A	C25	10	1	COBALT	N	2	2003	3.3	UG/L	U
AC253A03	A	C25	10	1	COBALT	N	3	2003	3.3	UG/L	U
AC254A03	A	C25	10	1	COBALT	N	4	2003	3.3	UG/L	U
AC261A03	A	C26	11	1	COBALT	N	1	2003	3.3	UG/L	U
AC262A03	A	C26	11	1	COBALT	N	2	2003	3.3	UG/L	U
AC263A03	A	C26	11	1	COBALT	N	3	2003	3.3	UG/L	U
AC264A03	A	C26	11	1	COBALT	N	4	2003	3.3	UG/L	U
AC272A03	A	C27	12	1	COBALT	N	2	2003	3.3	UG/L	U
AC273A03	A	C27	12	1	COBALT	N	3	2003	3.3	UG/L	U
AC274A03	A	C27	12	1	COBALT	N	4	2003	3.3	UG/L	U
AC301A03	A	C30	13	1	COBALT	N	1	2003	3.3	UG/L	U
AC302A03	A	C30	13	1	COBALT	N	2	2003	3.3	UG/L	U
AC303A03	A	C30	13	1	COBALT	N	3	2003	3.3	UG/L	U
AC304A03	A	C30	13	1	COBALT	N	4	2003	3.3	UG/L	U
ASPA1A03	A	SPA	14	1	COBALT	N	1	2003	3.3	UG/L	U
ASPA2A03	A	SPA	14	1	COBALT	N	2	2003	3.3	UG/L	U
ASPA3A03	A	SPA	14	1	COBALT	N	3	2003	3.3	UG/L	U
ASPA4A03	A	SPA	14	1	COBALT	N	4	2003	3.3	UG/L	U
ASPC1A03	A	SPC	15	1	COBALT	N	1	2003	3.3	UG/L	U
ASPC2A03	A	SPC	15	1	COBALT	N	2	2003	3.3	UG/L	U
ASPC3A03	A	SPC	15	1	COBALT	N	3	2003	3.3	UG/L	U
ASPC4A03	A	SPC	15	1	COBALT	N	4	2003	3.3	UG/L	U
FD12180301	A	SPC	15	1	COBALT	N	4	2003	3.3	UG/L	U
AC02P21A03F	A	C02P2	1	1	COBALT	Y	1	2003	3	UG/L	U
AC02P22A03F	A	C02P2	1	1	COBALT	Y	2	2003	3	UG/L	U
AC02P23A03F	A	C02P2	1	1	COBALT	Y	3	2003	3	UG/L	U
AC02P24A03F	A	C02P2	1	1	COBALT	Y	4	2003	3	UG/L	U

Table 7.15. Raw Data for Cobalt. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC031A03F	A	C03	2	1	COBALT	Y	1	2003	3	UG/L	U
AC032A03F	A	C03	2	1	COBALT	Y	2	2003	3	UG/L	U
AC033A03F	A	C03	2	1	COBALT	Y	3	2003	3	UG/L	U
AC034A03F	A	C03	2	1	COBALT	Y	4	2003	3	UG/L	U
AC041A03F	A	C04	3	1	COBALT	Y	1	2003	3	UG/L	U
AC042A03F	A	C04	3	1	COBALT	Y	2	2003	3	UG/L	U
AC043A03F	A	C04	3	1	COBALT	Y	3	2003	3	UG/L	U
AC044A03F	A	C04	3	1	COBALT	Y	4	2003	3	UG/L	U
AC071A03F	A	C07	4	1	COBALT	Y	1	2003	3	UG/L	U
AC072A03F	A	C07	4	1	COBALT	Y	2	2003	3	UG/L	U
AC073A03F	A	C07	4	1	COBALT	Y	3	2003	3	UG/L	U
AC074A03F	A	C07	4	1	COBALT	Y	4	2003	3	UG/L	U
AC08P21A03F	A	C08P2	5	1	COBALT	Y	1	2003	3	UG/L	U
AC08P22A03F	A	C08P2	5	1	COBALT	Y	2	2003	3	UG/L	U
AC08P23A03F	A	C08P2	5	1	COBALT	Y	3	2003	3	UG/L	U
AC08P24A03F	A	C08P2	5	1	COBALT	Y	4	2003	3	UG/L	U
AC09P21A03F	A	C09P2	6	1	COBALT	Y	1	2003	3	UG/L	U
AC09P22A03F	A	C09P2	6	1	COBALT	Y	2	2003	3	UG/L	U
AC09P23A03F	A	C09P2	6	1	COBALT	Y	3	2003	3	UG/L	U
FD08280301F	A	C09P2	6	1	COBALT	Y	3	2003	3	UG/L	U
AC09P24A03F	A	C09P2	6	1	COBALT	Y	4	2003	3	UG/L	U
AC151A03F	A	C15	7	1	COBALT	Y	1	2003	3	UG/L	U
FD03050301F	A	C15	7	1	COBALT	Y	1	2003	3	UG/L	U
AC152A03F	A	C15	7	1	COBALT	Y	2	2003	3	UG/L	U
FD06170301F	A	C15	7	1	COBALT	Y	2	2003	3	UG/L	U
AC153A03F	A	C15	7	1	COBALT	Y	3	2003	3	UG/L	U
FD09040301F	A	C15	7	1	COBALT	Y	3	2003	3	UG/L	U
AC154A03F	A	C15	7	1	COBALT	Y	4	2003	3	UG/L	U
FD12020301F	A	C15	7	1	COBALT	Y	4	2003	3	UG/L	U
AC171A03F	A	C17	8	1	COBALT	Y	1	2003	3	UG/L	U
FD03110301F	A	C17	8	1	COBALT	Y	1	2003	3	UG/L	U
AC172A03F	A	C17	8	1	COBALT	Y	2	2003	3	UG/L	U
FD06190301F	A	C17	8	1	COBALT	Y	2	2003	3	UG/L	U
AC173A03F	A	C17	8	1	COBALT	Y	3	2003	3	UG/L	U
AC174A03F	A	C17	8	1	COBALT	Y	4	2003	3	UG/L	U
AC201A03F	A	C20	9	1	COBALT	Y	1	2003	3	UG/L	U
AC202A03F	A	C20	9	1	COBALT	Y	2	2003	3	UG/L	U
AC203A03F	A	C20	9	1	COBALT	Y	3	2003	3	UG/L	U
AC204A03F	A	C20	9	1	COBALT	Y	4	2003	3	UG/L	U
AC252A03F	A	C25	10	1	COBALT	Y	2	2003	3	UG/L	U
AC253A03F	A	C25	10	1	COBALT	Y	3	2003	3	UG/L	U
AC254A03F	A	C25	10	1	COBALT	Y	4	2003	3	UG/L	U
AC261A03F	A	C26	11	1	COBALT	Y	1	2003	3	UG/L	U
AC262A03F	A	C26	11	1	COBALT	Y	2	2003	3	UG/L	U

Table 7.15. Raw Data for Cobalt. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC263A03F	A	C26	11	1	COBALT	Y	3	2003	3	UG/L	U
AC264A03F	A	C26	11	1	COBALT	Y	4	2003	3	UG/L	U
AC272A03F	A	C27	12	1	COBALT	Y	2	2003	3	UG/L	U
AC273A03F	A	C27	12	1	COBALT	Y	3	2003	3	UG/L	U
AC274A03F	A	C27	12	1	COBALT	Y	4	2003	3	UG/L	U
AC301A03F	A	C30	13	1	COBALT	Y	1	2003	3	UG/L	U
AC302A03F	A	C30	13	1	COBALT	Y	2	2003	3	UG/L	U
AC303A03F	A	C30	13	1	COBALT	Y	3	2003	3	UG/L	U
AC304A03F	A	C30	13	1	COBALT	Y	4	2003	3	UG/L	U
ASPA1A03F	A	SPA	14	1	COBALT	Y	1	2003	3	UG/L	U
ASPA2A03F	A	SPA	14	1	COBALT	Y	2	2003	3	UG/L	U
ASPA3A03F	A	SPA	14	1	COBALT	Y	3	2003	3	UG/L	U
ASPA4A03F	A	SPA	14	1	COBALT	Y	4	2003	3	UG/L	U
ASPC1A03F	A	SPC	15	1	COBALT	Y	1	2003	3	UG/L	U
ASPC2A03F	A	SPC	15	1	COBALT	Y	2	2003	3	UG/L	U
ASPC3A03F	A	SPC	15	1	COBALT	Y	3	2003	3	UG/L	U
ASPC4A03F	A	SPC	15	1	COBALT	Y	4	2003	3	UG/L	U
FD12180301F	A	SPC	15	1	COBALT	Y	4	2003	3	UG/L	U
DC021A03	D	C02	1	1	COBALT	N	1	2003	1.1	UG/L	U
DC023A03	D	C02	1	1	COBALT	N	3	2003	3.3	UG/L	U
DC031A03	D	C03	2	1	COBALT	N	1	2003	1.1	UG/L	U
DC033A03	D	C03	2	1	COBALT	N	3	2003	3.3	UG/L	U
FD07140301	D	C03	2	1	COBALT	N	3	2003	3.3	UG/L	U
DC041A03	D	C04	3	1	COBALT	N	1	2003	1.1	UG/L	U
DC043A03	D	C04	3	1	COBALT	N	3	2003	3.3	UG/L	U
FD07090301	D	C04	3	1	COBALT	N	3	2003	3.3	UG/L	U
DC051A03	D	C05	4	1	COBALT	N	1	2003	1.1	UG/L	U
FD01130301	D	C05	4	1	COBALT	N	1	2003	1.1	UG/L	U
DC053A03	D	C05	4	1	COBALT	N	3	2003	3.3	UG/L	U
DC061A03	D	C06	5	1	COBALT	N	1	2003	1.1	UG/L	U
DC063A03	D	C06	5	1	COBALT	N	3	2003	3.3	UG/L	U
DC071A03	D	C07	6	1	COBALT	N	1	2003	1.1	UG/L	U
DC073A03	D	C07	6	1	COBALT	N	3	2003	3.3	UG/L	U
DC081A03	D	C08	7	1	COBALT	N	1	2003	1.3	UG/L	
DC083A03	D	C08	7	1	COBALT	N	3	2003	3.3	UG/L	U
DC021A03F	D	C02	1	1	COBALT	Y	1	2003	1	UG/L	U
DC023A03F	D	C02	1	1	COBALT	Y	3	2003	3	UG/L	U
DC031A03F	D	C03	2	1	COBALT	Y	1	2003	1	UG/L	U
DC033A03F	D	C03	2	1	COBALT	Y	3	2003	3	UG/L	U
FD07140301F	D	C03	2	1	COBALT	Y	3	2003	3	UG/L	U
DC041A03F	D	C04	3	1	COBALT	Y	1	2003	1	UG/L	U
DC043A03F	D	C04	3	1	COBALT	Y	3	2003	3	UG/L	U
FD07090301F	D	C04	3	1	COBALT	Y	3	2003	3	UG/L	U
DC051A03F	D	C05	4	1	COBALT	Y	1	2003	1	UG/L	U

Table 7.15. Raw Data for Cobalt. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
FD01130301F	D	C05	4	1	COBALT	Y	1	2003	1	UG/L	U
DC053A03F	D	C05	4	1	COBALT	Y	3	2003	3	UG/L	U
DC061A03F	D	C06	5	1	COBALT	Y	1	2003	1	UG/L	U
DC063A03F	D	C06	5	1	COBALT	Y	3	2003	3	UG/L	U
DC071A03F	D	C07	6	1	COBALT	Y	1	2003	1	UG/L	U
DC073A03F	D	C07	6	1	COBALT	Y	3	2003	3	UG/L	U
DC081A03F	D	C08	7	1	COBALT	Y	1	2003	1	UG/L	U
DC083A03F	D	C08	7	1	COBALT	Y	3	2003	3	UG/L	U
DC03P21A03	D	C03P2	1	2	COBALT	N	1	2003	3.6	UG/L	
FD01090301	D	C03P2	1	2	COBALT	N	1	2003	4.7	UG/L	
DC03P23A03	D	C03P2	1	2	COBALT	N	3	2003	3.3	UG/L	U
DC04P21A03	D	C04P2	2	2	COBALT	N	1	2003	1.1	UG/L	U
DC04P23A03	D	C04P2	2	2	COBALT	N	3	2003	3.3	UG/L	U
DC06P21A03	D	C06P2	3	2	COBALT	N	1	2003	1.1	UG/L	U
DC06P23A03	D	C06P2	3	2	COBALT	N	3	2003	3.3	UG/L	U
DC08P23A03	D	C08P2	4	2	COBALT	N	3	2003	5.9	UG/L	
DC03P21A03F	D	C03P2	1	2	COBALT	Y	1	2003	1	UG/L	U
FD01090301F	D	C03P2	1	2	COBALT	Y	1	2003	1	UG/L	U
DC03P23A03F	D	C03P2	1	2	COBALT	Y	3	2003	3	UG/L	U
DC04P21A03F	D	C04P2	2	2	COBALT	Y	1	2003	1	UG/L	U
DC04P23A03F	D	C04P2	2	2	COBALT	Y	3	2003	3	UG/L	U
DC06P21A03F	D	C06P2	3	2	COBALT	Y	1	2003	1	UG/L	U
DC06P23A03F	D	C06P2	3	2	COBALT	Y	3	2003	3	UG/L	U
DC08P23A03F	D	C08P2	4	2	COBALT	Y	3	2003	6.4	UG/L	
OC081A03	O	C08	1	1	COBALT	N	1	2003	3.3	UG/L	U
OC082A03	O	C08	1	1	COBALT	N	2	2003	3.3	UG/L	U
OC083A03	O	C08	1	1	COBALT	N	3	2003	3.3	UG/L	U
OC084A03	O	C08	1	1	COBALT	N	4	2003	3.3	UG/L	U
OC111A03	O	C11	2	1	COBALT	N	1	2003	3.3	UG/L	U
OC112A03	O	C11	2	1	COBALT	N	2	2003	3.3	UG/L	U
OC113A03	O	C11	2	1	COBALT	N	3	2003	3.3	UG/L	U
OC114A03	O	C11	2	1	COBALT	N	4	2003	3.3	UG/L	U
OC121A03	O	C12	3	1	COBALT	N	1	2003	3.3	UG/L	U
FD04290301	O	C12	3	1	COBALT	N	2	2003	3.3	UG/L	U
OC122A03	O	C12	3	1	COBALT	N	2	2003	3.3	UG/L	U
OC123A03	O	C12	3	1	COBALT	N	3	2003	3.3	UG/L	U
FD10150301	O	C12	3	1	COBALT	N	4	2003	3.3	UG/L	U
OC124A03	O	C12	3	1	COBALT	N	4	2003	3.3	UG/L	U
OC131A03	O	C13	4	1	COBALT	N	1	2003	3.3	UG/L	U
OC132A03	O	C13	4	1	COBALT	N	2	2003	3.3	UG/L	U
OC133A03	O	C13	4	1	COBALT	N	3	2003	3.3	UG/L	U
OC134A03	O	C13	4	1	COBALT	N	4	2003	3.3	UG/L	U
OC141A03	O	C14	5	1	COBALT	N	1	2003	3.3	UG/L	U
OC142A03	O	C14	5	1	COBALT	N	2	2003	3.3	UG/L	U

Table 7.15. Raw Data for Cobalt. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC143A03	O	C14	5	1	COBALT	N	3	2003	3.3	UG/L	U
OC144A03	O	C14	5	1	COBALT	N	4	2003	3.3	UG/L	U
FD01290301	O	C15	6	1	COBALT	N	1	2003	3.3	UG/L	U
OC151A03	O	C15	6	1	COBALT	N	1	2003	3.3	UG/L	U
FD05070301	O	C15	6	1	COBALT	N	2	2003	3.3	UG/L	U
OC152A03	O	C15	6	1	COBALT	N	2	2003	3.3	UG/L	U
FD08120301	O	C15	6	1	COBALT	N	3	2003	3.3	UG/L	U
OC153A03	O	C15	6	1	COBALT	N	3	2003	3.3	UG/L	U
FD10300301	O	C15	6	1	COBALT	N	4	2003	3.3	UG/L	U
OC154A03	O	C15	6	1	COBALT	N	4	2003	3.3	UG/L	U
FD02130301	O	C16	7	1	COBALT	N	1	2003	3.3	UG/L	U
OC161A03	O	C16	7	1	COBALT	N	1	2003	3.3	UG/L	U
OC162A03	O	C16	7	1	COBALT	N	2	2003	3.3	UG/L	U
OC163A03	O	C16	7	1	COBALT	N	3	2003	3.3	UG/L	U
OC164A03	O	C16	7	1	COBALT	N	4	2003	3.3	UG/L	U
OC181A03	O	C18	8	1	COBALT	N	1	2003	3.3	UG/L	U
OC182A03	O	C18	8	1	COBALT	N	2	2003	3.3	UG/L	U
OC183A03	O	C18	8	1	COBALT	N	3	2003	3.3	UG/L	U
OC184A03	O	C18	8	1	COBALT	N	4	2003	3.3	UG/L	U
OC191A03	O	C19	9	1	COBALT	N	1	2003	3.3	UG/L	U
OC192A03	O	C19	9	1	COBALT	N	2	2003	3.3	UG/L	U
FD08200301	O	C19	9	1	COBALT	N	3	2003	3.3	UG/L	U
OC193A03	O	C19	9	1	COBALT	N	3	2003	3.3	UG/L	U
OC194A03	O	C19	9	1	COBALT	N	4	2003	3.3	UG/L	U
OC081A03F	O	C08	1	1	COBALT	Y	1	2003	3	UG/L	U
OC082A03F	O	C08	1	1	COBALT	Y	2	2003	3	UG/L	U
OC083A03F	O	C08	1	1	COBALT	Y	3	2003	3	UG/L	U
OC084A03F	O	C08	1	1	COBALT	Y	4	2003	3	UG/L	U
OC111A03F	O	C11	2	1	COBALT	Y	1	2003	3	UG/L	U
OC112A03F	O	C11	2	1	COBALT	Y	2	2003	3	UG/L	U
OC113A03F	O	C11	2	1	COBALT	Y	3	2003	3	UG/L	U
OC114A03F	O	C11	2	1	COBALT	Y	4	2003	3	UG/L	U
OC121A03F	O	C12	3	1	COBALT	Y	1	2003	3	UG/L	U
FD04290301F	O	C12	3	1	COBALT	Y	2	2003	3	UG/L	U
OC122A03F	O	C12	3	1	COBALT	Y	2	2003	3	UG/L	U
OC123A03F	O	C12	3	1	COBALT	Y	3	2003	3	UG/L	U
FD10150301F	O	C12	3	1	COBALT	Y	4	2003	3	UG/L	U
OC124A03F	O	C12	3	1	COBALT	Y	4	2003	3	UG/L	U
OC131A03F	O	C13	4	1	COBALT	Y	1	2003	3	UG/L	U
OC132A03F	O	C13	4	1	COBALT	Y	2	2003	3	UG/L	U
OC133A03F	O	C13	4	1	COBALT	Y	3	2003	3	UG/L	U
OC134A03F	O	C13	4	1	COBALT	Y	4	2003	3	UG/L	U
OC141A03F	O	C14	5	1	COBALT	Y	1	2003	3	UG/L	U
OC142A03F	O	C14	5	1	COBALT	Y	2	2003	3	UG/L	U

Table 7.15. Raw Data for Cobalt. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC143A03F	O	C14	5	1	COBALT	Y	3	2003	3	UG/L	U
OC144A03F	O	C14	5	1	COBALT	Y	4	2003	3	UG/L	U
FD01290301F	O	C15	6	1	COBALT	Y	1	2003	3	UG/L	U
OC151A03F	O	C15	6	1	COBALT	Y	1	2003	3	UG/L	U
FD05070301F	O	C15	6	1	COBALT	Y	2	2003	3	UG/L	U
OC152A03F	O	C15	6	1	COBALT	Y	2	2003	3	UG/L	U
FD08120301F	O	C15	6	1	COBALT	Y	3	2003	3	UG/L	U
OC153A03F	O	C15	6	1	COBALT	Y	3	2003	3	UG/L	U
FD10300301F	O	C15	6	1	COBALT	Y	4	2003	3	UG/L	U
OC154A03F	O	C15	6	1	COBALT	Y	4	2003	3	UG/L	U
FD02130301F	O	C16	7	1	COBALT	Y	1	2003	3	UG/L	U
OC161A03F	O	C16	7	1	COBALT	Y	1	2003	3	UG/L	U
OC162A03F	O	C16	7	1	COBALT	Y	2	2003	3	UG/L	U
OC163A03F	O	C16	7	1	COBALT	Y	3	2003	3	UG/L	U
OC164A03F	O	C16	7	1	COBALT	Y	4	2003	3	UG/L	U
OC181A03F	O	C18	8	1	COBALT	Y	1	2003	3	UG/L	U
OC182A03F	O	C18	8	1	COBALT	Y	2	2003	3	UG/L	U
OC183A03F	O	C18	8	1	COBALT	Y	3	2003	3	UG/L	U
OC184A03F	O	C18	8	1	COBALT	Y	4	2003	3	UG/L	U
OC191A03F	O	C19	9	1	COBALT	Y	1	2003	3	UG/L	U
OC192A03F	O	C19	9	1	COBALT	Y	2	2003	3	UG/L	U
FD08200301F	O	C19	9	1	COBALT	Y	3	2003	3	UG/L	U
OC193A03F	O	C19	9	1	COBALT	Y	3	2003	3	UG/L	U
OC194A03F	O	C19	9	1	COBALT	Y	4	2003	3	UG/L	U
OC11P21A03	O	C11P2	1	2	COBALT	N	1	2003	3.3	UG/L	U
OC11P22A03	O	C11P2	1	2	COBALT	N	2	2003	3.3	UG/L	U
OC11P23A03	O	C11P2	1	2	COBALT	N	3	2003	3.3	UG/L	U
OC11P24A03	O	C11P2	1	2	COBALT	N	4	2003	3.3	UG/L	U
OC13P21A03	O	C13P2	2	2	COBALT	N	1	2003	3.3	UG/L	U
OC13P22A03	O	C13P2	2	2	COBALT	N	2	2003	3.3	UG/L	U
OC13P23A03	O	C13P2	2	2	COBALT	N	3	2003	3.3	UG/L	U
OC13P24A03	O	C13P2	2	2	COBALT	N	4	2003	3.3	UG/L	U
OC14P21A03	O	C14P2	3	2	COBALT	N	1	2003	3.3	UG/L	U
OC14P22A03	O	C14P2	3	2	COBALT	N	2	2003	3.3	UG/L	U
OC14P23A03	O	C14P2	3	2	COBALT	N	3	2003	3.3	UG/L	U
OC14P24A03	O	C14P2	3	2	COBALT	N	4	2003	3.3	UG/L	U
OC18P21A03	O	C18P2	4	2	COBALT	N	1	2003	3.3	UG/L	U
OC18P22A03	O	C18P2	4	2	COBALT	N	2	2003	3.3	UG/L	U
OC18P23A03	O	C18P2	4	2	COBALT	N	3	2003	3.3	UG/L	U
OC18P24A03	O	C18P2	4	2	COBALT	N	4	2003	3.3	UG/L	U
OC19P21A03	O	C19P2	5	2	COBALT	N	1	2003	3.3	UG/L	U
OC19P22A03	O	C19P2	5	2	COBALT	N	2	2003	3.3	UG/L	U
OC19P23A03	O	C19P2	5	2	COBALT	N	3	2003	3.3	UG/L	U
OC19P24A03	O	C19P2	5	2	COBALT	N	4	2003	3.3	UG/L	U

Table 7.15. Raw Data for Cobalt. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC11P21A03F	O	C11P2	1	2	COBALT	Y	1	2003	3	UG/L	U
OC11P22A03F	O	C11P2	1	2	COBALT	Y	2	2003	3	UG/L	U
OC11P23A03F	O	C11P2	1	2	COBALT	Y	3	2003	3	UG/L	U
OC11P24A03F	O	C11P2	1	2	COBALT	Y	4	2003	3	UG/L	U
OC13P21A03F	O	C13P2	2	2	COBALT	Y	1	2003	3	UG/L	U
OC13P22A03F	O	C13P2	2	2	COBALT	Y	2	2003	3	UG/L	U
OC13P23A03F	O	C13P2	2	2	COBALT	Y	3	2003	3	UG/L	U
OC13P24A03F	O	C13P2	2	2	COBALT	Y	4	2003	3	UG/L	U
OC14P21A03F	O	C14P2	3	2	COBALT	Y	1	2003	3	UG/L	U
OC14P22A03F	O	C14P2	3	2	COBALT	Y	2	2003	3	UG/L	U
OC14P23A03F	O	C14P2	3	2	COBALT	Y	3	2003	3	UG/L	U
OC14P24A03F	O	C14P2	3	2	COBALT	Y	4	2003	3	UG/L	U
OC18P21A03F	O	C18P2	4	2	COBALT	Y	1	2003	3	UG/L	U
OC18P22A03F	O	C18P2	4	2	COBALT	Y	2	2003	3	UG/L	U
OC18P23A03F	O	C18P2	4	2	COBALT	Y	3	2003	3	UG/L	U
OC18P24A03F	O	C18P2	4	2	COBALT	Y	4	2003	3	UG/L	U
OC19P21A03F	O	C19P2	5	2	COBALT	Y	1	2003	3	UG/L	U
OC19P22A03F	O	C19P2	5	2	COBALT	Y	2	2003	3	UG/L	U
OC19P23A03F	O	C19P2	5	2	COBALT	Y	3	2003	3	UG/L	U
OC19P24A03F	O	C19P2	5	2	COBALT	Y	4	2003	3	UG/L	U

Table 7.16. Raw Data for Copper.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03	A	C02P2	1	1	COPPER	N	1	2003	2.2	UG/L	U
AC02P22A03	A	C02P2	1	1	COPPER	N	2	2003	2.2	UG/L	U
AC02P23A03	A	C02P2	1	1	COPPER	N	3	2003	2.2	UG/L	U
AC02P24A03	A	C02P2	1	1	COPPER	N	4	2003	2.2	UG/L	U
AC031A03	A	C03	2	1	COPPER	N	1	2003	2.2	UG/L	U
AC032A03	A	C03	2	1	COPPER	N	2	2003	2.2	UG/L	U
AC033A03	A	C03	2	1	COPPER	N	3	2003	2.2	UG/L	U
AC034A03	A	C03	2	1	COPPER	N	4	2003	2.2	UG/L	U
AC041A03	A	C04	3	1	COPPER	N	1	2003	2.2	UG/L	U
AC042A03	A	C04	3	1	COPPER	N	2	2003	2.2	UG/L	U
AC043A03	A	C04	3	1	COPPER	N	3	2003	2.2	UG/L	U
AC044A03	A	C04	3	1	COPPER	N	4	2003	2.2	UG/L	U
AC071A03	A	C07	4	1	COPPER	N	1	2003	2.2	UG/L	U
AC072A03	A	C07	4	1	COPPER	N	2	2003	2.2	UG/L	U
AC073A03	A	C07	4	1	COPPER	N	3	2003	2.2	UG/L	U
AC074A03	A	C07	4	1	COPPER	N	4	2003	2.2	UG/L	U
AC08P21A03	A	C08P2	5	1	COPPER	N	1	2003	2.2	UG/L	U
AC08P22A03	A	C08P2	5	1	COPPER	N	2	2003	2.2	UG/L	U
AC08P23A03	A	C08P2	5	1	COPPER	N	3	2003	2.2	UG/L	U
AC08P24A03	A	C08P2	5	1	COPPER	N	4	2003	2.2	UG/L	U

Table 7.16. Raw Data for Copper. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC09P21A03	A	C09P2	6	1	COPPER	N	1	2003	2.2	UG/L	U
AC09P22A03	A	C09P2	6	1	COPPER	N	2	2003	2.2	UG/L	U
AC09P23A03	A	C09P2	6	1	COPPER	N	3	2003	2.2	UG/L	U
FD08280301	A	C09P2	6	1	COPPER	N	3	2003	2.2	UG/L	U
AC09P24A03	A	C09P2	6	1	COPPER	N	4	2003	2.2	UG/L	U
AC151A03	A	C15	7	1	COPPER	N	1	2003	2.2	UG/L	U
FD03050301	A	C15	7	1	COPPER	N	1	2003	2.2	UG/L	U
AC152A03	A	C15	7	1	COPPER	N	2	2003	2.2	UG/L	U
FD06170301	A	C15	7	1	COPPER	N	2	2003	2.2	UG/L	U
AC153A03	A	C15	7	1	COPPER	N	3	2003	2.2	UG/L	U
FD09040301	A	C15	7	1	COPPER	N	3	2003	2.2	UG/L	U
AC154A03	A	C15	7	1	COPPER	N	4	2003	2.2	UG/L	U
FD12020301	A	C15	7	1	COPPER	N	4	2003	2.2	UG/L	U
AC171A03	A	C17	8	1	COPPER	N	1	2003	2.2	UG/L	U
FD03110301	A	C17	8	1	COPPER	N	1	2003	2.2	UG/L	U
AC172A03	A	C17	8	1	COPPER	N	2	2003	2.2	UG/L	U
FD06190301	A	C17	8	1	COPPER	N	2	2003	2.2	UG/L	U
AC173A03	A	C17	8	1	COPPER	N	3	2003	2.2	UG/L	U
AC174A03	A	C17	8	1	COPPER	N	4	2003	2.2	UG/L	U
AC201A03	A	C20	9	1	COPPER	N	1	2003	2.2	UG/L	U
AC202A03	A	C20	9	1	COPPER	N	2	2003	2.2	UG/L	U
AC203A03	A	C20	9	1	COPPER	N	3	2003	2.2	UG/L	U
AC204A03	A	C20	9	1	COPPER	N	4	2003	2.2	UG/L	U
AC252A03	A	C25	10	1	COPPER	N	2	2003	2.2	UG/L	U
AC253A03	A	C25	10	1	COPPER	N	3	2003	2.2	UG/L	U
AC254A03	A	C25	10	1	COPPER	N	4	2003	2.2	UG/L	U
AC261A03	A	C26	11	1	COPPER	N	1	2003	2.2	UG/L	U
AC262A03	A	C26	11	1	COPPER	N	2	2003	2.2	UG/L	U
AC263A03	A	C26	11	1	COPPER	N	3	2003	2.2	UG/L	U
AC264A03	A	C26	11	1	COPPER	N	4	2003	2.2	UG/L	U
AC272A03	A	C27	12	1	COPPER	N	2	2003	2.2	UG/L	U
AC273A03	A	C27	12	1	COPPER	N	3	2003	2.2	UG/L	U
AC274A03	A	C27	12	1	COPPER	N	4	2003	2.2	UG/L	U
AC301A03	A	C30	13	1	COPPER	N	1	2003	2.2	UG/L	U
AC302A03	A	C30	13	1	COPPER	N	2	2003	2.2	UG/L	U
AC303A03	A	C30	13	1	COPPER	N	3	2003	2.2	UG/L	U
AC304A03	A	C30	13	1	COPPER	N	4	2003	2.2	UG/L	U
ASPA1A03	A	SPA	14	1	COPPER	N	1	2003	2.2	UG/L	U
ASPA2A03	A	SPA	14	1	COPPER	N	2	2003	2.2	UG/L	U
ASPA3A03	A	SPA	14	1	COPPER	N	3	2003	2.2	UG/L	U
ASPA4A03	A	SPA	14	1	COPPER	N	4	2003	2.2	UG/L	U
ASPC1A03	A	SPC	15	1	COPPER	N	1	2003	2.2	UG/L	U
ASPC2A03	A	SPC	15	1	COPPER	N	2	2003	2.2	UG/L	U
ASPC3A03	A	SPC	15	1	COPPER	N	3	2003	2.2	UG/L	U

Table 7.16. Raw Data for Copper. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
ASPC4A03	A	SPC	15	1	COPPER	N	4	2003	2.7	UG/L	
FD12180301	A	SPC	15	1	COPPER	N	4	2003	2.2	UG/L	U
AC02P21A03F	A	C02P2	1	1	COPPER	Y	1	2003	2	UG/L	U
AC02P22A03F	A	C02P2	1	1	COPPER	Y	2	2003	2	UG/L	U
AC02P23A03F	A	C02P2	1	1	COPPER	Y	3	2003	2	UG/L	U
AC02P24A03F	A	C02P2	1	1	COPPER	Y	4	2003	2	UG/L	U
AC031A03F	A	C03	2	1	COPPER	Y	1	2003	2	UG/L	U
AC032A03F	A	C03	2	1	COPPER	Y	2	2003	2	UG/L	U
AC033A03F	A	C03	2	1	COPPER	Y	3	2003	2	UG/L	U
AC034A03F	A	C03	2	1	COPPER	Y	4	2003	2	UG/L	U
AC041A03F	A	C04	3	1	COPPER	Y	1	2003	2	UG/L	U
AC042A03F	A	C04	3	1	COPPER	Y	2	2003	2	UG/L	U
AC043A03F	A	C04	3	1	COPPER	Y	3	2003	2	UG/L	U
AC044A03F	A	C04	3	1	COPPER	Y	4	2003	2	UG/L	U
AC071A03F	A	C07	4	1	COPPER	Y	1	2003	2	UG/L	U
AC072A03F	A	C07	4	1	COPPER	Y	2	2003	2	UG/L	U
AC073A03F	A	C07	4	1	COPPER	Y	3	2003	2	UG/L	U
AC074A03F	A	C07	4	1	COPPER	Y	4	2003	2	UG/L	U
AC08P21A03F	A	C08P2	5	1	COPPER	Y	1	2003	2	UG/L	U
AC08P22A03F	A	C08P2	5	1	COPPER	Y	2	2003	2	UG/L	U
AC08P23A03F	A	C08P2	5	1	COPPER	Y	3	2003	4.1	UG/L	
AC08P24A03F	A	C08P2	5	1	COPPER	Y	4	2003	2	UG/L	U
AC09P21A03F	A	C09P2	6	1	COPPER	Y	1	2003	2	UG/L	U
AC09P22A03F	A	C09P2	6	1	COPPER	Y	2	2003	2	UG/L	U
AC09P23A03F	A	C09P2	6	1	COPPER	Y	3	2003	2	UG/L	U
FD08280301F	A	C09P2	6	1	COPPER	Y	3	2003	2	UG/L	U
AC09P24A03F	A	C09P2	6	1	COPPER	Y	4	2003	2	UG/L	U
AC151A03F	A	C15	7	1	COPPER	Y	1	2003	2	UG/L	U
FD03050301F	A	C15	7	1	COPPER	Y	1	2003	2	UG/L	U
AC152A03F	A	C15	7	1	COPPER	Y	2	2003	2	UG/L	U
FD06170301F	A	C15	7	1	COPPER	Y	2	2003	2	UG/L	U
AC153A03F	A	C15	7	1	COPPER	Y	3	2003	2	UG/L	U
FD09040301F	A	C15	7	1	COPPER	Y	3	2003	2	UG/L	U
AC154A03F	A	C15	7	1	COPPER	Y	4	2003	2	UG/L	U
FD12020301F	A	C15	7	1	COPPER	Y	4	2003	2	UG/L	U
AC171A03F	A	C17	8	1	COPPER	Y	1	2003	2	UG/L	U
FD03110301F	A	C17	8	1	COPPER	Y	1	2003	2	UG/L	U
AC172A03F	A	C17	8	1	COPPER	Y	2	2003	2	UG/L	U
FD06190301F	A	C17	8	1	COPPER	Y	2	2003	2	UG/L	U
AC173A03F	A	C17	8	1	COPPER	Y	3	2003	2	UG/L	U
AC174A03F	A	C17	8	1	COPPER	Y	4	2003	2	UG/L	U
AC201A03F	A	C20	9	1	COPPER	Y	1	2003	2	UG/L	U
AC202A03F	A	C20	9	1	COPPER	Y	2	2003	2	UG/L	U
AC203A03F	A	C20	9	1	COPPER	Y	3	2003	2	UG/L	U

Table 7.16. Raw Data for Copper. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC204A03F	A	C20	9	1	COPPER	Y	4	2003	2	UG/L	U
AC252A03F	A	C25	10	1	COPPER	Y	2	2003	2	UG/L	U
AC253A03F	A	C25	10	1	COPPER	Y	3	2003	2	UG/L	U
AC254A03F	A	C25	10	1	COPPER	Y	4	2003	2	UG/L	U
AC261A03F	A	C26	11	1	COPPER	Y	1	2003	2	UG/L	U
AC262A03F	A	C26	11	1	COPPER	Y	2	2003	2	UG/L	U
AC263A03F	A	C26	11	1	COPPER	Y	3	2003	2	UG/L	U
AC264A03F	A	C26	11	1	COPPER	Y	4	2003	2	UG/L	U
AC272A03F	A	C27	12	1	COPPER	Y	2	2003	2	UG/L	U
AC273A03F	A	C27	12	1	COPPER	Y	3	2003	2	UG/L	U
AC274A03F	A	C27	12	1	COPPER	Y	4	2003	2	UG/L	U
AC301A03F	A	C30	13	1	COPPER	Y	1	2003	2	UG/L	U
AC302A03F	A	C30	13	1	COPPER	Y	2	2003	2	UG/L	U
AC303A03F	A	C30	13	1	COPPER	Y	3	2003	2	UG/L	U
AC304A03F	A	C30	13	1	COPPER	Y	4	2003	2	UG/L	U
ASPA1A03F	A	SPA	14	1	COPPER	Y	1	2003	2	UG/L	U
ASPA2A03F	A	SPA	14	1	COPPER	Y	2	2003	2	UG/L	U
ASPA3A03F	A	SPA	14	1	COPPER	Y	3	2003	2	UG/L	U
ASPA4A03F	A	SPA	14	1	COPPER	Y	4	2003	2	UG/L	U
ASPC1A03F	A	SPC	15	1	COPPER	Y	1	2003	2	UG/L	U
ASPC2A03F	A	SPC	15	1	COPPER	Y	2	2003	2	UG/L	U
ASPC3A03F	A	SPC	15	1	COPPER	Y	3	2003	2	UG/L	U
ASPC4A03F	A	SPC	15	1	COPPER	Y	4	2003	2	UG/L	U
FD12180301F	A	SPC	15	1	COPPER	Y	4	2003	2	UG/L	U
DC031A03	D	C03	2	1	COPPER	N	1	2003	2.2	UG/L	U
DC033A03	D	C03	2	1	COPPER	N	3	2003	2.2	UG/L	U
FD07140301	D	C03	2	1	COPPER	N	3	2003	2.2	UG/L	U
DC041A03	D	C04	3	1	COPPER	N	1	2003	2.2	UG/L	U
DC043A03	D	C04	3	1	COPPER	N	3	2003	2.2	UG/L	U
FD07090301	D	C04	3	1	COPPER	N	3	2003	2.2	UG/L	U
DC071A03	D	C07	6	1	COPPER	N	1	2003	2.2	UG/L	U
DC073A03	D	C07	6	1	COPPER	N	3	2003	2.7	UG/L	
DC021A03	D	C02	1	1	COPPER	N	1	2003	2.2	UG/L	U
DC023A03	D	C02	1	1	COPPER	N	3	2003	2.2	UG/L	U
DC051A03	D	C05	4	1	COPPER	N	1	2003	2.2	UG/L	U
FD01130301	D	C05	4	1	COPPER	N	1	2003	2.2	UG/L	U
DC053A03	D	C05	4	1	COPPER	N	3	2003	3.3	UG/L	
DC061A03	D	C06	5	1	COPPER	N	1	2003	2.2	UG/L	U
DC063A03	D	C06	5	1	COPPER	N	3	2003	3.4	UG/L	
DC081A03	D	C08	7	1	COPPER	N	1	2003	2.2	UG/L	
DC083A03	D	C08	7	1	COPPER	N	3	2003	3.7	UG/L	
DC031A03F	D	C03	2	1	COPPER	Y	1	2003	2	UG/L	U
DC033A03F	D	C03	2	1	COPPER	Y	3	2003	2	UG/L	U
FD07140301F	D	C03	2	1	COPPER	Y	3	2003	2	UG/L	U

Table 7.16. Raw Data for Copper. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
DC041A03F	D	C04	3	1	COPPER	Y	1	2003	2	UG/L	U
DC043A03F	D	C04	3	1	COPPER	Y	3	2003	2	UG/L	U
FD07090301F	D	C04	3	1	COPPER	Y	3	2003	2	UG/L	U
DC071A03F	D	C07	6	1	COPPER	Y	1	2003	2	UG/L	U
DC073A03F	D	C07	6	1	COPPER	Y	3	2003	3.2	UG/L	
DC021A03F	D	C02	1	1	COPPER	Y	1	2003	2	UG/L	U
DC023A03F	D	C02	1	1	COPPER	Y	3	2003	2	UG/L	U
DC051A03F	D	C05	4	1	COPPER	Y	1	2003	2	UG/L	U
FD01130301F	D	C05	4	1	COPPER	Y	1	2003	2	UG/L	U
DC053A03F	D	C05	4	1	COPPER	Y	3	2003	3.5	UG/L	
DC061A03F	D	C06	5	1	COPPER	Y	1	2003	2	UG/L	U
DC063A03F	D	C06	5	1	COPPER	Y	3	2003	4.1	UG/L	
DC081A03F	D	C08	7	1	COPPER	Y	1	2003	2	UG/L	U
DC083A03F	D	C08	7	1	COPPER	Y	3	2003	5.1	UG/L	
DC08P23A03	D	C08P2	4	2	COPPER	N	3	2003	2.2	UG/L	U
DC03P21A03	D	C03P2	1	2	COPPER	N	1	2003	4.2	UG/L	
FD01090301	D	C03P2	1	2	COPPER	N	1	2003	5.7	UG/L	
DC03P23A03	D	C03P2	1	2	COPPER	N	3	2003	2.2	UG/L	U
DC04P21A03	D	C04P2	2	2	COPPER	N	1	2003	2.2	UG/L	U
DC04P23A03	D	C04P2	2	2	COPPER	N	3	2003	2.2	UG/L	U
DC06P21A03	D	C06P2	3	2	COPPER	N	1	2003	2.2	UG/L	U
DC06P23A03	D	C06P2	3	2	COPPER	N	3	2003	2.2	UG/L	U
DC08P23A03F	D	C08P2	4	2	COPPER	Y	3	2003	2	UG/L	U
DC03P21A03F	D	C03P2	1	2	COPPER	Y	1	2003	2	UG/L	U
FD01090301F	D	C03P2	1	2	COPPER	Y	1	2003	2	UG/L	U
DC03P23A03F	D	C03P2	1	2	COPPER	Y	3	2003	2	UG/L	U
DC04P21A03F	D	C04P2	2	2	COPPER	Y	1	2003	2	UG/L	U
DC04P23A03F	D	C04P2	2	2	COPPER	Y	3	2003	2	UG/L	U
DC06P21A03F	D	C06P2	3	2	COPPER	Y	1	2003	2	UG/L	U
DC06P23A03F	D	C06P2	3	2	COPPER	Y	3	2003	2	UG/L	U
FD01290301	O	C15	6	1	COPPER	N	1	2003	2.2	UG/L	U
OC151A03	O	C15	6	1	COPPER	N	1	2003	2.2	UG/L	U
FD05070301	O	C15	6	1	COPPER	N	2	2003	2.2	UG/L	U
OC152A03	O	C15	6	1	COPPER	N	2	2003	2.2	UG/L	U
FD08120301	O	C15	6	1	COPPER	N	3	2003	2.2	UG/L	U
OC153A03	O	C15	6	1	COPPER	N	3	2003	2.2	UG/L	U
FD10300301	O	C15	6	1	COPPER	N	4	2003	2.2	UG/L	U
OC154A03	O	C15	6	1	COPPER	N	4	2003	2.2	UG/L	U
OC081A03	O	C08	1	1	COPPER	N	1	2003	2.2	UG/L	U
OC082A03	O	C08	1	1	COPPER	N	2	2003	2.2	UG/L	U
OC083A03	O	C08	1	1	COPPER	N	3	2003	2.2	UG/L	U
OC084A03	O	C08	1	1	COPPER	N	4	2003	2.2	UG/L	U
OC121A03	O	C12	3	1	COPPER	N	1	2003	2.2	UG/L	U
FD04290301	O	C12	3	1	COPPER	N	2	2003	2.2	UG/L	U

Table 7.16. Raw Data for Copper. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC122A03	O	C12	3	1	COPPER	N	2	2003	2.2	UG/L	U
OC123A03	O	C12	3	1	COPPER	N	3	2003	2.2	UG/L	U
FD10150301	O	C12	3	1	COPPER	N	4	2003	2.2	UG/L	U
OC124A03	O	C12	3	1	COPPER	N	4	2003	2.2	UG/L	U
FD02130301	O	C16	7	1	COPPER	N	1	2003	2.2	UG/L	U
OC161A03	O	C16	7	1	COPPER	N	1	2003	2.2	UG/L	U
OC162A03	O	C16	7	1	COPPER	N	2	2003	2.2	UG/L	U
OC163A03	O	C16	7	1	COPPER	N	3	2003	2.2	UG/L	U
OC164A03	O	C16	7	1	COPPER	N	4	2003	2.2	UG/L	U
OC131A03	O	C13	4	1	COPPER	N	1	2003	8.1	UG/L	
OC132A03	O	C13	4	1	COPPER	N	2	2003	2.2	UG/L	U
OC133A03	O	C13	4	1	COPPER	N	3	2003	2.2	UG/L	U
OC134A03	O	C13	4	1	COPPER	N	4	2003	2.2	UG/L	U
OC181A03	O	C18	8	1	COPPER	N	1	2003	2.2	UG/L	U
OC182A03	O	C18	8	1	COPPER	N	2	2003	2.2	UG/L	U
OC183A03	O	C18	8	1	COPPER	N	3	2003	2.2	UG/L	U
OC184A03	O	C18	8	1	COPPER	N	4	2003	2.2	UG/L	U
OC191A03	O	C19	9	1	COPPER	N	1	2003	2.2	UG/L	U
OC192A03	O	C19	9	1	COPPER	N	2	2003	2.2	UG/L	U
FD08200301	O	C19	9	1	COPPER	N	3	2003	2.2	UG/L	U
OC193A03	O	C19	9	1	COPPER	N	3	2003	2.2	UG/L	U
OC194A03	O	C19	9	1	COPPER	N	4	2003	2.2	UG/L	U
OC141A03	O	C14	5	1	COPPER	N	1	2003	2.2	UG/L	U
OC142A03	O	C14	5	1	COPPER	N	2	2003	2.2	UG/L	U
OC143A03	O	C14	5	1	COPPER	N	3	2003	2.2	UG/L	U
OC144A03	O	C14	5	1	COPPER	N	4	2003	2.2	UG/L	U
OC111A03	O	C11	2	1	COPPER	N	1	2003	2.6	UG/L	
OC112A03	O	C11	2	1	COPPER	N	2	2003	2.2	UG/L	U
OC113A03	O	C11	2	1	COPPER	N	3	2003	2.2	UG/L	U
OC114A03	O	C11	2	1	COPPER	N	4	2003	2.2	UG/L	U
FD01290301F	O	C15	6	1	COPPER	Y	1	2003	2	UG/L	U
OC151A03F	O	C15	6	1	COPPER	Y	1	2003	2	UG/L	U
FD05070301F	O	C15	6	1	COPPER	Y	2	2003	2	UG/L	U
OC152A03F	O	C15	6	1	COPPER	Y	2	2003	2	UG/L	U
FD08120301F	O	C15	6	1	COPPER	Y	3	2003	2	UG/L	U
OC153A03F	O	C15	6	1	COPPER	Y	3	2003	2	UG/L	U
FD10300301F	O	C15	6	1	COPPER	Y	4	2003	2	UG/L	U
OC154A03F	O	C15	6	1	COPPER	Y	4	2003	2	UG/L	U
OC081A03F	O	C08	1	1	COPPER	Y	1	2003	2	UG/L	U
OC082A03F	O	C08	1	1	COPPER	Y	2	2003	2	UG/L	U
OC083A03F	O	C08	1	1	COPPER	Y	3	2003	2	UG/L	U
OC084A03F	O	C08	1	1	COPPER	Y	4	2003	2	UG/L	U
OC121A03F	O	C12	3	1	COPPER	Y	1	2003	2	UG/L	U
FD04290301F	O	C12	3	1	COPPER	Y	2	2003	2	UG/L	U

Table 7.16. Raw Data for Copper. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC122A03F	O	C12	3	1	COPPER	Y	2	2003	2	UG/L	U
OC123A03F	O	C12	3	1	COPPER	Y	3	2003	2	UG/L	U
FD10150301F	O	C12	3	1	COPPER	Y	4	2003	2	UG/L	U
OC124A03F	O	C12	3	1	COPPER	Y	4	2003	2	UG/L	U
FD02130301F	O	C16	7	1	COPPER	Y	1	2003	2	UG/L	U
OC161A03F	O	C16	7	1	COPPER	Y	1	2003	2	UG/L	U
OC162A03F	O	C16	7	1	COPPER	Y	2	2003	2	UG/L	U
OC163A03F	O	C16	7	1	COPPER	Y	3	2003	2	UG/L	U
OC164A03F	O	C16	7	1	COPPER	Y	4	2003	2	UG/L	U
OC131A03F	O	C13	4	1	COPPER	Y	1	2003	2	UG/L	U
OC132A03F	O	C13	4	1	COPPER	Y	2	2003	2	UG/L	U
OC133A03F	O	C13	4	1	COPPER	Y	3	2003	2	UG/L	U
OC134A03F	O	C13	4	1	COPPER	Y	4	2003	2	UG/L	U
OC181A03F	O	C18	8	1	COPPER	Y	1	2003	2	UG/L	U
OC182A03F	O	C18	8	1	COPPER	Y	2	2003	2	UG/L	U
OC183A03F	O	C18	8	1	COPPER	Y	3	2003	2	UG/L	U
OC184A03F	O	C18	8	1	COPPER	Y	4	2003	2	UG/L	U
OC191A03F	O	C19	9	1	COPPER	Y	1	2003	2	UG/L	U
OC192A03F	O	C19	9	1	COPPER	Y	2	2003	2	UG/L	U
FD08200301F	O	C19	9	1	COPPER	Y	3	2003	2	UG/L	U
OC193A03F	O	C19	9	1	COPPER	Y	3	2003	2	UG/L	U
OC194A03F	O	C19	9	1	COPPER	Y	4	2003	2	UG/L	U
OC141A03F	O	C14	5	1	COPPER	Y	1	2003	2	UG/L	U
OC142A03F	O	C14	5	1	COPPER	Y	2	2003	2	UG/L	U
OC143A03F	O	C14	5	1	COPPER	Y	3	2003	2	UG/L	U
OC144A03F	O	C14	5	1	COPPER	Y	4	2003	2	UG/L	U
OC111A03F	O	C11	2	1	COPPER	Y	1	2003	2	UG/L	U
OC112A03F	O	C11	2	1	COPPER	Y	2	2003	2	UG/L	U
OC113A03F	O	C11	2	1	COPPER	Y	3	2003	2	UG/L	U
OC114A03F	O	C11	2	1	COPPER	Y	4	2003	2	UG/L	U
OC11P21A03	O	C11P2	1	2	COPPER	N	1	2003	2.2	UG/L	U
OC11P22A03	O	C11P2	1	2	COPPER	N	2	2003	2.2	UG/L	U
OC11P23A03	O	C11P2	1	2	COPPER	N	3	2003	2.2	UG/L	U
OC11P24A03	O	C11P2	1	2	COPPER	N	4	2003	2.2	UG/L	U
OC13P21A03	O	C13P2	2	2	COPPER	N	1	2003	2.2	UG/L	U
OC13P22A03	O	C13P2	2	2	COPPER	N	2	2003	2.2	UG/L	U
OC13P23A03	O	C13P2	2	2	COPPER	N	3	2003	2.2	UG/L	U
OC13P24A03	O	C13P2	2	2	COPPER	N	4	2003	2.2	UG/L	U
OC19P21A03	O	C19P2	5	2	COPPER	N	1	2003	2.2	UG/L	U
OC19P22A03	O	C19P2	5	2	COPPER	N	2	2003	2.2	UG/L	U
OC19P23A03	O	C19P2	5	2	COPPER	N	3	2003	2.2	UG/L	U
OC19P24A03	O	C19P2	5	2	COPPER	N	4	2003	2.2	UG/L	U
OC14P21A03	O	C14P2	3	2	COPPER	N	1	2003	2.2	UG/L	U
OC14P22A03	O	C14P2	3	2	COPPER	N	2	2003	2.2	UG/L	U

Table 7.16. Raw Data for Copper. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC14P23A03	O	C14P2	3	2	COPPER	N	3	2003	2.2	UG/L	U
OC14P24A03	O	C14P2	3	2	COPPER	N	4	2003	2.2	UG/L	U
OC18P21A03	O	C18P2	4	2	COPPER	N	1	2003	2.4	UG/L	
OC18P22A03	O	C18P2	4	2	COPPER	N	2	2003	2.2	UG/L	U
OC18P23A03	O	C18P2	4	2	COPPER	N	3	2003	2.2	UG/L	U
OC18P24A03	O	C18P2	4	2	COPPER	N	4	2003	2.2	UG/L	U
OC11P21A03F	O	C11P2	1	2	COPPER	Y	1	2003	2	UG/L	U
OC11P22A03F	O	C11P2	1	2	COPPER	Y	2	2003	2	UG/L	U
OC11P23A03F	O	C11P2	1	2	COPPER	Y	3	2003	2	UG/L	U
OC11P24A03F	O	C11P2	1	2	COPPER	Y	4	2003	2	UG/L	U
OC13P21A03F	O	C13P2	2	2	COPPER	Y	1	2003	2	UG/L	U
OC13P22A03F	O	C13P2	2	2	COPPER	Y	2	2003	2	UG/L	U
OC13P23A03F	O	C13P2	2	2	COPPER	Y	3	2003	2	UG/L	U
OC13P24A03F	O	C13P2	2	2	COPPER	Y	4	2003	2	UG/L	U
OC19P21A03F	O	C19P2	5	2	COPPER	Y	1	2003	2	UG/L	U
OC19P22A03F	O	C19P2	5	2	COPPER	Y	2	2003	2	UG/L	U
OC19P23A03F	O	C19P2	5	2	COPPER	Y	3	2003	2	UG/L	U
OC19P24A03F	O	C19P2	5	2	COPPER	Y	4	2003	2	UG/L	U
OC14P21A03F	O	C14P2	3	2	COPPER	Y	1	2003	2	UG/L	U
OC14P22A03F	O	C14P2	3	2	COPPER	Y	2	2003	2	UG/L	U
OC14P23A03F	O	C14P2	3	2	COPPER	Y	3	2003	2	UG/L	U
OC14P24A03F	O	C14P2	3	2	COPPER	Y	4	2003	2	UG/L	U
OC18P21A03F	O	C18P2	4	2	COPPER	Y	1	2003	2	UG/L	U
OC18P22A03F	O	C18P2	4	2	COPPER	Y	2	2003	2	UG/L	U
OC18P23A03F	O	C18P2	4	2	COPPER	Y	3	2003	2	UG/L	U
OC18P24A03F	O	C18P2	4	2	COPPER	Y	4	2003	2	UG/L	U

Table 7.17. Raw Data for Lead.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03	A	C02P2	1	1	LEAD	N	1	2003	1.1	UG/L	U
AC02P22A03	A	C02P2	1	1	LEAD	N	2	2003	1.1	UG/L	U
AC02P23A03	A	C02P2	1	1	LEAD	N	3	2003	1.1	UG/L	U
AC02P24A03	A	C02P2	1	1	LEAD	N	4	2003	1.1	UG/L	U
AC031A03	A	C03	2	1	LEAD	N	1	2003	1.1	UG/L	U
AC032A03	A	C03	2	1	LEAD	N	2	2003	1.1	UG/L	U
AC033A03	A	C03	2	1	LEAD	N	3	2003	1.1	UG/L	U
AC034A03	A	C03	2	1	LEAD	N	4	2003	1.1	UG/L	U
AC041A03	A	C04	3	1	LEAD	N	1	2003	1.1	UG/L	
AC042A03	A	C04	3	1	LEAD	N	2	2003	1.1	UG/L	U
AC043A03	A	C04	3	1	LEAD	N	3	2003	1.1	UG/L	U
AC044A03	A	C04	3	1	LEAD	N	4	2003	1.1	UG/L	U
AC071A03	A	C07	4	1	LEAD	N	1	2003	1.1	UG/L	U
AC072A03	A	C07	4	1	LEAD	N	2	2003	1.1	UG/L	U

Table 7.17. Raw Data for Lead. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC073A03	A	C07	4	1	LEAD	N	3	2003	1.1	UG/L	U
AC074A03	A	C07	4	1	LEAD	N	4	2003	1.1	UG/L	U
AC08P21A03	A	C08P2	5	1	LEAD	N	1	2003	1.1	UG/L	U
AC08P22A03	A	C08P2	5	1	LEAD	N	2	2003	1.1	UG/L	U
AC08P23A03	A	C08P2	5	1	LEAD	N	3	2003	1.1	UG/L	U
AC08P24A03	A	C08P2	5	1	LEAD	N	4	2003	1.1	UG/L	U
AC09P21A03	A	C09P2	6	1	LEAD	N	1	2003	1.1	UG/L	U
AC09P22A03	A	C09P2	6	1	LEAD	N	2	2003	1.1	UG/L	
AC09P23A03	A	C09P2	6	1	LEAD	N	3	2003	1.5	UG/L	
FD08280301	A	C09P2	6	1	LEAD	N	3	2003	1.5	UG/L	
AC09P24A03	A	C09P2	6	1	LEAD	N	4	2003	1.8	UG/L	
AC151A03	A	C15	7	1	LEAD	N	1	2003	1.1	UG/L	U
FD03050301	A	C15	7	1	LEAD	N	1	2003	1.1	UG/L	U
AC152A03	A	C15	7	1	LEAD	N	2	2003	1.1	UG/L	U
FD06170301	A	C15	7	1	LEAD	N	2	2003	1.1	UG/L	U
AC153A03	A	C15	7	1	LEAD	N	3	2003	1.1	UG/L	U
FD09040301	A	C15	7	1	LEAD	N	3	2003	1.3	UG/L	
AC154A03	A	C15	7	1	LEAD	N	4	2003	1.1	UG/L	U
FD12020301	A	C15	7	1	LEAD	N	4	2003	1.1	UG/L	U
AC171A03	A	C17	8	1	LEAD	N	1	2003	1.1	UG/L	U
FD03110301	A	C17	8	1	LEAD	N	1	2003	1.1	UG/L	U
AC172A03	A	C17	8	1	LEAD	N	2	2003	1.1	UG/L	U
FD06190301	A	C17	8	1	LEAD	N	2	2003	1.1	UG/L	U
AC173A03	A	C17	8	1	LEAD	N	3	2003	1.1	UG/L	U
AC174A03	A	C17	8	1	LEAD	N	4	2003	1.1	UG/L	U
AC201A03	A	C20	9	1	LEAD	N	1	2003	1.1	UG/L	U
AC202A03	A	C20	9	1	LEAD	N	2	2003	1.1	UG/L	U
AC203A03	A	C20	9	1	LEAD	N	3	2003	1.1	UG/L	U
AC204A03	A	C20	9	1	LEAD	N	4	2003	1.1	UG/L	U
AC252A03	A	C25	10	1	LEAD	N	2	2003	1.1	UG/L	U
AC253A03	A	C25	10	1	LEAD	N	3	2003	1.1	UG/L	U
AC254A03	A	C25	10	1	LEAD	N	4	2003	1.1	UG/L	U
AC261A03	A	C26	11	1	LEAD	N	1	2003	1.1	UG/L	U
AC262A03	A	C26	11	1	LEAD	N	2	2003	1.1	UG/L	U
AC263A03	A	C26	11	1	LEAD	N	3	2003	1.1	UG/L	U
AC264A03	A	C26	11	1	LEAD	N	4	2003	1.1	UG/L	U
AC272A03	A	C27	12	1	LEAD	N	2	2003	1.1	UG/L	U
AC273A03	A	C27	12	1	LEAD	N	3	2003	1.1	UG/L	U
AC274A03	A	C27	12	1	LEAD	N	4	2003	1.1	UG/L	U
AC301A03	A	C30	13	1	LEAD	N	1	2003	1.1	UG/L	U
AC302A03	A	C30	13	1	LEAD	N	2	2003	1.1	UG/L	U
AC303A03	A	C30	13	1	LEAD	N	3	2003	1.1	UG/L	U
AC304A03	A	C30	13	1	LEAD	N	4	2003	1.1	UG/L	U
ASPA1A03	A	SPA	14	1	LEAD	N	1	2003	1.1	UG/L	U

Table 7.17. Raw Data for Lead. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
ASPA2A03	A	SPA	14	1	LEAD	N	2	2003	1.1	UG/L	U
ASPA3A03	A	SPA	14	1	LEAD	N	3	2003	1.1	UG/L	U
ASPA4A03	A	SPA	14	1	LEAD	N	4	2003	1.1	UG/L	U
ASPC1A03	A	SPC	15	1	LEAD	N	1	2003	1.1	UG/L	U
ASPC2A03	A	SPC	15	1	LEAD	N	2	2003	1.1	UG/L	U
ASPC3A03	A	SPC	15	1	LEAD	N	3	2003	1.1	UG/L	U
ASPC4A03	A	SPC	15	1	LEAD	N	4	2003	1.1	UG/L	U
FD12180301	A	SPC	15	1	LEAD	N	4	2003	1.1	UG/L	U
AC02P21A03F	A	C02P2	1	1	LEAD	Y	1	2003	1	UG/L	U
AC02P22A03F	A	C02P2	1	1	LEAD	Y	2	2003	1.1	UG/L	
AC02P23A03F	A	C02P2	1	1	LEAD	Y	3	2003	1	UG/L	U
AC02P24A03F	A	C02P2	1	1	LEAD	Y	4	2003	1	UG/L	U
AC031A03F	A	C03	2	1	LEAD	Y	1	2003	1	UG/L	U
AC032A03F	A	C03	2	1	LEAD	Y	2	2003	1	UG/L	U
AC033A03F	A	C03	2	1	LEAD	Y	3	2003	1	UG/L	U
AC034A03F	A	C03	2	1	LEAD	Y	4	2003	1	UG/L	U
AC041A03F	A	C04	3	1	LEAD	Y	1	2003	1	UG/L	U
AC042A03F	A	C04	3	1	LEAD	Y	2	2003	1	UG/L	U
AC043A03F	A	C04	3	1	LEAD	Y	3	2003	1	UG/L	U
AC044A03F	A	C04	3	1	LEAD	Y	4	2003	1	UG/L	U
AC071A03F	A	C07	4	1	LEAD	Y	1	2003	1	UG/L	U
AC072A03F	A	C07	4	1	LEAD	Y	2	2003	1	UG/L	U
AC073A03F	A	C07	4	1	LEAD	Y	3	2003	1	UG/L	U
AC074A03F	A	C07	4	1	LEAD	Y	4	2003	1	UG/L	U
AC08P21A03F	A	C08P2	5	1	LEAD	Y	1	2003	1	UG/L	U
AC08P22A03F	A	C08P2	5	1	LEAD	Y	2	2003	1	UG/L	U
AC08P23A03F	A	C08P2	5	1	LEAD	Y	3	2003	1	UG/L	U
AC08P24A03F	A	C08P2	5	1	LEAD	Y	4	2003	1	UG/L	U
AC09P21A03F	A	C09P2	6	1	LEAD	Y	1	2003	1	UG/L	U
AC09P22A03F	A	C09P2	6	1	LEAD	Y	2	2003	1	UG/L	U
AC09P23A03F	A	C09P2	6	1	LEAD	Y	3	2003	1	UG/L	U
FD08280301F	A	C09P2	6	1	LEAD	Y	3	2003	1	UG/L	U
AC09P24A03F	A	C09P2	6	1	LEAD	Y	4	2003	1	UG/L	U
AC151A03F	A	C15	7	1	LEAD	Y	1	2003	1	UG/L	U
FD03050301F	A	C15	7	1	LEAD	Y	1	2003	1	UG/L	U
AC152A03F	A	C15	7	1	LEAD	Y	2	2003	1	UG/L	U
FD06170301F	A	C15	7	1	LEAD	Y	2	2003	1	UG/L	U
AC153A03F	A	C15	7	1	LEAD	Y	3	2003	1	UG/L	U
FD09040301F	A	C15	7	1	LEAD	Y	3	2003	1	UG/L	U
AC154A03F	A	C15	7	1	LEAD	Y	4	2003	1	UG/L	U
FD12020301F	A	C15	7	1	LEAD	Y	4	2003	1	UG/L	U
AC171A03F	A	C17	8	1	LEAD	Y	1	2003	1	UG/L	U
FD03110301F	A	C17	8	1	LEAD	Y	1	2003	1	UG/L	U
AC172A03F	A	C17	8	1	LEAD	Y	2	2003	1	UG/L	U

Table 7.17. Raw Data for Lead. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
FD06190301F	A	C17	8	1	LEAD	Y	2	2003	1	UG/L	U
AC173A03F	A	C17	8	1	LEAD	Y	3	2003	1	UG/L	U
AC174A03F	A	C17	8	1	LEAD	Y	4	2003	1	UG/L	U
AC201A03F	A	C20	9	1	LEAD	Y	1	2003	1	UG/L	U
AC202A03F	A	C20	9	1	LEAD	Y	2	2003	1	UG/L	U
AC203A03F	A	C20	9	1	LEAD	Y	3	2003	1	UG/L	U
AC204A03F	A	C20	9	1	LEAD	Y	4	2003	1	UG/L	U
AC252A03F	A	C25	10	1	LEAD	Y	2	2003	1	UG/L	U
AC253A03F	A	C25	10	1	LEAD	Y	3	2003	1	UG/L	U
AC254A03F	A	C25	10	1	LEAD	Y	4	2003	1	UG/L	U
AC261A03F	A	C26	11	1	LEAD	Y	1	2003	1	UG/L	U
AC262A03F	A	C26	11	1	LEAD	Y	2	2003	1	UG/L	U
AC263A03F	A	C26	11	1	LEAD	Y	3	2003	1	UG/L	U
AC264A03F	A	C26	11	1	LEAD	Y	4	2003	1	UG/L	U
AC272A03F	A	C27	12	1	LEAD	Y	2	2003	1	UG/L	U
AC273A03F	A	C27	12	1	LEAD	Y	3	2003	1	UG/L	U
AC274A03F	A	C27	12	1	LEAD	Y	4	2003	1	UG/L	U
AC301A03F	A	C30	13	1	LEAD	Y	1	2003	1	UG/L	U
AC302A03F	A	C30	13	1	LEAD	Y	2	2003	1	UG/L	U
AC303A03F	A	C30	13	1	LEAD	Y	3	2003	1	UG/L	U
AC304A03F	A	C30	13	1	LEAD	Y	4	2003	1	UG/L	U
ASPA1A03F	A	SPA	14	1	LEAD	Y	1	2003	1	UG/L	U
ASPA2A03F	A	SPA	14	1	LEAD	Y	2	2003	12.1	UG/L	
ASPA3A03F	A	SPA	14	1	LEAD	Y	3	2003	1	UG/L	U
ASPA4A03F	A	SPA	14	1	LEAD	Y	4	2003	1	UG/L	U
ASPC1A03F	A	SPC	15	1	LEAD	Y	1	2003	1	UG/L	U
ASPC2A03F	A	SPC	15	1	LEAD	Y	2	2003	1	UG/L	U
ASPC3A03F	A	SPC	15	1	LEAD	Y	3	2003	1	UG/L	U
ASPC4A03F	A	SPC	15	1	LEAD	Y	4	2003	1	UG/L	U
FD12180301F	A	SPC	15	1	LEAD	Y	4	2003	1	UG/L	U
DC021A03	D	C02	1	1	LEAD	N	1	2003	1.1	UG/L	U
DC023A03	D	C02	1	1	LEAD	N	3	2003	1.1	UG/L	U
DC031A03	D	C03	2	1	LEAD	N	1	2003	1.1	UG/L	U
DC033A03	D	C03	2	1	LEAD	N	3	2003	1.1	UG/L	U
FD07140301	D	C03	2	1	LEAD	N	3	2003	1.1	UG/L	U
DC041A03	D	C04	3	1	LEAD	N	1	2003	1.1	UG/L	U
DC043A03	D	C04	3	1	LEAD	N	3	2003	1.1	UG/L	U
FD07090301	D	C04	3	1	LEAD	N	3	2003	1.1	UG/L	U
DC051A03	D	C05	4	1	LEAD	N	1	2003	1.1	UG/L	U
FD01130301	D	C05	4	1	LEAD	N	1	2003	1.1	UG/L	U
DC053A03	D	C05	4	1	LEAD	N	3	2003	1.1	UG/L	U
DC061A03	D	C06	5	1	LEAD	N	1	2003	1.1	UG/L	U
DC063A03	D	C06	5	1	LEAD	N	3	2003	1.1	UG/L	U
DC071A03	D	C07	6	1	LEAD	N	1	2003	1.1	UG/L	U

Table 7.17. Raw Data for Lead. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
DC073A03	D	C07	6	1	LEAD	N	3	2003	1.1	UG/L	U
DC081A03	D	C08	7	1	LEAD	N	1	2003	4.1	UG/L	
DC083A03	D	C08	7	1	LEAD	N	3	2003	1.1	UG/L	U
DC021A03F	D	C02	1	1	LEAD	Y	1	2003	1	UG/L	U
DC023A03F	D	C02	1	1	LEAD	Y	3	2003	1	UG/L	U
DC031A03F	D	C03	2	1	LEAD	Y	1	2003	1	UG/L	U
DC033A03F	D	C03	2	1	LEAD	Y	3	2003	1	UG/L	U
FD07140301F	D	C03	2	1	LEAD	Y	3	2003	1	UG/L	U
DC041A03F	D	C04	3	1	LEAD	Y	1	2003	1	UG/L	U
DC043A03F	D	C04	3	1	LEAD	Y	3	2003	1	UG/L	U
FD07090301F	D	C04	3	1	LEAD	Y	3	2003	1	UG/L	U
DC051A03F	D	C05	4	1	LEAD	Y	1	2003	1	UG/L	U
FD01130301F	D	C05	4	1	LEAD	Y	1	2003	1	UG/L	U
DC053A03F	D	C05	4	1	LEAD	Y	3	2003	1	UG/L	U
DC061A03F	D	C06	5	1	LEAD	Y	1	2003	1	UG/L	U
DC063A03F	D	C06	5	1	LEAD	Y	3	2003	1	UG/L	U
DC071A03F	D	C07	6	1	LEAD	Y	1	2003	1	UG/L	U
DC073A03F	D	C07	6	1	LEAD	Y	3	2003	1	UG/L	U
DC081A03F	D	C08	7	1	LEAD	Y	1	2003	1	UG/L	U
DC083A03F	D	C08	7	1	LEAD	Y	3	2003	1	UG/L	U
DC03P21A03	D	C03P2	1	2	LEAD	N	1	2003	5.7	UG/L	
FD01090301	D	C03P2	1	2	LEAD	N	1	2003	7.2	UG/L	
DC03P23A03	D	C03P2	1	2	LEAD	N	3	2003	1.1	UG/L	U
DC04P21A03	D	C04P2	2	2	LEAD	N	1	2003	1.1	UG/L	U
DC04P23A03	D	C04P2	2	2	LEAD	N	3	2003	1.1	UG/L	U
DC06P21A03	D	C06P2	3	2	LEAD	N	1	2003	1.1	UG/L	U
DC06P23A03	D	C06P2	3	2	LEAD	N	3	2003	1.1	UG/L	U
DC08P23A03	D	C08P2	4	2	LEAD	N	3	2003	1.1	UG/L	U
DC03P21A03F	D	C03P2	1	2	LEAD	Y	1	2003	1	UG/L	U
FD01090301F	D	C03P2	1	2	LEAD	Y	1	2003	1	UG/L	U
DC03P23A03F	D	C03P2	1	2	LEAD	Y	3	2003	1	UG/L	U
DC04P21A03F	D	C04P2	2	2	LEAD	Y	1	2003	1	UG/L	U
DC04P23A03F	D	C04P2	2	2	LEAD	Y	3	2003	1	UG/L	U
DC06P21A03F	D	C06P2	3	2	LEAD	Y	1	2003	1	UG/L	U
DC06P23A03F	D	C06P2	3	2	LEAD	Y	3	2003	1	UG/L	U
DC08P23A03F	D	C08P2	4	2	LEAD	Y	3	2003	1	UG/L	U
OC081A03	O	C08	1	1	LEAD	N	1	2003	1.1	UG/L	U
OC082A03	O	C08	1	1	LEAD	N	2	2003	1.1	UG/L	U
OC083A03	O	C08	1	1	LEAD	N	3	2003	1.1	UG/L	U
OC084A03	O	C08	1	1	LEAD	N	4	2003	1.1	UG/L	U
OC111A03	O	C11	2	1	LEAD	N	1	2003	5.3	UG/L	
OC112A03	O	C11	2	1	LEAD	N	2	2003	2.5	UG/L	
OC113A03	O	C11	2	1	LEAD	N	3	2003	2.8	UG/L	
OC114A03	O	C11	2	1	LEAD	N	4	2003	2.5	UG/L	

Table 7.17. Raw Data for Lead. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC121A03	O	C12	3	1	LEAD	N	1	2003	1.1	UG/L	U
FD04290301	O	C12	3	1	LEAD	N	2	2003	1.1	UG/L	U
OC122A03	O	C12	3	1	LEAD	N	2	2003	1.1	UG/L	U
OC123A03	O	C12	3	1	LEAD	N	3	2003	1.1	UG/L	U
FD10150301	O	C12	3	1	LEAD	N	4	2003	1.1	UG/L	U
OC124A03	O	C12	3	1	LEAD	N	4	2003	1.1	UG/L	U
OC131A03	O	C13	4	1	LEAD	N	1	2003	1.1	UG/L	U
OC132A03	O	C13	4	1	LEAD	N	2	2003	1.1	UG/L	U
OC133A03	O	C13	4	1	LEAD	N	3	2003	1.1	UG/L	U
OC134A03	O	C13	4	1	LEAD	N	4	2003	1.1	UG/L	U
OC141A03	O	C14	5	1	LEAD	N	1	2003	6	UG/L	
OC142A03	O	C14	5	1	LEAD	N	2	2003	3.8	UG/L	
OC143A03	O	C14	5	1	LEAD	N	3	2003	1.1	UG/L	
OC144A03	O	C14	5	1	LEAD	N	4	2003	1.1	UG/L	U
FD01290301	O	C15	6	1	LEAD	N	1	2003	1.1	UG/L	U
OC151A03	O	C15	6	1	LEAD	N	1	2003	1.1	UG/L	U
FD05070301	O	C15	6	1	LEAD	N	2	2003	1.1	UG/L	U
OC152A03	O	C15	6	1	LEAD	N	2	2003	1.1	UG/L	U
FD08120301	O	C15	6	1	LEAD	N	3	2003	1.1	UG/L	U
OC153A03	O	C15	6	1	LEAD	N	3	2003	1.1	UG/L	U
FD10300301	O	C15	6	1	LEAD	N	4	2003	1.1	UG/L	U
OC154A03	O	C15	6	1	LEAD	N	4	2003	1.1	UG/L	U
FD02130301	O	C16	7	1	LEAD	N	1	2003	1.1	UG/L	U
OC161A03	O	C16	7	1	LEAD	N	1	2003	1.1	UG/L	U
OC162A03	O	C16	7	1	LEAD	N	2	2003	1.1	UG/L	U
OC163A03	O	C16	7	1	LEAD	N	3	2003	1.1	UG/L	U
OC164A03	O	C16	7	1	LEAD	N	4	2003	1.1	UG/L	U
OC181A03	O	C18	8	1	LEAD	N	1	2003	1.1	UG/L	U
OC182A03	O	C18	8	1	LEAD	N	2	2003	1.1	UG/L	U
OC183A03	O	C18	8	1	LEAD	N	3	2003	1.1	UG/L	U
OC184A03	O	C18	8	1	LEAD	N	4	2003	1.1	UG/L	U
OC191A03	O	C19	9	1	LEAD	N	1	2003	1.1	UG/L	U
OC192A03	O	C19	9	1	LEAD	N	2	2003	1.1	UG/L	U
FD08200301	O	C19	9	1	LEAD	N	3	2003	1.1	UG/L	U
OC193A03	O	C19	9	1	LEAD	N	3	2003	1.1	UG/L	U
OC194A03	O	C19	9	1	LEAD	N	4	2003	1.1	UG/L	U
OC081A03F	O	C08	1	1	LEAD	Y	1	2003	1	UG/L	U
OC082A03F	O	C08	1	1	LEAD	Y	2	2003	1	UG/L	U
OC083A03F	O	C08	1	1	LEAD	Y	3	2003	1	UG/L	U
OC084A03F	O	C08	1	1	LEAD	Y	4	2003	1	UG/L	U
OC111A03F	O	C11	2	1	LEAD	Y	1	2003	1	UG/L	U
OC112A03F	O	C11	2	1	LEAD	Y	2	2003	1.2	UG/L	
OC113A03F	O	C11	2	1	LEAD	Y	3	2003	1	UG/L	U
OC114A03F	O	C11	2	1	LEAD	Y	4	2003	1	UG/L	U

Table 7.17. Raw Data for Lead. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC121A03F	O	C12	3	1	LEAD	Y	1	2003	1	UG/L	U
FD04290301F	O	C12	3	1	LEAD	Y	2	2003	1	UG/L	U
OC122A03F	O	C12	3	1	LEAD	Y	2	2003	1	UG/L	U
OC123A03F	O	C12	3	1	LEAD	Y	3	2003	1	UG/L	U
FD10150301F	O	C12	3	1	LEAD	Y	4	2003	1	UG/L	U
OC124A03F	O	C12	3	1	LEAD	Y	4	2003	1	UG/L	U
OC131A03F	O	C13	4	1	LEAD	Y	1	2003	1	UG/L	U
OC132A03F	O	C13	4	1	LEAD	Y	2	2003	1	UG/L	U
OC133A03F	O	C13	4	1	LEAD	Y	3	2003	1	UG/L	U
OC134A03F	O	C13	4	1	LEAD	Y	4	2003	1	UG/L	U
OC141A03F	O	C14	5	1	LEAD	Y	1	2003	1	UG/L	U
OC142A03F	O	C14	5	1	LEAD	Y	2	2003	1	UG/L	U
OC143A03F	O	C14	5	1	LEAD	Y	3	2003	1	UG/L	U
OC144A03F	O	C14	5	1	LEAD	Y	4	2003	1	UG/L	U
FD01290301F	O	C15	6	1	LEAD	Y	1	2003	1	UG/L	U
OC151A03F	O	C15	6	1	LEAD	Y	1	2003	1	UG/L	U
FD05070301F	O	C15	6	1	LEAD	Y	2	2003	1	UG/L	U
OC152A03F	O	C15	6	1	LEAD	Y	2	2003	1	UG/L	U
FD08120301F	O	C15	6	1	LEAD	Y	3	2003	1	UG/L	U
OC153A03F	O	C15	6	1	LEAD	Y	3	2003	1	UG/L	U
FD10300301F	O	C15	6	1	LEAD	Y	4	2003	1	UG/L	U
OC154A03F	O	C15	6	1	LEAD	Y	4	2003	1	UG/L	U
FD02130301F	O	C16	7	1	LEAD	Y	1	2003	1	UG/L	U
OC161A03F	O	C16	7	1	LEAD	Y	1	2003	1	UG/L	U
OC162A03F	O	C16	7	1	LEAD	Y	2	2003	1	UG/L	U
OC163A03F	O	C16	7	1	LEAD	Y	3	2003	1	UG/L	U
OC164A03F	O	C16	7	1	LEAD	Y	4	2003	1	UG/L	U
OC181A03F	O	C18	8	1	LEAD	Y	1	2003	1	UG/L	U
OC182A03F	O	C18	8	1	LEAD	Y	2	2003	1	UG/L	U
OC183A03F	O	C18	8	1	LEAD	Y	3	2003	1	UG/L	U
OC184A03F	O	C18	8	1	LEAD	Y	4	2003	1	UG/L	U
OC191A03F	O	C19	9	1	LEAD	Y	1	2003	1	UG/L	U
OC192A03F	O	C19	9	1	LEAD	Y	2	2003	1	UG/L	U
FD08200301F	O	C19	9	1	LEAD	Y	3	2003	1	UG/L	U
OC193A03F	O	C19	9	1	LEAD	Y	3	2003	1	UG/L	U
OC194A03F	O	C19	9	1	LEAD	Y	4	2003	1	UG/L	U
OC11P21A03	O	C11P2	1	2	LEAD	N	1	2003	1.1	UG/L	U
OC11P22A03	O	C11P2	1	2	LEAD	N	2	2003	1.1	UG/L	U
OC11P23A03	O	C11P2	1	2	LEAD	N	3	2003	1.1	UG/L	U
OC11P24A03	O	C11P2	1	2	LEAD	N	4	2003	1.1	UG/L	U
OC13P21A03	O	C13P2	2	2	LEAD	N	1	2003	1.1	UG/L	U
OC13P22A03	O	C13P2	2	2	LEAD	N	2	2003	1.1	UG/L	U
OC13P23A03	O	C13P2	2	2	LEAD	N	3	2003	1.1	UG/L	U
OC13P24A03	O	C13P2	2	2	LEAD	N	4	2003	1.1	UG/L	U

Table 7.17. Raw Data for Lead. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC14P21A03	O	C14P2	3	2	LEAD	N	1	2003	1.1	UG/L	U
OC14P22A03	O	C14P2	3	2	LEAD	N	2	2003	1.1	UG/L	U
OC14P23A03	O	C14P2	3	2	LEAD	N	3	2003	1.1	UG/L	U
OC14P24A03	O	C14P2	3	2	LEAD	N	4	2003	1.1	UG/L	U
OC18P21A03	O	C18P2	4	2	LEAD	N	1	2003	1.1	UG/L	U
OC18P22A03	O	C18P2	4	2	LEAD	N	2	2003	1.1	UG/L	U
OC18P23A03	O	C18P2	4	2	LEAD	N	3	2003	1.1	UG/L	U
OC18P24A03	O	C18P2	4	2	LEAD	N	4	2003	1.1	UG/L	U
OC19P21A03	O	C19P2	5	2	LEAD	N	1	2003	1.1	UG/L	U
OC19P22A03	O	C19P2	5	2	LEAD	N	2	2003	1.1	UG/L	U
OC19P23A03	O	C19P2	5	2	LEAD	N	3	2003	1.1	UG/L	U
OC19P24A03	O	C19P2	5	2	LEAD	N	4	2003	1.1	UG/L	U
OC11P21A03F	O	C11P2	1	2	LEAD	Y	1	2003	1	UG/L	U
OC11P22A03F	O	C11P2	1	2	LEAD	Y	2	2003	1	UG/L	U
OC11P23A03F	O	C11P2	1	2	LEAD	Y	3	2003	1	UG/L	U
OC11P24A03F	O	C11P2	1	2	LEAD	Y	4	2003	1	UG/L	U
OC13P21A03F	O	C13P2	2	2	LEAD	Y	1	2003	1	UG/L	U
OC13P22A03F	O	C13P2	2	2	LEAD	Y	2	2003	1	UG/L	U
OC13P23A03F	O	C13P2	2	2	LEAD	Y	3	2003	1	UG/L	U
OC13P24A03F	O	C13P2	2	2	LEAD	Y	4	2003	1	UG/L	U
OC14P21A03F	O	C14P2	3	2	LEAD	Y	1	2003	1	UG/L	U
OC14P22A03F	O	C14P2	3	2	LEAD	Y	2	2003	1.7	UG/L	
OC14P23A03F	O	C14P2	3	2	LEAD	Y	3	2003	1	UG/L	U
OC14P24A03F	O	C14P2	3	2	LEAD	Y	4	2003	1	UG/L	U
OC18P21A03F	O	C18P2	4	2	LEAD	Y	1	2003	1	UG/L	U
OC18P22A03F	O	C18P2	4	2	LEAD	Y	2	2003	1	UG/L	U
OC18P23A03F	O	C18P2	4	2	LEAD	Y	3	2003	1	UG/L	U
OC18P24A03F	O	C18P2	4	2	LEAD	Y	4	2003	1	UG/L	U
OC19P21A03F	O	C19P2	5	2	LEAD	Y	1	2003	1	UG/L	U
OC19P22A03F	O	C19P2	5	2	LEAD	Y	2	2003	1	UG/L	U
OC19P23A03F	O	C19P2	5	2	LEAD	Y	3	2003	1	UG/L	U
OC19P24A03F	O	C19P2	5	2	LEAD	Y	4	2003	1	UG/L	U

Table 7.18. Raw Data for Magnesium.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03F	A	C02P2	1	1	MAGNESIUM	Y	1	2003	7120	UG/L	
AC02P22A03F	A	C02P2	1	1	MAGNESIUM	Y	2	2003	15100	UG/L	
AC02P23A03F	A	C02P2	1	1	MAGNESIUM	Y	3	2003	18000	UG/L	
AC02P24A03F	A	C02P2	1	1	MAGNESIUM	Y	4	2003	7820	UG/L	
AC031A03F	A	C03	2	1	MAGNESIUM	Y	1	2003	1000	UG/L	U
AC032A03F	A	C03	2	1	MAGNESIUM	Y	2	2003	1000	UG/L	U
AC033A03F	A	C03	2	1	MAGNESIUM	Y	3	2003	1000	UG/L	U
AC034A03F	A	C03	2	1	MAGNESIUM	Y	4	2003	1000	UG/L	U

Table 7.18. Raw Data for Magnesium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC041A03F	A	C04	3	1	MAGNESIUM	Y	1	2003	180000	UG/L	
AC042A03F	A	C04	3	1	MAGNESIUM	Y	2	2003	178000	UG/L	
AC043A03F	A	C04	3	1	MAGNESIUM	Y	3	2003	193000	UG/L	
AC044A03F	A	C04	3	1	MAGNESIUM	Y	4	2003	183000	UG/L	
AC071A03F	A	C07	4	1	MAGNESIUM	Y	1	2003	45600	UG/L	
AC072A03F	A	C07	4	1	MAGNESIUM	Y	2	2003	41600	UG/L	
AC073A03F	A	C07	4	1	MAGNESIUM	Y	3	2003	46300	UG/L	
AC074A03F	A	C07	4	1	MAGNESIUM	Y	4	2003	45700	UG/L	
AC08P21A03F	A	C08P2	5	1	MAGNESIUM	Y	1	2003	43800	UG/L	
AC08P22A03F	A	C08P2	5	1	MAGNESIUM	Y	2	2003	40700	UG/L	
AC08P23A03F	A	C08P2	5	1	MAGNESIUM	Y	3	2003	46700	UG/L	
AC08P24A03F	A	C08P2	5	1	MAGNESIUM	Y	4	2003	45400	UG/L	
AC09P21A03F	A	C09P2	6	1	MAGNESIUM	Y	1	2003	14500	UG/L	
AC09P22A03F	A	C09P2	6	1	MAGNESIUM	Y	2	2003	13700	UG/L	
AC09P23A03F	A	C09P2	6	1	MAGNESIUM	Y	3	2003	14100	UG/L	
FD08280301F	A	C09P2	6	1	MAGNESIUM	Y	3	2003	14200	UG/L	
AC09P24A03F	A	C09P2	6	1	MAGNESIUM	Y	4	2003	12800	UG/L	
AC151A03F	A	C15	7	1	MAGNESIUM	Y	1	2003	31200	UG/L	
FD03050301F	A	C15	7	1	MAGNESIUM	Y	1	2003	31700	UG/L	
AC152A03F	A	C15	7	1	MAGNESIUM	Y	2	2003	31200	UG/L	
FD06170301F	A	C15	7	1	MAGNESIUM	Y	2	2003	31300	UG/L	
AC153A03F	A	C15	7	1	MAGNESIUM	Y	3	2003	36300	UG/L	
FD09040301F	A	C15	7	1	MAGNESIUM	Y	3	2003	35800	UG/L	
AC154A03F	A	C15	7	1	MAGNESIUM	Y	4	2003	33900	UG/L	
FD12020301F	A	C15	7	1	MAGNESIUM	Y	4	2003	33200	UG/L	
AC171A03F	A	C17	8	1	MAGNESIUM	Y	1	2003	181000	UG/L	
FD03110301F	A	C17	8	1	MAGNESIUM	Y	1	2003	180000	UG/L	
AC172A03F	A	C17	8	1	MAGNESIUM	Y	2	2003	176000	UG/L	
FD06190301F	A	C17	8	1	MAGNESIUM	Y	2	2003	175000	UG/L	
AC173A03F	A	C17	8	1	MAGNESIUM	Y	3	2003	189000	UG/L	
AC174A03F	A	C17	8	1	MAGNESIUM	Y	4	2003	181000	UG/L	
AC201A03F	A	C20	9	1	MAGNESIUM	Y	1	2003	33800	UG/L	
AC202A03F	A	C20	9	1	MAGNESIUM	Y	2	2003	30600	UG/L	
AC203A03F	A	C20	9	1	MAGNESIUM	Y	3	2003	33000	UG/L	
AC204A03F	A	C20	9	1	MAGNESIUM	Y	4	2003	34800	UG/L	
AC252A03F	A	C25	10	1	MAGNESIUM	Y	2	2003	53100	UG/L	
AC253A03F	A	C25	10	1	MAGNESIUM	Y	3	2003	57800	UG/L	
AC254A03F	A	C25	10	1	MAGNESIUM	Y	4	2003	55700	UG/L	
AC261A03F	A	C26	11	1	MAGNESIUM	Y	1	2003	52200	UG/L	
AC262A03F	A	C26	11	1	MAGNESIUM	Y	2	2003	48000	UG/L	
AC263A03F	A	C26	11	1	MAGNESIUM	Y	3	2003	52500	UG/L	
AC264A03F	A	C26	11	1	MAGNESIUM	Y	4	2003	53100	UG/L	
AC272A03F	A	C27	12	1	MAGNESIUM	Y	2	2003	2780	UG/L	
AC273A03F	A	C27	12	1	MAGNESIUM	Y	3	2003	3150	UG/L	

Table 7.18. Raw Data for Magnesium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC274A03F	A	C27	12	1	MAGNESIUM	Y	4	2003	3140	UG/L	
AC301A03F	A	C30	13	1	MAGNESIUM	Y	1	2003	37300	UG/L	
AC302A03F	A	C30	13	1	MAGNESIUM	Y	2	2003	31200	UG/L	
AC303A03F	A	C30	13	1	MAGNESIUM	Y	3	2003	26000	UG/L	
AC304A03F	A	C30	13	1	MAGNESIUM	Y	4	2003	28000	UG/L	
ASPA1A03F	A	SPA	14	1	MAGNESIUM	Y	1	2003	3570	UG/L	
ASPA2A03F	A	SPA	14	1	MAGNESIUM	Y	2	2003	10700	UG/L	
ASPA3A03F	A	SPA	14	1	MAGNESIUM	Y	3	2003	16300	UG/L	
ASPA4A03F	A	SPA	14	1	MAGNESIUM	Y	4	2003	4900	UG/L	
ASPC1A03F	A	SPC	15	1	MAGNESIUM	Y	1	2003	2990	UG/L	
ASPC2A03F	A	SPC	15	1	MAGNESIUM	Y	2	2003	7970	UG/L	
ASPC3A03F	A	SPC	15	1	MAGNESIUM	Y	3	2003	11000	UG/L	
ASPC4A03F	A	SPC	15	1	MAGNESIUM	Y	4	2003	3850	UG/L	
FD12180301F	A	SPC	15	1	MAGNESIUM	Y	4	2003	3830	UG/L	

Table 7.19. Raw Data for Manganese.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
DC021A03	D	C02	1	1	MANGANESE	N	1	2003	91.9	UG/L	
DC023A03	D	C02	1	1	MANGANESE	N	3	2003	86.7	UG/L	EJ
DC031A03	D	C03	2	1	MANGANESE	N	1	2003	549	UG/L	
DC033A03	D	C03	2	1	MANGANESE	N	3	2003	502	UG/L	EJ
FD07140301	D	C03	2	1	MANGANESE	N	3	2003	484	UG/L	EJ
DC041A03	D	C04	3	1	MANGANESE	N	1	2003	203	UG/L	
DC043A03	D	C04	3	1	MANGANESE	N	3	2003	202	UG/L	EJ
FD07090301	D	C04	3	1	MANGANESE	N	3	2003	195	UG/L	EJ
DC051A03	D	C05	4	1	MANGANESE	N	1	2003	6.3	UG/L	
FD01130301	D	C05	4	1	MANGANESE	N	1	2003	6.1	UG/L	
DC053A03	D	C05	4	1	MANGANESE	N	3	2003	16.7	UG/L	UEJ
DC061A03	D	C06	5	1	MANGANESE	N	1	2003	25.9	UG/L	
DC063A03	D	C06	5	1	MANGANESE	N	3	2003	16.7	UG/L	UEJ
DC071A03	D	C07	6	1	MANGANESE	N	1	2003	5.6	UG/L	U
DC073A03	D	C07	6	1	MANGANESE	N	3	2003	16.7	UG/L	UEJ
DC081A03	D	C08	7	1	MANGANESE	N	1	2003	47.3	UG/L	
DC083A03	D	C08	7	1	MANGANESE	N	3	2003	16.7	UG/L	UEJ
DC021A03F	D	C02	1	1	MANGANESE	Y	1	2003	93.6	UG/L	
DC023A03F	D	C02	1	1	MANGANESE	Y	3	2003	84.3	UG/L	EJ
DC031A03F	D	C03	2	1	MANGANESE	Y	1	2003	514	UG/L	
DC033A03F	D	C03	2	1	MANGANESE	Y	3	2003	512	UG/L	EJ
FD07140301F	D	C03	2	1	MANGANESE	Y	3	2003	513	UG/L	EJ
DC041A03F	D	C04	3	1	MANGANESE	Y	1	2003	205	UG/L	
DC043A03F	D	C04	3	1	MANGANESE	Y	3	2003	212	UG/L	EJ
FD07090301F	D	C04	3	1	MANGANESE	Y	3	2003	214	UG/L	EJ

Table 7.19. Raw Data for Manganese. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
DC051A03F	D	C05	4	1	MANGANESE	Y	1	2003	6.9	UG/L	
FD01130301F	D	C05	4	1	MANGANESE	Y	1	2003	6.2	UG/L	
DC053A03F	D	C05	4	1	MANGANESE	Y	3	2003	15	UG/L	UEJ
DC061A03F	D	C06	5	1	MANGANESE	Y	1	2003	20.6	UG/L	
DC063A03F	D	C06	5	1	MANGANESE	Y	3	2003	15	UG/L	UEJ
DC071A03F	D	C07	6	1	MANGANESE	Y	1	2003	5	UG/L	U
DC073A03F	D	C07	6	1	MANGANESE	Y	3	2003	15	UG/L	UEJ
DC081A03F	D	C08	7	1	MANGANESE	Y	1	2003	5	UG/L	U
DC083A03F	D	C08	7	1	MANGANESE	Y	3	2003	15	UG/L	UEJ
DC03P21A03	D	C03P2	1	2	MANGANESE	N	1	2003	87	UG/L	
FD01090301	D	C03P2	1	2	MANGANESE	N	1	2003	110	UG/L	
DC03P23A03	D	C03P2	1	2	MANGANESE	N	3	2003	17.4	UG/L	EJ
DC04P21A03	D	C04P2	2	2	MANGANESE	N	1	2003	24.9	UG/L	
DC04P23A03	D	C04P2	2	2	MANGANESE	N	3	2003	29.9	UG/L	EJ
DC06P21A03	D	C06P2	3	2	MANGANESE	N	1	2003	5.6	UG/L	U
DC06P23A03	D	C06P2	3	2	MANGANESE	N	3	2003	16.7	UG/L	UEJ
DC08P23A03	D	C08P2	4	2	MANGANESE	N	3	2003	553	UG/L	EJ
DC03P21A03F	D	C03P2	1	2	MANGANESE	Y	1	2003	6.5	UG/L	
FD01090301F	D	C03P2	1	2	MANGANESE	Y	1	2003	5	UG/L	U
DC03P23A03F	D	C03P2	1	2	MANGANESE	Y	3	2003	15	UG/L	UEJ
DC04P21A03F	D	C04P2	2	2	MANGANESE	Y	1	2003	20.6	UG/L	
DC04P23A03F	D	C04P2	2	2	MANGANESE	Y	3	2003	23	UG/L	EJ
DC06P21A03F	D	C06P2	3	2	MANGANESE	Y	1	2003	5	UG/L	U
DC06P23A03F	D	C06P2	3	2	MANGANESE	Y	3	2003	15	UG/L	UEJ
DC08P23A03F	D	C08P2	4	2	MANGANESE	Y	3	2003	576	UG/L	EJ
OC081A03	O	C08	1	1	MANGANESE	N	1	2003	16.7	UG/L	U
OC082A03	O	C08	1	1	MANGANESE	N	2	2003	16.7	UG/L	U
OC083A03	O	C08	1	1	MANGANESE	N	3	2003	16.7	UG/L	U
OC084A03	O	C08	1	1	MANGANESE	N	4	2003	16.7	UG/L	U
OC111A03	O	C11	2	1	MANGANESE	N	1	2003	17.3	UG/L	
OC112A03	O	C11	2	1	MANGANESE	N	2	2003	16.7	UG/L	U
OC113A03	O	C11	2	1	MANGANESE	N	3	2003	16.7	UG/L	U
OC114A03	O	C11	2	1	MANGANESE	N	4	2003	16.7	UG/L	U
OC121A03	O	C12	3	1	MANGANESE	N	1	2003	469	UG/L	
FD04290301	O	C12	3	1	MANGANESE	N	2	2003	431	UG/L	
OC122A03	O	C12	3	1	MANGANESE	N	2	2003	431	UG/L	
OC123A03	O	C12	3	1	MANGANESE	N	3	2003	363	UG/L	
FD10150301	O	C12	3	1	MANGANESE	N	4	2003	405	UG/L	
OC124A03	O	C12	3	1	MANGANESE	N	4	2003	410	UG/L	
OC131A03	O	C13	4	1	MANGANESE	N	1	2003	550	UG/L	
OC132A03	O	C13	4	1	MANGANESE	N	2	2003	541	UG/L	
OC133A03	O	C13	4	1	MANGANESE	N	3	2003	481	UG/L	
OC134A03	O	C13	4	1	MANGANESE	N	4	2003	545	UG/L	

Table 7.19. Raw Data for Manganese. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC141A03	O	C14	5	1	MANGANESE	N	1	2003	317	UG/L	
OC142A03	O	C14	5	1	MANGANESE	N	2	2003	334	UG/L	
OC143A03	O	C14	5	1	MANGANESE	N	3	2003	293	UG/L	
OC144A03	O	C14	5	1	MANGANESE	N	4	2003	265	UG/L	
FD01290301	O	C15	6	1	MANGANESE	N	1	2003	16.7	UG/L	U
OC151A03	O	C15	6	1	MANGANESE	N	1	2003	16.9	UG/L	
FD05070301	O	C15	6	1	MANGANESE	N	2	2003	16.7	UG/L	U
OC152A03	O	C15	6	1	MANGANESE	N	2	2003	16.9	UG/L	
FD08120301	O	C15	6	1	MANGANESE	N	3	2003	16.7	UG/L	U
OC153A03	O	C15	6	1	MANGANESE	N	3	2003	16.7	UG/L	U
FD10300301	O	C15	6	1	MANGANESE	N	4	2003	16.7	UG/L	U
OC154A03	O	C15	6	1	MANGANESE	N	4	2003	16.7	UG/L	U
FD02130301	O	C16	7	1	MANGANESE	N	1	2003	16.7	UG/L	U
OC161A03	O	C16	7	1	MANGANESE	N	1	2003	16.7	UG/L	U
OC162A03	O	C16	7	1	MANGANESE	N	2	2003	16.7	UG/L	U
OC163A03	O	C16	7	1	MANGANESE	N	3	2003	16.7	UG/L	U
OC164A03	O	C16	7	1	MANGANESE	N	4	2003	16.7	UG/L	U
OC181A03	O	C18	8	1	MANGANESE	N	1	2003	132	UG/L	
OC182A03	O	C18	8	1	MANGANESE	N	2	2003	129	UG/L	
OC183A03	O	C18	8	1	MANGANESE	N	3	2003	128	UG/L	
OC184A03	O	C18	8	1	MANGANESE	N	4	2003	128	UG/L	
OC191A03	O	C19	9	1	MANGANESE	N	1	2003	236	UG/L	
OC192A03	O	C19	9	1	MANGANESE	N	2	2003	270	UG/L	
FD08200301	O	C19	9	1	MANGANESE	N	3	2003	235	UG/L	
OC193A03	O	C19	9	1	MANGANESE	N	3	2003	234	UG/L	
OC194A03	O	C19	9	1	MANGANESE	N	4	2003	247	UG/L	
OC081A03F	O	C08	1	1	MANGANESE	Y	1	2003	15	UG/L	U
OC082A03F	O	C08	1	1	MANGANESE	Y	2	2003	15	UG/L	U
OC083A03F	O	C08	1	1	MANGANESE	Y	3	2003	15	UG/L	U
OC084A03F	O	C08	1	1	MANGANESE	Y	4	2003	15	UG/L	U
OC111A03F	O	C11	2	1	MANGANESE	Y	1	2003	15	UG/L	U
OC112A03F	O	C11	2	1	MANGANESE	Y	2	2003	15	UG/L	U
OC113A03F	O	C11	2	1	MANGANESE	Y	3	2003	15	UG/L	U
OC114A03F	O	C11	2	1	MANGANESE	Y	4	2003	15	UG/L	U
OC121A03F	O	C12	3	1	MANGANESE	Y	1	2003	466	UG/L	
FD04290301F	O	C12	3	1	MANGANESE	Y	2	2003	434	UG/L	
OC122A03F	O	C12	3	1	MANGANESE	Y	2	2003	436	UG/L	
OC123A03F	O	C12	3	1	MANGANESE	Y	3	2003	410	UG/L	
FD10150301F	O	C12	3	1	MANGANESE	Y	4	2003	421	UG/L	
OC124A03F	O	C12	3	1	MANGANESE	Y	4	2003	425	UG/L	
OC131A03F	O	C13	4	1	MANGANESE	Y	1	2003	525	UG/L	
OC132A03F	O	C13	4	1	MANGANESE	Y	2	2003	522	UG/L	
OC133A03F	O	C13	4	1	MANGANESE	Y	3	2003	504	UG/L	

Table 7.19. Raw Data for Manganese. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC134A03F	O	C13	4	1	MANGANESE	Y	4	2003	501	UG/L	
OC141A03F	O	C14	5	1	MANGANESE	Y	1	2003	330	UG/L	U
OC142A03F	O	C14	5	1	MANGANESE	Y	2	2003	346	UG/L	
OC143A03F	O	C14	5	1	MANGANESE	Y	3	2003	286	UG/L	
OC144A03F	O	C14	5	1	MANGANESE	Y	4	2003	279	UG/L	
FD01290301F	O	C15	6	1	MANGANESE	Y	1	2003	15	UG/L	U
OC151A03F	O	C15	6	1	MANGANESE	Y	1	2003	15	UG/L	U
FD05070301F	O	C15	6	1	MANGANESE	Y	2	2003	15	UG/L	U
OC152A03F	O	C15	6	1	MANGANESE	Y	2	2003	15	UG/L	U
FD08120301F	O	C15	6	1	MANGANESE	Y	3	2003	15	UG/L	U
OC153A03F	O	C15	6	1	MANGANESE	Y	3	2003	15	UG/L	U
FD10300301F	O	C15	6	1	MANGANESE	Y	4	2003	15	UG/L	U
OC154A03F	O	C15	6	1	MANGANESE	Y	4	2003	15	UG/L	U
FD02130301F	O	C16	7	1	MANGANESE	Y	1	2003	15	UG/L	U
OC161A03F	O	C16	7	1	MANGANESE	Y	1	2003	15	UG/L	U
OC162A03F	O	C16	7	1	MANGANESE	Y	2	2003	15	UG/L	U
OC163A03F	O	C16	7	1	MANGANESE	Y	3	2003	15	UG/L	U
OC164A03F	O	C16	7	1	MANGANESE	Y	4	2003	15	UG/L	U
OC181A03F	O	C18	8	1	MANGANESE	Y	1	2003	134	UG/L	
OC182A03F	O	C18	8	1	MANGANESE	Y	2	2003	128	UG/L	
OC183A03F	O	C18	8	1	MANGANESE	Y	3	2003	129	UG/L	
OC184A03F	O	C18	8	1	MANGANESE	Y	4	2003	137	UG/L	
OC191A03F	O	C19	9	1	MANGANESE	Y	1	2003	316	UG/L	U
OC192A03F	O	C19	9	1	MANGANESE	Y	2	2003	264	UG/L	
FD08200301F	O	C19	9	1	MANGANESE	Y	3	2003	238	UG/L	
OC193A03F	O	C19	9	1	MANGANESE	Y	3	2003	233	UG/L	
OC194A03F	O	C19	9	1	MANGANESE	Y	4	2003	273	UG/L	
OC11P21A03	O	C11P2	1	2	MANGANESE	N	1	2003	122	UG/L	
OC11P22A03	O	C11P2	1	2	MANGANESE	N	2	2003	169	UG/L	
OC11P23A03	O	C11P2	1	2	MANGANESE	N	3	2003	111	UG/L	
OC11P24A03	O	C11P2	1	2	MANGANESE	N	4	2003	92.7	UG/L	
OC13P21A03	O	C13P2	2	2	MANGANESE	N	1	2003	627	UG/L	
OC13P22A03	O	C13P2	2	2	MANGANESE	N	2	2003	624	UG/L	
OC13P23A03	O	C13P2	2	2	MANGANESE	N	3	2003	564	UG/L	
OC13P24A03	O	C13P2	2	2	MANGANESE	N	4	2003	590	UG/L	
OC14P21A03	O	C14P2	3	2	MANGANESE	N	1	2003	16.7	UG/L	U
OC14P22A03	O	C14P2	3	2	MANGANESE	N	2	2003	16.7	UG/L	U
OC14P23A03	O	C14P2	3	2	MANGANESE	N	3	2003	16.7	UG/L	U
OC14P24A03	O	C14P2	3	2	MANGANESE	N	4	2003	16.7	UG/L	U
OC18P21A03	O	C18P2	4	2	MANGANESE	N	1	2003	544	UG/L	
OC18P22A03	O	C18P2	4	2	MANGANESE	N	2	2003	499	UG/L	
OC18P23A03	O	C18P2	4	2	MANGANESE	N	3	2003	506	UG/L	
OC18P24A03	O	C18P2	4	2	MANGANESE	N	4	2003	639	UG/L	

Table 7.19. Raw Data for Manganese. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC19P21A03	O	C19P2	5	2	MANGANESE	N	1	2003	165	UG/L	
OC19P22A03	O	C19P2	5	2	MANGANESE	N	2	2003	123	UG/L	
OC19P23A03	O	C19P2	5	2	MANGANESE	N	3	2003	115	UG/L	
OC19P24A03	O	C19P2	5	2	MANGANESE	N	4	2003	116	UG/L	
OC11P21A03F	O	C11P2	1	2	MANGANESE	Y	1	2003	76.2	UG/L	
OC11P22A03F	O	C11P2	1	2	MANGANESE	Y	2	2003	152	UG/L	
OC11P23A03F	O	C11P2	1	2	MANGANESE	Y	3	2003	104	UG/L	
OC11P24A03F	O	C11P2	1	2	MANGANESE	Y	4	2003	96.2	UG/L	
OC13P21A03F	O	C13P2	2	2	MANGANESE	Y	1	2003	623	UG/L	
OC13P22A03F	O	C13P2	2	2	MANGANESE	Y	2	2003	636	UG/L	
OC13P23A03F	O	C13P2	2	2	MANGANESE	Y	3	2003	587	UG/L	
OC13P24A03F	O	C13P2	2	2	MANGANESE	Y	4	2003	672	UG/L	
OC14P21A03F	O	C14P2	3	2	MANGANESE	Y	1	2003	15	UG/L	U
OC14P22A03F	O	C14P2	3	2	MANGANESE	Y	2	2003	15	UG/L	U
OC14P23A03F	O	C14P2	3	2	MANGANESE	Y	3	2003	15	UG/L	U
OC14P24A03F	O	C14P2	3	2	MANGANESE	Y	4	2003	15	UG/L	U
OC18P21A03F	O	C18P2	4	2	MANGANESE	Y	1	2003	534	UG/L	
OC18P22A03F	O	C18P2	4	2	MANGANESE	Y	2	2003	502	UG/L	
OC18P23A03F	O	C18P2	4	2	MANGANESE	Y	3	2003	529	UG/L	
OC18P24A03F	O	C18P2	4	2	MANGANESE	Y	4	2003	550	UG/L	
OC19P21A03F	O	C19P2	5	2	MANGANESE	Y	1	2003	134	UG/L	
OC19P22A03F	O	C19P2	5	2	MANGANESE	Y	2	2003	126	UG/L	
OC19P23A03F	O	C19P2	5	2	MANGANESE	Y	3	2003	115	UG/L	
OC19P24A03F	O	C19P2	5	2	MANGANESE	Y	4	2003	126	UG/L	

Table 7.20. Raw Data for Mercury.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03	A	C02P2	1	1	MERCURY	N	1	2003	0.2	UG/L	U
AC02P22A03	A	C02P2	1	1	MERCURY	N	2	2003	0.2	UG/L	U
AC02P23A03	A	C02P2	1	1	MERCURY	N	3	2003	0.2	UG/L	U
AC02P24A03	A	C02P2	1	1	MERCURY	N	4	2003	0.2	UG/L	U
AC031A03	A	C03	2	1	MERCURY	N	1	2003	0.2	UG/L	U
AC032A03	A	C03	2	1	MERCURY	N	2	2003	0.2	UG/L	U
AC033A03	A	C03	2	1	MERCURY	N	3	2003	0.2	UG/L	U
AC034A03	A	C03	2	1	MERCURY	N	4	2003	0.2	UG/L	U
AC041A03	A	C04	3	1	MERCURY	N	1	2003	0.2	UG/L	U
AC042A03	A	C04	3	1	MERCURY	N	2	2003	0.2	UG/L	U
AC043A03	A	C04	3	1	MERCURY	N	3	2003	0.2	UG/L	U
AC044A03	A	C04	3	1	MERCURY	N	4	2003	0.2	UG/L	U
AC071A03	A	C07	4	1	MERCURY	N	1	2003	0.2	UG/L	U
AC072A03	A	C07	4	1	MERCURY	N	2	2003	0.2	UG/L	U
AC073A03	A	C07	4	1	MERCURY	N	3	2003	0.2	UG/L	U

Table 7.20. Raw Data for Mercury. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC074A03	A	C07	4	1	MERCURY	N	4	2003	0.2	UG/L	U
AC08P21A03	A	C08P2	5	1	MERCURY	N	1	2003	0.2	UG/L	U
AC08P22A03	A	C08P2	5	1	MERCURY	N	2	2003	0.2	UG/L	U
AC08P23A03	A	C08P2	5	1	MERCURY	N	3	2003	0.2	UG/L	U
AC08P24A03	A	C08P2	5	1	MERCURY	N	4	2003	0.2	UG/L	U
AC09P21A03	A	C09P2	6	1	MERCURY	N	1	2003	0.2	UG/L	U
AC09P22A03	A	C09P2	6	1	MERCURY	N	2	2003	0.2	UG/L	U
AC09P23A03	A	C09P2	6	1	MERCURY	N	3	2003	0.2	UG/L	U
FD08280301	A	C09P2	6	1	MERCURY	N	3	2003	0.2	UG/L	U
AC09P24A03	A	C09P2	6	1	MERCURY	N	4	2003	0.2	UG/L	U
AC151A03	A	C15	7	1	MERCURY	N	1	2003	0.2	UG/L	U
FD03050301	A	C15	7	1	MERCURY	N	1	2003	0.2	UG/L	U
AC152A03	A	C15	7	1	MERCURY	N	2	2003	0.2	UG/L	U
FD06170301	A	C15	7	1	MERCURY	N	2	2003	0.2	UG/L	U
AC153A03	A	C15	7	1	MERCURY	N	3	2003	0.2	UG/L	U
FD09040301	A	C15	7	1	MERCURY	N	3	2003	0.2	UG/L	U
AC154A03	A	C15	7	1	MERCURY	N	4	2003	0.2	UG/L	U
FD12020301	A	C15	7	1	MERCURY	N	4	2003	0.2	UG/L	U
AC171A03	A	C17	8	1	MERCURY	N	1	2003	0.2	UG/L	U
FD03110301	A	C17	8	1	MERCURY	N	1	2003	0.2	UG/L	U
AC172A03	A	C17	8	1	MERCURY	N	2	2003	0.2	UG/L	U
FD06190301	A	C17	8	1	MERCURY	N	2	2003	0.2	UG/L	U
AC173A03	A	C17	8	1	MERCURY	N	3	2003	0.2	UG/L	U
AC174A03	A	C17	8	1	MERCURY	N	4	2003	0.2	UG/L	U
AC201A03	A	C20	9	1	MERCURY	N	1	2003	0.2	UG/L	U
AC202A03	A	C20	9	1	MERCURY	N	2	2003	0.2	UG/L	U
AC203A03	A	C20	9	1	MERCURY	N	3	2003	0.2	UG/L	U
AC204A03	A	C20	9	1	MERCURY	N	4	2003	0.2	UG/L	U
AC252A03	A	C25	10	1	MERCURY	N	2	2003	0.2	UG/L	U
AC253A03	A	C25	10	1	MERCURY	N	3	2003	0.2	UG/L	U
AC254A03	A	C25	10	1	MERCURY	N	4	2003	0.2	UG/L	U
AC261A03	A	C26	11	1	MERCURY	N	1	2003	0.2	UG/L	U
AC262A03	A	C26	11	1	MERCURY	N	2	2003	0.2	UG/L	U
AC263A03	A	C26	11	1	MERCURY	N	3	2003	0.2	UG/L	U
AC264A03	A	C26	11	1	MERCURY	N	4	2003	0.2	UG/L	U
AC272A03	A	C27	12	1	MERCURY	N	2	2003	0.2	UG/L	U
AC273A03	A	C27	12	1	MERCURY	N	3	2003	0.2	UG/L	U
AC274A03	A	C27	12	1	MERCURY	N	4	2003	0.2	UG/L	U
AC301A03	A	C30	13	1	MERCURY	N	1	2003	0.2	UG/L	U
AC302A03	A	C30	13	1	MERCURY	N	2	2003	0.2	UG/L	U
AC303A03	A	C30	13	1	MERCURY	N	3	2003	0.2	UG/L	U
AC304A03	A	C30	13	1	MERCURY	N	4	2003	0.2	UG/L	U
ASPA1A03	A	SPA	14	1	MERCURY	N	1	2003	0.2	UG/L	U
ASPA2A03	A	SPA	14	1	MERCURY	N	2	2003	0.2	UG/L	U

Table 7.20. Raw Data for Mercury. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
ASPA3A03	A	SPA	14	1	MERCURY	N	3	2003	0.2	UG/L	U
ASPA4A03	A	SPA	14	1	MERCURY	N	4	2003	0.2	UG/L	U
ASPC1A03	A	SPC	15	1	MERCURY	N	1	2003	0.2	UG/L	U
ASPC2A03	A	SPC	15	1	MERCURY	N	2	2003	0.2	UG/L	U
ASPC3A03	A	SPC	15	1	MERCURY	N	3	2003	0.2	UG/L	U
ASPC4A03	A	SPC	15	1	MERCURY	N	4	2003	0.2	UG/L	U
FD12180301	A	SPC	15	1	MERCURY	N	4	2003	0.2	UG/L	U
AC02P21A03F	A	C02P2	1	1	MERCURY	Y	1	2003	0.2	UG/L	U
AC02P22A03F	A	C02P2	1	1	MERCURY	Y	2	2003	0.2	UG/L	UJ
AC02P23A03F	A	C02P2	1	1	MERCURY	Y	3	2003	0.2	UG/L	U
AC02P24A03F	A	C02P2	1	1	MERCURY	Y	4	2003	0.2	UG/L	U
AC031A03F	A	C03	2	1	MERCURY	Y	1	2003	0.2	UG/L	U
AC032A03F	A	C03	2	1	MERCURY	Y	2	2003	0.2	UG/L	U
AC033A03F	A	C03	2	1	MERCURY	Y	3	2003	0.2	UG/L	U
AC034A03F	A	C03	2	1	MERCURY	Y	4	2003	0.2	UG/L	U
AC041A03F	A	C04	3	1	MERCURY	Y	1	2003	0.2	UG/L	U
AC042A03F	A	C04	3	1	MERCURY	Y	2	2003	0.2	UG/L	U
AC043A03F	A	C04	3	1	MERCURY	Y	3	2003	0.2	UG/L	U
AC044A03F	A	C04	3	1	MERCURY	Y	4	2003	0.2	UG/L	U
AC071A03F	A	C07	4	1	MERCURY	Y	1	2003	0.2	UG/L	U
AC072A03F	A	C07	4	1	MERCURY	Y	2	2003	0.2	UG/L	U
AC073A03F	A	C07	4	1	MERCURY	Y	3	2003	0.2	UG/L	U
AC074A03F	A	C07	4	1	MERCURY	Y	4	2003	0.2	UG/L	U
AC08P21A03F	A	C08P2	5	1	MERCURY	Y	1	2003	0.2	UG/L	U
AC08P22A03F	A	C08P2	5	1	MERCURY	Y	2	2003	0.2	UG/L	U
AC08P23A03F	A	C08P2	5	1	MERCURY	Y	3	2003	0.2	UG/L	U
AC08P24A03F	A	C08P2	5	1	MERCURY	Y	4	2003	0.2	UG/L	U
AC09P21A03F	A	C09P2	6	1	MERCURY	Y	1	2003	0.2	UG/L	U
AC09P22A03F	A	C09P2	6	1	MERCURY	Y	2	2003	0.2	UG/L	U
AC09P23A03F	A	C09P2	6	1	MERCURY	Y	3	2003	0.2	UG/L	U
FD08280301F	A	C09P2	6	1	MERCURY	Y	3	2003	0.2	UG/L	U
AC09P24A03F	A	C09P2	6	1	MERCURY	Y	4	2003	0.2	UG/L	U
AC151A03F	A	C15	7	1	MERCURY	Y	1	2003	0.2	UG/L	U
FD03050301F	A	C15	7	1	MERCURY	Y	1	2003	0.2	UG/L	U
AC152A03F	A	C15	7	1	MERCURY	Y	2	2003	0.2	UG/L	U
FD06170301F	A	C15	7	1	MERCURY	Y	2	2003	0.2	UG/L	U
AC153A03F	A	C15	7	1	MERCURY	Y	3	2003	0.2	UG/L	U
FD09040301F	A	C15	7	1	MERCURY	Y	3	2003	0.2	UG/L	U
AC154A03F	A	C15	7	1	MERCURY	Y	4	2003	0.2	UG/L	U
FD12020301F	A	C15	7	1	MERCURY	Y	4	2003	0.2	UG/L	U
AC171A03F	A	C17	8	1	MERCURY	Y	1	2003	0.2	UG/L	U
FD03110301F	A	C17	8	1	MERCURY	Y	1	2003	0.2	UG/L	U
AC172A03F	A	C17	8	1	MERCURY	Y	2	2003	0.37	UG/L	
FD06190301F	A	C17	8	1	MERCURY	Y	2	2003	0.2	UG/L	U

Table 7.20. Raw Data for Mercury. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC173A03F	A	C17	8	1	MERCURY	Y	3	2003	0.2	UG/L	U
AC174A03F	A	C17	8	1	MERCURY	Y	4	2003	0.2	UG/L	U
AC201A03F	A	C20	9	1	MERCURY	Y	1	2003	0.2	UG/L	U
AC202A03F	A	C20	9	1	MERCURY	Y	2	2003	0.2	UG/L	U
AC203A03F	A	C20	9	1	MERCURY	Y	3	2003	0.2	UG/L	U
AC204A03F	A	C20	9	1	MERCURY	Y	4	2003	0.2	UG/L	U
AC252A03F	A	C25	10	1	MERCURY	Y	2	2003	0.2	UG/L	U
AC253A03F	A	C25	10	1	MERCURY	Y	3	2003	0.2	UG/L	U
AC254A03F	A	C25	10	1	MERCURY	Y	4	2003	0.2	UG/L	U
AC261A03F	A	C26	11	1	MERCURY	Y	1	2003	0.2	UG/L	U
AC262A03F	A	C26	11	1	MERCURY	Y	2	2003	0.2	UG/L	U
AC263A03F	A	C26	11	1	MERCURY	Y	3	2003	0.2	UG/L	U
AC264A03F	A	C26	11	1	MERCURY	Y	4	2003	0.2	UG/L	U
AC272A03F	A	C27	12	1	MERCURY	Y	2	2003	0.2	UG/L	U
AC273A03F	A	C27	12	1	MERCURY	Y	3	2003	0.2	UG/L	U
AC274A03F	A	C27	12	1	MERCURY	Y	4	2003	0.2	UG/L	U
AC301A03F	A	C30	13	1	MERCURY	Y	1	2003	0.2	UG/L	U
AC302A03F	A	C30	13	1	MERCURY	Y	2	2003	0.2	UG/L	U
AC303A03F	A	C30	13	1	MERCURY	Y	3	2003	0.2	UG/L	U
AC304A03F	A	C30	13	1	MERCURY	Y	4	2003	0.2	UG/L	U
ASPA1A03F	A	SPA	14	1	MERCURY	Y	1	2003	0.2	UG/L	U
ASPA2A03F	A	SPA	14	1	MERCURY	Y	2	2003	0.2	UG/L	U
ASPA3A03F	A	SPA	14	1	MERCURY	Y	3	2003	0.2	UG/L	U
ASPA4A03F	A	SPA	14	1	MERCURY	Y	4	2003	0.2	UG/L	U
ASPC1A03F	A	SPC	15	1	MERCURY	Y	1	2003	0.2	UG/L	U
ASPC2A03F	A	SPC	15	1	MERCURY	Y	2	2003	0.2	UG/L	U
ASPC3A03F	A	SPC	15	1	MERCURY	Y	3	2003	0.2	UG/L	U
ASPC4A03F	A	SPC	15	1	MERCURY	Y	4	2003	0.2	UG/L	U
FD12180301F	A	SPC	15	1	MERCURY	Y	4	2003	0.2	UG/L	U
DC021A03	D	C02	1	1	MERCURY	N	1	2003	0.2	UG/L	U
DC023A03	D	C02	1	1	MERCURY	N	3	2003	0.2	UG/L	U
DC031A03	D	C03	2	1	MERCURY	N	1	2003	0.2	UG/L	U
DC033A03	D	C03	2	1	MERCURY	N	3	2003	0.2	UG/L	U
FD07140301	D	C03	2	1	MERCURY	N	3	2003	0.2	UG/L	U
DC041A03	D	C04	3	1	MERCURY	N	1	2003	0.2	UG/L	U
DC043A03	D	C04	3	1	MERCURY	N	3	2003	0.2	UG/L	U
FD07090301	D	C04	3	1	MERCURY	N	3	2003	0.2	UG/L	U
DC051A03	D	C05	4	1	MERCURY	N	1	2003	0.2	UG/L	U
FD01130301	D	C05	4	1	MERCURY	N	1	2003	0.2	UG/L	U
DC053A03	D	C05	4	1	MERCURY	N	3	2003	0.2	UG/L	U
DC061A03	D	C06	5	1	MERCURY	N	1	2003	0.2	UG/L	U
DC063A03	D	C06	5	1	MERCURY	N	3	2003	0.2	UG/L	U
DC071A03	D	C07	6	1	MERCURY	N	1	2003	0.2	UG/L	U
DC073A03	D	C07	6	1	MERCURY	N	3	2003	0.2	UG/L	U

Table 7.20. Raw Data for Mercury. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
DC081A03	D	C08	7	1	MERCURY	N	1	2003	0.2	UG/L	U
DC083A03	D	C08	7	1	MERCURY	N	3	2003	0.2	UG/L	U
DC021A03F	D	C02	1	1	MERCURY	Y	1	2003	0.2	UG/L	U
DC023A03F	D	C02	1	1	MERCURY	Y	3	2003	0.2	UG/L	U
DC031A03F	D	C03	2	1	MERCURY	Y	1	2003	0.2	UG/L	U
DC033A03F	D	C03	2	1	MERCURY	Y	3	2003	0.2	UG/L	U
FD07140301F	D	C03	2	1	MERCURY	Y	3	2003	0.2	UG/L	U
DC041A03F	D	C04	3	1	MERCURY	Y	1	2003	0.2	UG/L	U
DC043A03F	D	C04	3	1	MERCURY	Y	3	2003	0.2	UG/L	U
FD07090301F	D	C04	3	1	MERCURY	Y	3	2003	0.2	UG/L	U
DC051A03F	D	C05	4	1	MERCURY	Y	1	2003	0.2	UG/L	U
FD01130301F	D	C05	4	1	MERCURY	Y	1	2003	0.2	UG/L	U
DC053A03F	D	C05	4	1	MERCURY	Y	3	2003	0.2	UG/L	U
DC061A03F	D	C06	5	1	MERCURY	Y	1	2003	0.2	UG/L	U
DC063A03F	D	C06	5	1	MERCURY	Y	3	2003	0.2	UG/L	U
DC071A03F	D	C07	6	1	MERCURY	Y	1	2003	0.2	UG/L	U
DC073A03F	D	C07	6	1	MERCURY	Y	3	2003	0.2	UG/L	U
DC081A03F	D	C08	7	1	MERCURY	Y	1	2003	0.2	UG/L	U
DC083A03F	D	C08	7	1	MERCURY	Y	3	2003	0.2	UG/L	U
DC03P21A03	D	C03P2	1	2	MERCURY	N	1	2003	0.2	UG/L	U
FD01090301	D	C03P2	1	2	MERCURY	N	1	2003	0.2	UG/L	U
DC03P23A03	D	C03P2	1	2	MERCURY	N	3	2003	0.2	UG/L	U
DC04P21A03	D	C04P2	2	2	MERCURY	N	1	2003	0.2	UG/L	U
DC04P23A03	D	C04P2	2	2	MERCURY	N	3	2003	0.2	UG/L	U
DC06P21A03	D	C06P2	3	2	MERCURY	N	1	2003	0.2	UG/L	U
DC06P23A03	D	C06P2	3	2	MERCURY	N	3	2003	0.38	UG/L	
DC08P23A03	D	C08P2	4	2	MERCURY	N	3	2003	0.2	UG/L	U
DC03P21A03F	D	C03P2	1	2	MERCURY	Y	1	2003	0.2	UG/L	U
FD01090301F	D	C03P2	1	2	MERCURY	Y	1	2003	0.2	UG/L	U
DC03P23A03F	D	C03P2	1	2	MERCURY	Y	3	2003	0.2	UG/L	U
DC04P21A03F	D	C04P2	2	2	MERCURY	Y	1	2003	0.2	UG/L	U
DC04P23A03F	D	C04P2	2	2	MERCURY	Y	3	2003	0.2	UG/L	U
DC06P21A03F	D	C06P2	3	2	MERCURY	Y	1	2003	0.2	UG/L	U
DC06P23A03F	D	C06P2	3	2	MERCURY	Y	3	2003	0.2	UG/L	U
DC08P23A03F	D	C08P2	4	2	MERCURY	Y	3	2003	0.2	UG/L	U
OC081A03	O	C08	1	1	MERCURY	N	1	2003	0.2	UG/L	U
OC082A03	O	C08	1	1	MERCURY	N	2	2003	0.2	UG/L	U
OC083A03	O	C08	1	1	MERCURY	N	3	2003	0.2	UG/L	U
OC084A03	O	C08	1	1	MERCURY	N	4	2003	0.2	UG/L	U
OC111A03	O	C11	2	1	MERCURY	N	1	2003	0.2	UG/L	U
OC112A03	O	C11	2	1	MERCURY	N	2	2003	0.2	UG/L	U
OC113A03	O	C11	2	1	MERCURY	N	3	2003	0.2	UG/L	U
OC114A03	O	C11	2	1	MERCURY	N	4	2003	0.2	UG/L	U
OC121A03	O	C12	3	1	MERCURY	N	1	2003	0.2	UG/L	U

Table 7.20. Raw Data for Mercury. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
FD04290301	O	C12	3	1	MERCURY	N	2	2003	0.2	UG/L	U
OC122A03	O	C12	3	1	MERCURY	N	2	2003	0.2	UG/L	U
OC123A03	O	C12	3	1	MERCURY	N	3	2003	0.2	UG/L	U
FD10150301	O	C12	3	1	MERCURY	N	4	2003	0.2	UG/L	U
OC124A03	O	C12	3	1	MERCURY	N	4	2003	0.2	UG/L	U
OC131A03	O	C13	4	1	MERCURY	N	1	2003	0.2	UG/L	U
OC132A03	O	C13	4	1	MERCURY	N	2	2003	0.2	UG/L	U
OC133A03	O	C13	4	1	MERCURY	N	3	2003	0.2	UG/L	U
OC134A03	O	C13	4	1	MERCURY	N	4	2003	0.2	UG/L	U
OC141A03	O	C14	5	1	MERCURY	N	1	2003	0.2	UG/L	U
OC142A03	O	C14	5	1	MERCURY	N	2	2003	0.2	UG/L	U
OC143A03	O	C14	5	1	MERCURY	N	3	2003	0.2	UG/L	U
OC144A03	O	C14	5	1	MERCURY	N	4	2003	0.2	UG/L	U
FD01290301	O	C15	6	1	MERCURY	N	1	2003	0.2	UG/L	U
OC151A03	O	C15	6	1	MERCURY	N	1	2003	0.2	UG/L	U
FD05070301	O	C15	6	1	MERCURY	N	2	2003	0.2	UG/L	U
OC152A03	O	C15	6	1	MERCURY	N	2	2003	0.2	UG/L	U
FD08120301	O	C15	6	1	MERCURY	N	3	2003	0.2	UG/L	U
OC153A03	O	C15	6	1	MERCURY	N	3	2003	0.2	UG/L	U
FD10300301	O	C15	6	1	MERCURY	N	4	2003	0.2	UG/L	U
OC154A03	O	C15	6	1	MERCURY	N	4	2003	0.2	UG/L	U
FD02130301	O	C16	7	1	MERCURY	N	1	2003	0.2	UG/L	U
OC161A03	O	C16	7	1	MERCURY	N	1	2003	0.2	UG/L	U
OC162A03	O	C16	7	1	MERCURY	N	2	2003	0.2	UG/L	U
OC163A03	O	C16	7	1	MERCURY	N	3	2003	0.2	UG/L	U
OC164A03	O	C16	7	1	MERCURY	N	4	2003	0.2	UG/L	U
OC181A03	O	C18	8	1	MERCURY	N	1	2003	0.2	UG/L	U
OC182A03	O	C18	8	1	MERCURY	N	2	2003	0.2	UG/L	U
OC183A03	O	C18	8	1	MERCURY	N	3	2003	0.2	UG/L	U
OC184A03	O	C18	8	1	MERCURY	N	4	2003	0.2	UG/L	U
OC191A03	O	C19	9	1	MERCURY	N	1	2003	0.2	UG/L	U
OC192A03	O	C19	9	1	MERCURY	N	2	2003	0.2	UG/L	U
FD08200301	O	C19	9	1	MERCURY	N	3	2003	0.2	UG/L	U
OC193A03	O	C19	9	1	MERCURY	N	3	2003	0.2	UG/L	U
OC194A03	O	C19	9	1	MERCURY	N	4	2003	0.2	UG/L	U
OC081A03F	O	C08	1	1	MERCURY	Y	1	2003	0.2	UG/L	U
OC082A03F	O	C08	1	1	MERCURY	Y	2	2003	0.2	UG/L	U
OC083A03F	O	C08	1	1	MERCURY	Y	3	2003	0.2	UG/L	U
OC084A03F	O	C08	1	1	MERCURY	Y	4	2003	0.2	UG/L	U
OC111A03F	O	C11	2	1	MERCURY	Y	1	2003	0.2	UG/L	U
OC112A03F	O	C11	2	1	MERCURY	Y	2	2003	0.2	UG/L	U
OC113A03F	O	C11	2	1	MERCURY	Y	3	2003	0.2	UG/L	U
OC114A03F	O	C11	2	1	MERCURY	Y	4	2003	0.2	UG/L	U
OC121A03F	O	C12	3	1	MERCURY	Y	1	2003	0.2	UG/L	U

Table 7.20. Raw Data for Mercury. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
FD04290301F	O	C12	3	1	MERCURY	Y	2	2003	0.2	UG/L	U
OC122A03F	O	C12	3	1	MERCURY	Y	2	2003	0.2	UG/L	U
OC123A03F	O	C12	3	1	MERCURY	Y	3	2003	0.2	UG/L	U
FD10150301F	O	C12	3	1	MERCURY	Y	4	2003	0.2	UG/L	U
OC124A03F	O	C12	3	1	MERCURY	Y	4	2003	0.2	UG/L	U
OC131A03F	O	C13	4	1	MERCURY	Y	1	2003	0.2	UG/L	U
OC132A03F	O	C13	4	1	MERCURY	Y	2	2003	0.2	UG/L	U
OC133A03F	O	C13	4	1	MERCURY	Y	3	2003	0.2	UG/L	U
OC134A03F	O	C13	4	1	MERCURY	Y	4	2003	0.2	UG/L	U
OC141A03F	O	C14	5	1	MERCURY	Y	1	2003	0.2	UG/L	U
OC142A03F	O	C14	5	1	MERCURY	Y	2	2003	0.2	UG/L	U
OC143A03F	O	C14	5	1	MERCURY	Y	3	2003	0.2	UG/L	U
OC144A03F	O	C14	5	1	MERCURY	Y	4	2003	0.2	UG/L	U
FD01290301F	O	C15	6	1	MERCURY	Y	1	2003	0.2	UG/L	U
OC151A03F	O	C15	6	1	MERCURY	Y	1	2003	0.2	UG/L	U
FD05070301F	O	C15	6	1	MERCURY	Y	2	2003	0.2	UG/L	U
OC152A03F	O	C15	6	1	MERCURY	Y	2	2003	0.2	UG/L	U
FD08120301F	O	C15	6	1	MERCURY	Y	3	2003	0.2	UG/L	U
OC153A03F	O	C15	6	1	MERCURY	Y	3	2003	0.2	UG/L	U
FD10300301F	O	C15	6	1	MERCURY	Y	4	2003	0.2	UG/L	U
OC154A03F	O	C15	6	1	MERCURY	Y	4	2003	0.2	UG/L	U
FD02130301F	O	C16	7	1	MERCURY	Y	1	2003	0.2	UG/L	U
OC161A03F	O	C16	7	1	MERCURY	Y	1	2003	0.2	UG/L	U
OC162A03F	O	C16	7	1	MERCURY	Y	2	2003	0.2	UG/L	U
OC163A03F	O	C16	7	1	MERCURY	Y	3	2003	0.2	UG/L	U
OC164A03F	O	C16	7	1	MERCURY	Y	4	2003	0.2	UG/L	U
OC181A03F	O	C18	8	1	MERCURY	Y	1	2003	0.2	UG/L	U
OC182A03F	O	C18	8	1	MERCURY	Y	2	2003	0.2	UG/L	U
OC183A03F	O	C18	8	1	MERCURY	Y	3	2003	0.2	UG/L	U
OC184A03F	O	C18	8	1	MERCURY	Y	4	2003	0.2	UG/L	U
OC191A03F	O	C19	9	1	MERCURY	Y	1	2003	0.2	UG/L	U
OC192A03F	O	C19	9	1	MERCURY	Y	2	2003	0.2	UG/L	U
FD08200301F	O	C19	9	1	MERCURY	Y	3	2003	0.2	UG/L	U
OC193A03F	O	C19	9	1	MERCURY	Y	3	2003	0.2	UG/L	U
OC194A03F	O	C19	9	1	MERCURY	Y	4	2003	0.2	UG/L	U
OC11P21A03	O	C11P2	1	2	MERCURY	N	1	2003	0.2	UG/L	U
OC11P22A03	O	C11P2	1	2	MERCURY	N	2	2003	0.2	UG/L	U
OC11P23A03	O	C11P2	1	2	MERCURY	N	3	2003	0.2	UG/L	U
OC11P24A03	O	C11P2	1	2	MERCURY	N	4	2003	0.2	UG/L	U
OC13P21A03	O	C13P2	2	2	MERCURY	N	1	2003	0.2	UG/L	U
OC13P22A03	O	C13P2	2	2	MERCURY	N	2	2003	0.2	UG/L	U
OC13P23A03	O	C13P2	2	2	MERCURY	N	3	2003	0.2	UG/L	U
OC13P24A03	O	C13P2	2	2	MERCURY	N	4	2003	0.2	UG/L	U
OC14P21A03	O	C14P2	3	2	MERCURY	N	1	2003	0.2	UG/L	U

Table 7.20. Raw Data for Mercury. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC14P22A03	O	C14P2	3	2	MERCURY	N	2	2003	0.2	UG/L	U
OC14P23A03	O	C14P2	3	2	MERCURY	N	3	2003	0.2	UG/L	U
OC14P24A03	O	C14P2	3	2	MERCURY	N	4	2003	0.2	UG/L	U
OC18P21A03	O	C18P2	4	2	MERCURY	N	1	2003	0.2	UG/L	U
OC18P22A03	O	C18P2	4	2	MERCURY	N	2	2003	0.2	UG/L	U
OC18P23A03	O	C18P2	4	2	MERCURY	N	3	2003	0.2	UG/L	U
OC18P24A03	O	C18P2	4	2	MERCURY	N	4	2003	0.2	UG/L	U
OC19P21A03	O	C19P2	5	2	MERCURY	N	1	2003	0.2	UG/L	U
OC19P22A03	O	C19P2	5	2	MERCURY	N	2	2003	0.2	UG/L	U
OC19P23A03	O	C19P2	5	2	MERCURY	N	3	2003	0.2	UG/L	U
OC19P24A03	O	C19P2	5	2	MERCURY	N	4	2003	0.2	UG/L	U
OC11P21A03F	O	C11P2	1	2	MERCURY	Y	1	2003	0.2	UG/L	U
OC11P22A03F	O	C11P2	1	2	MERCURY	Y	2	2003	0.2	UG/L	U
OC11P23A03F	O	C11P2	1	2	MERCURY	Y	3	2003	0.2	UG/L	U
OC11P24A03F	O	C11P2	1	2	MERCURY	Y	4	2003	0.2	UG/L	U
OC13P21A03F	O	C13P2	2	2	MERCURY	Y	1	2003	0.2	UG/L	U
OC13P22A03F	O	C13P2	2	2	MERCURY	Y	2	2003	0.2	UG/L	U
OC13P23A03F	O	C13P2	2	2	MERCURY	Y	3	2003	0.2	UG/L	U
OC13P24A03F	O	C13P2	2	2	MERCURY	Y	4	2003	0.2	UG/L	U
OC14P21A03F	O	C14P2	3	2	MERCURY	Y	1	2003	0.2	UG/L	U
OC14P22A03F	O	C14P2	3	2	MERCURY	Y	2	2003	0.2	UG/L	U
OC14P23A03F	O	C14P2	3	2	MERCURY	Y	3	2003	0.2	UG/L	U
OC14P24A03F	O	C14P2	3	2	MERCURY	Y	4	2003	0.2	UG/L	U
OC18P21A03F	O	C18P2	4	2	MERCURY	Y	1	2003	0.2	UG/L	U
OC18P22A03F	O	C18P2	4	2	MERCURY	Y	2	2003	0.2	UG/L	U
OC18P23A03F	O	C18P2	4	2	MERCURY	Y	3	2003	0.2	UG/L	U
OC18P24A03F	O	C18P2	4	2	MERCURY	Y	4	2003	0.2	UG/L	U
OC19P21A03F	O	C19P2	5	2	MERCURY	Y	1	2003	0.2	UG/L	U
OC19P22A03F	O	C19P2	5	2	MERCURY	Y	2	2003	0.2	UG/L	U
OC19P23A03F	O	C19P2	5	2	MERCURY	Y	3	2003	0.2	UG/L	U
OC19P24A03F	O	C19P2	5	2	MERCURY	Y	4	2003	0.2	UG/L	U

Table 7.21. Raw Data for Nickel.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03	A	C02P2	1	1	NICKEL	N	1	2003	11.1	UG/L	U
AC02P22A03	A	C02P2	1	1	NICKEL	N	2	2003	11.1	UG/L	U
AC02P23A03	A	C02P2	1	1	NICKEL	N	3	2003	11.1	UG/L	U
AC02P24A03	A	C02P2	1	1	NICKEL	N	4	2003	11.1	UG/L	U
AC031A03	A	C03	2	1	NICKEL	N	1	2003	11.1	UG/L	U
AC032A03	A	C03	2	1	NICKEL	N	2	2003	11.1	UG/L	U
AC033A03	A	C03	2	1	NICKEL	N	3	2003	11.1	UG/L	U
AC034A03	A	C03	2	1	NICKEL	N	4	2003	11.1	UG/L	U
AC041A03	A	C04	3	1	NICKEL	N	1	2003	11.1	UG/L	U

Table 7.21. Raw Data for Nickel. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC042A03	A	C04	3	1	NICKEL	N	2	2003	11.1	UG/L	U
AC043A03	A	C04	3	1	NICKEL	N	3	2003	11.1	UG/L	U
AC044A03	A	C04	3	1	NICKEL	N	4	2003	11.1	UG/L	U
AC071A03	A	C07	4	1	NICKEL	N	1	2003	11.1	UG/L	U
AC072A03	A	C07	4	1	NICKEL	N	2	2003	11.1	UG/L	U
AC073A03	A	C07	4	1	NICKEL	N	3	2003	11.1	UG/L	U
AC074A03	A	C07	4	1	NICKEL	N	4	2003	11.1	UG/L	U
AC08P21A03	A	C08P2	5	1	NICKEL	N	1	2003	11.1	UG/L	U
AC08P22A03	A	C08P2	5	1	NICKEL	N	2	2003	11.1	UG/L	U
AC08P23A03	A	C08P2	5	1	NICKEL	N	3	2003	11.1	UG/L	U
AC08P24A03	A	C08P2	5	1	NICKEL	N	4	2003	11.1	UG/L	U
AC09P21A03	A	C09P2	6	1	NICKEL	N	1	2003	11.1	UG/L	U
AC09P22A03	A	C09P2	6	1	NICKEL	N	2	2003	11.1	UG/L	U
AC09P23A03	A	C09P2	6	1	NICKEL	N	3	2003	11.1	UG/L	U
FD08280301	A	C09P2	6	1	NICKEL	N	3	2003	11.1	UG/L	U
AC09P24A03	A	C09P2	6	1	NICKEL	N	4	2003	11.1	UG/L	U
AC151A03	A	C15	7	1	NICKEL	N	1	2003	11.1	UG/L	U
FD03050301	A	C15	7	1	NICKEL	N	1	2003	11.1	UG/L	U
AC152A03	A	C15	7	1	NICKEL	N	2	2003	11.1	UG/L	U
FD06170301	A	C15	7	1	NICKEL	N	2	2003	11.1	UG/L	U
AC153A03	A	C15	7	1	NICKEL	N	3	2003	11.1	UG/L	U
FD09040301	A	C15	7	1	NICKEL	N	3	2003	11.1	UG/L	U
AC154A03	A	C15	7	1	NICKEL	N	4	2003	11.1	UG/L	U
FD12020301	A	C15	7	1	NICKEL	N	4	2003	11.1	UG/L	U
AC171A03	A	C17	8	1	NICKEL	N	1	2003	11.1	UG/L	U
FD03110301	A	C17	8	1	NICKEL	N	1	2003	11.1	UG/L	U
AC172A03	A	C17	8	1	NICKEL	N	2	2003	11.1	UG/L	U
FD06190301	A	C17	8	1	NICKEL	N	2	2003	11.1	UG/L	U
AC173A03	A	C17	8	1	NICKEL	N	3	2003	11.1	UG/L	U
AC174A03	A	C17	8	1	NICKEL	N	4	2003	11.1	UG/L	U
AC201A03	A	C20	9	1	NICKEL	N	1	2003	11.1	UG/L	U
AC202A03	A	C20	9	1	NICKEL	N	2	2003	11.1	UG/L	U
AC203A03	A	C20	9	1	NICKEL	N	3	2003	11.1	UG/L	U
AC204A03	A	C20	9	1	NICKEL	N	4	2003	11.1	UG/L	U
AC252A03	A	C25	10	1	NICKEL	N	2	2003	11.1	UG/L	U
AC253A03	A	C25	10	1	NICKEL	N	3	2003	11.1	UG/L	U
AC254A03	A	C25	10	1	NICKEL	N	4	2003	11.1	UG/L	U
AC261A03	A	C26	11	1	NICKEL	N	1	2003	11.1	UG/L	U
AC262A03	A	C26	11	1	NICKEL	N	2	2003	11.1	UG/L	U
AC263A03	A	C26	11	1	NICKEL	N	3	2003	11.1	UG/L	U
AC264A03	A	C26	11	1	NICKEL	N	4	2003	11.1	UG/L	U
AC272A03	A	C27	12	1	NICKEL	N	2	2003	11.1	UG/L	U
AC273A03	A	C27	12	1	NICKEL	N	3	2003	11.1	UG/L	U
AC274A03	A	C27	12	1	NICKEL	N	4	2003	11.1	UG/L	U

Table 7.21. Raw Data for Nickel. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC301A03	A	C30	13	1	NICKEL	N	1	2003	11.1	UG/L	U
AC302A03	A	C30	13	1	NICKEL	N	2	2003	11.1	UG/L	U
AC303A03	A	C30	13	1	NICKEL	N	3	2003	11.1	UG/L	U
AC304A03	A	C30	13	1	NICKEL	N	4	2003	11.1	UG/L	U
ASPA1A03	A	SPA	14	1	NICKEL	N	1	2003	11.1	UG/L	U
ASPA2A03	A	SPA	14	1	NICKEL	N	2	2003	11.1	UG/L	U
ASPA3A03	A	SPA	14	1	NICKEL	N	3	2003	11.1	UG/L	U
ASPA4A03	A	SPA	14	1	NICKEL	N	4	2003	11.1	UG/L	U
ASPC1A03	A	SPC	15	1	NICKEL	N	1	2003	11.1	UG/L	U
ASPC2A03	A	SPC	15	1	NICKEL	N	2	2003	11.1	UG/L	U
ASPC3A03	A	SPC	15	1	NICKEL	N	3	2003	11.1	UG/L	U
ASPC4A03	A	SPC	15	1	NICKEL	N	4	2003	11.1	UG/L	U
FD12180301	A	SPC	15	1	NICKEL	N	4	2003	11.1	UG/L	U
AC02P21A03F	A	C02P2	1	1	NICKEL	Y	1	2003	10	UG/L	U
AC02P22A03F	A	C02P2	1	1	NICKEL	Y	2	2003	10	UG/L	U
AC02P23A03F	A	C02P2	1	1	NICKEL	Y	3	2003	10	UG/L	U
AC02P24A03F	A	C02P2	1	1	NICKEL	Y	4	2003	10	UG/L	U
AC031A03F	A	C03	2	1	NICKEL	Y	1	2003	10	UG/L	U
AC032A03F	A	C03	2	1	NICKEL	Y	2	2003	10	UG/L	U
AC033A03F	A	C03	2	1	NICKEL	Y	3	2003	10	UG/L	U
AC034A03F	A	C03	2	1	NICKEL	Y	4	2003	10	UG/L	U
AC041A03F	A	C04	3	1	NICKEL	Y	1	2003	10	UG/L	U
AC042A03F	A	C04	3	1	NICKEL	Y	2	2003	10	UG/L	U
AC043A03F	A	C04	3	1	NICKEL	Y	3	2003	10	UG/L	U
AC044A03F	A	C04	3	1	NICKEL	Y	4	2003	10	UG/L	U
AC071A03F	A	C07	4	1	NICKEL	Y	1	2003	10	UG/L	U
AC072A03F	A	C07	4	1	NICKEL	Y	2	2003	10	UG/L	U
AC073A03F	A	C07	4	1	NICKEL	Y	3	2003	10	UG/L	U
AC074A03F	A	C07	4	1	NICKEL	Y	4	2003	10	UG/L	U
AC08P21A03F	A	C08P2	5	1	NICKEL	Y	1	2003	10	UG/L	U
AC08P22A03F	A	C08P2	5	1	NICKEL	Y	2	2003	10	UG/L	U
AC08P23A03F	A	C08P2	5	1	NICKEL	Y	3	2003	10	UG/L	U
AC08P24A03F	A	C08P2	5	1	NICKEL	Y	4	2003	10	UG/L	U
AC09P21A03F	A	C09P2	6	1	NICKEL	Y	1	2003	10	UG/L	U
AC09P22A03F	A	C09P2	6	1	NICKEL	Y	2	2003	10	UG/L	U
AC09P23A03F	A	C09P2	6	1	NICKEL	Y	3	2003	10	UG/L	U
FD08280301F	A	C09P2	6	1	NICKEL	Y	3	2003	10	UG/L	U
AC09P24A03F	A	C09P2	6	1	NICKEL	Y	4	2003	10	UG/L	U
AC151A03F	A	C15	7	1	NICKEL	Y	1	2003	10	UG/L	U
FD03050301F	A	C15	7	1	NICKEL	Y	1	2003	10	UG/L	U
AC152A03F	A	C15	7	1	NICKEL	Y	2	2003	10	UG/L	U
FD06170301F	A	C15	7	1	NICKEL	Y	2	2003	10	UG/L	U
AC153A03F	A	C15	7	1	NICKEL	Y	3	2003	10	UG/L	U
FD09040301F	A	C15	7	1	NICKEL	Y	3	2003	10	UG/L	U

Table 7.21. Raw Data for Nickel. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC154A03F	A	C15	7	1	NICKEL	Y	4	2003	10	UG/L	U
FD12020301F	A	C15	7	1	NICKEL	Y	4	2003	10	UG/L	U
AC171A03F	A	C17	8	1	NICKEL	Y	1	2003	10	UG/L	U
FD03110301F	A	C17	8	1	NICKEL	Y	1	2003	10	UG/L	U
AC172A03F	A	C17	8	1	NICKEL	Y	2	2003	10	UG/L	U
FD06190301F	A	C17	8	1	NICKEL	Y	2	2003	10	UG/L	U
AC173A03F	A	C17	8	1	NICKEL	Y	3	2003	10	UG/L	U
AC174A03F	A	C17	8	1	NICKEL	Y	4	2003	10	UG/L	U
AC201A03F	A	C20	9	1	NICKEL	Y	1	2003	10	UG/L	U
AC202A03F	A	C20	9	1	NICKEL	Y	2	2003	10	UG/L	U
AC203A03F	A	C20	9	1	NICKEL	Y	3	2003	10	UG/L	U
AC204A03F	A	C20	9	1	NICKEL	Y	4	2003	10	UG/L	U
AC252A03F	A	C25	10	1	NICKEL	Y	2	2003	10	UG/L	U
AC253A03F	A	C25	10	1	NICKEL	Y	3	2003	10	UG/L	U
AC254A03F	A	C25	10	1	NICKEL	Y	4	2003	10	UG/L	U
AC261A03F	A	C26	11	1	NICKEL	Y	1	2003	10	UG/L	U
AC262A03F	A	C26	11	1	NICKEL	Y	2	2003	10	UG/L	U
AC263A03F	A	C26	11	1	NICKEL	Y	3	2003	10	UG/L	U
AC264A03F	A	C26	11	1	NICKEL	Y	4	2003	10	UG/L	U
AC272A03F	A	C27	12	1	NICKEL	Y	2	2003	10	UG/L	U
AC273A03F	A	C27	12	1	NICKEL	Y	3	2003	10	UG/L	U
AC274A03F	A	C27	12	1	NICKEL	Y	4	2003	10	UG/L	U
AC301A03F	A	C30	13	1	NICKEL	Y	1	2003	10	UG/L	U
AC302A03F	A	C30	13	1	NICKEL	Y	2	2003	10	UG/L	U
AC303A03F	A	C30	13	1	NICKEL	Y	3	2003	10	UG/L	U
AC304A03F	A	C30	13	1	NICKEL	Y	4	2003	10	UG/L	U
ASPA1A03F	A	SPA	14	1	NICKEL	Y	1	2003	10	UG/L	U
ASPA2A03F	A	SPA	14	1	NICKEL	Y	2	2003	10	UG/L	U
ASPA3A03F	A	SPA	14	1	NICKEL	Y	3	2003	10	UG/L	U
ASPA4A03F	A	SPA	14	1	NICKEL	Y	4	2003	10	UG/L	U
ASPC1A03F	A	SPC	15	1	NICKEL	Y	1	2003	10	UG/L	U
ASPC2A03F	A	SPC	15	1	NICKEL	Y	2	2003	10	UG/L	U
ASPC3A03F	A	SPC	15	1	NICKEL	Y	3	2003	10	UG/L	U
ASPC4A03F	A	SPC	15	1	NICKEL	Y	4	2003	10	UG/L	U
FD12180301F	A	SPC	15	1	NICKEL	Y	4	2003	10	UG/L	U
DC021A03	D	C02	1	1	NICKEL	N	1	2003	1.1	UG/L	U
DC023A03	D	C02	1	1	NICKEL	N	3	2003	11.1	UG/L	U
DC031A03	D	C03	2	1	NICKEL	N	1	2003	1.1	UG/L	U
DC033A03	D	C03	2	1	NICKEL	N	3	2003	11.1	UG/L	U
FD07140301	D	C03	2	1	NICKEL	N	3	2003	11.1	UG/L	U
DC041A03	D	C04	3	1	NICKEL	N	1	2003	1.1	UG/L	U
DC043A03	D	C04	3	1	NICKEL	N	3	2003	11.1	UG/L	U
FD07090301	D	C04	3	1	NICKEL	N	3	2003	11.1	UG/L	U
DC051A03	D	C05	4	1	NICKEL	N	1	2003	1.1	UG/L	U

Table 7.21. Raw Data for Nickel. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
FD01130301	D	C05	4	1	NICKEL	N	1	2003	1.1	UG/L	U
DC053A03	D	C05	4	1	NICKEL	N	3	2003	11.1	UG/L	U
DC061A03	D	C06	5	1	NICKEL	N	1	2003	1.1	UG/L	U
DC063A03	D	C06	5	1	NICKEL	N	3	2003	11.1	UG/L	U
DC071A03	D	C07	6	1	NICKEL	N	1	2003	1.1	UG/L	U
DC073A03	D	C07	6	1	NICKEL	N	3	2003	11.1	UG/L	U
DC081A03	D	C08	7	1	NICKEL	N	1	2003	2.9	UG/L	
DC083A03	D	C08	7	1	NICKEL	N	3	2003	11.1	UG/L	U
DC021A03F	D	C02	1	1	NICKEL	Y	1	2003	1	UG/L	U
DC023A03F	D	C02	1	1	NICKEL	Y	3	2003	10	UG/L	U
DC031A03F	D	C03	2	1	NICKEL	Y	1	2003	1	UG/L	U
DC033A03F	D	C03	2	1	NICKEL	Y	3	2003	10	UG/L	U
FD07140301F	D	C03	2	1	NICKEL	Y	3	2003	10	UG/L	U
DC041A03F	D	C04	3	1	NICKEL	Y	1	2003	1	UG/L	U
DC043A03F	D	C04	3	1	NICKEL	Y	3	2003	10	UG/L	U
FD07090301F	D	C04	3	1	NICKEL	Y	3	2003	10	UG/L	U
DC051A03F	D	C05	4	1	NICKEL	Y	1	2003	1	UG/L	U
FD01130301F	D	C05	4	1	NICKEL	Y	1	2003	1	UG/L	U
DC053A03F	D	C05	4	1	NICKEL	Y	3	2003	10	UG/L	U
DC061A03F	D	C06	5	1	NICKEL	Y	1	2003	1	UG/L	U
DC063A03F	D	C06	5	1	NICKEL	Y	3	2003	10	UG/L	U
DC071A03F	D	C07	6	1	NICKEL	Y	1	2003	1	UG/L	U
DC073A03F	D	C07	6	1	NICKEL	Y	3	2003	10	UG/L	U
DC081A03F	D	C08	7	1	NICKEL	Y	1	2003	1	UG/L	U
DC083A03F	D	C08	7	1	NICKEL	Y	3	2003	10	UG/L	U
DC03P21A03	D	C03P2	1	2	NICKEL	N	1	2003	15.2	UG/L	
FD01090301	D	C03P2	1	2	NICKEL	N	1	2003	21.5	UG/L	
DC03P23A03	D	C03P2	1	2	NICKEL	N	3	2003	11.1	UG/L	U
DC04P21A03	D	C04P2	2	2	NICKEL	N	1	2003	1.1	UG/L	U
DC04P23A03	D	C04P2	2	2	NICKEL	N	3	2003	11.1	UG/L	U
DC06P21A03	D	C06P2	3	2	NICKEL	N	1	2003	1.1	UG/L	U
DC06P23A03	D	C06P2	3	2	NICKEL	N	3	2003	11.1	UG/L	U
DC08P23A03	D	C08P2	4	2	NICKEL	N	3	2003	23.9	UG/L	
DC03P21A03F	D	C03P2	1	2	NICKEL	Y	1	2003	1	UG/L	U
FD01090301F	D	C03P2	1	2	NICKEL	Y	1	2003	1	UG/L	U
DC03P23A03F	D	C03P2	1	2	NICKEL	Y	3	2003	10	UG/L	U
DC04P21A03F	D	C04P2	2	2	NICKEL	Y	1	2003	1	UG/L	U
DC04P23A03F	D	C04P2	2	2	NICKEL	Y	3	2003	10	UG/L	U
DC06P21A03F	D	C06P2	3	2	NICKEL	Y	1	2003	1	UG/L	U
DC06P23A03F	D	C06P2	3	2	NICKEL	Y	3	2003	10	UG/L	U
DC08P23A03F	D	C08P2	4	2	NICKEL	Y	3	2003	23.8	UG/L	
OC081A03	O	C08	1	1	NICKEL	N	1	2003	11.1	UG/L	U
OC082A03	O	C08	1	1	NICKEL	N	2	2003	11.1	UG/L	U
OC083A03	O	C08	1	1	NICKEL	N	3	2003	11.1	UG/L	U

Table 7.21. Raw Data for Nickel. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC084A03	O	C08	1	1	NICKEL	N	4	2003	11.1	UG/L	U
OC111A03	O	C11	2	1	NICKEL	N	1	2003	11.1	UG/L	U
OC112A03	O	C11	2	1	NICKEL	N	2	2003	11.1	UG/L	U
OC113A03	O	C11	2	1	NICKEL	N	3	2003	11.1	UG/L	U
OC114A03	O	C11	2	1	NICKEL	N	4	2003	11.1	UG/L	U
OC121A03	O	C12	3	1	NICKEL	N	1	2003	11.1	UG/L	U
FD04290301	O	C12	3	1	NICKEL	N	2	2003	11.1	UG/L	U
OC122A03	O	C12	3	1	NICKEL	N	2	2003	11.1	UG/L	U
OC123A03	O	C12	3	1	NICKEL	N	3	2003	11.1	UG/L	U
FD10150301	O	C12	3	1	NICKEL	N	4	2003	11.1	UG/L	U
OC124A03	O	C12	3	1	NICKEL	N	4	2003	11.1	UG/L	U
OC131A03	O	C13	4	1	NICKEL	N	1	2003	11.1	UG/L	U
OC132A03	O	C13	4	1	NICKEL	N	2	2003	11.1	UG/L	U
OC133A03	O	C13	4	1	NICKEL	N	3	2003	11.1	UG/L	U
OC134A03	O	C13	4	1	NICKEL	N	4	2003	11.1	UG/L	U
OC141A03	O	C14	5	1	NICKEL	N	1	2003	11.1	UG/L	U
OC142A03	O	C14	5	1	NICKEL	N	2	2003	11.1	UG/L	U
OC143A03	O	C14	5	1	NICKEL	N	3	2003	11.1	UG/L	U
OC144A03	O	C14	5	1	NICKEL	N	4	2003	11.1	UG/L	U
FD01290301	O	C15	6	1	NICKEL	N	1	2003	11.1	UG/L	U
OC151A03	O	C15	6	1	NICKEL	N	1	2003	11.1	UG/L	U
FD05070301	O	C15	6	1	NICKEL	N	2	2003	11.1	UG/L	U
OC152A03	O	C15	6	1	NICKEL	N	2	2003	11.1	UG/L	U
FD08120301	O	C15	6	1	NICKEL	N	3	2003	11.1	UG/L	U
OC153A03	O	C15	6	1	NICKEL	N	3	2003	11.1	UG/L	U
FD10300301	O	C15	6	1	NICKEL	N	4	2003	11.1	UG/L	U
OC154A03	O	C15	6	1	NICKEL	N	4	2003	11.1	UG/L	U
FD02130301	O	C16	7	1	NICKEL	N	1	2003	11.1	UG/L	U
OC161A03	O	C16	7	1	NICKEL	N	1	2003	11.1	UG/L	U
OC162A03	O	C16	7	1	NICKEL	N	2	2003	11.1	UG/L	U
OC163A03	O	C16	7	1	NICKEL	N	3	2003	11.1	UG/L	U
OC164A03	O	C16	7	1	NICKEL	N	4	2003	11.1	UG/L	U
OC181A03	O	C18	8	1	NICKEL	N	1	2003	11.1	UG/L	U
OC182A03	O	C18	8	1	NICKEL	N	2	2003	11.1	UG/L	U
OC183A03	O	C18	8	1	NICKEL	N	3	2003	11.1	UG/L	U
OC184A03	O	C18	8	1	NICKEL	N	4	2003	11.1	UG/L	U
OC191A03	O	C19	9	1	NICKEL	N	1	2003	11.1	UG/L	U
OC192A03	O	C19	9	1	NICKEL	N	2	2003	11.1	UG/L	U
FD08200301	O	C19	9	1	NICKEL	N	3	2003	11.1	UG/L	U
OC193A03	O	C19	9	1	NICKEL	N	3	2003	11.1	UG/L	U
OC194A03	O	C19	9	1	NICKEL	N	4	2003	11.1	UG/L	U
OC081A03F	O	C08	1	1	NICKEL	Y	1	2003	10	UG/L	U
OC082A03F	O	C08	1	1	NICKEL	Y	2	2003	10	UG/L	U
OC083A03F	O	C08	1	1	NICKEL	Y	3	2003	10	UG/L	U

Table 7.21. Raw Data for Nickel. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC084A03F	O	C08	1	1	NICKEL	Y	4	2003	10	UG/L	U
OC111A03F	O	C11	2	1	NICKEL	Y	1	2003	10	UG/L	U
OC112A03F	O	C11	2	1	NICKEL	Y	2	2003	10	UG/L	U
OC113A03F	O	C11	2	1	NICKEL	Y	3	2003	10	UG/L	U
OC114A03F	O	C11	2	1	NICKEL	Y	4	2003	10	UG/L	U
OC121A03F	O	C12	3	1	NICKEL	Y	1	2003	10	UG/L	U
FD04290301F	O	C12	3	1	NICKEL	Y	2	2003	10	UG/L	U
OC122A03F	O	C12	3	1	NICKEL	Y	2	2003	10	UG/L	U
OC123A03F	O	C12	3	1	NICKEL	Y	3	2003	10	UG/L	U
FD10150301F	O	C12	3	1	NICKEL	Y	4	2003	10	UG/L	U
OC124A03F	O	C12	3	1	NICKEL	Y	4	2003	10	UG/L	U
OC131A03F	O	C13	4	1	NICKEL	Y	1	2003	10	UG/L	U
OC132A03F	O	C13	4	1	NICKEL	Y	2	2003	10	UG/L	U
OC133A03F	O	C13	4	1	NICKEL	Y	3	2003	10	UG/L	U
OC134A03F	O	C13	4	1	NICKEL	Y	4	2003	10	UG/L	U
OC141A03F	O	C14	5	1	NICKEL	Y	1	2003	10	UG/L	U
OC142A03F	O	C14	5	1	NICKEL	Y	2	2003	10	UG/L	U
OC143A03F	O	C14	5	1	NICKEL	Y	3	2003	10	UG/L	U
OC144A03F	O	C14	5	1	NICKEL	Y	4	2003	10	UG/L	U
FD01290301F	O	C15	6	1	NICKEL	Y	1	2003	10	UG/L	U
OC151A03F	O	C15	6	1	NICKEL	Y	1	2003	10	UG/L	U
FD05070301F	O	C15	6	1	NICKEL	Y	2	2003	10	UG/L	U
OC152A03F	O	C15	6	1	NICKEL	Y	2	2003	10	UG/L	U
FD08120301F	O	C15	6	1	NICKEL	Y	3	2003	10	UG/L	U
OC153A03F	O	C15	6	1	NICKEL	Y	3	2003	10	UG/L	U
FD10300301F	O	C15	6	1	NICKEL	Y	4	2003	10	UG/L	U
OC154A03F	O	C15	6	1	NICKEL	Y	4	2003	10	UG/L	U
FD02130301F	O	C16	7	1	NICKEL	Y	1	2003	10	UG/L	U
OC161A03F	O	C16	7	1	NICKEL	Y	1	2003	10	UG/L	U
OC162A03F	O	C16	7	1	NICKEL	Y	2	2003	10	UG/L	U
OC163A03F	O	C16	7	1	NICKEL	Y	3	2003	10	UG/L	U
OC164A03F	O	C16	7	1	NICKEL	Y	4	2003	10	UG/L	U
OC181A03F	O	C18	8	1	NICKEL	Y	1	2003	10	UG/L	U
OC182A03F	O	C18	8	1	NICKEL	Y	2	2003	10	UG/L	U
OC183A03F	O	C18	8	1	NICKEL	Y	3	2003	10	UG/L	U
OC184A03F	O	C18	8	1	NICKEL	Y	4	2003	10	UG/L	U
OC191A03F	O	C19	9	1	NICKEL	Y	1	2003	10	UG/L	U
OC192A03F	O	C19	9	1	NICKEL	Y	2	2003	10	UG/L	U
FD08200301F	O	C19	9	1	NICKEL	Y	3	2003	10	UG/L	U
OC193A03F	O	C19	9	1	NICKEL	Y	3	2003	10	UG/L	U
OC194A03F	O	C19	9	1	NICKEL	Y	4	2003	10	UG/L	U
OC11P21A03	O	C11P2	1	2	NICKEL	N	1	2003	11.1	UG/L	U
OC11P22A03	O	C11P2	1	2	NICKEL	N	2	2003	11.1	UG/L	U
OC11P23A03	O	C11P2	1	2	NICKEL	N	3	2003	11.1	UG/L	U

Table 7.21. Raw Data for Nickel. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC11P24A03	O	C11P2	1	2	NICKEL	N	4	2003	11.1	UG/L	U
OC13P21A03	O	C13P2	2	2	NICKEL	N	1	2003	11.1	UG/L	U
OC13P22A03	O	C13P2	2	2	NICKEL	N	2	2003	11.1	UG/L	U
OC13P23A03	O	C13P2	2	2	NICKEL	N	3	2003	11.1	UG/L	U
OC13P24A03	O	C13P2	2	2	NICKEL	N	4	2003	11.1	UG/L	U
OC14P21A03	O	C14P2	3	2	NICKEL	N	1	2003	11.1	UG/L	U
OC14P22A03	O	C14P2	3	2	NICKEL	N	2	2003	11.1	UG/L	U
OC14P23A03	O	C14P2	3	2	NICKEL	N	3	2003	11.1	UG/L	U
OC14P24A03	O	C14P2	3	2	NICKEL	N	4	2003	11.1	UG/L	U
OC18P21A03	O	C18P2	4	2	NICKEL	N	1	2003	11.1	UG/L	U
OC18P22A03	O	C18P2	4	2	NICKEL	N	2	2003	11.1	UG/L	U
OC18P23A03	O	C18P2	4	2	NICKEL	N	3	2003	11.1	UG/L	U
OC18P24A03	O	C18P2	4	2	NICKEL	N	4	2003	11.1	UG/L	U
OC19P21A03	O	C19P2	5	2	NICKEL	N	1	2003	11.1	UG/L	U
OC19P22A03	O	C19P2	5	2	NICKEL	N	2	2003	11.1	UG/L	U
OC19P23A03	O	C19P2	5	2	NICKEL	N	3	2003	11.1	UG/L	U
OC19P24A03	O	C19P2	5	2	NICKEL	N	4	2003	11.1	UG/L	U
OC11P21A03F	O	C11P2	1	2	NICKEL	Y	1	2003	10	UG/L	U
OC11P22A03F	O	C11P2	1	2	NICKEL	Y	2	2003	10	UG/L	U
OC11P23A03F	O	C11P2	1	2	NICKEL	Y	3	2003	10	UG/L	U
OC11P24A03F	O	C11P2	1	2	NICKEL	Y	4	2003	10	UG/L	U
OC13P21A03F	O	C13P2	2	2	NICKEL	Y	1	2003	10	UG/L	U
OC13P22A03F	O	C13P2	2	2	NICKEL	Y	2	2003	10	UG/L	U
OC13P23A03F	O	C13P2	2	2	NICKEL	Y	3	2003	10	UG/L	U
OC13P24A03F	O	C13P2	2	2	NICKEL	Y	4	2003	10	UG/L	U
OC14P21A03F	O	C14P2	3	2	NICKEL	Y	1	2003	10	UG/L	U
OC14P22A03F	O	C14P2	3	2	NICKEL	Y	2	2003	10	UG/L	U
OC14P23A03F	O	C14P2	3	2	NICKEL	Y	3	2003	10	UG/L	U
OC14P24A03F	O	C14P2	3	2	NICKEL	Y	4	2003	10	UG/L	U
OC18P21A03F	O	C18P2	4	2	NICKEL	Y	1	2003	10	UG/L	U
OC18P22A03F	O	C18P2	4	2	NICKEL	Y	2	2003	10	UG/L	U
OC18P23A03F	O	C18P2	4	2	NICKEL	Y	3	2003	10	UG/L	U
OC18P24A03F	O	C18P2	4	2	NICKEL	Y	4	2003	10	UG/L	U
OC19P21A03F	O	C19P2	5	2	NICKEL	Y	1	2003	10	UG/L	U
OC19P22A03F	O	C19P2	5	2	NICKEL	Y	2	2003	10	UG/L	U
OC19P23A03F	O	C19P2	5	2	NICKEL	Y	3	2003	10	UG/L	U
OC19P24A03F	O	C19P2	5	2	NICKEL	Y	4	2003	10	UG/L	U

Table 7.22. Raw Data for Potassium.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03F	A	C02P2	1	1	POTASSIUM	Y	1	2003	1490	UG/L	
AC02P22A03F	A	C02P2	1	1	POTASSIUM	Y	2	2003	2630	UG/L	
AC02P23A03F	A	C02P2	1	1	POTASSIUM	Y	3	2003	2670	UG/L	
AC02P24A03F	A	C02P2	1	1	POTASSIUM	Y	4	2003	2400	UG/L	
AC031A03F	A	C03	2	1	POTASSIUM	Y	1	2003	1100	UG/L	
AC032A03F	A	C03	2	1	POTASSIUM	Y	2	2003	1000	UG/L	U
AC033A03F	A	C03	2	1	POTASSIUM	Y	3	2003	1040	UG/L	
AC034A03F	A	C03	2	1	POTASSIUM	Y	4	2003	1160	UG/L	
AC041A03F	A	C04	3	1	POTASSIUM	Y	1	2003	2780	UG/L	
AC042A03F	A	C04	3	1	POTASSIUM	Y	2	2003	2860	UG/L	
AC043A03F	A	C04	3	1	POTASSIUM	Y	3	2003	2840	UG/L	
AC044A03F	A	C04	3	1	POTASSIUM	Y	4	2003	2930	UG/L	
AC071A03F	A	C07	4	1	POTASSIUM	Y	1	2003	2180	UG/L	
AC072A03F	A	C07	4	1	POTASSIUM	Y	2	2003	3380	UG/L	
AC073A03F	A	C07	4	1	POTASSIUM	Y	3	2003	2550	UG/L	
AC074A03F	A	C07	4	1	POTASSIUM	Y	4	2003	1900	UG/L	
AC08P21A03F	A	C08P2	5	1	POTASSIUM	Y	1	2003	12300	UG/L	
AC08P22A03F	A	C08P2	5	1	POTASSIUM	Y	2	2003	11800	UG/L	
AC08P23A03F	A	C08P2	5	1	POTASSIUM	Y	3	2003	10200	UG/L	
AC08P24A03F	A	C08P2	5	1	POTASSIUM	Y	4	2003	7740	UG/L	
AC09P21A03F	A	C09P2	6	1	POTASSIUM	Y	1	2003	1120	UG/L	
AC09P22A03F	A	C09P2	6	1	POTASSIUM	Y	2	2003	1170	UG/L	
AC09P23A03F	A	C09P2	6	1	POTASSIUM	Y	3	2003	1150	UG/L	
FD08280301F	A	C09P2	6	1	POTASSIUM	Y	3	2003	1160	UG/L	
AC09P24A03F	A	C09P2	6	1	POTASSIUM	Y	4	2003	1220	UG/L	
AC151A03F	A	C15	7	1	POTASSIUM	Y	1	2003	1280	UG/L	
FD03050301F	A	C15	7	1	POTASSIUM	Y	1	2003	1290	UG/L	
AC152A03F	A	C15	7	1	POTASSIUM	Y	2	2003	1450	UG/L	
FD06170301F	A	C15	7	1	POTASSIUM	Y	2	2003	1420	UG/L	
AC153A03F	A	C15	7	1	POTASSIUM	Y	3	2003	1480	UG/L	
FD09040301F	A	C15	7	1	POTASSIUM	Y	3	2003	1530	UG/L	
AC154A03F	A	C15	7	1	POTASSIUM	Y	4	2003	1530	UG/L	
FD12020301F	A	C15	7	1	POTASSIUM	Y	4	2003	1510	UG/L	
AC171A03F	A	C17	8	1	POTASSIUM	Y	1	2003	3860	UG/L	
FD03110301F	A	C17	8	1	POTASSIUM	Y	1	2003	3670	UG/L	
AC172A03F	A	C17	8	1	POTASSIUM	Y	2	2003	3090	UG/L	
FD06190301F	A	C17	8	1	POTASSIUM	Y	2	2003	3120	UG/L	
AC173A03F	A	C17	8	1	POTASSIUM	Y	3	2003	2900	UG/L	
AC174A03F	A	C17	8	1	POTASSIUM	Y	4	2003	3040	UG/L	
AC201A03F	A	C20	9	1	POTASSIUM	Y	1	2003	1920	UG/L	
AC202A03F	A	C20	9	1	POTASSIUM	Y	2	2003	2210	UG/L	
AC203A03F	A	C20	9	1	POTASSIUM	Y	3	2003	2240	UG/L	
AC204A03F	A	C20	9	1	POTASSIUM	Y	4	2003	2220	UG/L	
AC252A03F	A	C25	10	1	POTASSIUM	Y	2	2003	2460	UG/L	

Table 7.22. Raw Data for Potassium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC253A03F	A	C25	10	1	POTASSIUM	Y	3	2003	2430	UG/L	
AC254A03F	A	C25	10	1	POTASSIUM	Y	4	2003	2620	UG/L	
AC261A03F	A	C26	11	1	POTASSIUM	Y	1	2003	2030	UG/L	
AC262A03F	A	C26	11	1	POTASSIUM	Y	2	2003	1910	UG/L	
AC263A03F	A	C26	11	1	POTASSIUM	Y	3	2003	2450	UG/L	
AC264A03F	A	C26	11	1	POTASSIUM	Y	4	2003	1830	UG/L	
AC272A03F	A	C27	12	1	POTASSIUM	Y	2	2003	1050	UG/L	
AC273A03F	A	C27	12	1	POTASSIUM	Y	3	2003	1180	UG/L	
AC274A03F	A	C27	12	1	POTASSIUM	Y	4	2003	1220	UG/L	
AC301A03F	A	C30	13	1	POTASSIUM	Y	1	2003	2170	UG/L	
AC302A03F	A	C30	13	1	POTASSIUM	Y	2	2003	2230	UG/L	
AC303A03F	A	C30	13	1	POTASSIUM	Y	3	2003	2220	UG/L	
AC304A03F	A	C30	13	1	POTASSIUM	Y	4	2003	2670	UG/L	
ASPA1A03F	A	SPA	14	1	POTASSIUM	Y	1	2003	1000	UG/L	U
ASPA2A03F	A	SPA	14	1	POTASSIUM	Y	2	2003	2220	UG/L	
ASPA3A03F	A	SPA	14	1	POTASSIUM	Y	3	2003	3590	UG/L	
ASPA4A03F	A	SPA	14	1	POTASSIUM	Y	4	2003	1360	UG/L	
ASPC1A03F	A	SPC	15	1	POTASSIUM	Y	1	2003	1000	UG/L	U
ASPC2A03F	A	SPC	15	1	POTASSIUM	Y	2	2003	1080	UG/L	
ASPC3A03F	A	SPC	15	1	POTASSIUM	Y	3	2003	1190	UG/L	
ASPC4A03F	A	SPC	15	1	POTASSIUM	Y	4	2003	1060	UG/L	
FD12180301F	A	SPC	15	1	POTASSIUM	Y	4	2003	1060	UG/L	

Table 7.23. Raw Data for Selenium.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03	A	C02P2	1	1	SELENIUM	N	1	2003	1.1	UG/L	U
AC02P22A03	A	C02P2	1	1	SELENIUM	N	2	2003	1.1	UG/L	U
AC02P23A03	A	C02P2	1	1	SELENIUM	N	3	2003	1.1	UG/L	U
AC02P24A03	A	C02P2	1	1	SELENIUM	N	4	2003	1.1	UG/L	U
AC031A03	A	C03	2	1	SELENIUM	N	1	2003	1.1	UG/L	U
AC032A03	A	C03	2	1	SELENIUM	N	2	2003	1.1	UG/L	U
AC033A03	A	C03	2	1	SELENIUM	N	3	2003	1.1	UG/L	U
AC034A03	A	C03	2	1	SELENIUM	N	4	2003	1.1	UG/L	U
AC041A03	A	C04	3	1	SELENIUM	N	1	2003	1.1	UG/L	U
AC042A03	A	C04	3	1	SELENIUM	N	2	2003	1.3	UG/L	
AC043A03	A	C04	3	1	SELENIUM	N	3	2003	1.4	UG/L	
AC044A03	A	C04	3	1	SELENIUM	N	4	2003	1.4	UG/L	
AC071A03	A	C07	4	1	SELENIUM	N	1	2003	1.1	UG/L	
AC072A03	A	C07	4	1	SELENIUM	N	2	2003	1.1	UG/L	U
AC073A03	A	C07	4	1	SELENIUM	N	3	2003	1.1	UG/L	U
AC074A03	A	C07	4	1	SELENIUM	N	4	2003	1.1	UG/L	U
AC08P21A03	A	C08P2	5	1	SELENIUM	N	1	2003	1.1	UG/L	U
AC08P22A03	A	C08P2	5	1	SELENIUM	N	2	2003	1.1	UG/L	U

Table 7.23. Raw Data for Selenium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC08P23A03	A	C08P2	5	1	SELENIUM	N	3	2003	1.1	UG/L	U
AC08P24A03	A	C08P2	5	1	SELENIUM	N	4	2003	1.1	UG/L	U
AC09P21A03	A	C09P2	6	1	SELENIUM	N	1	2003	1.1	UG/L	U
AC09P22A03	A	C09P2	6	1	SELENIUM	N	2	2003	1.1	UG/L	U
AC09P23A03	A	C09P2	6	1	SELENIUM	N	3	2003	1.1	UG/L	U
FD08280301	A	C09P2	6	1	SELENIUM	N	3	2003	1.1	UG/L	U
AC09P24A03	A	C09P2	6	1	SELENIUM	N	4	2003	1.1	UG/L	U
AC151A03	A	C15	7	1	SELENIUM	N	1	2003	1.1	UG/L	U
FD03050301	A	C15	7	1	SELENIUM	N	1	2003	1.1	UG/L	U
AC152A03	A	C15	7	1	SELENIUM	N	2	2003	1.1	UG/L	U
FD06170301	A	C15	7	1	SELENIUM	N	2	2003	1.1	UG/L	U
AC153A03	A	C15	7	1	SELENIUM	N	3	2003	1.1	UG/L	U
FD09040301	A	C15	7	1	SELENIUM	N	3	2003	1.1	UG/L	U
AC154A03	A	C15	7	1	SELENIUM	N	4	2003	1.1	UG/L	U
FD12020301	A	C15	7	1	SELENIUM	N	4	2003	1.1	UG/L	U
AC171A03	A	C17	8	1	SELENIUM	N	1	2003	1.1	UG/L	U
FD03110301	A	C17	8	1	SELENIUM	N	1	2003	1.1	UG/L	U
AC172A03	A	C17	8	1	SELENIUM	N	2	2003	1.1	UG/L	U
FD06190301	A	C17	8	1	SELENIUM	N	2	2003	1.1	UG/L	U
AC173A03	A	C17	8	1	SELENIUM	N	3	2003	1.1	UG/L	U
AC174A03	A	C17	8	1	SELENIUM	N	4	2003	1.1	UG/L	U
AC201A03	A	C20	9	1	SELENIUM	N	1	2003	1.1	UG/L	U
AC202A03	A	C20	9	1	SELENIUM	N	2	2003	1.1	UG/L	U
AC203A03	A	C20	9	1	SELENIUM	N	3	2003	1.1	UG/L	U
AC204A03	A	C20	9	1	SELENIUM	N	4	2003	1.1	UG/L	U
AC252A03	A	C25	10	1	SELENIUM	N	2	2003	1.1	UG/L	U
AC253A03	A	C25	10	1	SELENIUM	N	3	2003	1.1	UG/L	U
AC254A03	A	C25	10	1	SELENIUM	N	4	2003	1.1	UG/L	U
AC261A03	A	C26	11	1	SELENIUM	N	1	2003	1.1	UG/L	U
AC262A03	A	C26	11	1	SELENIUM	N	2	2003	1.1	UG/L	U
AC263A03	A	C26	11	1	SELENIUM	N	3	2003	1.1	UG/L	U
AC264A03	A	C26	11	1	SELENIUM	N	4	2003	1.1	UG/L	U
AC272A03	A	C27	12	1	SELENIUM	N	2	2003	1.1	UG/L	U
AC273A03	A	C27	12	1	SELENIUM	N	3	2003	1.1	UG/L	U
AC274A03	A	C27	12	1	SELENIUM	N	4	2003	1.1	UG/L	U
AC301A03	A	C30	13	1	SELENIUM	N	1	2003	1.1	UG/L	U
AC302A03	A	C30	13	1	SELENIUM	N	2	2003	1.1	UG/L	U
AC303A03	A	C30	13	1	SELENIUM	N	3	2003	1.1	UG/L	U
AC304A03	A	C30	13	1	SELENIUM	N	4	2003	1.1	UG/L	U
ASPA1A03	A	SPA	14	1	SELENIUM	N	1	2003	1.1	UG/L	U
ASPA2A03	A	SPA	14	1	SELENIUM	N	2	2003	1.1	UG/L	U
ASPA3A03	A	SPA	14	1	SELENIUM	N	3	2003	1.1	UG/L	U
ASPA4A03	A	SPA	14	1	SELENIUM	N	4	2003	1.1	UG/L	U
ASPC1A03	A	SPC	15	1	SELENIUM	N	1	2003	1.1	UG/L	U

Table 7.23. Raw Data for Selenium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
ASPC2A03	A	SPC	15	1	SELENIUM	N	2	2003	1.1	UG/L	U
ASPC3A03	A	SPC	15	1	SELENIUM	N	3	2003	1.1	UG/L	U
ASPC4A03	A	SPC	15	1	SELENIUM	N	4	2003	1.1	UG/L	U
FD12180301	A	SPC	15	1	SELENIUM	N	4	2003	1.1	UG/L	U
AC02P21A03F	A	C02P2	1	1	SELENIUM	Y	1	2003	1	UG/L	U
AC02P22A03F	A	C02P2	1	1	SELENIUM	Y	2	2003	1	UG/L	U
AC02P23A03F	A	C02P2	1	1	SELENIUM	Y	3	2003	3.3	UG/L	N
AC02P24A03F	A	C02P2	1	1	SELENIUM	Y	4	2003	1	UG/L	U
AC031A03F	A	C03	2	1	SELENIUM	Y	1	2003	1	UG/L	U
AC032A03F	A	C03	2	1	SELENIUM	Y	2	2003	1	UG/L	U
AC033A03F	A	C03	2	1	SELENIUM	Y	3	2003	1	UG/L	UN
AC034A03F	A	C03	2	1	SELENIUM	Y	4	2003	1	UG/L	U
AC041A03F	A	C04	3	1	SELENIUM	Y	1	2003	1.4	UG/L	
AC042A03F	A	C04	3	1	SELENIUM	Y	2	2003	1.4	UG/L	
AC043A03F	A	C04	3	1	SELENIUM	Y	3	2003	1.5	UG/L	N
AC044A03F	A	C04	3	1	SELENIUM	Y	4	2003	1.9	UG/L	
AC071A03F	A	C07	4	1	SELENIUM	Y	1	2003	1.4	UG/L	
AC072A03F	A	C07	4	1	SELENIUM	Y	2	2003	1.2	UG/L	
AC073A03F	A	C07	4	1	SELENIUM	Y	3	2003	2.3	UG/L	N
AC074A03F	A	C07	4	1	SELENIUM	Y	4	2003	1.3	UG/L	
AC08P21A03F	A	C08P2	5	1	SELENIUM	Y	1	2003	1	UG/L	U
AC08P22A03F	A	C08P2	5	1	SELENIUM	Y	2	2003	1	UG/L	U
AC08P23A03F	A	C08P2	5	1	SELENIUM	Y	3	2003	1	UG/L	UN
AC08P24A03F	A	C08P2	5	1	SELENIUM	Y	4	2003	1	UG/L	U
AC09P21A03F	A	C09P2	6	1	SELENIUM	Y	1	2003	1	UG/L	U
AC09P22A03F	A	C09P2	6	1	SELENIUM	Y	2	2003	1	UG/L	U
AC09P23A03F	A	C09P2	6	1	SELENIUM	Y	3	2003	1.4	UG/L	N
FD08280301F	A	C09P2	6	1	SELENIUM	Y	3	2003	1	UG/L	UN
AC09P24A03F	A	C09P2	6	1	SELENIUM	Y	4	2003	1	UG/L	U
AC151A03F	A	C15	7	1	SELENIUM	Y	1	2003	1	UG/L	U
FD03050301F	A	C15	7	1	SELENIUM	Y	1	2003	1	UG/L	U
AC152A03F	A	C15	7	1	SELENIUM	Y	2	2003	1	UG/L	U
FD06170301F	A	C15	7	1	SELENIUM	Y	2	2003	1	UG/L	U
AC153A03F	A	C15	7	1	SELENIUM	Y	3	2003	1	UG/L	UN
FD09040301F	A	C15	7	1	SELENIUM	Y	3	2003	1	UG/L	UN
AC154A03F	A	C15	7	1	SELENIUM	Y	4	2003	1	UG/L	U
FD12020301F	A	C15	7	1	SELENIUM	Y	4	2003	1	UG/L	U
AC171A03F	A	C17	8	1	SELENIUM	Y	1	2003	1	UG/L	U
FD03110301F	A	C17	8	1	SELENIUM	Y	1	2003	1	UG/L	U
AC172A03F	A	C17	8	1	SELENIUM	Y	2	2003	1	UG/L	U
FD06190301F	A	C17	8	1	SELENIUM	Y	2	2003	1	UG/L	U
AC173A03F	A	C17	8	1	SELENIUM	Y	3	2003	1	UG/L	UN
AC174A03F	A	C17	8	1	SELENIUM	Y	4	2003	1.6	UG/L	
AC201A03F	A	C20	9	1	SELENIUM	Y	1	2003	1	UG/L	U

Table 7.23. Raw Data for Selenium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC202A03F	A	C20	9	1	SELENIUM	Y	2	2003	1	UG/L	U
AC203A03F	A	C20	9	1	SELENIUM	Y	3	2003	1	UG/L	UN
AC204A03F	A	C20	9	1	SELENIUM	Y	4	2003	1	UG/L	U
AC252A03F	A	C25	10	1	SELENIUM	Y	2	2003	1	UG/L	U
AC253A03F	A	C25	10	1	SELENIUM	Y	3	2003	1	UG/L	UN
AC254A03F	A	C25	10	1	SELENIUM	Y	4	2003	1	UG/L	U
AC261A03F	A	C26	11	1	SELENIUM	Y	1	2003	1	UG/L	U
AC262A03F	A	C26	11	1	SELENIUM	Y	2	2003	1	UG/L	U
AC263A03F	A	C26	11	1	SELENIUM	Y	3	2003	1	UG/L	UN
AC264A03F	A	C26	11	1	SELENIUM	Y	4	2003	1	UG/L	U
AC272A03F	A	C27	12	1	SELENIUM	Y	2	2003	1	UG/L	U
AC273A03F	A	C27	12	1	SELENIUM	Y	3	2003	1	UG/L	UN
AC274A03F	A	C27	12	1	SELENIUM	Y	4	2003	1	UG/L	U
AC301A03F	A	C30	13	1	SELENIUM	Y	1	2003	1	UG/L	U
AC302A03F	A	C30	13	1	SELENIUM	Y	2	2003	1	UG/L	U
AC303A03F	A	C30	13	1	SELENIUM	Y	3	2003	4	UG/L	N
AC304A03F	A	C30	13	1	SELENIUM	Y	4	2003	1	UG/L	U
ASPA1A03F	A	SPA	14	1	SELENIUM	Y	1	2003	1	UG/L	U
ASPA2A03F	A	SPA	14	1	SELENIUM	Y	2	2003	1	UG/L	U
ASPA3A03F	A	SPA	14	1	SELENIUM	Y	3	2003	1	UG/L	UN
ASPA4A03F	A	SPA	14	1	SELENIUM	Y	4	2003	1	UG/L	U
ASPC1A03F	A	SPC	15	1	SELENIUM	Y	1	2003	1	UG/L	U
ASPC2A03F	A	SPC	15	1	SELENIUM	Y	2	2003	1	UG/L	U
ASPC3A03F	A	SPC	15	1	SELENIUM	Y	3	2003	1	UG/L	UN
ASPC4A03F	A	SPC	15	1	SELENIUM	Y	4	2003	1	UG/L	U
FD12180301F	A	SPC	15	1	SELENIUM	Y	4	2003	1	UG/L	U
DC021A03	D	C02	1	1	SELENIUM	N	1	2003	1.1	UG/L	U
DC023A03	D	C02	1	1	SELENIUM	N	3	2003	1.1	UG/L	U
DC031A03	D	C03	2	1	SELENIUM	N	1	2003	1.1	UG/L	U
DC033A03	D	C03	2	1	SELENIUM	N	3	2003	1.1	UG/L	U
FD07140301	D	C03	2	1	SELENIUM	N	3	2003	1.1	UG/L	U
DC041A03	D	C04	3	1	SELENIUM	N	1	2003	1.1	UG/L	U
DC043A03	D	C04	3	1	SELENIUM	N	3	2003	1.1	UG/L	U
FD07090301	D	C04	3	1	SELENIUM	N	3	2003	1.1	UG/L	U
DC051A03	D	C05	4	1	SELENIUM	N	1	2003	1.1	UG/L	U
FD01130301	D	C05	4	1	SELENIUM	N	1	2003	1.1	UG/L	U
DC053A03	D	C05	4	1	SELENIUM	N	3	2003	1.1	UG/L	U
DC061A03	D	C06	5	1	SELENIUM	N	1	2003	1.1	UG/L	U
DC063A03	D	C06	5	1	SELENIUM	N	3	2003	1.1	UG/L	U
DC071A03	D	C07	6	1	SELENIUM	N	1	2003	1.1	UG/L	U
DC073A03	D	C07	6	1	SELENIUM	N	3	2003	1.1	UG/L	U
DC081A03	D	C08	7	1	SELENIUM	N	1	2003	1.1	UG/L	U
DC083A03	D	C08	7	1	SELENIUM	N	3	2003	1.1	UG/L	U
DC021A03F	D	C02	1	1	SELENIUM	Y	1	2003	1	UG/L	U

Table 7.23. Raw Data for Selenium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
DC023A03F	D	C02	1	1	SELENIUM	Y	3	2003	1	UG/L	UNJ
DC031A03F	D	C03	2	1	SELENIUM	Y	1	2003	1	UG/L	U
DC033A03F	D	C03	2	1	SELENIUM	Y	3	2003	1	UG/L	UNJ
FD07140301F	D	C03	2	1	SELENIUM	Y	3	2003	1	UG/L	UNJ
DC041A03F	D	C04	3	1	SELENIUM	Y	1	2003	1	UG/L	U
DC043A03F	D	C04	3	1	SELENIUM	Y	3	2003	1	UG/L	UNJ
FD07090301F	D	C04	3	1	SELENIUM	Y	3	2003	1	UG/L	UNJ
DC051A03F	D	C05	4	1	SELENIUM	Y	1	2003	1	UG/L	U
FD01130301F	D	C05	4	1	SELENIUM	Y	1	2003	1	UG/L	U
DC053A03F	D	C05	4	1	SELENIUM	Y	3	2003	1	UG/L	UNJ
DC061A03F	D	C06	5	1	SELENIUM	Y	1	2003	1	UG/L	U
DC063A03F	D	C06	5	1	SELENIUM	Y	3	2003	1	UG/L	UNJ
DC071A03F	D	C07	6	1	SELENIUM	Y	1	2003	1	UG/L	U
DC073A03F	D	C07	6	1	SELENIUM	Y	3	2003	1	UG/L	UNJ
DC081A03F	D	C08	7	1	SELENIUM	Y	1	2003	1	UG/L	U
DC083A03F	D	C08	7	1	SELENIUM	Y	3	2003	1	UG/L	UNJ
DC03P21A03	D	C03P2	1	2	SELENIUM	N	1	2003	1.1	UG/L	U
FD01090301	D	C03P2	1	2	SELENIUM	N	1	2003	1.1	UG/L	U
DC03P23A03	D	C03P2	1	2	SELENIUM	N	3	2003	1.6	UG/L	
DC04P21A03	D	C04P2	2	2	SELENIUM	N	1	2003	1.1	UG/L	U
DC04P23A03	D	C04P2	2	2	SELENIUM	N	3	2003	1.9	UG/L	
DC06P21A03	D	C06P2	3	2	SELENIUM	N	1	2003	1.1	UG/L	U
DC06P23A03	D	C06P2	3	2	SELENIUM	N	3	2003	1.1	UG/L	U
DC08P23A03	D	C08P2	4	2	SELENIUM	N	3	2003	1.1	UG/L	U
DC03P21A03F	D	C03P2	1	2	SELENIUM	Y	1	2003	1	UG/L	U
FD01090301F	D	C03P2	1	2	SELENIUM	Y	1	2003	1	UG/L	U
DC03P23A03F	D	C03P2	1	2	SELENIUM	Y	3	2003	1	UG/L	UNJ
DC04P21A03F	D	C04P2	2	2	SELENIUM	Y	1	2003	1	UG/L	U
DC04P23A03F	D	C04P2	2	2	SELENIUM	Y	3	2003	1	UG/L	UNJ
DC06P21A03F	D	C06P2	3	2	SELENIUM	Y	1	2003	1	UG/L	U
DC06P23A03F	D	C06P2	3	2	SELENIUM	Y	3	2003	1	UG/L	UNJ
DC08P23A03F	D	C08P2	4	2	SELENIUM	Y	3	2003	1	UG/L	UNJ
OC081A03	O	C08	1	1	SELENIUM	N	1	2003	1.1	UG/L	U
OC082A03	O	C08	1	1	SELENIUM	N	2	2003	1.1	UG/L	U
OC083A03	O	C08	1	1	SELENIUM	N	3	2003	1.1	UG/L	U
OC084A03	O	C08	1	1	SELENIUM	N	4	2003	1.1	UG/L	U
OC111A03	O	C11	2	1	SELENIUM	N	1	2003	1.1	UG/L	U
OC112A03	O	C11	2	1	SELENIUM	N	2	2003	1.1	UG/L	U
OC113A03	O	C11	2	1	SELENIUM	N	3	2003	1.1	UG/L	U
OC114A03	O	C11	2	1	SELENIUM	N	4	2003	1.1	UG/L	U
OC121A03	O	C12	3	1	SELENIUM	N	1	2003	1.1	UG/L	U
FD04290301	O	C12	3	1	SELENIUM	N	2	2003	1.1	UG/L	U
OC122A03	O	C12	3	1	SELENIUM	N	2	2003	1.1	UG/L	U
OC123A03	O	C12	3	1	SELENIUM	N	3	2003	1.1	UG/L	U

Table 7.23. Raw Data for Selenium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
FD10150301	O	C12	3	1	SELENIUM	N	4	2003	1.1	UG/L	U
OC124A03	O	C12	3	1	SELENIUM	N	4	2003	1.1	UG/L	U
OC131A03	O	C13	4	1	SELENIUM	N	1	2003	1.1	UG/L	U
OC132A03	O	C13	4	1	SELENIUM	N	2	2003	1.1	UG/L	U
OC133A03	O	C13	4	1	SELENIUM	N	3	2003	1.1	UG/L	U
OC134A03	O	C13	4	1	SELENIUM	N	4	2003	1.1	UG/L	U
OC141A03	O	C14	5	1	SELENIUM	N	1	2003	1.1	UG/L	U
OC142A03	O	C14	5	1	SELENIUM	N	2	2003	1.1	UG/L	U
OC143A03	O	C14	5	1	SELENIUM	N	3	2003	1.1	UG/L	U
OC144A03	O	C14	5	1	SELENIUM	N	4	2003	1.1	UG/L	U
FD01290301	O	C15	6	1	SELENIUM	N	1	2003	1.1	UG/L	U
OC151A03	O	C15	6	1	SELENIUM	N	1	2003	1.1	UG/L	U
FD05070301	O	C15	6	1	SELENIUM	N	2	2003	1.1	UG/L	U
OC152A03	O	C15	6	1	SELENIUM	N	2	2003	1.1	UG/L	U
FD08120301	O	C15	6	1	SELENIUM	N	3	2003	1.1	UG/L	U
OC153A03	O	C15	6	1	SELENIUM	N	3	2003	1.1	UG/L	U
FD10300301	O	C15	6	1	SELENIUM	N	4	2003	1.1	UG/L	U
OC154A03	O	C15	6	1	SELENIUM	N	4	2003	1.1	UG/L	U
FD02130301	O	C16	7	1	SELENIUM	N	1	2003	1.1	UG/L	U
OC161A03	O	C16	7	1	SELENIUM	N	1	2003	1.1	UG/L	U
OC162A03	O	C16	7	1	SELENIUM	N	2	2003	1.1	UG/L	U
OC163A03	O	C16	7	1	SELENIUM	N	3	2003	1.1	UG/L	U
OC164A03	O	C16	7	1	SELENIUM	N	4	2003	1.1	UG/L	U
OC181A03	O	C18	8	1	SELENIUM	N	1	2003	1.1	UG/L	U
OC182A03	O	C18	8	1	SELENIUM	N	2	2003	1.1	UG/L	U
OC183A03	O	C18	8	1	SELENIUM	N	3	2003	1.1	UG/L	U
OC184A03	O	C18	8	1	SELENIUM	N	4	2003	1.1	UG/L	U
OC191A03	O	C19	9	1	SELENIUM	N	1	2003	1.1	UG/L	U
OC192A03	O	C19	9	1	SELENIUM	N	2	2003	1.1	UG/L	U
FD08200301	O	C19	9	1	SELENIUM	N	3	2003	1.1	UG/L	U
OC193A03	O	C19	9	1	SELENIUM	N	3	2003	1.1	UG/L	U
OC194A03	O	C19	9	1	SELENIUM	N	4	2003	1.1	UG/L	U
OC081A03F	O	C08	1	1	SELENIUM	Y	1	2003	1	UG/L	U
OC082A03F	O	C08	1	1	SELENIUM	Y	2	2003	1	UG/L	U
OC083A03F	O	C08	1	1	SELENIUM	Y	3	2003	1	UG/L	U
OC084A03F	O	C08	1	1	SELENIUM	Y	4	2003	1	UG/L	UN
OC111A03F	O	C11	2	1	SELENIUM	Y	1	2003	1	UG/L	U
OC112A03F	O	C11	2	1	SELENIUM	Y	2	2003	1	UG/L	U
OC113A03F	O	C11	2	1	SELENIUM	Y	3	2003	1	UG/L	U
OC114A03F	O	C11	2	1	SELENIUM	Y	4	2003	1	UG/L	UN
OC121A03F	O	C12	3	1	SELENIUM	Y	1	2003	1	UG/L	U
FD04290301F	O	C12	3	1	SELENIUM	Y	2	2003	1	UG/L	U
OC122A03F	O	C12	3	1	SELENIUM	Y	2	2003	1	UG/L	U
OC123A03F	O	C12	3	1	SELENIUM	Y	3	2003	1	UG/L	U

Table 7.23. Raw Data for Selenium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
FD10150301F	O	C12	3	1	SELENIUM	Y	4	2003	1	UG/L	UN
OC124A03F	O	C12	3	1	SELENIUM	Y	4	2003	1	UG/L	UN
OC131A03F	O	C13	4	1	SELENIUM	Y	1	2003	1	UG/L	U
OC132A03F	O	C13	4	1	SELENIUM	Y	2	2003	1	UG/L	U
OC133A03F	O	C13	4	1	SELENIUM	Y	3	2003	1	UG/L	U
OC134A03F	O	C13	4	1	SELENIUM	Y	4	2003	1	UG/L	UN
OC141A03F	O	C14	5	1	SELENIUM	Y	1	2003	1	UG/L	U
OC142A03F	O	C14	5	1	SELENIUM	Y	2	2003	1	UG/L	U
OC143A03F	O	C14	5	1	SELENIUM	Y	3	2003	1	UG/L	U
OC144A03F	O	C14	5	1	SELENIUM	Y	4	2003	1	UG/L	UN
FD01290301F	O	C15	6	1	SELENIUM	Y	1	2003	1	UG/L	U
OC151A03F	O	C15	6	1	SELENIUM	Y	1	2003	1	UG/L	U
FD05070301F	O	C15	6	1	SELENIUM	Y	2	2003	1	UG/L	U
OC152A03F	O	C15	6	1	SELENIUM	Y	2	2003	1	UG/L	U
FD08120301F	O	C15	6	1	SELENIUM	Y	3	2003	1	UG/L	U
OC153A03F	O	C15	6	1	SELENIUM	Y	3	2003	1	UG/L	U
FD10300301F	O	C15	6	1	SELENIUM	Y	4	2003	1	UG/L	UN
OC154A03F	O	C15	6	1	SELENIUM	Y	4	2003	1	UG/L	UN
FD02130301F	O	C16	7	1	SELENIUM	Y	1	2003	1	UG/L	U
OC161A03F	O	C16	7	1	SELENIUM	Y	1	2003	1	UG/L	U
OC162A03F	O	C16	7	1	SELENIUM	Y	2	2003	1	UG/L	U
OC163A03F	O	C16	7	1	SELENIUM	Y	3	2003	1	UG/L	U
OC164A03F	O	C16	7	1	SELENIUM	Y	4	2003	1	UG/L	UN
OC181A03F	O	C18	8	1	SELENIUM	Y	1	2003	1	UG/L	U
OC182A03F	O	C18	8	1	SELENIUM	Y	2	2003	1	UG/L	U
OC183A03F	O	C18	8	1	SELENIUM	Y	3	2003	1	UG/L	U
OC184A03F	O	C18	8	1	SELENIUM	Y	4	2003	1	UG/L	UN
OC191A03F	O	C19	9	1	SELENIUM	Y	1	2003	1	UG/L	U
OC192A03F	O	C19	9	1	SELENIUM	Y	2	2003	1	UG/L	U
FD08200301F	O	C19	9	1	SELENIUM	Y	3	2003	1	UG/L	U
OC193A03F	O	C19	9	1	SELENIUM	Y	3	2003	1	UG/L	U
OC194A03F	O	C19	9	1	SELENIUM	Y	4	2003	1	UG/L	UN
OC11P21A03	O	C11P2	1	2	SELENIUM	N	1	2003	1.1	UG/L	U
OC11P22A03	O	C11P2	1	2	SELENIUM	N	2	2003	1.1	UG/L	U
OC11P23A03	O	C11P2	1	2	SELENIUM	N	3	2003	1.1	UG/L	U
OC11P24A03	O	C11P2	1	2	SELENIUM	N	4	2003	1.1	UG/L	U
OC13P21A03	O	C13P2	2	2	SELENIUM	N	1	2003	1.1	UG/L	U
OC13P22A03	O	C13P2	2	2	SELENIUM	N	2	2003	1.1	UG/L	U
OC13P23A03	O	C13P2	2	2	SELENIUM	N	3	2003	1.1	UG/L	U
OC13P24A03	O	C13P2	2	2	SELENIUM	N	4	2003	1.1	UG/L	U
OC14P21A03	O	C14P2	3	2	SELENIUM	N	1	2003	1.1	UG/L	U
OC14P22A03	O	C14P2	3	2	SELENIUM	N	2	2003	1.1	UG/L	U
OC14P23A03	O	C14P2	3	2	SELENIUM	N	3	2003	1.1	UG/L	U
OC14P24A03	O	C14P2	3	2	SELENIUM	N	4	2003	1.1	UG/L	U

Table 7.23. Raw Data for Selenium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC18P21A03	O	C18P2	4	2	SELENIUM	N	1	2003	1.1	UG/L	U
OC18P22A03	O	C18P2	4	2	SELENIUM	N	2	2003	1.1	UG/L	U
OC18P23A03	O	C18P2	4	2	SELENIUM	N	3	2003	1.1	UG/L	U
OC18P24A03	O	C18P2	4	2	SELENIUM	N	4	2003	1.1	UG/L	U
OC19P21A03	O	C19P2	5	2	SELENIUM	N	1	2003	1.1	UG/L	U
OC19P22A03	O	C19P2	5	2	SELENIUM	N	2	2003	1.1	UG/L	U
OC19P23A03	O	C19P2	5	2	SELENIUM	N	3	2003	1.1	UG/L	U
OC19P24A03	O	C19P2	5	2	SELENIUM	N	4	2003	1.1	UG/L	U
OC11P21A03F	O	C11P2	1	2	SELENIUM	Y	1	2003	1	UG/L	U
OC11P22A03F	O	C11P2	1	2	SELENIUM	Y	2	2003	1	UG/L	U
OC11P23A03F	O	C11P2	1	2	SELENIUM	Y	3	2003	1	UG/L	U
OC11P24A03F	O	C11P2	1	2	SELENIUM	Y	4	2003	1	UG/L	UN
OC13P21A03F	O	C13P2	2	2	SELENIUM	Y	1	2003	1	UG/L	U
OC13P22A03F	O	C13P2	2	2	SELENIUM	Y	2	2003	1	UG/L	U
OC13P23A03F	O	C13P2	2	2	SELENIUM	Y	3	2003	1	UG/L	U
OC13P24A03F	O	C13P2	2	2	SELENIUM	Y	4	2003	1	UG/L	UN
OC14P21A03F	O	C14P2	3	2	SELENIUM	Y	1	2003	1	UG/L	U
OC14P22A03F	O	C14P2	3	2	SELENIUM	Y	2	2003	1	UG/L	U
OC14P23A03F	O	C14P2	3	2	SELENIUM	Y	3	2003	1	UG/L	U
OC14P24A03F	O	C14P2	3	2	SELENIUM	Y	4	2003	1	UG/L	UN
OC18P21A03F	O	C18P2	4	2	SELENIUM	Y	1	2003	1	UG/L	U
OC18P22A03F	O	C18P2	4	2	SELENIUM	Y	2	2003	1	UG/L	U
OC18P23A03F	O	C18P2	4	2	SELENIUM	Y	3	2003	1	UG/L	U
OC18P24A03F	O	C18P2	4	2	SELENIUM	Y	4	2003	1	UG/L	UN
OC19P21A03F	O	C19P2	5	2	SELENIUM	Y	1	2003	1	UG/L	U
OC19P22A03F	O	C19P2	5	2	SELENIUM	Y	2	2003	1	UG/L	U
OC19P23A03F	O	C19P2	5	2	SELENIUM	Y	3	2003	1	UG/L	U
OC19P24A03F	O	C19P2	5	2	SELENIUM	Y	4	2003	1	UG/L	UN

Table 7.24. Raw Data for Sodium.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03F	A	C02P2	1	1	SODIUM	Y	1	2003	30900	UG/L	J
AC02P22A03F	A	C02P2	1	1	SODIUM	Y	2	2003	38000	UG/L	
AC02P23A03F	A	C02P2	1	1	SODIUM	Y	3	2003	40000	UG/L	
AC02P24A03F	A	C02P2	1	1	SODIUM	Y	4	2003	25000	UG/L	
AC031A03F	A	C03	2	1	SODIUM	Y	1	2003	303000	UG/L	J
AC032A03F	A	C03	2	1	SODIUM	Y	2	2003	203000	UG/L	
AC033A03F	A	C03	2	1	SODIUM	Y	3	2003	217000	UG/L	
AC034A03F	A	C03	2	1	SODIUM	Y	4	2003	233000	UG/L	
AC041A03F	A	C04	3	1	SODIUM	Y	1	2003	51400	UG/L	J
AC042A03F	A	C04	3	1	SODIUM	Y	2	2003	44100	UG/L	
AC043A03F	A	C04	3	1	SODIUM	Y	3	2003	57300	UG/L	
AC044A03F	A	C04	3	1	SODIUM	Y	4	2003	53500	UG/L	

Table 7.24. Raw Data for Sodium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC071A03F	A	C07	4	1	SODIUM	Y	1	2003	23700	UG/L	J
AC072A03F	A	C07	4	1	SODIUM	Y	2	2003	23400	UG/L	
AC073A03F	A	C07	4	1	SODIUM	Y	3	2003	24800	UG/L	
AC074A03F	A	C07	4	1	SODIUM	Y	4	2003	24400	UG/L	
AC08P21A03F	A	C08P2	5	1	SODIUM	Y	1	2003	17200	UG/L	J
AC08P22A03F	A	C08P2	5	1	SODIUM	Y	2	2003	13700	UG/L	
AC08P23A03F	A	C08P2	5	1	SODIUM	Y	3	2003	14400	UG/L	
AC08P24A03F	A	C08P2	5	1	SODIUM	Y	4	2003	12300	UG/L	
AC09P21A03F	A	C09P2	6	1	SODIUM	Y	1	2003	10000	UG/L	UJ
AC09P22A03F	A	C09P2	6	1	SODIUM	Y	2	2003	4520	UG/L	
AC09P23A03F	A	C09P2	6	1	SODIUM	Y	3	2003	4780	UG/L	
FD08280301F	A	C09P2	6	1	SODIUM	Y	3	2003	4760	UG/L	
AC09P24A03F	A	C09P2	6	1	SODIUM	Y	4	2003	5070	UG/L	
AC151A03F	A	C15	7	1	SODIUM	Y	1	2003	10000	UG/L	UJ
FD03050301F	A	C15	7	1	SODIUM	Y	1	2003	10000	UG/L	UJ
AC152A03F	A	C15	7	1	SODIUM	Y	2	2003	11400	UG/L	
FD06170301F	A	C15	7	1	SODIUM	Y	2	2003	11200	UG/L	
AC153A03F	A	C15	7	1	SODIUM	Y	3	2003	13100	UG/L	
FD09040301F	A	C15	7	1	SODIUM	Y	3	2003	12900	UG/L	
AC154A03F	A	C15	7	1	SODIUM	Y	4	2003	10200	UG/L	
FD12020301F	A	C15	7	1	SODIUM	Y	4	2003	9950	UG/L	
AC171A03F	A	C17	8	1	SODIUM	Y	1	2003	354000	UG/L	J
FD03110301F	A	C17	8	1	SODIUM	Y	1	2003	108000	UG/L	J
AC172A03F	A	C17	8	1	SODIUM	Y	2	2003	103000	UG/L	
FD06190301F	A	C17	8	1	SODIUM	Y	2	2003	102000	UG/L	
AC173A03F	A	C17	8	1	SODIUM	Y	3	2003	110000	UG/L	
AC174A03F	A	C17	8	1	SODIUM	Y	4	2003	102000	UG/L	
AC201A03F	A	C20	9	1	SODIUM	Y	1	2003	12100	UG/L	J
AC202A03F	A	C20	9	1	SODIUM	Y	2	2003	11900	UG/L	
AC203A03F	A	C20	9	1	SODIUM	Y	3	2003	12400	UG/L	
AC204A03F	A	C20	9	1	SODIUM	Y	4	2003	11600	UG/L	
AC252A03F	A	C25	10	1	SODIUM	Y	2	2003	58400	UG/L	
AC253A03F	A	C25	10	1	SODIUM	Y	3	2003	72200	UG/L	
AC254A03F	A	C25	10	1	SODIUM	Y	4	2003	71400	UG/L	
AC261A03F	A	C26	11	1	SODIUM	Y	1	2003	14900	UG/L	J
AC262A03F	A	C26	11	1	SODIUM	Y	2	2003	15200	UG/L	
AC263A03F	A	C26	11	1	SODIUM	Y	3	2003	15200	UG/L	
AC264A03F	A	C26	11	1	SODIUM	Y	4	2003	14000	UG/L	
AC272A03F	A	C27	12	1	SODIUM	Y	2	2003	5510	UG/L	
AC273A03F	A	C27	12	1	SODIUM	Y	3	2003	5240	UG/L	
AC274A03F	A	C27	12	1	SODIUM	Y	4	2003	5490	UG/L	
AC301A03F	A	C30	13	1	SODIUM	Y	1	2003	63100	UG/L	J
AC302A03F	A	C30	13	1	SODIUM	Y	2	2003	57800	UG/L	
AC303A03F	A	C30	13	1	SODIUM	Y	3	2003	87800	UG/L	

Table 7.24. Raw Data for Sodium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC304A03F	A	C30	13	1	SODIUM	Y	4	2003	86500	UG/L	
ASPA1A03F	A	SPA	14	1	SODIUM	Y	1	2003	2840	UG/L	J
ASPA2A03F	A	SPA	14	1	SODIUM	Y	2	2003	6780	UG/L	
ASPA3A03F	A	SPA	14	1	SODIUM	Y	3	2003	10900	UG/L	
ASPA4A03F	A	SPA	14	1	SODIUM	Y	4	2003	3750	UG/L	
ASPC1A03F	A	SPC	15	1	SODIUM	Y	1	2003	1980	UG/L	J
ASPC2A03F	A	SPC	15	1	SODIUM	Y	2	2003	4430	UG/L	
ASPC3A03F	A	SPC	15	1	SODIUM	Y	3	2003	5970	UG/L	
ASPC4A03F	A	SPC	15	1	SODIUM	Y	4	2003	2660	UG/L	
FD12180301F	A	SPC	15	1	SODIUM	Y	4	2003	2620	UG/L	

Table 7.25. Raw Data for Vanadium.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03	A	C02P2	1	1	VANADIUM	N	1	2003	2.2	UG/L	U
AC02P22A03	A	C02P2	1	1	VANADIUM	N	2	2003	2.2	UG/L	U
AC02P23A03	A	C02P2	1	1	VANADIUM	N	3	2003	2.2	UG/L	U
AC02P24A03	A	C02P2	1	1	VANADIUM	N	4	2003	2.2	UG/L	U
AC031A03	A	C03	2	1	VANADIUM	N	1	2003	2.2	UG/L	U
AC032A03	A	C03	2	1	VANADIUM	N	2	2003	2.2	UG/L	U
AC033A03	A	C03	2	1	VANADIUM	N	3	2003	2.2	UG/L	U
AC034A03	A	C03	2	1	VANADIUM	N	4	2003	2.2	UG/L	U
AC041A03	A	C04	3	1	VANADIUM	N	1	2003	2.2	UG/L	U
AC042A03	A	C04	3	1	VANADIUM	N	2	2003	2.2	UG/L	U
AC043A03	A	C04	3	1	VANADIUM	N	3	2003	2.2	UG/L	U
AC044A03	A	C04	3	1	VANADIUM	N	4	2003	2.2	UG/L	U
AC071A03	A	C07	4	1	VANADIUM	N	1	2003	2.2	UG/L	U
AC072A03	A	C07	4	1	VANADIUM	N	2	2003	2.2	UG/L	U
AC073A03	A	C07	4	1	VANADIUM	N	3	2003	2.2	UG/L	U
AC074A03	A	C07	4	1	VANADIUM	N	4	2003	2.2	UG/L	U
AC08P21A03	A	C08P2	5	1	VANADIUM	N	1	2003	2.2	UG/L	U
AC08P22A03	A	C08P2	5	1	VANADIUM	N	2	2003	2.2	UG/L	U
AC08P23A03	A	C08P2	5	1	VANADIUM	N	3	2003	2.2	UG/L	U
AC08P24A03	A	C08P2	5	1	VANADIUM	N	4	2003	2.2	UG/L	U
AC09P21A03	A	C09P2	6	1	VANADIUM	N	1	2003	2.2	UG/L	U
AC09P22A03	A	C09P2	6	1	VANADIUM	N	2	2003	2.2	UG/L	
AC09P23A03	A	C09P2	6	1	VANADIUM	N	3	2003	2.6	UG/L	
FD08280301	A	C09P2	6	1	VANADIUM	N	3	2003	2.7	UG/L	
AC09P24A03	A	C09P2	6	1	VANADIUM	N	4	2003	3.2	UG/L	
AC151A03	A	C15	7	1	VANADIUM	N	1	2003	2.2	UG/L	U
FD03050301	A	C15	7	1	VANADIUM	N	1	2003	2.2	UG/L	U
AC152A03	A	C15	7	1	VANADIUM	N	2	2003	2.2	UG/L	U
FD06170301	A	C15	7	1	VANADIUM	N	2	2003	2.2	UG/L	U
AC153A03	A	C15	7	1	VANADIUM	N	3	2003	2.2	UG/L	U

Table 7.25. Raw Data for Vanadium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
FD09040301	A	C15	7	1	VANADIUM	N	3	2003	2.2	UG/L	U
AC154A03	A	C15	7	1	VANADIUM	N	4	2003	2.2	UG/L	U
FD12020301	A	C15	7	1	VANADIUM	N	4	2003	2.2	UG/L	U
AC171A03	A	C17	8	1	VANADIUM	N	1	2003	2.2	UG/L	U
FD03110301	A	C17	8	1	VANADIUM	N	1	2003	2.2	UG/L	U
AC172A03	A	C17	8	1	VANADIUM	N	2	2003	2.2	UG/L	U
FD06190301	A	C17	8	1	VANADIUM	N	2	2003	2.2	UG/L	U
AC173A03	A	C17	8	1	VANADIUM	N	3	2003	2.2	UG/L	U
AC174A03	A	C17	8	1	VANADIUM	N	4	2003	2.2	UG/L	U
AC201A03	A	C20	9	1	VANADIUM	N	1	2003	2.2	UG/L	U
AC202A03	A	C20	9	1	VANADIUM	N	2	2003	2.2	UG/L	U
AC203A03	A	C20	9	1	VANADIUM	N	3	2003	2.2	UG/L	U
AC204A03	A	C20	9	1	VANADIUM	N	4	2003	2.2	UG/L	U
AC252A03	A	C25	10	1	VANADIUM	N	2	2003	2.2	UG/L	U
AC253A03	A	C25	10	1	VANADIUM	N	3	2003	2.2	UG/L	U
AC254A03	A	C25	10	1	VANADIUM	N	4	2003	2.2	UG/L	U
AC261A03	A	C26	11	1	VANADIUM	N	1	2003	2.2	UG/L	U
AC262A03	A	C26	11	1	VANADIUM	N	2	2003	2.2	UG/L	U
AC263A03	A	C26	11	1	VANADIUM	N	3	2003	2.2	UG/L	U
AC264A03	A	C26	11	1	VANADIUM	N	4	2003	2.2	UG/L	U
AC272A03	A	C27	12	1	VANADIUM	N	2	2003	2.2	UG/L	U
AC273A03	A	C27	12	1	VANADIUM	N	3	2003	2.2	UG/L	U
AC274A03	A	C27	12	1	VANADIUM	N	4	2003	2.2	UG/L	U
AC301A03	A	C30	13	1	VANADIUM	N	1	2003	2.2	UG/L	U
AC302A03	A	C30	13	1	VANADIUM	N	2	2003	2.2	UG/L	U
AC303A03	A	C30	13	1	VANADIUM	N	3	2003	2.2	UG/L	U
AC304A03	A	C30	13	1	VANADIUM	N	4	2003	2.2	UG/L	U
ASPA1A03	A	SPA	14	1	VANADIUM	N	1	2003	2.2	UG/L	U
ASPA2A03	A	SPA	14	1	VANADIUM	N	2	2003	2.2	UG/L	U
ASPA3A03	A	SPA	14	1	VANADIUM	N	3	2003	2.2	UG/L	U
ASPA4A03	A	SPA	14	1	VANADIUM	N	4	2003	2.2	UG/L	U
ASPC1A03	A	SPC	15	1	VANADIUM	N	1	2003	2.2	UG/L	U
ASPC2A03	A	SPC	15	1	VANADIUM	N	2	2003	2.2	UG/L	U
ASPC3A03	A	SPC	15	1	VANADIUM	N	3	2003	2.2	UG/L	U
ASPC4A03	A	SPC	15	1	VANADIUM	N	4	2003	2.2	UG/L	U
FD12180301	A	SPC	15	1	VANADIUM	N	4	2003	2.2	UG/L	U
AC02P21A03F	A	C02P2	1	1	VANADIUM	Y	1	2003	2	UG/L	U
AC02P22A03F	A	C02P2	1	1	VANADIUM	Y	2	2003	2	UG/L	U
AC02P23A03F	A	C02P2	1	1	VANADIUM	Y	3	2003	2	UG/L	U
AC02P24A03F	A	C02P2	1	1	VANADIUM	Y	4	2003	2	UG/L	U
AC031A03F	A	C03	2	1	VANADIUM	Y	1	2003	2	UG/L	U
AC032A03F	A	C03	2	1	VANADIUM	Y	2	2003	2	UG/L	U
AC033A03F	A	C03	2	1	VANADIUM	Y	3	2003	2	UG/L	U
AC034A03F	A	C03	2	1	VANADIUM	Y	4	2003	2	UG/L	U

Table 7.25. Raw Data for Vanadium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC041A03F	A	C04	3	1	VANADIUM	Y	1	2003	2	UG/L	U
AC042A03F	A	C04	3	1	VANADIUM	Y	2	2003	2	UG/L	U
AC043A03F	A	C04	3	1	VANADIUM	Y	3	2003	2	UG/L	U
AC044A03F	A	C04	3	1	VANADIUM	Y	4	2003	2	UG/L	U
AC071A03F	A	C07	4	1	VANADIUM	Y	1	2003	2	UG/L	U
AC072A03F	A	C07	4	1	VANADIUM	Y	2	2003	2	UG/L	U
AC073A03F	A	C07	4	1	VANADIUM	Y	3	2003	2	UG/L	U
AC074A03F	A	C07	4	1	VANADIUM	Y	4	2003	2	UG/L	U
AC08P21A03F	A	C08P2	5	1	VANADIUM	Y	1	2003	2	UG/L	U
AC08P22A03F	A	C08P2	5	1	VANADIUM	Y	2	2003	2	UG/L	U
AC08P23A03F	A	C08P2	5	1	VANADIUM	Y	3	2003	2	UG/L	U
AC08P24A03F	A	C08P2	5	1	VANADIUM	Y	4	2003	2	UG/L	U
AC09P21A03F	A	C09P2	6	1	VANADIUM	Y	1	2003	2	UG/L	U
AC09P22A03F	A	C09P2	6	1	VANADIUM	Y	2	2003	2	UG/L	U
AC09P23A03F	A	C09P2	6	1	VANADIUM	Y	3	2003	2	UG/L	U
FD08280301F	A	C09P2	6	1	VANADIUM	Y	3	2003	2	UG/L	U
AC09P24A03F	A	C09P2	6	1	VANADIUM	Y	4	2003	2	UG/L	U
AC151A03F	A	C15	7	1	VANADIUM	Y	1	2003	2	UG/L	U
FD03050301F	A	C15	7	1	VANADIUM	Y	1	2003	2	UG/L	U
AC152A03F	A	C15	7	1	VANADIUM	Y	2	2003	2	UG/L	U
FD06170301F	A	C15	7	1	VANADIUM	Y	2	2003	2	UG/L	U
AC153A03F	A	C15	7	1	VANADIUM	Y	3	2003	2	UG/L	U
FD09040301F	A	C15	7	1	VANADIUM	Y	3	2003	2	UG/L	U
AC154A03F	A	C15	7	1	VANADIUM	Y	4	2003	2	UG/L	U
FD12020301F	A	C15	7	1	VANADIUM	Y	4	2003	2	UG/L	U
AC171A03F	A	C17	8	1	VANADIUM	Y	1	2003	2	UG/L	U
FD03110301F	A	C17	8	1	VANADIUM	Y	1	2003	2	UG/L	U
AC172A03F	A	C17	8	1	VANADIUM	Y	2	2003	2	UG/L	U
FD06190301F	A	C17	8	1	VANADIUM	Y	2	2003	2	UG/L	U
AC173A03F	A	C17	8	1	VANADIUM	Y	3	2003	2	UG/L	U
AC174A03F	A	C17	8	1	VANADIUM	Y	4	2003	2	UG/L	U
AC201A03F	A	C20	9	1	VANADIUM	Y	1	2003	2	UG/L	U
AC202A03F	A	C20	9	1	VANADIUM	Y	2	2003	2	UG/L	U
AC203A03F	A	C20	9	1	VANADIUM	Y	3	2003	2	UG/L	U
AC204A03F	A	C20	9	1	VANADIUM	Y	4	2003	2	UG/L	U
AC252A03F	A	C25	10	1	VANADIUM	Y	2	2003	2	UG/L	U
AC253A03F	A	C25	10	1	VANADIUM	Y	3	2003	2	UG/L	U
AC254A03F	A	C25	10	1	VANADIUM	Y	4	2003	2	UG/L	U
AC261A03F	A	C26	11	1	VANADIUM	Y	1	2003	2	UG/L	U
AC262A03F	A	C26	11	1	VANADIUM	Y	2	2003	2	UG/L	U
AC263A03F	A	C26	11	1	VANADIUM	Y	3	2003	2	UG/L	U
AC264A03F	A	C26	11	1	VANADIUM	Y	4	2003	2	UG/L	U
AC272A03F	A	C27	12	1	VANADIUM	Y	2	2003	2	UG/L	U
AC273A03F	A	C27	12	1	VANADIUM	Y	3	2003	2	UG/L	U

Table 7.25. Raw Data for Vanadium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC274A03F	A	C27	12	1	VANADIUM	Y	4	2003	2	UG/L	U
AC301A03F	A	C30	13	1	VANADIUM	Y	1	2003	2	UG/L	U
AC302A03F	A	C30	13	1	VANADIUM	Y	2	2003	2	UG/L	U
AC303A03F	A	C30	13	1	VANADIUM	Y	3	2003	2	UG/L	U
AC304A03F	A	C30	13	1	VANADIUM	Y	4	2003	2	UG/L	U
ASPA1A03F	A	SPA	14	1	VANADIUM	Y	1	2003	2	UG/L	U
ASPA2A03F	A	SPA	14	1	VANADIUM	Y	2	2003	2	UG/L	U
ASPA3A03F	A	SPA	14	1	VANADIUM	Y	3	2003	2	UG/L	U
ASPA4A03F	A	SPA	14	1	VANADIUM	Y	4	2003	2	UG/L	U
ASPC1A03F	A	SPC	15	1	VANADIUM	Y	1	2003	2	UG/L	U
ASPC2A03F	A	SPC	15	1	VANADIUM	Y	2	2003	2	UG/L	U
ASPC3A03F	A	SPC	15	1	VANADIUM	Y	3	2003	2	UG/L	U
ASPC4A03F	A	SPC	15	1	VANADIUM	Y	4	2003	2	UG/L	U
FD12180301F	A	SPC	15	1	VANADIUM	Y	4	2003	2	UG/L	U
DC021A03	D	C02	1	1	VANADIUM	N	1	2003	2.2	UG/L	U
DC023A03	D	C02	1	1	VANADIUM	N	3	2003	2.2	UG/L	U
DC031A03	D	C03	2	1	VANADIUM	N	1	2003	2.2	UG/L	U
DC033A03	D	C03	2	1	VANADIUM	N	3	2003	2.2	UG/L	U
FD07140301	D	C03	2	1	VANADIUM	N	3	2003	2.2	UG/L	U
DC041A03	D	C04	3	1	VANADIUM	N	1	2003	2.2	UG/L	U
DC043A03	D	C04	3	1	VANADIUM	N	3	2003	2.2	UG/L	U
FD07090301	D	C04	3	1	VANADIUM	N	3	2003	2.2	UG/L	U
DC051A03	D	C05	4	1	VANADIUM	N	1	2003	2.2	UG/L	U
FD01130301	D	C05	4	1	VANADIUM	N	1	2003	2.2	UG/L	U
DC053A03	D	C05	4	1	VANADIUM	N	3	2003	2.2	UG/L	U
DC061A03	D	C06	5	1	VANADIUM	N	1	2003	2.2	UG/L	U
DC063A03	D	C06	5	1	VANADIUM	N	3	2003	2.2	UG/L	U
DC071A03	D	C07	6	1	VANADIUM	N	1	2003	2.2	UG/L	U
DC073A03	D	C07	6	1	VANADIUM	N	3	2003	2.2	UG/L	U
DC081A03	D	C08	7	1	VANADIUM	N	1	2003	4.1	UG/L	
DC083A03	D	C08	7	1	VANADIUM	N	3	2003	2.2	UG/L	U
DC021A03F	D	C02	1	1	VANADIUM	Y	1	2003	2	UG/L	U
DC023A03F	D	C02	1	1	VANADIUM	Y	3	2003	2.9	UG/L	
DC031A03F	D	C03	2	1	VANADIUM	Y	1	2003	2	UG/L	U
DC033A03F	D	C03	2	1	VANADIUM	Y	3	2003	2	UG/L	U
FD07140301F	D	C03	2	1	VANADIUM	Y	3	2003	2	UG/L	U
DC041A03F	D	C04	3	1	VANADIUM	Y	1	2003	2	UG/L	U
DC043A03F	D	C04	3	1	VANADIUM	Y	3	2003	2	UG/L	U
FD07090301F	D	C04	3	1	VANADIUM	Y	3	2003	2	UG/L	U
DC051A03F	D	C05	4	1	VANADIUM	Y	1	2003	2	UG/L	U
FD01130301F	D	C05	4	1	VANADIUM	Y	1	2003	2	UG/L	U
DC053A03F	D	C05	4	1	VANADIUM	Y	3	2003	2	UG/L	U
DC061A03F	D	C06	5	1	VANADIUM	Y	1	2003	2	UG/L	U
DC063A03F	D	C06	5	1	VANADIUM	Y	3	2003	2.1	UG/L	

Table 7.25. Raw Data for Vanadium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
DC071A03F	D	C07	6	1	VANADIUM	Y	1	2003	2	UG/L	U
DC073A03F	D	C07	6	1	VANADIUM	Y	3	2003	2	UG/L	U
DC081A03F	D	C08	7	1	VANADIUM	Y	1	2003	2	UG/L	U
DC083A03F	D	C08	7	1	VANADIUM	Y	3	2003	3.5	UG/L	
DC03P21A03	D	C03P2	1	2	VANADIUM	N	1	2003	20	UG/L	
FD01090301	D	C03P2	1	2	VANADIUM	N	1	2003	28.7	UG/L	
DC03P23A03	D	C03P2	1	2	VANADIUM	N	3	2003	2.2	UG/L	U
DC04P21A03	D	C04P2	2	2	VANADIUM	N	1	2003	2.2	UG/L	U
DC04P23A03	D	C04P2	2	2	VANADIUM	N	3	2003	2.2	UG/L	U
DC06P21A03	D	C06P2	3	2	VANADIUM	N	1	2003	2.2	UG/L	U
DC06P23A03	D	C06P2	3	2	VANADIUM	N	3	2003	2.2	UG/L	U
DC08P23A03	D	C08P2	4	2	VANADIUM	N	3	2003	2.2	UG/L	U
DC03P21A03F	D	C03P2	1	2	VANADIUM	Y	1	2003	2	UG/L	U
FD01090301F	D	C03P2	1	2	VANADIUM	Y	1	2003	2	UG/L	U
DC03P23A03F	D	C03P2	1	2	VANADIUM	Y	3	2003	2	UG/L	U
DC04P21A03F	D	C04P2	2	2	VANADIUM	Y	1	2003	2	UG/L	U
DC04P23A03F	D	C04P2	2	2	VANADIUM	Y	3	2003	2.2	UG/L	
DC06P21A03F	D	C06P2	3	2	VANADIUM	Y	1	2003	2	UG/L	U
DC06P23A03F	D	C06P2	3	2	VANADIUM	Y	3	2003	2	UG/L	U
DC08P23A03F	D	C08P2	4	2	VANADIUM	Y	3	2003	2	UG/L	U
OC081A03	O	C08	1	1	VANADIUM	N	1	2003	2.2	UG/L	U
OC082A03	O	C08	1	1	VANADIUM	N	2	2003	2.2	UG/L	U
OC083A03	O	C08	1	1	VANADIUM	N	3	2003	2.2	UG/L	U
OC084A03	O	C08	1	1	VANADIUM	N	4	2003	2.2	UG/L	U
OC111A03	O	C11	2	1	VANADIUM	N	1	2003	2.2	UG/L	U
OC112A03	O	C11	2	1	VANADIUM	N	2	2003	2.2	UG/L	U
OC113A03	O	C11	2	1	VANADIUM	N	3	2003	2.2	UG/L	U
OC114A03	O	C11	2	1	VANADIUM	N	4	2003	2.2	UG/L	U
OC121A03	O	C12	3	1	VANADIUM	N	1	2003	2.2	UG/L	U
FD04290301	O	C12	3	1	VANADIUM	N	2	2003	2.2	UG/L	U
OC122A03	O	C12	3	1	VANADIUM	N	2	2003	2.2	UG/L	U
OC123A03	O	C12	3	1	VANADIUM	N	3	2003	2.2	UG/L	U
FD10150301	O	C12	3	1	VANADIUM	N	4	2003	2.2	UG/L	U
OC124A03	O	C12	3	1	VANADIUM	N	4	2003	2.2	UG/L	U
OC131A03	O	C13	4	1	VANADIUM	N	1	2003	2.2	UG/L	U
OC132A03	O	C13	4	1	VANADIUM	N	2	2003	2.2	UG/L	U
OC133A03	O	C13	4	1	VANADIUM	N	3	2003	2.2	UG/L	U
OC134A03	O	C13	4	1	VANADIUM	N	4	2003	2.2	UG/L	U
OC141A03	O	C14	5	1	VANADIUM	N	1	2003	11.3	UG/L	
OC142A03	O	C14	5	1	VANADIUM	N	2	2003	7.1	UG/L	
OC143A03	O	C14	5	1	VANADIUM	N	3	2003	2.2	UG/L	U
OC144A03	O	C14	5	1	VANADIUM	N	4	2003	2.2	UG/L	U
FD01290301	O	C15	6	1	VANADIUM	N	1	2003	2.2	UG/L	U
OC151A03	O	C15	6	1	VANADIUM	N	1	2003	2.2	UG/L	U

Table 7.25. Raw Data for Vanadium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
FD05070301	O	C15	6	1	VANADIUM	N	2	2003	2.2	UG/L	U
OC152A03	O	C15	6	1	VANADIUM	N	2	2003	2.2	UG/L	U
FD08120301	O	C15	6	1	VANADIUM	N	3	2003	2.2	UG/L	U
OC153A03	O	C15	6	1	VANADIUM	N	3	2003	2.2	UG/L	U
FD10300301	O	C15	6	1	VANADIUM	N	4	2003	2.2	UG/L	U
OC154A03	O	C15	6	1	VANADIUM	N	4	2003	2.2	UG/L	U
FD02130301	O	C16	7	1	VANADIUM	N	1	2003	2.2	UG/L	U
OC161A03	O	C16	7	1	VANADIUM	N	1	2003	2.2	UG/L	U
OC162A03	O	C16	7	1	VANADIUM	N	2	2003	2.2	UG/L	U
OC163A03	O	C16	7	1	VANADIUM	N	3	2003	2.2	UG/L	U
OC164A03	O	C16	7	1	VANADIUM	N	4	2003	2.2	UG/L	U
OC181A03	O	C18	8	1	VANADIUM	N	1	2003	2.2	UG/L	U
OC182A03	O	C18	8	1	VANADIUM	N	2	2003	2.2	UG/L	U
OC183A03	O	C18	8	1	VANADIUM	N	3	2003	2.2	UG/L	U
OC184A03	O	C18	8	1	VANADIUM	N	4	2003	2.2	UG/L	U
OC191A03	O	C19	9	1	VANADIUM	N	1	2003	2.2	UG/L	U
OC192A03	O	C19	9	1	VANADIUM	N	2	2003	2.2	UG/L	U
FD08200301	O	C19	9	1	VANADIUM	N	3	2003	2.2	UG/L	U
OC193A03	O	C19	9	1	VANADIUM	N	3	2003	2.2	UG/L	U
OC194A03	O	C19	9	1	VANADIUM	N	4	2003	2.2	UG/L	U
OC081A03F	O	C08	1	1	VANADIUM	Y	1	2003	2	UG/L	U
OC082A03F	O	C08	1	1	VANADIUM	Y	2	2003	2	UG/L	U
OC083A03F	O	C08	1	1	VANADIUM	Y	3	2003	2	UG/L	U
OC084A03F	O	C08	1	1	VANADIUM	Y	4	2003	2	UG/L	U
OC111A03F	O	C11	2	1	VANADIUM	Y	1	2003	2	UG/L	U
OC112A03F	O	C11	2	1	VANADIUM	Y	2	2003	2	UG/L	U
OC113A03F	O	C11	2	1	VANADIUM	Y	3	2003	2	UG/L	U
OC114A03F	O	C11	2	1	VANADIUM	Y	4	2003	2	UG/L	U
OC121A03F	O	C12	3	1	VANADIUM	Y	1	2003	2	UG/L	U
FD04290301F	O	C12	3	1	VANADIUM	Y	2	2003	2	UG/L	U
OC122A03F	O	C12	3	1	VANADIUM	Y	2	2003	2	UG/L	U
OC123A03F	O	C12	3	1	VANADIUM	Y	3	2003	2	UG/L	U
FD10150301F	O	C12	3	1	VANADIUM	Y	4	2003	2	UG/L	U
OC124A03F	O	C12	3	1	VANADIUM	Y	4	2003	2	UG/L	U
OC131A03F	O	C13	4	1	VANADIUM	Y	1	2003	2	UG/L	U
OC132A03F	O	C13	4	1	VANADIUM	Y	2	2003	2	UG/L	U
OC133A03F	O	C13	4	1	VANADIUM	Y	3	2003	2	UG/L	U
OC134A03F	O	C13	4	1	VANADIUM	Y	4	2003	2	UG/L	U
OC141A03F	O	C14	5	1	VANADIUM	Y	1	2003	2	UG/L	U
OC142A03F	O	C14	5	1	VANADIUM	Y	2	2003	2	UG/L	U
OC143A03F	O	C14	5	1	VANADIUM	Y	3	2003	2	UG/L	U
OC144A03F	O	C14	5	1	VANADIUM	Y	4	2003	2	UG/L	U
FD01290301F	O	C15	6	1	VANADIUM	Y	1	2003	2	UG/L	U
OC151A03F	O	C15	6	1	VANADIUM	Y	1	2003	2	UG/L	U

Table 7.25. Raw Data for Vanadium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
FD05070301F	O	C15	6	1	VANADIUM	Y	2	2003	2	UG/L	U
OC152A03F	O	C15	6	1	VANADIUM	Y	2	2003	2	UG/L	U
FD08120301F	O	C15	6	1	VANADIUM	Y	3	2003	2	UG/L	U
OC153A03F	O	C15	6	1	VANADIUM	Y	3	2003	2	UG/L	U
FD10300301F	O	C15	6	1	VANADIUM	Y	4	2003	2	UG/L	U
OC154A03F	O	C15	6	1	VANADIUM	Y	4	2003	2	UG/L	U
FD02130301F	O	C16	7	1	VANADIUM	Y	1	2003	2	UG/L	U
OC161A03F	O	C16	7	1	VANADIUM	Y	1	2003	2	UG/L	U
OC162A03F	O	C16	7	1	VANADIUM	Y	2	2003	2	UG/L	U
OC163A03F	O	C16	7	1	VANADIUM	Y	3	2003	2	UG/L	U
OC164A03F	O	C16	7	1	VANADIUM	Y	4	2003	2	UG/L	U
OC181A03F	O	C18	8	1	VANADIUM	Y	1	2003	2	UG/L	U
OC182A03F	O	C18	8	1	VANADIUM	Y	2	2003	2	UG/L	U
OC183A03F	O	C18	8	1	VANADIUM	Y	3	2003	2	UG/L	U
OC184A03F	O	C18	8	1	VANADIUM	Y	4	2003	2	UG/L	U
OC191A03F	O	C19	9	1	VANADIUM	Y	1	2003	2	UG/L	U
OC192A03F	O	C19	9	1	VANADIUM	Y	2	2003	2	UG/L	U
FD08200301F	O	C19	9	1	VANADIUM	Y	3	2003	2	UG/L	U
OC193A03F	O	C19	9	1	VANADIUM	Y	3	2003	2	UG/L	U
OC194A03F	O	C19	9	1	VANADIUM	Y	4	2003	2	UG/L	U
OC11P21A03	O	C11P2	1	2	VANADIUM	N	1	2003	2.2	UG/L	U
OC11P22A03	O	C11P2	1	2	VANADIUM	N	2	2003	2.2	UG/L	U
OC11P23A03	O	C11P2	1	2	VANADIUM	N	3	2003	2.2	UG/L	U
OC11P24A03	O	C11P2	1	2	VANADIUM	N	4	2003	2.2	UG/L	U
OC13P21A03	O	C13P2	2	2	VANADIUM	N	1	2003	2.2	UG/L	U
OC13P22A03	O	C13P2	2	2	VANADIUM	N	2	2003	2.2	UG/L	U
OC13P23A03	O	C13P2	2	2	VANADIUM	N	3	2003	2.2	UG/L	U
OC13P24A03	O	C13P2	2	2	VANADIUM	N	4	2003	2.2	UG/L	U
OC14P21A03	O	C14P2	3	2	VANADIUM	N	1	2003	2.2	UG/L	U
OC14P22A03	O	C14P2	3	2	VANADIUM	N	2	2003	2.2	UG/L	U
OC14P23A03	O	C14P2	3	2	VANADIUM	N	3	2003	2.2	UG/L	U
OC14P24A03	O	C14P2	3	2	VANADIUM	N	4	2003	2.2	UG/L	U
OC18P21A03	O	C18P2	4	2	VANADIUM	N	1	2003	2.2	UG/L	U
OC18P22A03	O	C18P2	4	2	VANADIUM	N	2	2003	2.2	UG/L	U
OC18P23A03	O	C18P2	4	2	VANADIUM	N	3	2003	2.2	UG/L	U
OC18P24A03	O	C18P2	4	2	VANADIUM	N	4	2003	2.2	UG/L	U
OC19P21A03	O	C19P2	5	2	VANADIUM	N	1	2003	2.2	UG/L	U
OC19P22A03	O	C19P2	5	2	VANADIUM	N	2	2003	2.2	UG/L	U
OC19P23A03	O	C19P2	5	2	VANADIUM	N	3	2003	2.2	UG/L	U
OC19P24A03	O	C19P2	5	2	VANADIUM	N	4	2003	2.2	UG/L	U
OC11P21A03F	O	C11P2	1	2	VANADIUM	Y	1	2003	2	UG/L	U
OC11P22A03F	O	C11P2	1	2	VANADIUM	Y	2	2003	2	UG/L	U
OC11P23A03F	O	C11P2	1	2	VANADIUM	Y	3	2003	2	UG/L	U
OC11P24A03F	O	C11P2	1	2	VANADIUM	Y	4	2003	2	UG/L	U

Table 7.25. Raw Data for Vanadium. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC13P21A03F	O	C13P2	2	2	VANADIUM	Y	1	2003	2	UG/L	U
OC13P22A03F	O	C13P2	2	2	VANADIUM	Y	2	2003	2	UG/L	U
OC13P23A03F	O	C13P2	2	2	VANADIUM	Y	3	2003	2	UG/L	U
OC13P24A03F	O	C13P2	2	2	VANADIUM	Y	4	2003	2	UG/L	U
OC14P21A03F	O	C14P2	3	2	VANADIUM	Y	1	2003	2	UG/L	U
OC14P22A03F	O	C14P2	3	2	VANADIUM	Y	2	2003	2	UG/L	U
OC14P23A03F	O	C14P2	3	2	VANADIUM	Y	3	2003	2	UG/L	U
OC14P24A03F	O	C14P2	3	2	VANADIUM	Y	4	2003	2	UG/L	U
OC18P21A03F	O	C18P2	4	2	VANADIUM	Y	1	2003	2	UG/L	U
OC18P22A03F	O	C18P2	4	2	VANADIUM	Y	2	2003	2	UG/L	U
OC18P23A03F	O	C18P2	4	2	VANADIUM	Y	3	2003	2	UG/L	U
OC18P24A03F	O	C18P2	4	2	VANADIUM	Y	4	2003	2	UG/L	U
OC19P21A03F	O	C19P2	5	2	VANADIUM	Y	1	2003	2	UG/L	U
OC19P22A03F	O	C19P2	5	2	VANADIUM	Y	2	2003	2	UG/L	U
OC19P23A03F	O	C19P2	5	2	VANADIUM	Y	3	2003	2	UG/L	U
OC19P24A03F	O	C19P2	5	2	VANADIUM	Y	4	2003	2	UG/L	U

Table 7.26. Raw Data for Zinc.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03	A	C02P2	1	1	ZINC	N	1	2003	11.1	UG/L	U*J
AC02P22A03	A	C02P2	1	1	ZINC	N	2	2003	11.1	UG/L	U
AC02P23A03	A	C02P2	1	1	ZINC	N	3	2003	11.1	UG/L	U
AC02P24A03	A	C02P2	1	1	ZINC	N	4	2003	14	UG/L	
AC031A03	A	C03	2	1	ZINC	N	1	2003	11.1	UG/L	U*J
AC032A03	A	C03	2	1	ZINC	N	2	2003	11.1	UG/L	U
AC033A03	A	C03	2	1	ZINC	N	3	2003	11.1	UG/L	U
AC034A03	A	C03	2	1	ZINC	N	4	2003	167	UG/L	
AC041A03	A	C04	3	1	ZINC	N	1	2003	33.2	UG/L	*J
AC042A03	A	C04	3	1	ZINC	N	2	2003	11.1	UG/L	U
AC043A03	A	C04	3	1	ZINC	N	3	2003	29.4	UG/L	
AC044A03	A	C04	3	1	ZINC	N	4	2003	11.1	UG/L	U
AC071A03	A	C07	4	1	ZINC	N	1	2003	11.1	UG/L	U*J
AC072A03	A	C07	4	1	ZINC	N	2	2003	11.1	UG/L	U
AC073A03	A	C07	4	1	ZINC	N	3	2003	11.1	UG/L	U
AC074A03	A	C07	4	1	ZINC	N	4	2003	11.1	UG/L	U
AC08P21A03	A	C08P2	5	1	ZINC	N	1	2003	11.1	UG/L	U*J
AC08P22A03	A	C08P2	5	1	ZINC	N	2	2003	11.1	UG/L	U
AC08P23A03	A	C08P2	5	1	ZINC	N	3	2003	12.5	UG/L	
AC08P24A03	A	C08P2	5	1	ZINC	N	4	2003	11.1	UG/L	U
AC09P21A03	A	C09P2	6	1	ZINC	N	1	2003	11.1	UG/L	U*J
AC09P22A03	A	C09P2	6	1	ZINC	N	2	2003	11.1	UG/L	U
AC09P23A03	A	C09P2	6	1	ZINC	N	3	2003	11.1	UG/L	U
FD08280301	A	C09P2	6	1	ZINC	N	3	2003	11.1	UG/L	U

Table 7.26. Raw Data for Zinc. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC09P24A03	A	C09P2	6	1	ZINC	N	4	2003	35.4	UG/L	
AC151A03	A	C15	7	1	ZINC	N	1	2003	11.1	UG/L	U*J
FD03050301	A	C15	7	1	ZINC	N	1	2003	11.1	UG/L	U*J
AC152A03	A	C15	7	1	ZINC	N	2	2003	11.1	UG/L	U
FD06170301	A	C15	7	1	ZINC	N	2	2003	11.1	UG/L	U
AC153A03	A	C15	7	1	ZINC	N	3	2003	11.1	UG/L	U
FD09040301	A	C15	7	1	ZINC	N	3	2003	95	UG/L	
AC154A03	A	C15	7	1	ZINC	N	4	2003	11.1	UG/L	U
FD12020301	A	C15	7	1	ZINC	N	4	2003	11.1	UG/L	U
AC171A03	A	C17	8	1	ZINC	N	1	2003	11.1	UG/L	U*J
FD03110301	A	C17	8	1	ZINC	N	1	2003	11.1	UG/L	U*J
AC172A03	A	C17	8	1	ZINC	N	2	2003	11.1	UG/L	U
FD06190301	A	C17	8	1	ZINC	N	2	2003	11.1	UG/L	U
AC173A03	A	C17	8	1	ZINC	N	3	2003	11.1	UG/L	U
AC174A03	A	C17	8	1	ZINC	N	4	2003	11.1	UG/L	U
AC201A03	A	C20	9	1	ZINC	N	1	2003	11.1	UG/L	U*J
AC202A03	A	C20	9	1	ZINC	N	2	2003	11.1	UG/L	U
AC203A03	A	C20	9	1	ZINC	N	3	2003	11.1	UG/L	U
AC204A03	A	C20	9	1	ZINC	N	4	2003	11.1	UG/L	U
AC252A03	A	C25	10	1	ZINC	N	2	2003	11.1	UG/L	U
AC253A03	A	C25	10	1	ZINC	N	3	2003	11.1	UG/L	U
AC254A03	A	C25	10	1	ZINC	N	4	2003	193	UG/L	
AC261A03	A	C26	11	1	ZINC	N	1	2003	11.1	UG/L	U*J
AC262A03	A	C26	11	1	ZINC	N	2	2003	11.1	UG/L	U
AC263A03	A	C26	11	1	ZINC	N	3	2003	11.1	UG/L	U
AC264A03	A	C26	11	1	ZINC	N	4	2003	11.1	UG/L	U
AC272A03	A	C27	12	1	ZINC	N	2	2003	11.1	UG/L	U
AC273A03	A	C27	12	1	ZINC	N	3	2003	11.1	UG/L	U
AC274A03	A	C27	12	1	ZINC	N	4	2003	11.1	UG/L	U
AC301A03	A	C30	13	1	ZINC	N	1	2003	11.1	UG/L	U*J
AC302A03	A	C30	13	1	ZINC	N	2	2003	11.1	UG/L	U
AC303A03	A	C30	13	1	ZINC	N	3	2003	11.1	UG/L	U
AC304A03	A	C30	13	1	ZINC	N	4	2003	11.1	UG/L	U
ASPA1A03	A	SPA	14	1	ZINC	N	1	2003	11.1	UG/L	U*J
ASPA2A03	A	SPA	14	1	ZINC	N	2	2003	11.1	UG/L	U
ASPA3A03	A	SPA	14	1	ZINC	N	3	2003	11.1	UG/L	U
ASPA4A03	A	SPA	14	1	ZINC	N	4	2003	11.1	UG/L	U
ASPC1A03	A	SPC	15	1	ZINC	N	1	2003	11.1	UG/L	U*J
ASPC2A03	A	SPC	15	1	ZINC	N	2	2003	11.1	UG/L	U
ASPC3A03	A	SPC	15	1	ZINC	N	3	2003	11.1	UG/L	U
ASPC4A03	A	SPC	15	1	ZINC	N	4	2003	11.1	UG/L	U
FD12180301	A	SPC	15	1	ZINC	N	4	2003	11.1	UG/L	U
AC02P21A03F	A	C02P2	1	1	ZINC	Y	1	2003	10	UG/L	U
AC02P22A03F	A	C02P2	1	1	ZINC	Y	2	2003	76.4	UG/L	

Table 7.26. Raw Data for Zinc. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P23A03F	A	C02P2	1	1	ZINC	Y	3	2003	10	UG/L	U
AC02P24A03F	A	C02P2	1	1	ZINC	Y	4	2003	10	UG/L	U
AC031A03F	A	C03	2	1	ZINC	Y	1	2003	10	UG/L	U
AC032A03F	A	C03	2	1	ZINC	Y	2	2003	10	UG/L	U
AC033A03F	A	C03	2	1	ZINC	Y	3	2003	10	UG/L	U
AC034A03F	A	C03	2	1	ZINC	Y	4	2003	18.4	UG/L	
AC041A03F	A	C04	3	1	ZINC	Y	1	2003	10	UG/L	U
AC042A03F	A	C04	3	1	ZINC	Y	2	2003	10	UG/L	U
AC043A03F	A	C04	3	1	ZINC	Y	3	2003	84.8	UG/L	
AC044A03F	A	C04	3	1	ZINC	Y	4	2003	10	UG/L	U
AC071A03F	A	C07	4	1	ZINC	Y	1	2003	10	UG/L	U
AC072A03F	A	C07	4	1	ZINC	Y	2	2003	10	UG/L	U
AC073A03F	A	C07	4	1	ZINC	Y	3	2003	60.5	UG/L	
AC074A03F	A	C07	4	1	ZINC	Y	4	2003	10	UG/L	UJ
AC08P21A03F	A	C08P2	5	1	ZINC	Y	1	2003	10	UG/L	U
AC08P22A03F	A	C08P2	5	1	ZINC	Y	2	2003	10	UG/L	U
AC08P23A03F	A	C08P2	5	1	ZINC	Y	3	2003	41.9	UG/L	
AC08P24A03F	A	C08P2	5	1	ZINC	Y	4	2003	10	UG/L	U
AC09P21A03F	A	C09P2	6	1	ZINC	Y	1	2003	10	UG/L	U
AC09P22A03F	A	C09P2	6	1	ZINC	Y	2	2003	10	UG/L	U
AC09P23A03F	A	C09P2	6	1	ZINC	Y	3	2003	10	UG/L	U
FD08280301F	A	C09P2	6	1	ZINC	Y	3	2003	31.6	UG/L	
AC09P24A03F	A	C09P2	6	1	ZINC	Y	4	2003	38.2	UG/L	
AC151A03F	A	C15	7	1	ZINC	Y	1	2003	10	UG/L	U
FD03050301F	A	C15	7	1	ZINC	Y	1	2003	10	UG/L	U
AC152A03F	A	C15	7	1	ZINC	Y	2	2003	41.3	UG/L	
FD06170301F	A	C15	7	1	ZINC	Y	2	2003	10	UG/L	U
AC153A03F	A	C15	7	1	ZINC	Y	3	2003	10	UG/L	U
FD09040301F	A	C15	7	1	ZINC	Y	3	2003	10	UG/L	U
AC154A03F	A	C15	7	1	ZINC	Y	4	2003	10	UG/L	U
FD12020301F	A	C15	7	1	ZINC	Y	4	2003	10	UG/L	U
AC171A03F	A	C17	8	1	ZINC	Y	1	2003	10	UG/L	U
FD03110301F	A	C17	8	1	ZINC	Y	1	2003	10	UG/L	U
AC172A03F	A	C17	8	1	ZINC	Y	2	2003	17.2	UG/L	
FD06190301F	A	C17	8	1	ZINC	Y	2	2003	10	UG/L	U
AC173A03F	A	C17	8	1	ZINC	Y	3	2003	10	UG/L	U
AC174A03F	A	C17	8	1	ZINC	Y	4	2003	10	UG/L	U
AC201A03F	A	C20	9	1	ZINC	Y	1	2003	13.6	UG/L	
AC202A03F	A	C20	9	1	ZINC	Y	2	2003	188	UG/L	
AC203A03F	A	C20	9	1	ZINC	Y	3	2003	10	UG/L	U
AC204A03F	A	C20	9	1	ZINC	Y	4	2003	10	UG/L	U
AC252A03F	A	C25	10	1	ZINC	Y	2	2003	10	UG/L	U
AC253A03F	A	C25	10	1	ZINC	Y	3	2003	10	UG/L	U
AC254A03F	A	C25	10	1	ZINC	Y	4	2003	10	UG/L	U

Table 7.26. Raw Data for Zinc. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC261A03F	A	C26	11	1	ZINC	Y	1	2003	10	UG/L	U
AC262A03F	A	C26	11	1	ZINC	Y	2	2003	10	UG/L	U
AC263A03F	A	C26	11	1	ZINC	Y	3	2003	10	UG/L	U
AC264A03F	A	C26	11	1	ZINC	Y	4	2003	47.9	UG/L	
AC272A03F	A	C27	12	1	ZINC	Y	2	2003	10	UG/L	U
AC273A03F	A	C27	12	1	ZINC	Y	3	2003	15.1	UG/L	
AC274A03F	A	C27	12	1	ZINC	Y	4	2003	10	UG/L	U
AC301A03F	A	C30	13	1	ZINC	Y	1	2003	10	UG/L	U
AC302A03F	A	C30	13	1	ZINC	Y	2	2003	10	UG/L	U
AC303A03F	A	C30	13	1	ZINC	Y	3	2003	10	UG/L	U
AC304A03F	A	C30	13	1	ZINC	Y	4	2003	10	UG/L	U
ASPA1A03F	A	SPA	14	1	ZINC	Y	1	2003	10	UG/L	U
ASPA2A03F	A	SPA	14	1	ZINC	Y	2	2003	123	UG/L	
ASPA3A03F	A	SPA	14	1	ZINC	Y	3	2003	10	UG/L	U
ASPA4A03F	A	SPA	14	1	ZINC	Y	4	2003	14.8	UG/L	
ASPC1A03F	A	SPC	15	1	ZINC	Y	1	2003	10	UG/L	U
ASPC2A03F	A	SPC	15	1	ZINC	Y	2	2003	10	UG/L	U
ASPC3A03F	A	SPC	15	1	ZINC	Y	3	2003	10	UG/L	U
ASPC4A03F	A	SPC	15	1	ZINC	Y	4	2003	10	UG/L	U
FD12180301F	A	SPC	15	1	ZINC	Y	4	2003	10	UG/L	U
DC021A03	D	C02	1	1	ZINC	N	1	2003	11.1	UG/L	U
DC023A03	D	C02	1	1	ZINC	N	3	2003	11.1	UG/L	U
DC031A03	D	C03	2	1	ZINC	N	1	2003	11.1	UG/L	U
DC033A03	D	C03	2	1	ZINC	N	3	2003	11.1	UG/L	U
FD07140301	D	C03	2	1	ZINC	N	3	2003	11.1	UG/L	U
DC041A03	D	C04	3	1	ZINC	N	1	2003	11.1	UG/L	U
DC043A03	D	C04	3	1	ZINC	N	3	2003	11.1	UG/L	U
FD07090301	D	C04	3	1	ZINC	N	3	2003	11.1	UG/L	U
DC051A03	D	C05	4	1	ZINC	N	1	2003	11.1	UG/L	
FD01130301	D	C05	4	1	ZINC	N	1	2003	11.1	UG/L	U
DC053A03	D	C05	4	1	ZINC	N	3	2003	11.1	UG/L	U
DC061A03	D	C06	5	1	ZINC	N	1	2003	11.1	UG/L	U
DC063A03	D	C06	5	1	ZINC	N	3	2003	11.1	UG/L	U
DC071A03	D	C07	6	1	ZINC	N	1	2003	11.1	UG/L	U
DC073A03	D	C07	6	1	ZINC	N	3	2003	11.1	UG/L	U
DC081A03	D	C08	7	1	ZINC	N	1	2003	108	UG/L	
DC083A03	D	C08	7	1	ZINC	N	3	2003	11.1	UG/L	U
DC021A03F	D	C02	1	1	ZINC	Y	1	2003	10	UG/L	U
DC023A03F	D	C02	1	1	ZINC	Y	3	2003	68.5	UG/L	NEJ
DC031A03F	D	C03	2	1	ZINC	Y	1	2003	10	UG/L	U
DC033A03F	D	C03	2	1	ZINC	Y	3	2003	10	UG/L	UNEJ
FD07140301F	D	C03	2	1	ZINC	Y	3	2003	10	UG/L	UNEJ
DC041A03F	D	C04	3	1	ZINC	Y	1	2003	10	UG/L	U
DC043A03F	D	C04	3	1	ZINC	Y	3	2003	10	UG/L	UNEJ

Table 7.26. Raw Data for Zinc. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
FD07090301F	D	C04	3	1	ZINC	Y	3	2003	10	UG/L	UNEJ
DC051A03F	D	C05	4	1	ZINC	Y	1	2003	10	UG/L	U
FD01130301F	D	C05	4	1	ZINC	Y	1	2003	10	UG/L	U
DC053A03F	D	C05	4	1	ZINC	Y	3	2003	10	UG/L	UNEJ
DC061A03F	D	C06	5	1	ZINC	Y	1	2003	10	UG/L	U
DC063A03F	D	C06	5	1	ZINC	Y	3	2003	10	UG/L	UNEJ
DC071A03F	D	C07	6	1	ZINC	Y	1	2003	10	UG/L	U
DC073A03F	D	C07	6	1	ZINC	Y	3	2003	10	UG/L	UNEJ
DC081A03F	D	C08	7	1	ZINC	Y	1	2003	10	UG/L	U
DC083A03F	D	C08	7	1	ZINC	Y	3	2003	10	UG/L	UNEJ
DC03P21A03	D	C03P2	1	2	ZINC	N	1	2003	25.2	UG/L	
FD01090301	D	C03P2	1	2	ZINC	N	1	2003	35.5	UG/L	
DC03P23A03	D	C03P2	1	2	ZINC	N	3	2003	11.1	UG/L	U
DC04P21A03	D	C04P2	2	2	ZINC	N	1	2003	11.1	UG/L	U
DC04P23A03	D	C04P2	2	2	ZINC	N	3	2003	11.1	UG/L	U
DC06P21A03	D	C06P2	3	2	ZINC	N	1	2003	11.1	UG/L	U
DC06P23A03	D	C06P2	3	2	ZINC	N	3	2003	11.1	UG/L	U
DC08P23A03	D	C08P2	4	2	ZINC	N	3	2003	30.2	UG/L	
DC03P21A03F	D	C03P2	1	2	ZINC	Y	1	2003	10	UG/L	U
FD01090301F	D	C03P2	1	2	ZINC	Y	1	2003	10	UG/L	U
DC03P23A03F	D	C03P2	1	2	ZINC	Y	3	2003	10	UG/L	UNEJ
DC04P21A03F	D	C04P2	2	2	ZINC	Y	1	2003	11.1	UG/L	
DC04P23A03F	D	C04P2	2	2	ZINC	Y	3	2003	10	UG/L	UNEJ
DC06P21A03F	D	C06P2	3	2	ZINC	Y	1	2003	10	UG/L	U
DC06P23A03F	D	C06P2	3	2	ZINC	Y	3	2003	10	UG/L	UNEJ
DC08P23A03F	D	C08P2	4	2	ZINC	Y	3	2003	32.6	UG/L	NEJ
OC081A03	O	C08	1	1	ZINC	N	1	2003	11.1	UG/L	U
OC082A03	O	C08	1	1	ZINC	N	2	2003	39	UG/L	
OC083A03	O	C08	1	1	ZINC	N	3	2003	11.1	UG/L	U
OC084A03	O	C08	1	1	ZINC	N	4	2003	11.1	UG/L	U
OC111A03	O	C11	2	1	ZINC	N	1	2003	11.9	UG/L	
OC112A03	O	C11	2	1	ZINC	N	2	2003	11.1	UG/L	U
OC113A03	O	C11	2	1	ZINC	N	3	2003	11.1	UG/L	U
OC114A03	O	C11	2	1	ZINC	N	4	2003	13.5	UG/L	
OC121A03	O	C12	3	1	ZINC	N	1	2003	11.1	UG/L	U
FD04290301	O	C12	3	1	ZINC	N	2	2003	11.1	UG/L	U
OC122A03	O	C12	3	1	ZINC	N	2	2003	106	UG/L	
OC123A03	O	C12	3	1	ZINC	N	3	2003	11.1	UG/L	U
FD10150301	O	C12	3	1	ZINC	N	4	2003	11.1	UG/L	U
OC124A03	O	C12	3	1	ZINC	N	4	2003	11.1	UG/L	U
OC131A03	O	C13	4	1	ZINC	N	1	2003	11.1	UG/L	U
OC132A03	O	C13	4	1	ZINC	N	2	2003	11.1	UG/L	U
OC133A03	O	C13	4	1	ZINC	N	3	2003	11.1	UG/L	U
OC134A03	O	C13	4	1	ZINC	N	4	2003	11.1	UG/L	U

Table 7.26. Raw Data for Zinc. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC141A03	O	C14	5	1	ZINC	N	1	2003	126	UG/L	
OC142A03	O	C14	5	1	ZINC	N	2	2003	76.8	UG/L	
OC143A03	O	C14	5	1	ZINC	N	3	2003	19.3	UG/L	
OC144A03	O	C14	5	1	ZINC	N	4	2003	16.8	UG/L	
FD01290301	O	C15	6	1	ZINC	N	1	2003	11.1	UG/L	U
OC151A03	O	C15	6	1	ZINC	N	1	2003	22.8	UG/L	
FD05070301	O	C15	6	1	ZINC	N	2	2003	11.1	UG/L	U
OC152A03	O	C15	6	1	ZINC	N	2	2003	59.8	UG/L	
FD08120301	O	C15	6	1	ZINC	N	3	2003	11.1	UG/L	U
OC153A03	O	C15	6	1	ZINC	N	3	2003	11.1	UG/L	U
FD10300301	O	C15	6	1	ZINC	N	4	2003	25.9	UG/L	
OC154A03	O	C15	6	1	ZINC	N	4	2003	11.1	UG/L	U
FD02130301	O	C16	7	1	ZINC	N	1	2003	11.1	UG/L	U
OC161A03	O	C16	7	1	ZINC	N	1	2003	11.1	UG/L	U
OC162A03	O	C16	7	1	ZINC	N	2	2003	11.1	UG/L	U
OC163A03	O	C16	7	1	ZINC	N	3	2003	11.1	UG/L	U
OC164A03	O	C16	7	1	ZINC	N	4	2003	11.1	UG/L	U
OC181A03	O	C18	8	1	ZINC	N	1	2003	11.1	UG/L	U
OC182A03	O	C18	8	1	ZINC	N	2	2003	11.1	UG/L	U
OC183A03	O	C18	8	1	ZINC	N	3	2003	11.1	UG/L	U
OC184A03	O	C18	8	1	ZINC	N	4	2003	11.1	UG/L	U
OC191A03	O	C19	9	1	ZINC	N	1	2003	11.1	UG/L	U
OC192A03	O	C19	9	1	ZINC	N	2	2003	11.1	UG/L	U
FD08200301	O	C19	9	1	ZINC	N	3	2003	11.1	UG/L	U
OC193A03	O	C19	9	1	ZINC	N	3	2003	11.1	UG/L	U
OC194A03	O	C19	9	1	ZINC	N	4	2003	11.1	UG/L	U
OC081A03F	O	C08	1	1	ZINC	Y	1	2003	10	UG/L	U
OC082A03F	O	C08	1	1	ZINC	Y	2	2003	40.3	UG/L	
OC083A03F	O	C08	1	1	ZINC	Y	3	2003	10	UG/L	U
OC084A03F	O	C08	1	1	ZINC	Y	4	2003	10	UG/L	U
OC111A03F	O	C11	2	1	ZINC	Y	1	2003	10	UG/L	U
OC112A03F	O	C11	2	1	ZINC	Y	2	2003	51.4	UG/L	
OC113A03F	O	C11	2	1	ZINC	Y	3	2003	10	UG/L	U
OC114A03F	O	C11	2	1	ZINC	Y	4	2003	10	UG/L	U
OC121A03F	O	C12	3	1	ZINC	Y	1	2003	10	UG/L	U
FD04290301F	O	C12	3	1	ZINC	Y	2	2003	10	UG/L	U
OC122A03F	O	C12	3	1	ZINC	Y	2	2003	10	UG/L	U
OC123A03F	O	C12	3	1	ZINC	Y	3	2003	10	UG/L	U
FD10150301F	O	C12	3	1	ZINC	Y	4	2003	10	UG/L	U
OC124A03F	O	C12	3	1	ZINC	Y	4	2003	10	UG/L	U
OC131A03F	O	C13	4	1	ZINC	Y	1	2003	10	UG/L	U
OC132A03F	O	C13	4	1	ZINC	Y	2	2003	313	UG/L	
OC133A03F	O	C13	4	1	ZINC	Y	3	2003	10	UG/L	U
OC134A03F	O	C13	4	1	ZINC	Y	4	2003	10	UG/L	U

Table 7.26. Raw Data for Zinc. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC141A03F	O	C14	5	1	ZINC	Y	1	2003	10	UG/L	U
OC142A03F	O	C14	5	1	ZINC	Y	2	2003	94.5	UG/L	
OC143A03F	O	C14	5	1	ZINC	Y	3	2003	10	UG/L	U
OC144A03F	O	C14	5	1	ZINC	Y	4	2003	10	UG/L	U
OC151A03F	O	C15	6	1	ZINC	Y	1	2003	10	UG/L	U
FD05070301F	O	C15	6	1	ZINC	Y	2	2003	10	UG/L	U
OC152A03F	O	C15	6	1	ZINC	Y	2	2003	10	UG/L	U
FD08120301F	O	C15	6	1	ZINC	Y	3	2003	10	UG/L	U
OC153A03F	O	C15	6	1	ZINC	Y	3	2003	10	UG/L	U
FD10300301F	O	C15	6	1	ZINC	Y	4	2003	10	UG/L	U
OC154A03F	O	C15	6	1	ZINC	Y	4	2003	34.3	UG/L	
FD01290301F	O	C16	7	1	ZINC	Y	1	2003	10	UG/L	U
FD02130301F	O	C16	7	1	ZINC	Y	1	2003	32	UG/L	
OC161A03F	O	C16	7	1	ZINC	Y	1	2003	95	UG/L	
OC162A03F	O	C16	7	1	ZINC	Y	2	2003	373	UG/L	
OC163A03F	O	C16	7	1	ZINC	Y	3	2003	10	UG/L	U
OC164A03F	O	C16	7	1	ZINC	Y	4	2003	10	UG/L	U
OC181A03F	O	C18	8	1	ZINC	Y	1	2003	10	UG/L	U
OC182A03F	O	C18	8	1	ZINC	Y	2	2003	10	UG/L	U
OC183A03F	O	C18	8	1	ZINC	Y	3	2003	10	UG/L	U
OC184A03F	O	C18	8	1	ZINC	Y	4	2003	10	UG/L	U
OC191A03F	O	C19	9	1	ZINC	Y	1	2003	10	UG/L	U
OC192A03F	O	C19	9	1	ZINC	Y	2	2003	10	UG/L	U
FD08200301F	O	C19	9	1	ZINC	Y	3	2003	10	UG/L	U
OC193A03F	O	C19	9	1	ZINC	Y	3	2003	10	UG/L	U
OC194A03F	O	C19	9	1	ZINC	Y	4	2003	10	UG/L	U
OC11P21A03	O	C11P2	1	2	ZINC	N	1	2003	11.1	UG/L	U
OC11P22A03	O	C11P2	1	2	ZINC	N	2	2003	34	UG/L	
OC11P23A03	O	C11P2	1	2	ZINC	N	3	2003	11.1	UG/L	U
OC11P24A03	O	C11P2	1	2	ZINC	N	4	2003	11.1	UG/L	U
OC13P21A03	O	C13P2	2	2	ZINC	N	1	2003	11.1	UG/L	U
OC13P22A03	O	C13P2	2	2	ZINC	N	2	2003	11.1	UG/L	U
OC13P23A03	O	C13P2	2	2	ZINC	N	3	2003	11.1	UG/L	U
OC13P24A03	O	C13P2	2	2	ZINC	N	4	2003	11.1	UG/L	U
OC14P21A03	O	C14P2	3	2	ZINC	N	1	2003	11.1	UG/L	U
OC14P22A03	O	C14P2	3	2	ZINC	N	2	2003	11.1	UG/L	U
OC14P23A03	O	C14P2	3	2	ZINC	N	3	2003	11.1	UG/L	U
OC14P24A03	O	C14P2	3	2	ZINC	N	4	2003	11.1	UG/L	U
OC18P21A03	O	C18P2	4	2	ZINC	N	1	2003	11.1	UG/L	U
OC18P22A03	O	C18P2	4	2	ZINC	N	2	2003	11.1	UG/L	U
OC18P23A03	O	C18P2	4	2	ZINC	N	3	2003	11.1	UG/L	U
OC18P24A03	O	C18P2	4	2	ZINC	N	4	2003	11.1	UG/L	U
OC19P21A03	O	C19P2	5	2	ZINC	N	1	2003	11.1	UG/L	U
OC19P22A03	O	C19P2	5	2	ZINC	N	2	2003	11.1	UG/L	U

Table 7.26. Raw Data for Zinc. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC19P23A03	O	C19P2	5	2	ZINC	N	3	2003	11.1	UG/L	U
OC19P24A03	O	C19P2	5	2	ZINC	N	4	2003	11.1	UG/L	U
OC11P21A03F	O	C11P2	1	2	ZINC	Y	1	2003	10	UG/L	U
OC11P22A03F	O	C11P2	1	2	ZINC	Y	2	2003	10	UG/L	U
OC11P23A03F	O	C11P2	1	2	ZINC	Y	3	2003	10	UG/L	U
OC11P24A03F	O	C11P2	1	2	ZINC	Y	4	2003	10	UG/L	U
OC13P21A03F	O	C13P2	2	2	ZINC	Y	1	2003	34.4	UG/L	
OC13P22A03F	O	C13P2	2	2	ZINC	Y	2	2003	10	UG/L	U
OC13P23A03F	O	C13P2	2	2	ZINC	Y	3	2003	10	UG/L	U
OC13P24A03F	O	C13P2	2	2	ZINC	Y	4	2003	10	UG/L	U
OC14P21A03F	O	C14P2	3	2	ZINC	Y	1	2003	10	UG/L	U
OC14P22A03F	O	C14P2	3	2	ZINC	Y	2	2003	236	UG/L	
OC14P23A03F	O	C14P2	3	2	ZINC	Y	3	2003	10	UG/L	U
OC14P24A03F	O	C14P2	3	2	ZINC	Y	4	2003	10	UG/L	U
OC18P21A03F	O	C18P2	4	2	ZINC	Y	1	2003	10	UG/L	U
OC18P22A03F	O	C18P2	4	2	ZINC	Y	2	2003	10	UG/L	U
OC18P23A03F	O	C18P2	4	2	ZINC	Y	3	2003	10	UG/L	U
OC18P24A03F	O	C18P2	4	2	ZINC	Y	4	2003	10	UG/L	U
OC19P21A03F	O	C19P2	5	2	ZINC	Y	1	2003	10	UG/L	U
OC19P22A03F	O	C19P2	5	2	ZINC	Y	2	2003	10	UG/L	U
OC19P23A03F	O	C19P2	5	2	ZINC	Y	3	2003	10	UG/L	U
OC19P24A03F	O	C19P2	5	2	ZINC	Y	4	2003	10	UG/L	U

Table 7.27. Raw Data for 1,2-Dichloroethane.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P22A03	A	C02P2	1	1	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
AC032A03	A	C03	2	1	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
AC042A03	A	C04	3	1	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
AC072A03	A	C07	4	1	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
AC08P22A03	A	C08P2	5	1	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
AC09P22A03DL	A	C09P2	6	1	1,2-DICHLOROETHANE	N	2	2003	7.2	UG/L	D
AC152A03	A	C15	7	1	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
FD06170301	A	C15	7	1	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
AC172A03	A	C17	8	1	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
FD06190301	A	C17	8	1	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
AC202A03	A	C20	9	1	1,2-DICHLOROETHANE	N	2	2003	0.6	UG/L	
AC252A03	A	C25	10	1	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
AC262A03	A	C26	11	1	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
AC272A03	A	C27	12	1	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
AC302A03	A	C30	13	1	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
ASPA2A03	A	SPA	14	1	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
ASPC2A03	A	SPC	15	1	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
OC082A03	O	C08	1	1	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
OC112A03	O	C11	2	1	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
FD04290301	O	C12	3	1	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
OC122A03	O	C12	3	1	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
OC132A03	O	C13	4	1	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
OC142A03	O	C14	5	1	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
FD05070301	O	C15	6	1	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
OC152A03	O	C15	6	1	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
OC162A03	O	C16	7	1	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
OC182A03	O	C18	8	1	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
OC192A03	O	C19	9	1	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
OC11P22A03	O	C11P2	1	2	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
OC13P22A03	O	C13P2	2	2	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
OC14P22A03	O	C14P2	3	2	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
OC18P22A03	O	C18P2	4	2	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U
OC19P22A03	O	C19P2	5	2	1,2-DICHLOROETHANE	N	2	2003	0.3	UG/L	U

Table 7.28. Raw Data for Carbon Tetrachloride.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P22A03	A	C02P2	1	1	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U
AC032A03	A	C03	2	1	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U
AC042A03	A	C04	3	1	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U
AC072A03	A	C07	4	1	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U
AC08P22A03	A	C08P2	5	1	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U
AC09P22A03DL	A	C09P2	6	1	CARBON TETRACHLORIDE	N	2	2003	0.7	UG/L	D
AC152A03	A	C15	7	1	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U
FD06170301	A	C15	7	1	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U
AC172A03	A	C17	8	1	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U
FD06190301	A	C17	8	1	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U
AC202A03	A	C20	9	1	CARBON TETRACHLORIDE	N	2	2003	0.2	UG/L	J
AC252A03	A	C25	10	1	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U
AC262A03	A	C26	11	1	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U
AC272A03	A	C27	12	1	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U
AC302A03	A	C30	13	1	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U
ASPA2A03	A	SPA	14	1	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U
ASPC2A03	A	SPC	15	1	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U
OC082A03	O	C08	1	1	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	UJ
OC112A03	O	C11	2	1	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U
FD04290301	O	C12	3	1	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	UJ
OC122A03	O	C12	3	1	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	UJ
OC132A03	O	C13	4	1	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U
OC142A03	O	C14	5	1	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U
FD05070301	O	C15	6	1	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U
OC152A03	O	C15	6	1	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U
OC162A03	O	C16	7	1	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U
OC182A03	O	C18	8	1	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U
OC192A03	O	C19	9	1	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U
OC11P22A03	O	C11P2	1	2	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	UJ
OC13P22A03	O	C13P2	2	2	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U
OC14P22A03	O	C14P2	3	2	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U
OC18P22A03	O	C18P2	4	2	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U
OC19P22A03	O	C19P2	5	2	CARBON TETRACHLORIDE	N	2	2003	0.3	UG/L	U

Table 7.29. Raw Data for Chloroform.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P22A03	A	C02P2	1	1	CHLOROFORM	N	2	2003	0.3	UG/L	U
AC032A03	A	C03	2	1	CHLOROFORM	N	2	2003	0.3	UG/L	U
AC042A03	A	C04	3	1	CHLOROFORM	N	2	2003	0.3	UG/L	U
AC072A03	A	C07	4	1	CHLOROFORM	N	2	2003	0.3	UG/L	U
AC08P22A03	A	C08P2	5	1	CHLOROFORM	N	2	2003	0.3	UG/L	U
AC09P22A03DL	A	C09P2	6	1	CHLOROFORM	N	2	2003	0.7	UG/L	D
FD06170301	A	C15	7	1	CHLOROFORM	N	2	2003	0.3	UG/L	U
AC152A03	A	C15	7	1	CHLOROFORM	N	2	2003	0.3	UG/L	U
AC172A03	A	C17	8	1	CHLOROFORM	N	2	2003	0.3	UG/L	U
FD06190301	A	C17	8	1	CHLOROFORM	N	2	2003	0.3	UG/L	U
AC202A03	A	C20	9	1	CHLOROFORM	N	2	2003	0.7	UG/L	
AC252A03	A	C25	10	1	CHLOROFORM	N	2	2003	0.3	UG/L	U
AC262A03	A	C26	11	1	CHLOROFORM	N	2	2003	0.3	UG/L	U
AC272A03	A	C27	12	1	CHLOROFORM	N	2	2003	0.3	UG/L	U
AC302A03	A	C30	13	1	CHLOROFORM	N	2	2003	0.3	UG/L	U
ASPA2A03	A	SPA	14	1	CHLOROFORM	N	2	2003	0.3	UG/L	U
ASPC2A03	A	SPC	15	1	CHLOROFORM	N	2	2003	0.3	UG/L	U
OC082A03	O	C08	1	1	CHLOROFORM	N	2	2003	0.3	UG/L	U
OC112A03	O	C11	2	1	CHLOROFORM	N	2	2003	0.3	UG/L	U
FD04290301	O	C12	3	1	CHLOROFORM	N	2	2003	0.3	UG/L	U
OC122A03	O	C12	3	1	CHLOROFORM	N	2	2003	0.3	UG/L	U
OC132A03	O	C13	4	1	CHLOROFORM	N	2	2003	0.3	UG/L	U
OC142A03	O	C14	5	1	CHLOROFORM	N	2	2003	0.3	UG/L	U
FD05070301	O	C15	6	1	CHLOROFORM	N	2	2003	0.3	UG/L	U
OC152A03	O	C15	6	1	CHLOROFORM	N	2	2003	0.3	UG/L	U
OC162A03	O	C16	7	1	CHLOROFORM	N	2	2003	0.3	UG/L	U
OC182A03	O	C18	8	1	CHLOROFORM	N	2	2003	0.3	UG/L	U
OC192A03	O	C19	9	1	CHLOROFORM	N	2	2003	0.3	UG/L	U
OC11P22A03	O	C11P2	1	2	CHLOROFORM	N	2	2003	0.3	UG/L	U
OC13P22A03	O	C13P2	2	2	CHLOROFORM	N	2	2003	0.3	UG/L	U
OC14P22A03	O	C14P2	3	2	CHLOROFORM	N	2	2003	0.3	UG/L	U
OC18P22A03	O	C18P2	4	2	CHLOROFORM	N	2	2003	0.3	UG/L	U
OC19P22A03	O	C19P2	5	2	CHLOROFORM	N	2	2003	0.3	UG/L	U

Table 7.30. Raw Data for cis-1,2-Dichloroethene.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03	A	C02P2	1	1	CIS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
AC02P22A03	A	C02P2	1	1	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
AC02P23A03	A	C02P2	1	1	CIS-1,2-DICHLOROETHENE	N	3	2003	2.4	UG/L	
AC02P24A03	A	C02P2	1	1	CIS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
AC031A03	A	C03	2	1	CIS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
AC032A03	A	C03	2	1	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
AC033A03	A	C03	2	1	CIS-1,2-DICHLOROETHENE	N	3	2003	0.5	UG/L	U
AC034A03	A	C03	2	1	CIS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
AC041A03	A	C04	3	1	CIS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
AC042A03	A	C04	3	1	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
AC043A03	A	C04	3	1	CIS-1,2-DICHLOROETHENE	N	3	2003	0.5	UG/L	U
AC044A03	A	C04	3	1	CIS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
AC071A03	A	C07	4	1	CIS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
AC072A03	A	C07	4	1	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
AC073A03	A	C07	4	1	CIS-1,2-DICHLOROETHENE	N	3	2003	0.5	UG/L	U
AC074A03	A	C07	4	1	CIS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
AC08P21A03	A	C08P2	5	1	CIS-1,2-DICHLOROETHENE	N	1	2003	19	UG/L	
AC08P22A03	A	C08P2	5	1	CIS-1,2-DICHLOROETHENE	N	2	2003	17	UG/L	
AC08P23A03	A	C08P2	5	1	CIS-1,2-DICHLOROETHENE	N	3	2003	18	UG/L	
AC08P24A03	A	C08P2	5	1	CIS-1,2-DICHLOROETHENE	N	4	2003	17	UG/L	
AC09P21A03	A	C09P2	6	1	CIS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
AC09P22A03	A	C09P2	6	1	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
AC09P23A03	A	C09P2	6	1	CIS-1,2-DICHLOROETHENE	N	3	2003	2.2	UG/L	
FD08280301	A	C09P2	6	1	CIS-1,2-DICHLOROETHENE	N	3	2003	2.2	UG/L	
AC09P24A03	A	C09P2	6	1	CIS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
AC151A03	A	C15	7	1	CIS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
FD03050301	A	C15	7	1	CIS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
AC152A03	A	C15	7	1	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
FD06170301	A	C15	7	1	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
AC153A03	A	C15	7	1	CIS-1,2-DICHLOROETHENE	N	3	2003	0.5	UG/L	U
FD09040301	A	C15	7	1	CIS-1,2-DICHLOROETHENE	N	3	2003	0.5	UG/L	U
AC154A03	A	C15	7	1	CIS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
FD12020301	A	C15	7	1	CIS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
AC171A03	A	C17	8	1	CIS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
FD03110301	A	C17	8	1	CIS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
AC172A03	A	C17	8	1	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
FD06190301	A	C17	8	1	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
AC173A03	A	C17	8	1	CIS-1,2-DICHLOROETHENE	N	3	2003	0.5	UG/L	U
AC174A03	A	C17	8	1	CIS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
AC201A03DL	A	C20	9	1	CIS-1,2-DICHLOROETHENE	N	1	2003	100	UG/L	U
AC202A03DL	A	C20	9	1	CIS-1,2-DICHLOROETHENE	N	2	2003	88	UG/L	D
AC203A03	A	C20	9	1	CIS-1,2-DICHLOROETHENE	N	3	2003	94	UG/L	
AC204A03DL	A	C20	9	1	CIS-1,2-DICHLOROETHENE	N	4	2003	87	UG/L	D
AC252A03	A	C25	10	1	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U

Table 7.30. Raw Data for cis-1,2-Dichloroethene. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC253A03	A	C25	10	1	CIS-1,2-DICHLOROETHENE	N	3	2003	0.5	UG/L	U
AC254A03	A	C25	10	1	CIS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
AC261A03	A	C26	11	1	CIS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
AC262A03	A	C26	11	1	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
AC263A03	A	C26	11	1	CIS-1,2-DICHLOROETHENE	N	3	2003	2.4	UG/L	
AC264A03	A	C26	11	1	CIS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
AC272A03	A	C27	12	1	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
AC273A03	A	C27	12	1	CIS-1,2-DICHLOROETHENE	N	3	2003	0.5	UG/L	U
AC274A03	A	C27	12	1	CIS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
AC301A03	A	C30	13	1	CIS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
AC302A03	A	C30	13	1	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
AC303A03	A	C30	13	1	CIS-1,2-DICHLOROETHENE	N	3	2003	0.5	UG/L	U
AC304A03	A	C30	13	1	CIS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
ASPA1A03	A	SPA	14	1	CIS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
ASPA2A03	A	SPA	14	1	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
ASPA3A03	A	SPA	14	1	CIS-1,2-DICHLOROETHENE	N	3	2003	0.5	UG/L	U
ASPA4A03	A	SPA	14	1	CIS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
ASPC1A03	A	SPC	15	1	CIS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
ASPC2A03	A	SPC	15	1	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
ASPC3A03	A	SPC	15	1	CIS-1,2-DICHLOROETHENE	N	3	2003	0.5	UG/L	U
ASPC4A03	A	SPC	15	1	CIS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
FD12180301	A	SPC	15	1	CIS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
OC082A03	O	C08	1	1	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC112A03	O	C11	2	1	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
FD04290301	O	C12	3	1	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC122A03	O	C12	3	1	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC132A03	O	C13	4	1	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC142A03	O	C14	5	1	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
FD05070301	O	C15	6	1	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC152A03	O	C15	6	1	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC162A03	O	C16	7	1	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC182A03	O	C18	8	1	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC192A03	O	C19	9	1	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC11P22A03	O	C11P2	1	2	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC13P22A03	O	C13P2	2	2	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC14P22A03	O	C14P2	3	2	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC18P22A03	O	C18P2	4	2	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC19P22A03	O	C19P2	5	2	CIS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U

Table 7.31. Raw Data for Tetrachloroethene.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P22A03	A	C02P2	1	1	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
AC032A03	A	C03	2	1	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
AC042A03	A	C04	3	1	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
AC072A03	A	C07	4	1	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
AC08P22A03	A	C08P2	5	1	TETRACHLOROETHENE	N	2	2003	0.3	UG/L	J
AC09P22A03	A	C09P2	6	1	TETRACHLOROETHENE	N	2	2003	0.2	UG/L	J
AC152A03	A	C15	7	1	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
FD06170301	A	C15	7	1	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
AC172A03	A	C17	8	1	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
FD06190301	A	C17	8	1	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
AC202A03	A	C20	9	1	TETRACHLOROETHENE	N	2	2003	1.1	UG/L	
AC252A03	A	C25	10	1	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
AC262A03	A	C26	11	1	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
AC272A03	A	C27	12	1	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
AC302A03	A	C30	13	1	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
ASPA2A03	A	SPA	14	1	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
ASPC2A03	A	SPC	15	1	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
OC082A03	O	C08	1	1	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
OC112A03	O	C11	2	1	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
FD04290301	O	C12	3	1	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
OC122A03	O	C12	3	1	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
OC132A03	O	C13	4	1	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
OC142A03	O	C14	5	1	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
FD05070301	O	C15	6	1	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
OC152A03	O	C15	6	1	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
OC162A03	O	C16	7	1	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
OC182A03	O	C18	8	1	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
OC192A03	O	C19	9	1	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
OC11P22A03	O	C11P2	1	2	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
OC13P22A03	O	C13P2	2	2	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
OC14P22A03	O	C14P2	3	2	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
OC18P22A03	O	C18P2	4	2	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U
OC19P22A03	O	C19P2	5	2	TETRACHLOROETHENE	N	2	2003	0.5	UG/L	U

Table 7.32. Raw Data for trans-1,2-Dichloroethene.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03	A	C02P2	1	1	TRANS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
AC02P22A03	A	C02P2	1	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
AC02P23A03	A	C02P2	1	1	TRANS-1,2-DICHLOROETHENE	N	3	2003	0.5	UG/L	U
AC02P24A03	A	C02P2	1	1	TRANS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
AC031A03	A	C03	2	1	TRANS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
AC032A03	A	C03	2	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
AC033A03	A	C03	2	1	TRANS-1,2-DICHLOROETHENE	N	3	2003	0.5	UG/L	U
AC034A03	A	C03	2	1	TRANS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
AC041A03	A	C04	3	1	TRANS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
AC042A03	A	C04	3	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
AC043A03	A	C04	3	1	TRANS-1,2-DICHLOROETHENE	N	3	2003	0.5	UG/L	U
AC044A03	A	C04	3	1	TRANS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
AC071A03	A	C07	4	1	TRANS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
AC072A03	A	C07	4	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
AC073A03	A	C07	4	1	TRANS-1,2-DICHLOROETHENE	N	3	2003	0.5	UG/L	U
AC074A03	A	C07	4	1	TRANS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
AC08P21A03	A	C08P2	5	1	TRANS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
AC08P22A03	A	C08P2	5	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
AC08P23A03	A	C08P2	5	1	TRANS-1,2-DICHLOROETHENE	N	3	2003	0.7	UG/L	
AC08P24A03	A	C08P2	5	1	TRANS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
AC09P21A03	A	C09P2	6	1	TRANS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
AC09P22A03	A	C09P2	6	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
AC09P23A03	A	C09P2	6	1	TRANS-1,2-DICHLOROETHENE	N	3	2003	0.5	UG/L	U
FD08280301	A	C09P2	6	1	TRANS-1,2-DICHLOROETHENE	N	3	2003	0.5	UG/L	U
AC09P24A03	A	C09P2	6	1	TRANS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
AC151A03	A	C15	7	1	TRANS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
FD03050301	A	C15	7	1	TRANS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
AC152A03	A	C15	7	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
FD06170301	A	C15	7	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
AC153A03	A	C15	7	1	TRANS-1,2-DICHLOROETHENE	N	3	2003	0.5	UG/L	U
FD09040301	A	C15	7	1	TRANS-1,2-DICHLOROETHENE	N	3	2003	0.5	UG/L	U
AC154A03	A	C15	7	1	TRANS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
FD12020301	A	C15	7	1	TRANS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
AC171A03	A	C17	8	1	TRANS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
FD03110301	A	C17	8	1	TRANS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
AC172A03	A	C17	8	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
FD06190301	A	C17	8	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
AC173A03	A	C17	8	1	TRANS-1,2-DICHLOROETHENE	N	3	2003	0.5	UG/L	U
AC174A03	A	C17	8	1	TRANS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
AC201A03	A	C20	9	1	TRANS-1,2-DICHLOROETHENE	N	1	2003	8.3	UG/L	
AC202A03DL	A	C20	9	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	6.6	UG/L	JD
AC203A03	A	C20	9	1	TRANS-1,2-DICHLOROETHENE	N	3	2003	7.4	UG/L	
AC204A03	A	C20	9	1	TRANS-1,2-DICHLOROETHENE	N	4	2003	7.1	UG/L	
AC252A03	A	C25	10	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U

Table 7.32. Raw Data for trans-1,2-Dichloroethene. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC253A03	A	C25	10	1	TRANS-1,2-DICHLOROETHENE	N	3	2003	0.5	UG/L	U
AC254A03	A	C25	10	1	TRANS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
AC261A03	A	C26	11	1	TRANS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
AC262A03	A	C26	11	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
AC263A03	A	C26	11	1	TRANS-1,2-DICHLOROETHENE	N	3	2003	0.5	UG/L	U
AC264A03	A	C26	11	1	TRANS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
AC272A03	A	C27	12	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
AC273A03	A	C27	12	1	TRANS-1,2-DICHLOROETHENE	N	3	2003	0.5	UG/L	U
AC274A03	A	C27	12	1	TRANS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
AC301A03	A	C30	13	1	TRANS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
AC302A03	A	C30	13	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
AC303A03	A	C30	13	1	TRANS-1,2-DICHLOROETHENE	N	3	2003	0.5	UG/L	U
AC304A03	A	C30	13	1	TRANS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
ASPA1A03	A	SPA	14	1	TRANS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
ASPA2A03	A	SPA	14	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
ASPA3A03	A	SPA	14	1	TRANS-1,2-DICHLOROETHENE	N	3	2003	0.5	UG/L	U
ASPA4A03	A	SPA	14	1	TRANS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
ASPC1A03	A	SPC	15	1	TRANS-1,2-DICHLOROETHENE	N	1	2003	1	UG/L	U
ASPC2A03	A	SPC	15	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
ASPC3A03	A	SPC	15	1	TRANS-1,2-DICHLOROETHENE	N	3	2003	0.5	UG/L	U
ASPC4A03	A	SPC	15	1	TRANS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
FD12180301	A	SPC	15	1	TRANS-1,2-DICHLOROETHENE	N	4	2003	0.5	UG/L	U
OC082A03	O	C08	1	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC112A03	O	C11	2	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
FD04290301	O	C12	3	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC122A03	O	C12	3	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC132A03	O	C13	4	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC142A03	O	C14	5	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
FD05070301	O	C15	6	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC152A03	O	C15	6	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC162A03	O	C16	7	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC182A03	O	C18	8	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC192A03	O	C19	9	1	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC11P22A03	O	C11P2	1	2	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC13P22A03	O	C13P2	2	2	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC14P22A03	O	C14P2	3	2	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC18P22A03	O	C18P2	4	2	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC19P22A03	O	C19P2	5	2	TRANS-1,2-DICHLOROETHENE	N	2	2003	0.5	UG/L	U

Table 7.33. Raw Data for Trichloroethene.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03	A	C02P2	1	1	TRICHLOROETHENE	N	1	2003	2.3	UG/L	
AC02P22A03	A	C02P2	1	1	TRICHLOROETHENE	N	2	2003	4.8	UG/L	
AC02P23A03	A	C02P2	1	1	TRICHLOROETHENE	N	3	2003	10	UG/L	
AC02P24A03	A	C02P2	1	1	TRICHLOROETHENE	N	4	2003	2.9	UG/L	
AC031A03	A	C03	2	1	TRICHLOROETHENE	N	1	2003	1	UG/L	U
AC032A03	A	C03	2	1	TRICHLOROETHENE	N	2	2003	0.5	UG/L	U
AC033A03	A	C03	2	1	TRICHLOROETHENE	N	3	2003	0.5	UG/L	U
AC034A03	A	C03	2	1	TRICHLOROETHENE	N	4	2003	0.5	UG/L	U
AC041A03	A	C04	3	1	TRICHLOROETHENE	N	1	2003	1	UG/L	U
AC042A03	A	C04	3	1	TRICHLOROETHENE	N	2	2003	0.3	UG/L	J
AC043A03	A	C04	3	1	TRICHLOROETHENE	N	3	2003	0.5	UG/L	
AC044A03	A	C04	3	1	TRICHLOROETHENE	N	4	2003	0.4	UG/L	J
AC071A03	A	C07	4	1	TRICHLOROETHENE	N	1	2003	5.8	UG/L	
AC072A03	A	C07	4	1	TRICHLOROETHENE	N	2	2003	0.5	UG/L	U
AC073A03	A	C07	4	1	TRICHLOROETHENE	N	3	2003	5.2	UG/L	
AC074A03	A	C07	4	1	TRICHLOROETHENE	N	4	2003	5.7	UG/L	
AC08P21A03	A	C08P2	5	1	TRICHLOROETHENE	N	1	2003	73	UG/L	
AC08P22A03	A	C08P2	5	1	TRICHLOROETHENE	N	2	2003	55	UG/L	
AC08P23A03	A	C08P2	5	1	TRICHLOROETHENE	N	3	2003	62	UG/L	
AC08P24A03	A	C08P2	5	1	TRICHLOROETHENE	N	4	2003	58	UG/L	
AC09P21A03	A	C09P2	6	1	TRICHLOROETHENE	N	1	2003	180	UG/L	
AC09P22A03DL	A	C09P2	6	1	TRICHLOROETHENE	N	2	2003	110	UG/L	D
AC09P23A03	A	C09P2	6	1	TRICHLOROETHENE	N	3	2003	160	UG/L	
FD08280301	A	C09P2	6	1	TRICHLOROETHENE	N	3	2003	160	UG/L	
AC09P24A03	A	C09P2	6	1	TRICHLOROETHENE	N	4	2003	0.5	UG/L	U
AC151A03	A	C15	7	1	TRICHLOROETHENE	N	1	2003	1	UG/L	U
FD03050301	A	C15	7	1	TRICHLOROETHENE	N	1	2003	1	UG/L	U
AC152A03	A	C15	7	1	TRICHLOROETHENE	N	2	2003	0.5	UG/L	U
FD06170301	A	C15	7	1	TRICHLOROETHENE	N	2	2003	0.5	UG/L	U
AC153A03	A	C15	7	1	TRICHLOROETHENE	N	3	2003	0.5	UG/L	U
FD09040301	A	C15	7	1	TRICHLOROETHENE	N	3	2003	0.5	UG/L	U
AC154A03	A	C15	7	1	TRICHLOROETHENE	N	4	2003	0.5	UG/L	U
FD12020301	A	C15	7	1	TRICHLOROETHENE	N	4	2003	0.5	UG/L	U
AC171A03	A	C17	8	1	TRICHLOROETHENE	N	1	2003	1	UG/L	U
FD03110301	A	C17	8	1	TRICHLOROETHENE	N	1	2003	1	UG/L	U
AC172A03	A	C17	8	1	TRICHLOROETHENE	N	2	2003	0.5	UG/L	U
FD06190301	A	C17	8	1	TRICHLOROETHENE	N	2	2003	0.5	UG/L	U
AC173A03	A	C17	8	1	TRICHLOROETHENE	N	3	2003	0.5	UG/L	U
AC174A03	A	C17	8	1	TRICHLOROETHENE	N	4	2003	0.5	UG/L	U
AC201A03DL	A	C20	9	1	TRICHLOROETHENE	N	1	2003	2600	UG/L	D
AC202A03DL	A	C20	9	1	TRICHLOROETHENE	N	2	2003	2000	UG/L	D
AC203A03DL	A	C20	9	1	TRICHLOROETHENE	N	3	2003	3200	UG/L	D
AC204A03DL	A	C20	9	1	TRICHLOROETHENE	N	4	2003	2700	UG/L	D
AC252A03	A	C25	10	1	TRICHLOROETHENE	N	2	2003	0.5	UG/L	U

Table 7.33. Raw Data for Trichloroethene. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC253A03	A	C25	10	1	TRICHLOROETHENE	N	3	2003	0.5	UG/L	U
AC254A03	A	C25	10	1	TRICHLOROETHENE	N	4	2003	0.5	UG/L	U
AC261A03	A	C26	11	1	TRICHLOROETHENE	N	1	2003	17	UG/L	
AC262A03	A	C26	11	1	TRICHLOROETHENE	N	2	2003	13	UG/L	
AC263A03	A	C26	11	1	TRICHLOROETHENE	N	3	2003	9.3	UG/L	
AC264A03	A	C26	11	1	TRICHLOROETHENE	N	4	2003	15	UG/L	
AC272A03	A	C27	12	1	TRICHLOROETHENE	N	2	2003	3.5	UG/L	
AC273A03	A	C27	12	1	TRICHLOROETHENE	N	3	2003	3.8	UG/L	
AC274A03	A	C27	12	1	TRICHLOROETHENE	N	4	2003	3.8	UG/L	
AC301A03	A	C30	13	1	TRICHLOROETHENE	N	1	2003	1	UG/L	U
AC302A03	A	C30	13	1	TRICHLOROETHENE	N	2	2003	0.5	UG/L	U
AC303A03	A	C30	13	1	TRICHLOROETHENE	N	3	2003	0.5	UG/L	U
AC304A03	A	C30	13	1	TRICHLOROETHENE	N	4	2003	0.5	UG/L	U
ASPA1A03	A	SPA	14	1	TRICHLOROETHENE	N	1	2003	1	UG/L	U
ASPA2A03	A	SPA	14	1	TRICHLOROETHENE	N	2	2003	0.5	UG/L	U
ASPA3A03	A	SPA	14	1	TRICHLOROETHENE	N	3	2003	0.5	UG/L	U
ASPA4A03	A	SPA	14	1	TRICHLOROETHENE	N	4	2003	0.5	UG/L	U
ASPC1A03	A	SPC	15	1	TRICHLOROETHENE	N	1	2003	1	UG/L	U
ASPC2A03	A	SPC	15	1	TRICHLOROETHENE	N	2	2003	0.5	UG/L	U
ASPC3A03	A	SPC	15	1	TRICHLOROETHENE	N	3	2003	0.5	UG/L	U
ASPC4A03	A	SPC	15	1	TRICHLOROETHENE	N	4	2003	0.5	UG/L	U
FD12180301	A	SPC	15	1	TRICHLOROETHENE	N	4	2003	0.5	UG/L	U
OC082A03	O	C08	1	1	TRICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC112A03	O	C11	2	1	TRICHLOROETHENE	N	2	2003	0.5	UG/L	U
FD04290301	O	C12	3	1	TRICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC122A03	O	C12	3	1	TRICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC132A03	O	C13	4	1	TRICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC142A03	O	C14	5	1	TRICHLOROETHENE	N	2	2003	0.5	UG/L	U
FD05070301	O	C15	6	1	TRICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC152A03	O	C15	6	1	TRICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC162A03	O	C16	7	1	TRICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC182A03	O	C18	8	1	TRICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC192A03	O	C19	9	1	TRICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC11P22A03	O	C11P2	1	2	TRICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC13P22A03	O	C13P2	2	2	TRICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC14P22A03	O	C14P2	3	2	TRICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC18P22A03	O	C18P2	4	2	TRICHLOROETHENE	N	2	2003	0.5	UG/L	U
OC19P22A03	O	C19P2	5	2	TRICHLOROETHENE	N	2	2003	0.5	UG/L	U

Table 7.34. Raw Data for Ammonia.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC081A03	O	C08	1	1	AMMONIA AS N (EPA 350.1)	N	1	2003	0.02	MG/L	
OC082A03	O	C08	1	1	AMMONIA AS N (EPA 350.1)	N	2	2003	0.04	MG/L	J
OC083A03	O	C08	1	1	AMMONIA AS N (EPA 350.1)	N	3	2003	0.02	MG/L	
OC084A03	O	C08	1	1	AMMONIA AS N (EPA 350.1)	N	4	2003	0.01	MG/L	U
OC111A03	O	C11	2	1	AMMONIA AS N (EPA 350.1)	N	1	2003	0.12	MG/L	
OC112A03	O	C11	2	1	AMMONIA AS N (EPA 350.1)	N	2	2003	0.16	MG/L	
OC113A03	O	C11	2	1	AMMONIA AS N (EPA 350.1)	N	3	2003	0.2	MG/L	
OC114A03	O	C11	2	1	AMMONIA AS N (EPA 350.1)	N	4	2003	0.13	MG/L	
OC121A03	O	C12	3	1	AMMONIA AS N (EPA 350.1)	N	1	2003	0.14	MG/L	
FD04290301	O	C12	3	1	AMMONIA AS N (EPA 350.1)	N	2	2003	0.16	MG/L	J
OC122A03	O	C12	3	1	AMMONIA AS N (EPA 350.1)	N	2	2003	0.17	MG/L	J
OC123A03	O	C12	3	1	AMMONIA AS N (EPA 350.1)	N	3	2003	0.08	MG/L	
FD10150301	O	C12	3	1	AMMONIA AS N (EPA 350.1)	N	4	2003	0.1	MG/L	
OC124A03	O	C12	3	1	AMMONIA AS N (EPA 350.1)	N	4	2003	0.11	MG/L	
OC131A03	O	C13	4	1	AMMONIA AS N (EPA 350.1)	N	1	2003	0.35	MG/L	
OC132A03	O	C13	4	1	AMMONIA AS N (EPA 350.1)	N	2	2003	0.26	MG/L	
OC133A03	O	C13	4	1	AMMONIA AS N (EPA 350.1)	N	3	2003	0.35	MG/L	
OC134A03	O	C13	4	1	AMMONIA AS N (EPA 350.1)	N	4	2003	0.33	MG/L	
OC141A03	O	C14	5	1	AMMONIA AS N (EPA 350.1)	N	1	2003	0.01	MG/L	U
OC142A03	O	C14	5	1	AMMONIA AS N (EPA 350.1)	N	2	2003	0.04	MG/L	
OC143A03	O	C14	5	1	AMMONIA AS N (EPA 350.1)	N	3	2003	0.01	MG/L	U
OC144A03	O	C14	5	1	AMMONIA AS N (EPA 350.1)	N	4	2003	0.01	MG/L	U
FD01290301	O	C15	6	1	AMMONIA AS N (EPA 350.1)	N	1	2003	0.01	MG/L	
OC151A03	O	C15	6	1	AMMONIA AS N (EPA 350.1)	N	1	2003	0.01	MG/L	U
FD05070301	O	C15	6	1	AMMONIA AS N (EPA 350.1)	N	2	2003	0.01	MG/L	UJ
OC152A03	O	C15	6	1	AMMONIA AS N (EPA 350.1)	N	2	2003	0.01	MG/L	UJ
FD08120301	O	C15	6	1	AMMONIA AS N (EPA 350.1)	N	3	2003	0.01	MG/L	U
OC153A03	O	C15	6	1	AMMONIA AS N (EPA 350.1)	N	3	2003	0.01	MG/L	U
FD10300301	O	C15	6	1	AMMONIA AS N (EPA 350.1)	N	4	2003	0.02	MG/L	
OC154A03	O	C15	6	1	AMMONIA AS N (EPA 350.1)	N	4	2003	0.03	MG/L	
FD02130301	O	C16	7	1	AMMONIA AS N (EPA 350.1)	N	1	2003	0.3	MG/L	
OC161A03	O	C16	7	1	AMMONIA AS N (EPA 350.1)	N	1	2003	0.31	MG/L	
OC162A03	O	C16	7	1	AMMONIA AS N (EPA 350.1)	N	2	2003	0.29	MG/L	
OC163A03	O	C16	7	1	AMMONIA AS N (EPA 350.1)	N	3	2003	0.27	MG/L	
OC164A03	O	C16	7	1	AMMONIA AS N (EPA 350.1)	N	4	2003	0.01	MG/L	U
OC181A03	O	C18	8	1	AMMONIA AS N (EPA 350.1)	N	1	2003	0.16	MG/L	
OC182A03	O	C18	8	1	AMMONIA AS N (EPA 350.1)	N	2	2003	0.17	MG/L	
OC183A03	O	C18	8	1	AMMONIA AS N (EPA 350.1)	N	3	2003	0.16	MG/L	
OC184A03	O	C18	8	1	AMMONIA AS N (EPA 350.1)	N	4	2003	0.16	MG/L	
OC191A03	O	C19	9	1	AMMONIA AS N (EPA 350.1)	N	1	2003	0.04	MG/L	
OC192A03	O	C19	9	1	AMMONIA AS N (EPA 350.1)	N	2	2003	0.01	MG/L	J
FD08200301	O	C19	9	1	AMMONIA AS N (EPA 350.1)	N	3	2003	0.03	MG/L	

Table 7.34. Raw Data for Ammonia. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC193A03	O	C19	9	1	AMMONIA AS N (EPA 350.1)	N	3	2003	0.03	MG/L	
OC194A03	O	C19	9	1	AMMONIA AS N (EPA 350.1)	N	4	2003	0.05	MG/L	
OC11P21A03	O	C11P2	1	2	AMMONIA AS N (EPA 350.1)	N	1	2003	0.04	MG/L	
OC11P22A03	O	C11P2	1	2	AMMONIA AS N (EPA 350.1)	N	2	2003	0.03	MG/L	
OC11P23A03	O	C11P2	1	2	AMMONIA AS N (EPA 350.1)	N	3	2003	0.01	MG/L	U
OC11P24A03	O	C11P2	1	2	AMMONIA AS N (EPA 350.1)	N	4	2003	0.03	MG/L	
OC13P21A03	O	C13P2	2	2	AMMONIA AS N (EPA 350.1)	N	1	2003	0.41	MG/L	
OC13P22A03	O	C13P2	2	2	AMMONIA AS N (EPA 350.1)	N	2	2003	0.31	MG/L	
OC13P23A03	O	C13P2	2	2	AMMONIA AS N (EPA 350.1)	N	3	2003	0.32	MG/L	
OC13P24A03	O	C13P2	2	2	AMMONIA AS N (EPA 350.1)	N	4	2003	0.32	MG/L	
OC14P21A03	O	C14P2	3	2	AMMONIA AS N (EPA 350.1)	N	1	2003	0.01	MG/L	U
OC14P22A03	O	C14P2	3	2	AMMONIA AS N (EPA 350.1)	N	2	2003	0.01	MG/L	U
OC14P23A03	O	C14P2	3	2	AMMONIA AS N (EPA 350.1)	N	3	2003	0.01	MG/L	U
OC14P24A03	O	C14P2	3	2	AMMONIA AS N (EPA 350.1)	N	4	2003	0.01	MG/L	U
OC18P21A03	O	C18P2	4	2	AMMONIA AS N (EPA 350.1)	N	1	2003	0.94	MG/L	
OC18P22A03	O	C18P2	4	2	AMMONIA AS N (EPA 350.1)	N	2	2003	1.1	MG/L	
OC18P23A03	O	C18P2	4	2	AMMONIA AS N (EPA 350.1)	N	3	2003	0.89	MG/L	
OC18P24A03	O	C18P2	4	2	AMMONIA AS N (EPA 350.1)	N	4	2003	0.9	MG/L	
OC19P21A03	O	C19P2	5	2	AMMONIA AS N (EPA 350.1)	N	1	2003	0.08	MG/L	
OC19P22A03	O	C19P2	5	2	AMMONIA AS N (EPA 350.1)	N	2	2003	0.06	MG/L	
OC19P23A03	O	C19P2	5	2	AMMONIA AS N (EPA 350.1)	N	3	2003	0.04	MG/L	
OC19P24A03	O	C19P2	5	2	AMMONIA AS N (EPA 350.1)	N	4	2003	0.04	MG/L	

Table 7.35. Raw Data for Chloride.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03	A	C02P2	1	1	CHLORIDE (CL) SW 9056	N	1	2003	74	MG/L	
AC02P22A03	A	C02P2	1	1	CHLORIDE (CL) SW 9056	N	2	2003	100	MG/L	
AC02P23A03	A	C02P2	1	1	CHLORIDE (CL) SW 9056	N	3	2003	95	MG/L	
AC02P24A03	A	C02P2	1	1	CHLORIDE (CL) SW 9056	N	4	2003	34	MG/L	
AC031A03	A	C03	2	1	CHLORIDE (CL) SW 9056	N	1	2003	2	MG/L	
AC032A03	A	C03	2	1	CHLORIDE (CL) SW 9056	N	2	2003	1	MG/L	
AC033A03	A	C03	2	1	CHLORIDE (CL) SW 9056	N	3	2003	1	MG/L	
AC034A03	A	C03	2	1	CHLORIDE (CL) SW 9056	N	4	2003	1	MG/L	
AC041A03	A	C04	3	1	CHLORIDE (CL) SW 9056	N	1	2003	7	MG/L	
AC042A03	A	C04	3	1	CHLORIDE (CL) SW 9056	N	2	2003	8	MG/L	
AC043A03	A	C04	3	1	CHLORIDE (CL) SW 9056	N	3	2003	7	MG/L	
AC044A03	A	C04	3	1	CHLORIDE (CL) SW 9056	N	4	2003	8	MG/L	
AC071A03	A	C07	4	1	CHLORIDE (CL) SW 9056	N	1	2003	9	MG/L	
AC072A03	A	C07	4	1	CHLORIDE (CL) SW 9056	N	2	2003	8	MG/L	
AC073A03	A	C07	4	1	CHLORIDE (CL) SW 9056	N	3	2003	8	MG/L	
AC074A03	A	C07	4	1	CHLORIDE (CL) SW 9056	N	4	2003	9	MG/L	
AC08P21A03	A	C08P2	5	1	CHLORIDE (CL) SW 9056	N	1	2003	18	MG/L	
AC08P22A03	A	C08P2	5	1	CHLORIDE (CL) SW 9056	N	2	2003	10	MG/L	

Table 7.35. Raw Data for Chloride. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC08P23A03	A	C08P2	5	1	CHLORIDE (CL) SW 9056	N	3	2003	11	MG/L	
AC08P24A03	A	C08P2	5	1	CHLORIDE (CL) SW 9056	N	4	2003	12	MG/L	
AC09P21A03	A	C09P2	6	1	CHLORIDE (CL) SW 9056	N	1	2003	5	MG/L	
AC09P22A03	A	C09P2	6	1	CHLORIDE (CL) SW 9056	N	2	2003	5	MG/L	
AC09P23A03	A	C09P2	6	1	CHLORIDE (CL) SW 9056	N	3	2003	5	MG/L	
FD08280301	A	C09P2	6	1	CHLORIDE (CL) SW 9056	N	3	2003	5	MG/L	
AC09P24A03	A	C09P2	6	1	CHLORIDE (CL) SW 9056	N	4	2003	5	MG/L	
AC151A03	A	C15	7	1	CHLORIDE (CL) SW 9056	N	1	2003	6	MG/L	
FD03050301	A	C15	7	1	CHLORIDE (CL) SW 9056	N	1	2003	6	MG/L	
AC152A03	A	C15	7	1	CHLORIDE (CL) SW 9056	N	2	2003	6	MG/L	
FD06170301	A	C15	7	1	CHLORIDE (CL) SW 9056	N	2	2003	6	MG/L	
AC153A03	A	C15	7	1	CHLORIDE (CL) SW 9056	N	3	2003	6	MG/L	
FD09040301	A	C15	7	1	CHLORIDE (CL) SW 9056	N	3	2003	6	MG/L	
AC154A03	A	C15	7	1	CHLORIDE (CL) SW 9056	N	4	2003	6	MG/L	
FD12020301	A	C15	7	1	CHLORIDE (CL) SW 9056	N	4	2003	6	MG/L	
AC171A03	A	C17	8	1	CHLORIDE (CL) SW 9056	N	1	2003	3	MG/L	
FD03110301	A	C17	8	1	CHLORIDE (CL) SW 9056	N	1	2003	3	MG/L	
AC172A03	A	C17	8	1	CHLORIDE (CL) SW 9056	N	2	2003	4	MG/L	
FD06190301	A	C17	8	1	CHLORIDE (CL) SW 9056	N	2	2003	3	MG/L	
AC173A03	A	C17	8	1	CHLORIDE (CL) SW 9056	N	3	2003	3	MG/L	
AC174A03	A	C17	8	1	CHLORIDE (CL) SW 9056	N	4	2003	4	MG/L	
AC201A03	A	C20	9	1	CHLORIDE (CL) SW 9056	N	1	2003	6	MG/L	
AC202A03	A	C20	9	1	CHLORIDE (CL) SW 9056	N	2	2003	6	MG/L	
AC203A03	A	C20	9	1	CHLORIDE (CL) SW 9056	N	3	2003	6	MG/L	
AC204A03	A	C20	9	1	CHLORIDE (CL) SW 9056	N	4	2003	6	MG/L	
AC252A03	A	C25	10	1	CHLORIDE (CL) SW 9056	N	2	2003	2	MG/L	
AC253A03	A	C25	10	1	CHLORIDE (CL) SW 9056	N	3	2003	2	MG/L	
AC254A03	A	C25	10	1	CHLORIDE (CL) SW 9056	N	4	2003	2	MG/L	
AC261A03	A	C26	11	1	CHLORIDE (CL) SW 9056	N	1	2003	4	MG/L	
AC262A03	A	C26	11	1	CHLORIDE (CL) SW 9056	N	2	2003	3	MG/L	
AC263A03	A	C26	11	1	CHLORIDE (CL) SW 9056	N	3	2003	4	MG/L	
AC264A03	A	C26	11	1	CHLORIDE (CL) SW 9056	N	4	2003	4	MG/L	
AC272A03	A	C27	12	1	CHLORIDE (CL) SW 9056	N	2	2003	3	MG/L	
AC273A03	A	C27	12	1	CHLORIDE (CL) SW 9056	N	3	2003	3	MG/L	
AC274A03	A	C27	12	1	CHLORIDE (CL) SW 9056	N	4	2003	3	MG/L	
AC301A03	A	C30	13	1	CHLORIDE (CL) SW 9056	N	1	2003	2	MG/L	
AC302A03	A	C30	13	1	CHLORIDE (CL) SW 9056	N	2	2003	2	MG/L	
AC303A03	A	C30	13	1	CHLORIDE (CL) SW 9056	N	3	2003	2	MG/L	
AC304A03	A	C30	13	1	CHLORIDE (CL) SW 9056	N	4	2003	2	MG/L	
ASPA1A03	A	SPA	14	1	CHLORIDE (CL) SW 9056	N	1	2003	4	MG/L	
ASPA2A03	A	SPA	14	1	CHLORIDE (CL) SW 9056	N	2	2003	8	MG/L	
ASPA3A03	A	SPA	14	1	CHLORIDE (CL) SW 9056	N	3	2003	12	MG/L	
ASPA4A03	A	SPA	14	1	CHLORIDE (CL) SW 9056	N	4	2003	5	MG/L	
ASPC1A03	A	SPC	15	1	CHLORIDE (CL) SW 9056	N	1	2003	2	MG/L	

Table 7.35. Raw Data for Chloride. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
ASPC2A03	A	SPC	15	1	CHLORIDE (CL) SW 9056	N	2	2003	4	MG/L	
ASPC3A03	A	SPC	15	1	CHLORIDE (CL) SW 9056	N	3	2003	6	MG/L	
ASPC4A03	A	SPC	15	1	CHLORIDE (CL) SW 9056	N	4	2003	3	MG/L	
FD12180301	A	SPC	15	1	CHLORIDE (CL) SW 9056	N	4	2003	3	MG/L	

Table 7.36. Raw Data for Sulfate.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03	A	C02P2	1	1	SULFATE (SO4) SW 9056	N	1	2003	31	MG/L	
AC02P22A03	A	C02P2	1	1	SULFATE (SO4) SW 9056	N	2	2003	64	MG/L	
AC02P23A03	A	C02P2	1	1	SULFATE (SO4) SW 9056	N	3	2003	71	MG/L	J
AC02P24A03	A	C02P2	1	1	SULFATE (SO4) SW 9056	N	4	2003	37	MG/L	
AC031A03	A	C03	2	1	SULFATE (SO4) SW 9056	N	1	2003	88	MG/L	
AC032A03	A	C03	2	1	SULFATE (SO4) SW 9056	N	2	2003	85	MG/L	
AC033A03	A	C03	2	1	SULFATE (SO4) SW 9056	N	3	2003	93	MG/L	J
AC034A03	A	C03	2	1	SULFATE (SO4) SW 9056	N	4	2003	76	MG/L	
AC041A03	A	C04	3	1	SULFATE (SO4) SW 9056	N	1	2003	790	MG/L	
AC042A03	A	C04	3	1	SULFATE (SO4) SW 9056	N	2	2003	860	MG/L	
AC043A03	A	C04	3	1	SULFATE (SO4) SW 9056	N	3	2003	900	MG/L	J
AC044A03	A	C04	3	1	SULFATE (SO4) SW 9056	N	4	2003	940	MG/L	
AC071A03	A	C07	4	1	SULFATE (SO4) SW 9056	N	1	2003	79	MG/L	
AC072A03	A	C07	4	1	SULFATE (SO4) SW 9056	N	2	2003	95	MG/L	
AC073A03	A	C07	4	1	SULFATE (SO4) SW 9056	N	3	2003	100	MG/L	J
AC074A03	A	C07	4	1	SULFATE (SO4) SW 9056	N	4	2003	100	MG/L	
AC08P21A03	A	C08P2	5	1	SULFATE (SO4) SW 9056	N	1	2003	140	MG/L	
AC08P22A03	A	C08P2	5	1	SULFATE (SO4) SW 9056	N	2	2003	110	MG/L	
AC08P23A03	A	C08P2	5	1	SULFATE (SO4) SW 9056	N	3	2003	140	MG/L	J
AC08P24A03	A	C08P2	5	1	SULFATE (SO4) SW 9056	N	4	2003	150	MG/L	
AC09P21A03	A	C09P2	6	1	SULFATE (SO4) SW 9056	N	1	2003	54	MG/L	
AC09P22A03	A	C09P2	6	1	SULFATE (SO4) SW 9056	N	2	2003	50	MG/L	
AC09P23A03	A	C09P2	6	1	SULFATE (SO4) SW 9056	N	3	2003	49	MG/L	
FD08280301	A	C09P2	6	1	SULFATE (SO4) SW 9056	N	3	2003	48	MG/L	
AC09P24A03	A	C09P2	6	1	SULFATE (SO4) SW 9056	N	4	2003	45	MG/L	
AC151A03	A	C15	7	1	SULFATE (SO4) SW 9056	N	1	2003	100	MG/L	
FD03050301	A	C15	7	1	SULFATE (SO4) SW 9056	N	1	2003	100	MG/L	
AC152A03	A	C15	7	1	SULFATE (SO4) SW 9056	N	2	2003	110	MG/L	
FD06170301	A	C15	7	1	SULFATE (SO4) SW 9056	N	2	2003	100	MG/L	
AC153A03	A	C15	7	1	SULFATE (SO4) SW 9056	N	3	2003	110	MG/L	J
FD09040301	A	C15	7	1	SULFATE (SO4) SW 9056	N	3	2003	100	MG/L	J
AC154A03	A	C15	7	1	SULFATE (SO4) SW 9056	N	4	2003	94	MG/L	
FD12020301	A	C15	7	1	SULFATE (SO4) SW 9056	N	4	2003	110	MG/L	
AC171A03	A	C17	8	1	SULFATE (SO4) SW 9056	N	1	2003	1100	MG/L	J
FD03110301	A	C17	8	1	SULFATE (SO4) SW 9056	N	1	2003	1200	MG/L	J

Table 7.36. Raw Data for Sulfate. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC172A03	A	C17	8	1	SULFATE (SO4) SW 9056	N	2	2003	990	MG/L	
FD06190301	A	C17	8	1	SULFATE (SO4) SW 9056	N	2	2003	1000	MG/L	
AC173A03	A	C17	8	1	SULFATE (SO4) SW 9056	N	3	2003	1000	MG/L	
AC174A03	A	C17	8	1	SULFATE (SO4) SW 9056	N	4	2003	1100	MG/L	
AC201A03	A	C20	9	1	SULFATE (SO4) SW 9056	N	1	2003	120	MG/L	
AC202A03	A	C20	9	1	SULFATE (SO4) SW 9056	N	2	2003	120	MG/L	
AC203A03	A	C20	9	1	SULFATE (SO4) SW 9056	N	3	2003	140	MG/L	J
AC204A03	A	C20	9	1	SULFATE (SO4) SW 9056	N	4	2003	120	MG/L	
AC252A03	A	C25	10	1	SULFATE (SO4) SW 9056	N	2	2003	240	MG/L	
AC253A03	A	C25	10	1	SULFATE (SO4) SW 9056	N	3	2003	250	MG/L	
AC254A03	A	C25	10	1	SULFATE (SO4) SW 9056	N	4	2003	230	MG/L	
AC261A03	A	C26	11	1	SULFATE (SO4) SW 9056	N	1	2003	100	MG/L	
AC262A03	A	C26	11	1	SULFATE (SO4) SW 9056	N	2	2003	100	MG/L	
AC263A03	A	C26	11	1	SULFATE (SO4) SW 9056	N	3	2003	100	MG/L	J
AC264A03	A	C26	11	1	SULFATE (SO4) SW 9056	N	4	2003	100	MG/L	
AC272A03	A	C27	12	1	SULFATE (SO4) SW 9056	N	2	2003	10	MG/L	
AC273A03	A	C27	12	1	SULFATE (SO4) SW 9056	N	3	2003	10	MG/L	J
AC274A03	A	C27	12	1	SULFATE (SO4) SW 9056	N	4	2003	10	MG/L	
AC301A03	A	C30	13	1	SULFATE (SO4) SW 9056	N	1	2003	130	MG/L	
AC302A03	A	C30	13	1	SULFATE (SO4) SW 9056	N	2	2003	130	MG/L	
AC303A03	A	C30	13	1	SULFATE (SO4) SW 9056	N	3	2003	120	MG/L	
AC304A03	A	C30	13	1	SULFATE (SO4) SW 9056	N	4	2003	130	MG/L	
ASPA1A03	A	SPA	14	1	SULFATE (SO4) SW 9056	N	1	2003	24	MG/L	
ASPA2A03	A	SPA	14	1	SULFATE (SO4) SW 9056	N	2	2003	43	MG/L	
ASPA3A03	A	SPA	14	1	SULFATE (SO4) SW 9056	N	3	2003	58	MG/L	
ASPA4A03	A	SPA	14	1	SULFATE (SO4) SW 9056	N	4	2003	25	MG/L	
ASPC1A03	A	SPC	15	1	SULFATE (SO4) SW 9056	N	1	2003	19	MG/L	
ASPC2A03	A	SPC	15	1	SULFATE (SO4) SW 9056	N	2	2003	32	MG/L	
ASPC3A03	A	SPC	15	1	SULFATE (SO4) SW 9056	N	3	2003	43	MG/L	
ASPC4A03	A	SPC	15	1	SULFATE (SO4) SW 9056	N	4	2003	19	MG/L	
FD12180301	A	SPC	15	1	SULFATE (SO4) SW 9056	N	4	2003	19	MG/L	

Table 7.37. Raw Data for Total Phosphorus (Filtered).

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03F	A	C02P2	1	1	TOTAL PHOSPHORUS AS P	Y	1	2003	0.02	MG/L	
AC02P22A03F	A	C02P2	1	1	TOTAL PHOSPHORUS AS P	Y	2	2003	0.1	MG/L	U
AC02P23A03F	A	C02P2	1	1	TOTAL PHOSPHORUS AS P	Y	3	2003	0.1	MG/L	U
AC02P24A03F	A	C02P2	1	1	TOTAL PHOSPHORUS AS P	Y	4	2003	0.1	MG/L	U
AC031A03F	A	C03	2	1	TOTAL PHOSPHORUS AS P	Y	1	2003	0.02	MG/L	
AC032A03F	A	C03	2	1	TOTAL PHOSPHORUS AS P	Y	2	2003	0.1	MG/L	U
AC033A03F	A	C03	2	1	TOTAL PHOSPHORUS AS P	Y	3	2003	0.1	MG/L	U
AC034A03F	A	C03	2	1	TOTAL PHOSPHORUS AS P	Y	4	2003	0.1	MG/L	U

Table 7.37. Raw Data for Total Phosphorus (Filtered). (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC041A03F	A	C04	3	1	TOTAL PHOSPHORUS AS P	Y	1	2003	0.02	MG/L	U
AC042A03F	A	C04	3	1	TOTAL PHOSPHORUS AS P	Y	2	2003	0.1	MG/L	U
AC043A03F	A	C04	3	1	TOTAL PHOSPHORUS AS P	Y	3	2003	0.1	MG/L	U
AC044A03F	A	C04	3	1	TOTAL PHOSPHORUS AS P	Y	4	2003	0.1	MG/L	U
AC071A03F	A	C07	4	1	TOTAL PHOSPHORUS AS P	Y	1	2003	0.02	MG/L	
AC072A03F	A	C07	4	1	TOTAL PHOSPHORUS AS P	Y	2	2003	0.1	MG/L	U
AC073A03F	A	C07	4	1	TOTAL PHOSPHORUS AS P	Y	3	2003	0.1	MG/L	U
AC074A03F	A	C07	4	1	TOTAL PHOSPHORUS AS P	Y	4	2003	0.1	MG/L	U
AC08P21A03F	A	C08P2	5	1	TOTAL PHOSPHORUS AS P	Y	1	2003	0.02	MG/L	U
AC08P22A03F	A	C08P2	5	1	TOTAL PHOSPHORUS AS P	Y	2	2003	0.1	MG/L	U
AC08P23A03F	A	C08P2	5	1	TOTAL PHOSPHORUS AS P	Y	3	2003	0.1	MG/L	U
AC08P24A03F	A	C08P2	5	1	TOTAL PHOSPHORUS AS P	Y	4	2003	0.1	MG/L	U
AC09P21A03F	A	C09P2	6	1	TOTAL PHOSPHORUS AS P	Y	1	2003	0.03	MG/L	
AC09P22A03F	A	C09P2	6	1	TOTAL PHOSPHORUS AS P	Y	2	2003	0.1	MG/L	U
AC09P23A03F	A	C09P2	6	1	TOTAL PHOSPHORUS AS P	Y	3	2003	0.1	MG/L	U
FD08280301F	A	C09P2	6	1	TOTAL PHOSPHORUS AS P	Y	3	2003	0.1	MG/L	U
AC09P24A03F	A	C09P2	6	1	TOTAL PHOSPHORUS AS P	Y	4	2003	0.1	MG/L	U
AC151A03F	A	C15	7	1	TOTAL PHOSPHORUS AS P	Y	1	2003	0.02	MG/L	U
FD03050301F	A	C15	7	1	TOTAL PHOSPHORUS AS P	Y	1	2003	0.02	MG/L	U
AC152A03F	A	C15	7	1	TOTAL PHOSPHORUS AS P	Y	2	2003	0.1	MG/L	U
FD06170301F	A	C15	7	1	TOTAL PHOSPHORUS AS P	Y	2	2003	0.1	MG/L	U
AC153A03F	A	C15	7	1	TOTAL PHOSPHORUS AS P	Y	3	2003	0.1	MG/L	U
FD09040301F	A	C15	7	1	TOTAL PHOSPHORUS AS P	Y	3	2003	0.1	MG/L	U
AC154A03F	A	C15	7	1	TOTAL PHOSPHORUS AS P	Y	4	2003	0.1	G/L	U
FD12020301F	A	C15	7	1	TOTAL PHOSPHORUS AS P	Y	4	2003	0.1	MG/L	U
AC171A03F	A	C17	8	1	TOTAL PHOSPHORUS AS P	Y	1	2003	0.02	MG/L	U
FD03110301F	A	C17	8	1	TOTAL PHOSPHORUS AS P	Y	1	2003	0.02	MG/L	U
AC172A03F	A	C17	8	1	TOTAL PHOSPHORUS AS P	Y	2	2003	0.1	MG/L	U
FD06190301F	A	C17	8	1	TOTAL PHOSPHORUS AS P	Y	2	2003	0.1	MG/L	U
AC173A03F	A	C17	8	1	TOTAL PHOSPHORUS AS P	Y	3	2003	0.1	MG/L	UJ
AC174A03F	A	C17	8	1	TOTAL PHOSPHORUS AS P	Y	4	2003	0.1	MG/L	U
AC201A03F	A	C20	9	1	TOTAL PHOSPHORUS AS P	Y	1	2003	0.02	MG/L	U
AC202A03F	A	C20	9	1	TOTAL PHOSPHORUS AS P	Y	2	2003	0.1	MG/L	U
AC203A03F	A	C20	9	1	TOTAL PHOSPHORUS AS P	Y	3	2003	0.1	MG/L	U
AC204A03F	A	C20	9	1	TOTAL PHOSPHORUS AS P	Y	4	2003	0.1	MG/L	U
AC252A03F	A	C25	10	1	TOTAL PHOSPHORUS AS P	Y	2	2003	0.1	MG/L	U
AC253A03F	A	C25	10	1	TOTAL PHOSPHORUS AS P	Y	3	2003	0.1	MG/L	UJ
AC254A03F	A	C25	10	1	TOTAL PHOSPHORUS AS P	Y	4	2003	0.1	MG/L	U
AC261A03F	A	C26	11	1	TOTAL PHOSPHORUS AS P	Y	1	2003	0.02	MG/L	U
AC262A03F	A	C26	11	1	TOTAL PHOSPHORUS AS P	Y	2	2003	0.1	MG/L	U
AC263A03F	A	C26	11	1	TOTAL PHOSPHORUS AS P	Y	3	2003	0.1	MG/L	U
AC264A03F	A	C26	11	1	TOTAL PHOSPHORUS AS P	Y	4	2003	0.1	MG/L	U
AC272A03F	A	C27	12	1	TOTAL PHOSPHORUS AS P	Y	2	2003	0.1	MG/L	U

Table 7.37. Raw Data for Total Phosphorus (Filtered). (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC273A03F	A	C27	12	1	TOTAL PHOSPHORUS AS P	Y	3	2003	0.1	MG/L	UJ
AC274A03F	A	C27	12	1	TOTAL PHOSPHORUS AS P	Y	4	2003	0.1	MG/L	U
AC301A03F	A	C30	13	1	TOTAL PHOSPHORUS AS P	Y	1	2003	0.02	MG/L	U
AC302A03F	A	C30	13	1	TOTAL PHOSPHORUS AS P	Y	2	2003	0.1	MG/L	U
AC303A03F	A	C30	13	1	TOTAL PHOSPHORUS AS P	Y	3	2003	0.1	MG/L	U
AC304A03F	A	C30	13	1	TOTAL PHOSPHORUS AS P	Y	4	2003	0.1	MG/L	U
ASPA1A03F	A	SPA	14	1	TOTAL PHOSPHORUS AS P	Y	1	2003	0.02	MG/L	
ASPA2A03F	A	SPA	14	1	TOTAL PHOSPHORUS AS P	Y	2	2003	0.1	MG/L	U
ASPA3A03F	A	SPA	14	1	TOTAL PHOSPHORUS AS P	Y	3	2003	0.1	MG/L	UJ
ASPA4A03F	A	SPA	14	1	TOTAL PHOSPHORUS AS P	Y	4	2003	0.1	MG/L	U
ASPC1A03F	A	SPC	15	1	TOTAL PHOSPHORUS AS P	Y	1	2003	0.02	MG/L	U
ASPC2A03F	A	SPC	15	1	TOTAL PHOSPHORUS AS P	Y	2	2003	0.1	MG/L	U
ASPC3A03F	A	SPC	15	1	TOTAL PHOSPHORUS AS P	Y	3	2003	0.1	MG/L	UJ
ASPC4A03F	A	SPC	15	1	TOTAL PHOSPHORUS AS P	Y	4	2003	0.1	MG/L	U
FD12180301F	A	SPC	15	1	TOTAL PHOSPHORUS AS P	Y	4	2003	0.1	MG/L	U

Table 7.38. Raw Data for Total Phosphorus.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03	A	C02P2	1	1	TOTAL PHOSPHORUS AS P	N	1	2003	0.02	MG/L	
AC02P22A03	A	C02P2	1	1	TOTAL PHOSPHORUS AS P	N	2	2003	0.1	MG/L	U
AC02P23A03	A	C02P2	1	1	TOTAL PHOSPHORUS AS P	N	3	2003	0.1	MG/L	U
AC02P24A03	A	C02P2	1	1	TOTAL PHOSPHORUS AS P	N	4	2003	0.1	MG/L	U
AC031A03	A	C03	2	1	TOTAL PHOSPHORUS AS P	N	1	2003	0.02	MG/L	
AC032A03	A	C03	2	1	TOTAL PHOSPHORUS AS P	N	2	2003	0.1	MG/L	U
AC033A03	A	C03	2	1	TOTAL PHOSPHORUS AS P	N	3	2003	0.1	MG/L	U
AC034A03	A	C03	2	1	TOTAL PHOSPHORUS AS P	N	4	2003	0.1	MG/L	U
AC041A03	A	C04	3	1	TOTAL PHOSPHORUS AS P	N	1	2003	0.02	MG/L	U
AC042A03	A	C04	3	1	TOTAL PHOSPHORUS AS P	N	2	2003	0.1	MG/L	U
AC043A03	A	C04	3	1	TOTAL PHOSPHORUS AS P	N	3	2003	0.1	MG/L	U
AC044A03	A	C04	3	1	TOTAL PHOSPHORUS AS P	N	4	2003	0.1	MG/L	U
AC071A03	A	C07	4	1	TOTAL PHOSPHORUS AS P	N	1	2003	0.02	MG/L	U
AC072A03	A	C07	4	1	TOTAL PHOSPHORUS AS P	N	2	2003	0.1	MG/L	U
AC073A03	A	C07	4	1	TOTAL PHOSPHORUS AS P	N	3	2003	0.1	MG/L	U
AC074A03	A	C07	4	1	TOTAL PHOSPHORUS AS P	N	4	2003	0.1	MG/L	U
AC08P21A03	A	C08P2	5	1	TOTAL PHOSPHORUS AS P	N	1	2003	0.02	MG/L	U
AC08P22A03	A	C08P2	5	1	TOTAL PHOSPHORUS AS P	N	2	2003	0.1	MG/L	U
AC08P23A03	A	C08P2	5	1	TOTAL PHOSPHORUS AS P	N	3	2003	0.1	MG/L	U
AC08P24A03	A	C08P2	5	1	TOTAL PHOSPHORUS AS P	N	4	2003	0.1	MG/L	U
AC09P21A03	A	C09P2	6	1	TOTAL PHOSPHORUS AS P	N	1	2003	0.1	MG/L	
AC09P22A03	A	C09P2	6	1	TOTAL PHOSPHORUS AS P	N	2	2003	0.1	MG/L	
AC09P23A03	A	C09P2	6	1	TOTAL PHOSPHORUS AS P	N	3	2003	0.1	MG/L	U
FD08280301	A	C09P2	6	1	TOTAL PHOSPHORUS AS P	N	3	2003	0.1	MG/L	
AC09P24A03	A	C09P2	6	1	TOTAL PHOSPHORUS AS P	N	4	2003	0.1	MG/L	

Table 7.38. Raw Data for Total Phosphorus. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC151A03	A	C15	7	1	TOTAL PHOSPHORUS AS P	N	1	2003	0.02	MG/L	U
FD03050301	A	C15	7	1	TOTAL PHOSPHORUS AS P	N	1	2003	0.02	MG/L	U
AC152A03	A	C15	7	1	TOTAL PHOSPHORUS AS P	N	2	2003	0.1	MG/L	U
FD06170301	A	C15	7	1	TOTAL PHOSPHORUS AS P	N	2	2003	0.1	MG/L	U
AC153A03	A	C15	7	1	TOTAL PHOSPHORUS AS P	N	3	2003	0.1	MG/L	U
FD09040301	A	C15	7	1	TOTAL PHOSPHORUS AS P	N	3	2003	0.1	MG/L	U
AC154A03	A	C15	7	1	TOTAL PHOSPHORUS AS P	N	4	2003	0.1	MG/L	U
FD12020301	A	C15	7	1	TOTAL PHOSPHORUS AS P	N	4	2003	0.1	MG/L	U
AC171A03	A	C17	8	1	TOTAL PHOSPHORUS AS P	N	1	2003	0.02	MG/L	U
FD03110301	A	C17	8	1	TOTAL PHOSPHORUS AS P	N	1	2003	0.02	MG/L	U
AC172A03	A	C17	8	1	TOTAL PHOSPHORUS AS P	N	2	2003	0.1	MG/L	U
FD06190301	A	C17	8	1	TOTAL PHOSPHORUS AS P	N	2	2003	0.1	MG/L	U
AC173A03	A	C17	8	1	TOTAL PHOSPHORUS AS P	N	3	2003	0.1	MG/L	UJ
AC174A03	A	C17	8	1	TOTAL PHOSPHORUS AS P	N	4	2003	0.1	MG/L	U
AC201A03	A	C20	9	1	TOTAL PHOSPHORUS AS P	N	1	2003	0.02	MG/L	
AC202A03	A	C20	9	1	TOTAL PHOSPHORUS AS P	N	2	2003	0.1	MG/L	U
AC203A03	A	C20	9	1	TOTAL PHOSPHORUS AS P	N	3	2003	0.1	MG/L	U
AC204A03	A	C20	9	1	TOTAL PHOSPHORUS AS P	N	4	2003	0.1	MG/L	U
AC252A03	A	C25	10	1	TOTAL PHOSPHORUS AS P	N	2	2003	0.1	MG/L	U
AC253A03	A	C25	10	1	TOTAL PHOSPHORUS AS P	N	3	2003	0.1	MG/L	UJ
AC254A03	A	C25	10	1	TOTAL PHOSPHORUS AS P	N	4	2003	0.1	MG/L	U
AC261A03	A	C26	11	1	TOTAL PHOSPHORUS AS P	N	1	2003	0.02	MG/L	U
AC262A03	A	C26	11	1	TOTAL PHOSPHORUS AS P	N	2	2003	0.1	MG/L	U
AC263A03	A	C26	11	1	TOTAL PHOSPHORUS AS P	N	3	2003	0.1	MG/L	U
AC264A03	A	C26	11	1	TOTAL PHOSPHORUS AS P	N	4	2003	0.1	MG/L	U
AC272A03	A	C27	12	1	TOTAL PHOSPHORUS AS P	N	2	2003	0.1	MG/L	U
AC273A03	A	C27	12	1	TOTAL PHOSPHORUS AS P	N	3	2003	0.1	MG/L	UJ
AC274A03	A	C27	12	1	TOTAL PHOSPHORUS AS P	N	4	2003	0.1	MG/L	U
AC301A03	A	C30	13	1	TOTAL PHOSPHORUS AS P	N	1	2003	0.02	MG/L	U
AC302A03	A	C30	13	1	TOTAL PHOSPHORUS AS P	N	2	2003	0.1	MG/L	U
AC303A03	A	C30	13	1	TOTAL PHOSPHORUS AS P	N	3	2003	0.1	MG/L	U
AC304A03	A	C30	13	1	TOTAL PHOSPHORUS AS P	N	4	2003	0.1	MG/L	U
ASPA1A03	A	SPA	14	1	TOTAL PHOSPHORUS AS P	N	1	2003	0.02	MG/L	
ASPA2A03	A	SPA	14	1	TOTAL PHOSPHORUS AS P	N	2	2003	0.1	MG/L	U
ASPA3A03	A	SPA	14	1	TOTAL PHOSPHORUS AS P	N	3	2003	0.1	MG/L	UJ
ASPA4A03	A	SPA	14	1	TOTAL PHOSPHORUS AS P	N	4	2003	0.1	MG/L	U
ASPC1A03	A	SPC	15	1	TOTAL PHOSPHORUS AS P	N	1	2003	0.02	MG/L	U
ASPC2A03	A	SPC	15	1	TOTAL PHOSPHORUS AS P	N	2	2003	0.1	MG/L	U
ASPC3A03	A	SPC	15	1	TOTAL PHOSPHORUS AS P	N	3	2003	0.1	MG/L	UJ
ASPC4A03	A	SPC	15	1	TOTAL PHOSPHORUS AS P	N	4	2003	0.1	MG/L	U
FD12180301	A	SPC	15	1	TOTAL PHOSPHORUS AS P	N	4	2003	0.1	MG/L	U

Table 7.39. Raw Data for Total Organic Carbon.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03	A	C02P2	1	1	TOTAL ORGANIC CARBON	N	1	2003	1.5	MG/L	
AC02P22A03	A	C02P2	1	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
AC02P23A03	A	C02P2	1	1	TOTAL ORGANIC CARBON	N	3	2003	1.2	MG/L	
AC02P24A03	A	C02P2	1	1	TOTAL ORGANIC CARBON	N	4	2003	1.2	MG/L	
AC031A03	A	C03	2	1	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	U
AC032A03	A	C03	2	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
AC033A03	A	C03	2	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
AC034A03	A	C03	2	1	TOTAL ORGANIC CARBON	N	4	2003	1	MG/L	U
AC041A03	A	C04	3	1	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	U
AC042A03	A	C04	3	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
AC043A03	A	C04	3	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
AC044A03	A	C04	3	1	TOTAL ORGANIC CARBON	N	4	2003	1	MG/L	U
AC071A03	A	C07	4	1	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	U
AC072A03	A	C07	4	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
AC073A03	A	C07	4	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
AC074A03	A	C07	4	1	TOTAL ORGANIC CARBON	N	4	2003	1	MG/L	U
AC08P21A03	A	C08P2	5	1	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	
AC08P22A03	A	C08P2	5	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
AC08P23A03	A	C08P2	5	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
AC08P24A03	A	C08P2	5	1	TOTAL ORGANIC CARBON	N	4	2003	1	MG/L	U
AC09P21A03	A	C09P2	6	1	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	U
AC09P22A03	A	C09P2	6	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
AC09P23A03	A	C09P2	6	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
FD08280301	A	C09P2	6	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
AC09P24A03	A	C09P2	6	1	TOTAL ORGANIC CARBON	N	4	2003	1	MG/L	U
AC151A03	A	C15	7	1	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	U
FD03050301	A	C15	7	1	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	U
AC152A03	A	C15	7	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
FD06170301	A	C15	7	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
AC153A03	A	C15	7	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
FD09040301	A	C15	7	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
AC154A03	A	C15	7	1	TOTAL ORGANIC CARBON	N	4	2003	1	MG/L	U
FD12020301	A	C15	7	1	TOTAL ORGANIC CARBON	N	4	2003	1	MG/L	U
AC171A03	A	C17	8	1	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	
FD03110301	A	C17	8	1	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	U
AC172A03	A	C17	8	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
FD06190301	A	C17	8	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
AC173A03	A	C17	8	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
AC174A03	A	C17	8	1	TOTAL ORGANIC CARBON	N	4	2003	1	MG/L	U
AC201A03	A	C20	9	1	TOTAL ORGANIC CARBON	N	1	2003	1.2	MG/L	
AC202A03	A	C20	9	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
AC203A03	A	C20	9	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
AC204A03	A	C20	9	1	TOTAL ORGANIC CARBON	N	4	2003	1	MG/L	U

Table 7.39. Raw Data for Total Organic Carbon. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC252A03	A	C25	10	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
AC253A03	A	C25	10	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
AC254A03	A	C25	10	1	TOTAL ORGANIC CARBON	N	4	2003	1	MG/L	U
AC261A03	A	C26	11	1	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	U
AC262A03	A	C26	11	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
AC263A03	A	C26	11	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
AC264A03	A	C26	11	1	TOTAL ORGANIC CARBON	N	4	2003	1	MG/L	U
AC272A03	A	C27	12	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
AC273A03	A	C27	12	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
AC274A03	A	C27	12	1	TOTAL ORGANIC CARBON	N	4	2003	1	MG/L	U
AC301A03	A	C30	13	1	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	U
AC302A03	A	C30	13	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
AC303A03	A	C30	13	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
AC304A03	A	C30	13	1	TOTAL ORGANIC CARBON	N	4	2003	1	MG/L	U
ASPA1A03	A	SPA	14	1	TOTAL ORGANIC CARBON	N	1	2003	1.4	MG/L	
ASPA2A03	A	SPA	14	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
ASPA3A03	A	SPA	14	1	TOTAL ORGANIC CARBON	N	3	2003	1.1	MG/L	
ASPA4A03	A	SPA	14	1	TOTAL ORGANIC CARBON	N	4	2003	1.6	MG/L	
ASPC1A03	A	SPC	15	1	TOTAL ORGANIC CARBON	N	1	2003	1.3	MG/L	
ASPC2A03	A	SPC	15	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
ASPC3A03	A	SPC	15	1	TOTAL ORGANIC CARBON	N	3	2003	1.2	MG/L	
ASPC4A03	A	SPC	15	1	TOTAL ORGANIC CARBON	N	4	2003	1.2	MG/L	
FD12180301	A	SPC	15	1	TOTAL ORGANIC CARBON	N	4	2003	1.2	MG/L	
DC021A03	D	C02	1	1	TOTAL ORGANIC CARBON	N	1	2003	1.1	MG/L	
DC023A03	D	C02	1	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
DC031A03	D	C03	2	1	TOTAL ORGANIC CARBON	N	1	2003	2.4	MG/L	
DC033A03	D	C03	2	1	TOTAL ORGANIC CARBON	N	3	2003	1.9	MG/L	
FD07140301	D	C03	2	1	TOTAL ORGANIC CARBON	N	3	2003	2	MG/L	
DC041A03	D	C04	3	1	TOTAL ORGANIC CARBON	N	1	2003	1.8	MG/L	
DC043A03	D	C04	3	1	TOTAL ORGANIC CARBON	N	3	2003	1.3	MG/L	
FD07090301	D	C04	3	1	TOTAL ORGANIC CARBON	N	3	2003	1.3	MG/L	
DC051A03	D	C05	4	1	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	
FD01130301	D	C05	4	1	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	U
DC053A03	D	C05	4	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
DC061A03	D	C06	5	1	TOTAL ORGANIC CARBON	N	1	2003	1.1	MG/L	
DC063A03	D	C06	5	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
DC071A03	D	C07	6	1	TOTAL ORGANIC CARBON	N	1	2003	1.2	MG/L	
DC073A03	D	C07	6	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
DC081A03	D	C08	7	1	TOTAL ORGANIC CARBON	N	1	2003	1.6	MG/L	
DC083A03	D	C08	7	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
DC03P21A03	D	C03P2	1	2	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	U
FD01090301	D	C03P2	1	2	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	
DC03P23A03	D	C03P2	1	2	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U

Table 7.39. Raw Data for Total Organic Carbon. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
DC04P21A03	D	C04P2	2	2	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	U
DC04P23A03	D	C04P2	2	2	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
DC06P21A03	D	C06P2	3	2	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	U
DC06P23A03	D	C06P2	3	2	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
DC08P23A03	D	C08P2	4	2	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
OC081A03	O	C08	1	1	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	U
OC082A03	O	C08	1	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
OC083A03	O	C08	1	1	TOTAL ORGANIC CARBON	N	3	2003	1.1	MG/L	
OC084A03	O	C08	1	1	TOTAL ORGANIC CARBON	N	4	2003	1	MG/L	U
OC111A03	O	C11	2	1	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	U
OC112A03	O	C11	2	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
OC113A03	O	C11	2	1	TOTAL ORGANIC CARBON	N	3	2003	1.3	MG/L	
OC114A03	O	C11	2	1	TOTAL ORGANIC CARBON	N	4	2003	1	MG/L	U
OC121A03	O	C12	3	1	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	U
FD04290301	O	C12	3	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
OC122A03	O	C12	3	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
OC123A03	O	C12	3	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
FD10150301	O	C12	3	1	TOTAL ORGANIC CARBON	N	4	2003	1	MG/L	U
OC124A03	O	C12	3	1	TOTAL ORGANIC CARBON	N	4	2003	1	MG/L	U
OC131A03	O	C13	4	1	TOTAL ORGANIC CARBON	N	1	2003	1.5	MG/L	
OC132A03	O	C13	4	1	TOTAL ORGANIC CARBON	N	2	2003	1.5	MG/L	
OC133A03	O	C13	4	1	TOTAL ORGANIC CARBON	N	3	2003	1.4	MG/L	
OC134A03	O	C13	4	1	TOTAL ORGANIC CARBON	N	4	2003	1.4	MG/L	
OC141A03	O	C14	5	1	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	U
OC142A03	O	C14	5	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
OC143A03	O	C14	5	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
OC144A03	O	C14	5	1	TOTAL ORGANIC CARBON	N	4	2003	1	MG/L	U
FD01290301	O	C15	6	1	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	U
OC151A03	O	C15	6	1	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	U
FD05070301	O	C15	6	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
OC152A03	O	C15	6	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
FD08120301	O	C15	6	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
OC153A03	O	C15	6	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
FD10300301	O	C15	6	1	TOTAL ORGANIC CARBON	N	4	2003	1	MG/L	U
OC154A03	O	C15	6	1	TOTAL ORGANIC CARBON	N	4	2003	1	MG/L	U
FD02130301	O	C16	7	1	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	U
OC161A03	O	C16	7	1	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	U
OC162A03	O	C16	7	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
OC163A03	O	C16	7	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
OC164A03	O	C16	7	1	TOTAL ORGANIC CARBON	N	4	2003	1	MG/L	U
OC181A03	O	C18	8	1	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	U
OC182A03	O	C18	8	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
OC183A03	O	C18	8	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U

Table 7.39. Raw Data for Total Organic Carbon. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC184A03	O	C18	8	1	TOTAL ORGANIC CARBON	N	4	2003	1	MG/L	U
OC191A03	O	C19	9	1	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	U
OC192A03	O	C19	9	1	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
FD08200301	O	C19	9	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
OC193A03	O	C19	9	1	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
OC194A03	O	C19	9	1	TOTAL ORGANIC CARBON	N	4	2003	1	MG/L	U
OC11P21A03	O	C11P2	1	2	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	U
OC11P22A03	O	C11P2	1	2	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
OC11P23A03	O	C11P2	1	2	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
OC11P24A03	O	C11P2	1	2	TOTAL ORGANIC CARBON	N	4	2003	1	MG/L	U
OC13P21A03	O	C13P2	2	2	TOTAL ORGANIC CARBON	N	1	2003	1.3	MG/L	
OC13P22A03	O	C13P2	2	2	TOTAL ORGANIC CARBON	N	2	2003	1.3	MG/L	
OC13P23A03	O	C13P2	2	2	TOTAL ORGANIC CARBON	N	3	2003	1.3	MG/L	
OC13P24A03	O	C13P2	2	2	TOTAL ORGANIC CARBON	N	4	2003	1.2	MG/L	
OC14P21A03	O	C14P2	3	2	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	U
OC14P22A03	O	C14P2	3	2	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
OC14P23A03	O	C14P2	3	2	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
OC14P24A03	O	C14P2	3	2	TOTAL ORGANIC CARBON	N	4	2003	1	MG/L	U
OC18P21A03	O	C18P2	4	2	TOTAL ORGANIC CARBON	N	1	2003	3.1	MG/L	
OC18P22A03	O	C18P2	4	2	TOTAL ORGANIC CARBON	N	2	2003	3.1	MG/L	
OC18P23A03	O	C18P2	4	2	TOTAL ORGANIC CARBON	N	3	2003	2.5	MG/L	
OC18P24A03	O	C18P2	4	2	TOTAL ORGANIC CARBON	N	4	2003	2.4	MG/L	
OC19P21A03	O	C19P2	5	2	TOTAL ORGANIC CARBON	N	1	2003	1	MG/L	U
OC19P22A03	O	C19P2	5	2	TOTAL ORGANIC CARBON	N	2	2003	1	MG/L	U
OC19P23A03	O	C19P2	5	2	TOTAL ORGANIC CARBON	N	3	2003	1	MG/L	U
OC19P24A03	O	C19P2	5	2	TOTAL ORGANIC CARBON	N	4	2003	1	MG/L	U

Table 7.40. Raw Data for Total Organic Halogens.

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC02P21A03	A	C02P2	1	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	U
AC02P22A03	A	C02P2	1	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	U
AC02P23A03	A	C02P2	1	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
AC02P24A03	A	C02P2	1	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
AC031A03	A	C03	2	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	U
AC032A03	A	C03	2	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	U
AC033A03	A	C03	2	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
AC034A03	A	C03	2	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
AC041A03	A	C04	3	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	U
AC042A03	A	C04	3	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	U
AC043A03	A	C04	3	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	UJ
AC044A03	A	C04	3	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
AC071A03	A	C07	4	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	U

Table 7.40. Raw Data for Total Organic Halogens. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC072A03	A	C07	4	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	U
AC073A03	A	C07	4	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
AC074A03	A	C07	4	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
AC08P21A03	A	C08P2	5	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	U
AC08P22A03	A	C08P2	5	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	
AC08P23A03	A	C08P2	5	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.09	MG/L	
AC08P24A03	A	C08P2	5	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
AC09P21A03	A	C09P2	6	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.11	MG/L	
AC09P22A03	A	C09P2	6	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.1	MG/L	
AC09P23A03	A	C09P2	6	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.1	MG/L	
FD08280301	A	C09P2	6	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.13	MG/L	
AC09P24A03	A	C09P2	6	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.11	MG/L	
AC151A03	A	C15	7	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	U
FD03050301	A	C15	7	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	U
AC152A03	A	C15	7	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	U
FD06170301	A	C15	7	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	U
AC153A03	A	C15	7	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	UJ
FD09040301	A	C15	7	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	UJ
AC154A03	A	C15	7	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.06	MG/L	
FD12020301	A	C15	7	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
AC171A03	A	C17	8	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	U
FD03110301	A	C17	8	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	U
AC172A03	A	C17	8	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	U
FD06190301	A	C17	8	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	U
AC173A03	A	C17	8	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	UJ
AC174A03	A	C17	8	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
AC201A03	A	C20	9	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.8	MG/L	
AC202A03	A	C20	9	1	TOTAL ORGANIC HALOGENS	N	2	2003	1.3	MG/L	
AC203A03	A	C20	9	1	TOTAL ORGANIC HALOGENS	N	3	2003	1.4	MG/L	
AC204A03	A	C20	9	1	TOTAL ORGANIC HALOGENS	N	4	2003	2	MG/L	
AC252A03	A	C25	10	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	U
AC253A03	A	C25	10	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	UJ
AC254A03	A	C25	10	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
AC261A03	A	C26	11	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	U
AC262A03	A	C26	11	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	U
AC263A03	A	C26	11	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
AC264A03	A	C26	11	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
AC272A03	A	C27	12	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	U
AC273A03	A	C27	12	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	UJ
AC274A03	A	C27	12	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
AC301A03	A	C30	13	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	U
AC302A03	A	C30	13	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	U
AC303A03	A	C30	13	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U

Table 7.40. Raw Data for Total Organic Halogens. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
AC304A03	A	C30	13	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
ASPA1A03	A	SPA	14	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	U
ASPA2A03	A	SPA	14	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	U
ASPA3A03	A	SPA	14	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	UJ
ASPA4A03	A	SPA	14	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
ASPC1A03	A	SPC	15	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	U
ASPC2A03	A	SPC	15	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	U
ASPC3A03	A	SPC	15	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	UJ
ASPC4A03	A	SPC	15	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
FD12180301	A	SPC	15	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
DC021A03	D	C02	1	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	U
DC023A03	D	C02	1	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
DC031A03	D	C03	2	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	U
DC033A03	D	C03	2	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
FD07140301	D	C03	2	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
DC041A03	D	C04	3	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	U
DC043A03	D	C04	3	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
FD07090301	D	C04	3	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
DC051A03	D	C05	4	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	U
FD01130301	D	C05	4	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	U
DC053A03	D	C05	4	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
DC061A03	D	C06	5	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	U
DC063A03	D	C06	5	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
DC071A03	D	C07	6	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	U
DC073A03	D	C07	6	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
DC081A03	D	C08	7	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	U
DC083A03	D	C08	7	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
DC03P21A03	D	C03P2	1	2	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	U
FD01090301	D	C03P2	1	2	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	U
DC03P23A03	D	C03P2	1	2	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
DC04P21A03	D	C04P2	2	2	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	U
DC04P23A03	D	C04P2	2	2	TOTAL ORGANIC HALOGENS	N	3	2003	0.14	MG/L	
DC06P21A03	D	C06P2	3	2	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	U
DC06P23A03	D	C06P2	3	2	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
DC08P23A03	D	C08P2	4	2	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
OC081A03	O	C08	1	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	UJ
OC082A03	O	C08	1	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	U
OC083A03	O	C08	1	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
OC084A03	O	C08	1	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
OC111A03	O	C11	2	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	UJ
OC112A03	O	C11	2	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	UJ
OC113A03	O	C11	2	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
OC114A03	O	C11	2	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U

Table 7.40. Raw Data for Total Organic Halogens. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC121A03	O	C12	3	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	UJ
FD04290301	O	C12	3	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	U
OC122A03	O	C12	3	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	U
OC123A03	O	C12	3	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
FD10150301	O	C12	3	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
OC124A03	O	C12	3	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
OC131A03	O	C13	4	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	UJ
OC132A03	O	C13	4	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	UJ
OC133A03	O	C13	4	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
OC134A03	O	C13	4	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
OC141A03	O	C14	5	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	UJ
OC142A03	O	C14	5	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	U
OC143A03	O	C14	5	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
OC144A03	O	C14	5	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
FD01290301	O	C15	6	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	UJ
OC151A03	O	C15	6	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	UJ
FD05070301	O	C15	6	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	U
OC152A03	O	C15	6	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	U
FD08120301	O	C15	6	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
OC153A03	O	C15	6	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
FD10300301	O	C15	6	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
OC154A03	O	C15	6	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
FD02130301	O	C16	7	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	UJ
OC161A03	O	C16	7	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	UJ
OC162A03	O	C16	7	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	U
OC163A03	O	C16	7	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
OC164A03	O	C16	7	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
OC181A03	O	C18	8	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	UJ
OC182A03	O	C18	8	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	U
OC183A03	O	C18	8	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
OC184A03	O	C18	8	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
OC191A03	O	C19	9	1	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	UJ
OC192A03	O	C19	9	1	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	U
FD08200301	O	C19	9	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
OC193A03	O	C19	9	1	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
OC194A03	O	C19	9	1	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
OC11P21A03	O	C11P2	1	2	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	UJ
OC11P22A03	O	C11P2	1	2	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	U
OC11P23A03	O	C11P2	1	2	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
OC11P24A03	O	C11P2	1	2	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
OC13P21A03	O	C13P2	2	2	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	UJ
OC13P22A03	O	C13P2	2	2	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	UJ
OC13P23A03	O	C13P2	2	2	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U

Table 7.40. Raw Data for Total Organic Halogens. (Continued)

sample_no	location	well	well_no	aquifer	parameter	filtered	quarter	year	lab_result	units	lab_qual
OC13P24A03	O	C13P2	2	2	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
OC14P21A03	O	C14P2	3	2	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	UJ
OC14P22A03	O	C14P2	3	2	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	U
OC14P23A03	O	C14P2	3	2	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
OC14P24A03	O	C14P2	3	2	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
OC18P21A03	O	C18P2	4	2	TOTAL ORGANIC HALOGENS	N	1	2003	0.12	MG/L	J
OC18P22A03	O	C18P2	4	2	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	U
OC18P23A03	O	C18P2	4	2	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
OC18P24A03	O	C18P2	4	2	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U
OC19P21A03	O	C19P2	5	2	TOTAL ORGANIC HALOGENS	N	1	2003	0.05	MG/L	UJ
OC19P22A03	O	C19P2	5	2	TOTAL ORGANIC HALOGENS	N	2	2003	0.05	MG/L	UJ
OC19P23A03	O	C19P2	5	2	TOTAL ORGANIC HALOGENS	N	3	2003	0.05	MG/L	U
OC19P24A03	O	C19P2	5	2	TOTAL ORGANIC HALOGENS	N	4	2003	0.05	MG/L	U

Outliers

There are several cases where the lab result for one quarter for a particular well over the four years of data was much larger than the lab result for all other quarters. This raises the question, "Is this data real or has something happened to cause this very large value and should it be considered an outlier?" Most of these so-called "outliers" occurred in zinc data only, with a few in other parameters. Zinc samples are very easy to contaminate according to lab personnel. There are two situations for considering outliers. For metals, there were many cases where the filtered value was much larger than the non-filtered value. This can only occur when the filtered sample is contaminated. The second case involves the non-filtered data. If filtered samples can be contaminated, obviously non-filtered samples can also be contaminated. Therefore, when the lab result for one quarter was much larger than the lab result for the other quarters, the high reading was tested as an outlier. The method used was a regression analysis of lab result versus the sixteen (eight for Demo Range) quarter time periods. A 99% confidence interval was calculated around the regression line. The probability of a data point being outside of the confidence bands is .01. Therefore, if a value for some quarter was outside the confidence interval, it was considered to be an outlier. The cases where the filtered value was much larger than the non-filtered value were also tested for outliers. They all passed the outlier test and were determined to be outliers.

In a few cases where more than one large value was tested and found to be an outlier, the first outlier was removed from the dataset and a graph was produced. This graph has a caption indicating "first outlier removed". Then, the second outlier was removed and another graph was produced with a caption reading "second outlier removed".

Since there is no way of knowing if these extreme values are real or not, and one hesitates to throw away data, the decision was made to run all analyses with all of the data and then remove the outliers and rerun all analyses. The results of both analyses are presented.

Tables 7.41 and 7.42 contain a list of all the outliers removed. This shows the parameter, well, quarter, year, and the value. For the filtered data, the value for the non-filtered sample is also shown. In many of cases for the non-filtered samples, there were no detections. Following Table 7.42 are the graphs showing the analyses for testing outliers. Graphs to show outliers removed in previous reports were not repeated in this report.

Table 7.41. Outliers Removed.

PARAMETER	LOCATION	AQUIFER	WELL	QUARTER	YEAR	AMOUNT
EXPLOSIVES						
Nitrocellulose (UG/L)	ABG[1]	-	C02P2	4	2002	1200
		-	C02P2	1	2003	1200
		-	C03	3	2002	4400
		-	C04	1	2003	1800
		-	C15	2	2001	1800
		-	C15	3	2002	1900
		-	C17	1	2003	4500
		-	C30	4	2002	3300
		-	SPC	1	2003	1400
	DR[2]	B[4]	C07	1	2002	1600
		B	C08	3	2002	1500
	ORR[3]	B	C11	2	2003	3600
		B	C16	2	2003	1100
		C[5]	C11P2	2	2000	2500
		C	C13P2	2	2003	2500
		C	C18P2	1	2003	5900
METALS						
Arsenic (UG/L)	ORR	B	C13	4	2002	114
Copper (UG/L)	DR	B	C07	3	2000	47.2
Zinc (UG/L)	ABG	-	C03	4	2003	167
		-	C04	1	2000	41.3
		-	C04	1	2003	33.2
		-	C07	3	2001	2020
		-	C07	2	2002	60.7
		-	C08P2	3	2001	123
		-	C09P2	1	2000	43.7
		-	C09P2	1	2002	33.3
		-	C09P2	4	2003	35.4
		-	C15	2	2002	117
		-	C15	3	2003	95
		-	C17*	1	2001	40.1
		-	C17*	3	2002	39.1
		-	C20	1	2001	77.7
		-	C20	4	2000	39.8
		-	C25	3	2001	56.3
		-	C25	1	2002	30.5
		-	C25	4	2003	193
		-	C26	1	2000	37.8
		-	C27	1	2000	41.3
		-	C27	2	2000	37.7
		-	C30	3	2002	40.7
		-	SPA	1	2000	35.1
		-	SPC	1	2000	77.6
		-	SPC	3	2001	40.9
	DR	B	C02	3	2000	40.5
		B	C06	3	2000	79.5
		B	C07	3	2000	49.9
		B	C08*	3	2000	142
		B	C08*	1	2002	179
		B	C08*	1	2003	108

Table 7.41. Outliers Removed. (Continued)

PARAMETER	LOCATION	AQUIFER	WELL	QUARTER	YEAR	AMOUNT
Zinc (UG/L) (Continued)	DR (Continued)	P[6]	C03P2	3	2001	55.3
		P	C04P2	3	2000	55.7
	ORR	B[7]	C08*	1	2002	309
		B	C08*	2	2000	43.4
		B	C08*	2	2003	39
		B	C11	2	2001	50.2
		B	C12	2	2003	106
		B	C13	3	2001	104
		B	C14	4	2000	207
		B	C14	1	2003	126
		B	C14	2	2003	76.8
		B	C15	2	2002	292
		B	C15	4	2000	104
		B	C15	2	2002	67.8
		B	C15	2	2003	59.8
		B	C16	3	2002	59.7
		B	C18	2	2000	54.2
		B	C18	3	2000	91.5
		B	C18	1	2002	65.8
		C	C11P2	1	2002	58.9
		C	C11P2	2	2003	34
		C	C14P2*	1	2002	64.8
		C	C18P2	3	2000	46.9
		C	C18P2	3	2001	69.1
		C	C19P2	2	2002	98.7
MISCELLANEOUS PARAMETERS						
Ammonia (MG/L)	ORR	B	C16	1	2002	5.7

* Denotes Upgradient Well

[1] ABG - Ammunition Burning Grounds
[2] DR - Demo Range
[3] ORR - Old Rifle Range
[4] B - Big Clifty/Beech Creek Aquifer for Demo Range
[5] C - Big Clifty Aquifer for Old Rifle Range
[6] P - Pennsylvanian Aquifer for Demo Range
[7] B - Beech Creek Aquifer for Old Rifle Range

Table 7.42. Outliers Removed (Filtered).

PARAMETER	LOCATION	AQUIFER	WELL	QUARTER	YEAR	AMOUNT	
						NOT FILTERED	FILTERED
METALS							
Barium (Filtered) (UG/L)	ORR	B	C16	3	2002	122	326
		C	C18P2	4	2001	177	625
Sodium (Filtered) (UG/L)	ABG	-	C17	1	2003	-	354000
Zinc (Filtered) (UG/L)	ABG	-	C02P2	4	2001	10 U	217
		-	C02P2	2	2003	10 U	76.4
		-	C03	3	2002	10 U	349
		-	C03	1	2000	10 U	103
		-	C04	3	2002	23.8	71.8
		-	C04	3	2003	29.4	84.8
		-	C07	1	2000	10 U	232
		-	C07	3	2003	10 U	60.5
		-	C08P2	3	2003	12.5	41.9
		-	C09P2	1	2000	43.7	183
		-	C09P2	2	2002	10 U	178
		-	C09P2	4	2002	10 U	175
		-	C15	1	2000	10 U	286
		-	C15	2	2002	10 U	102
		-	C15	2	2003	10 U	41.3
		-	C20	1	2000	10 U	57.7
		-	C20	2	2002	10 U	55
		-	C20	2	2003	10 U	188
		-	C26	3	2002	10 U	31.9
		-	C26	4	2003	10 u	47.9
		-	C27	3	2002	10 U	75.3
		-	C30	1	2000	10 U	49.2
		-	SPA	1	2000	35.1	287
		-	SPA	4	2001	10 U	38.2
		-	SPA	2	2003	10 U	123
		-	SPC	3	2000	12.4	30.2
	DR	B	C02	3	2003	10 U	68.5
	ORR	B	C08*	2	2002	10 U	113
		B	C08*	2	2003	39	40.3
		B	C11	2	2003	10 U	51.4
		B	C13	2	2001	10 U	205
		B	C13	1	2002	10 U	264
		B	C13	1	2000	10 U	91.6
		B	C13	2	2002	10 U	122
		B	C13	2	2003	10 U	313
		B	C14	2	2002	45.7	385
		B	C14	2	2003	76.8	94.5
		B	C15	1	2000	16.7	29
		B	C15	2	2002	10 U	38.6
		B	C15	4	2003	10 U	34.3
		B	C16	2	2002	10 U	43.2
		B	C16	1	2003	10 U	95
		B	C16	2	2003	10 U	373
		B	C18	2	2002	10 U	145
		B	C19	4	2002	10 U	27.8

Table 7.42. Outliers Removed (Filtered). (Continued)

PARAMETER	LOCATION	AQUIFER	WELL	QUARTER	YEAR	AMOUNT	
						NOT FILTERED	FILTERED
Zinc (Filtered) (UG/L) (Continued)	ORR (Continued)	C	C13P2	2	2000	10 U	347
		C	C13P2	2	2000	23	165
		C	C13P2	2	2002	10 U	66.8
		C	C13P2	3	2002	10 U	37.8
		C	C13P2	1	2003	10 U	34.4
		C	C14P2*	2	2002	10 U	304
		C	C14P2*	4	2001	10 U	30.3
		C	C14P2*	2	2003	10 U	236
		C	C18P2	4	2001	10 U	505
		C	C18P2	2	2000	10 U	30.9
		C	C18P2	2	2002	10 U	75.7
		C	C18P2	4	2002	10 U	123
		C	C19P2	2	2001	10 U	71.9
		C	C19P2	2	2002	10 U	102

* Denotes Upgradient Well

EXPLOSIVES OUTLIERS

Figures 7.1 through 7.8

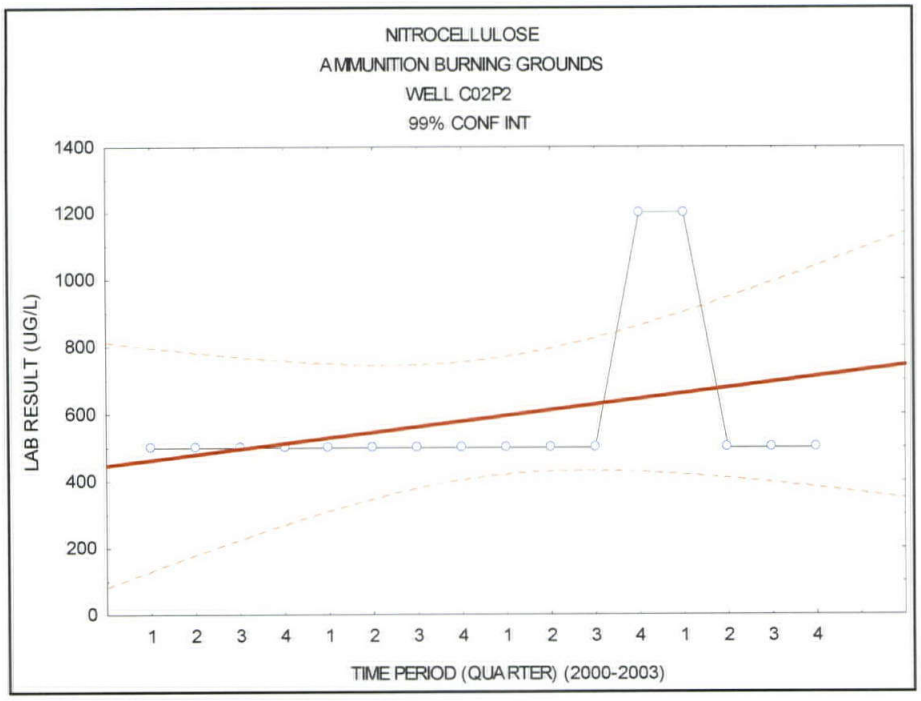


Figure 7.1.

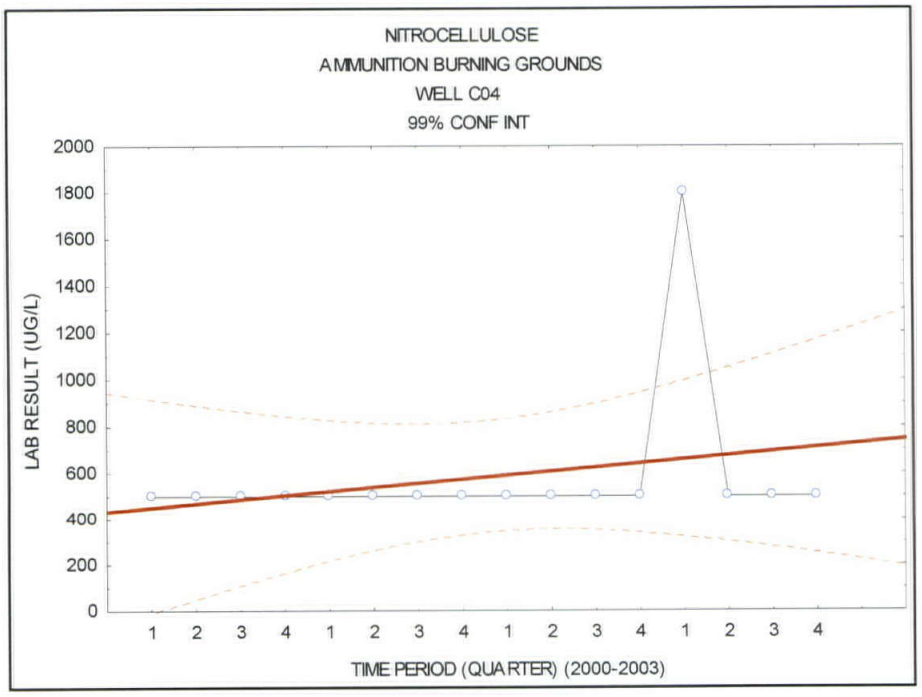


Figure 7.2.

= Regression Line
= 99% Confidence Interval

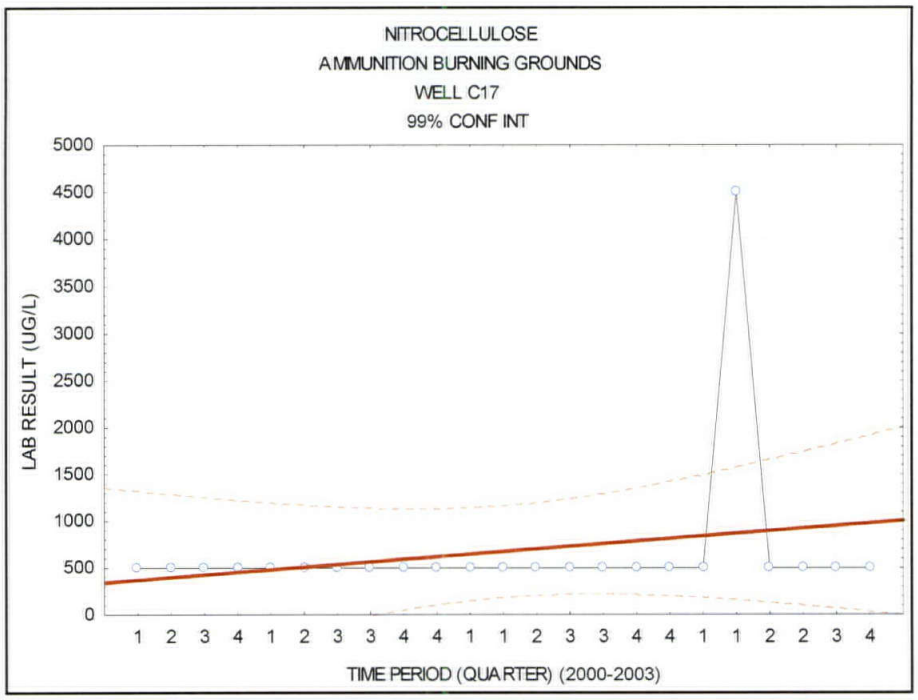


Figure 7.3.

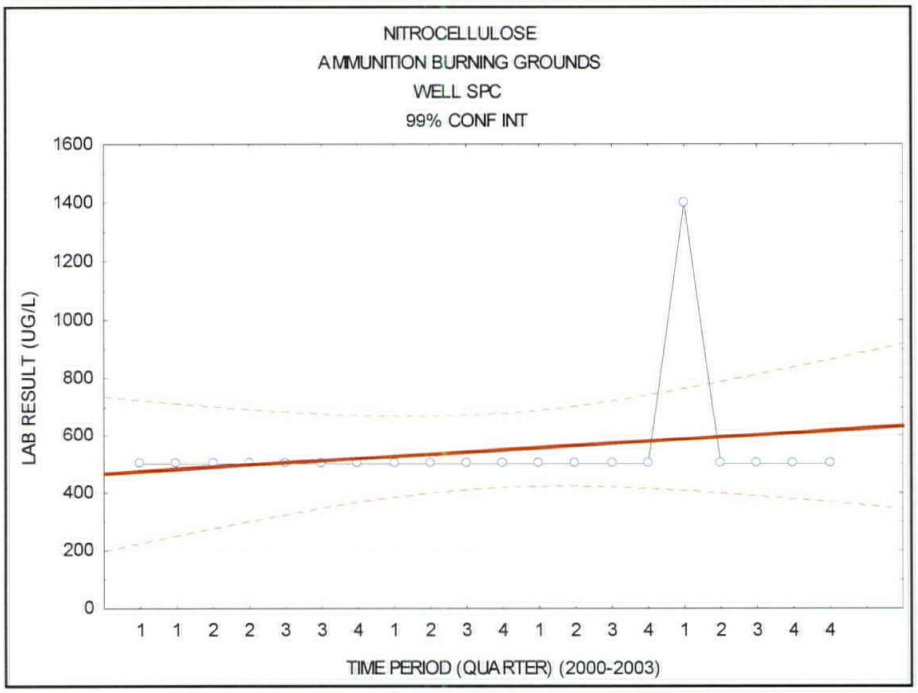


Figure 7.4.

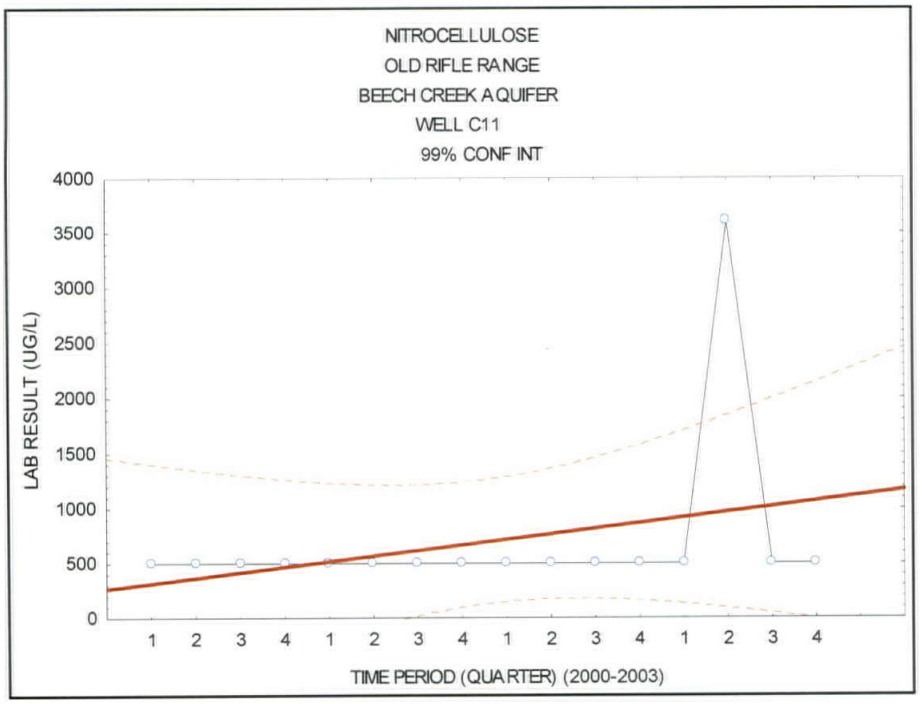


Figure 7.5.

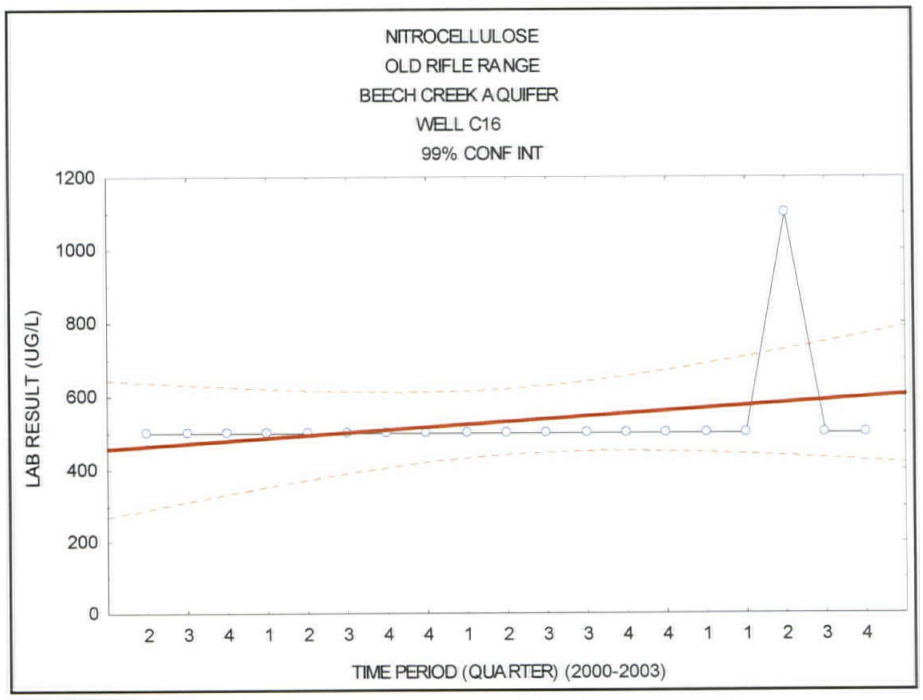


Figure 7.6.

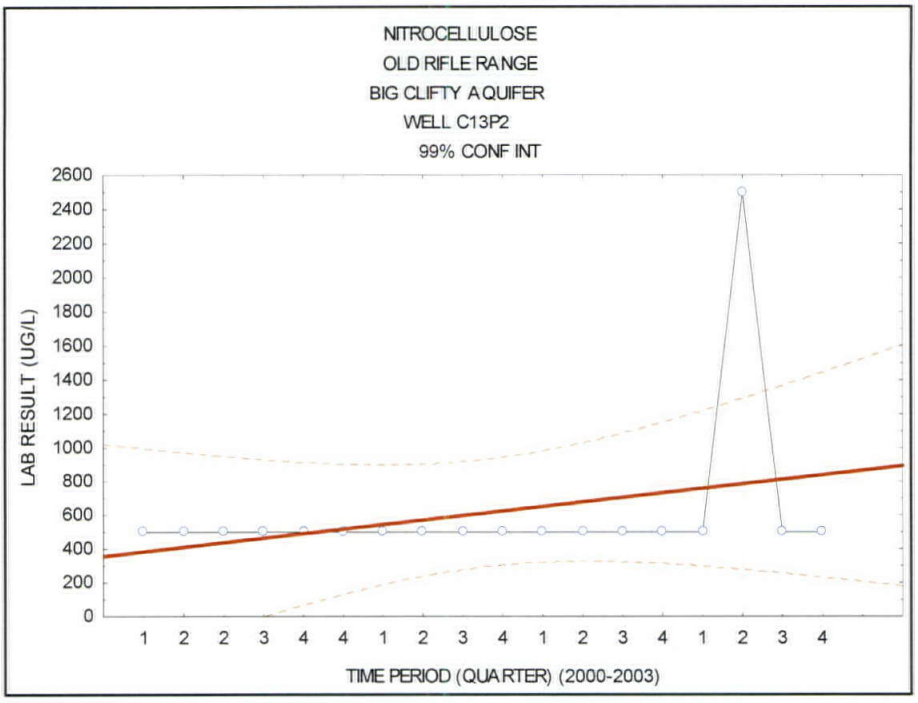


Figure 7.7.

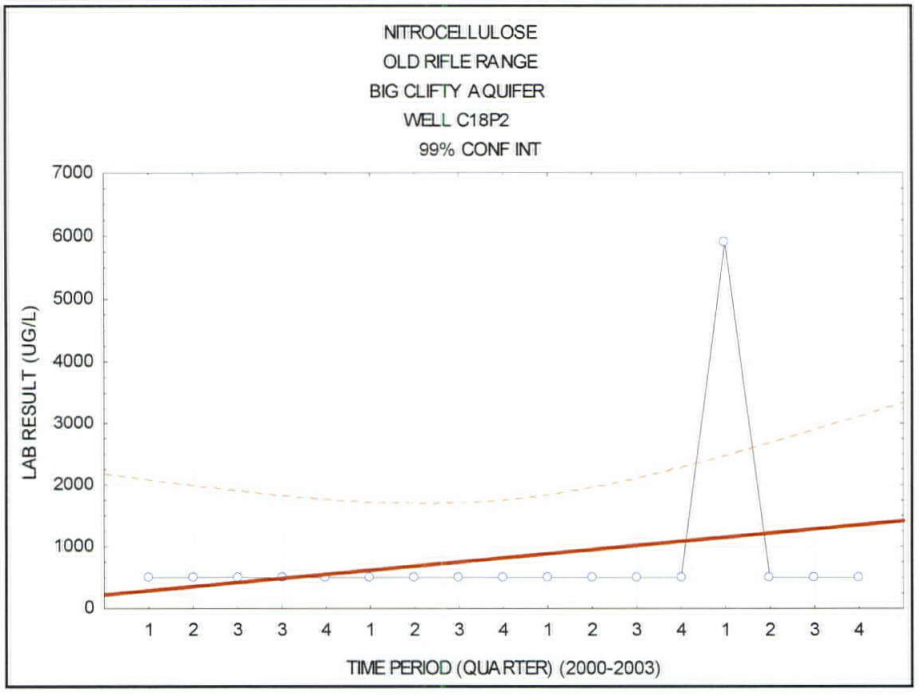


Figure 7.8.

METALS OUTLIERS

Figures 7.9 through 7.40

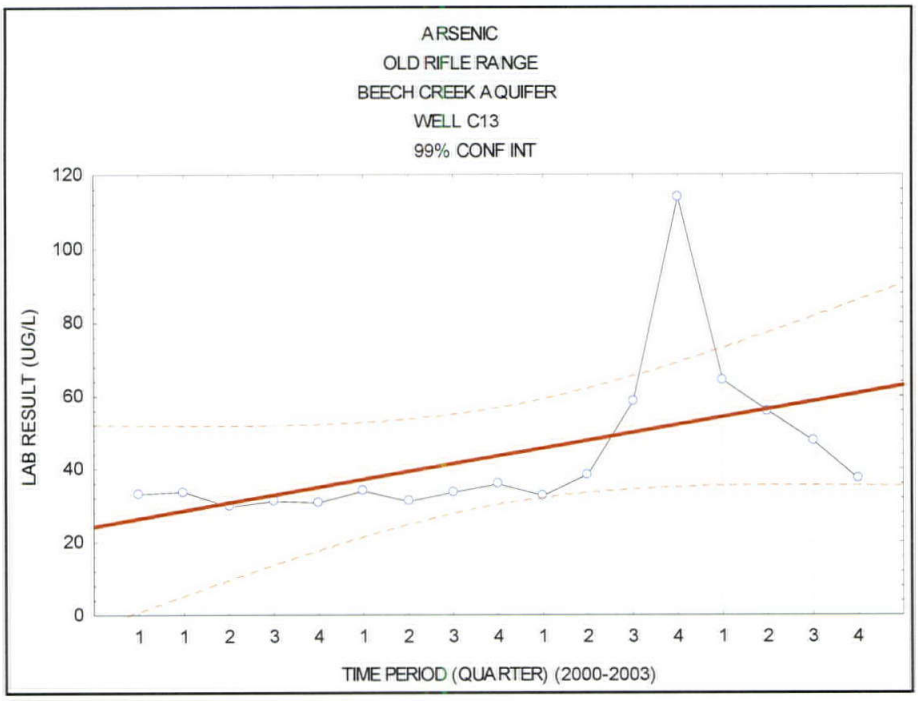


Figure 7.9.

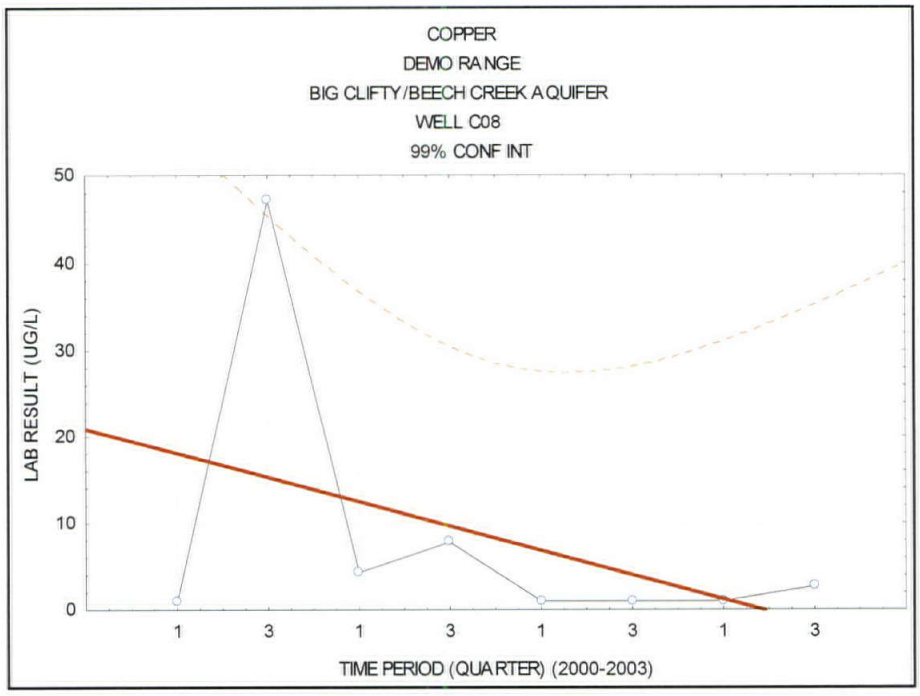


Figure 7.10.

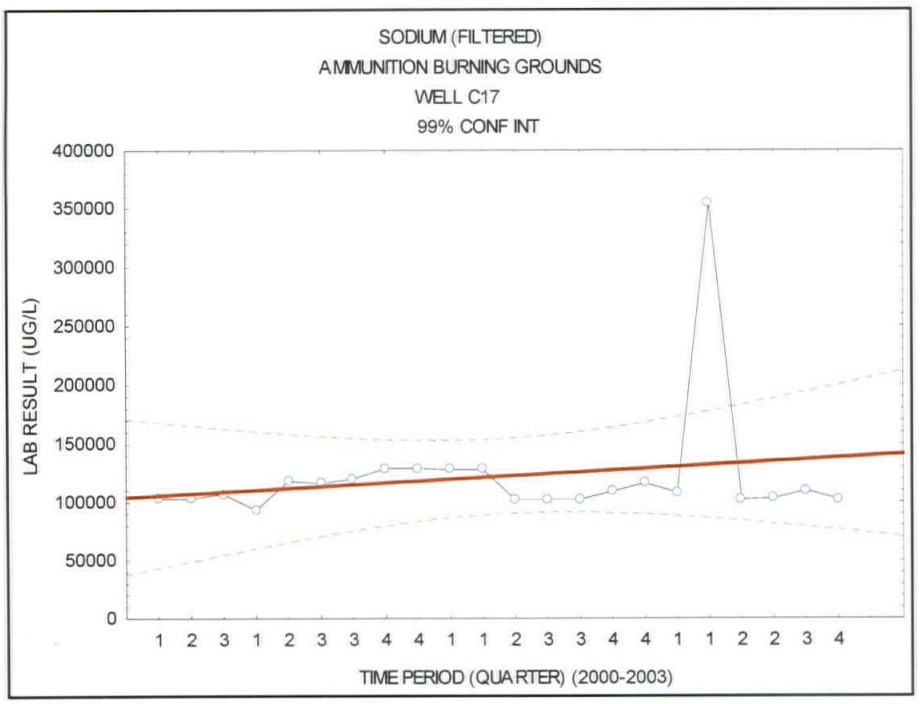


Figure 7.11.

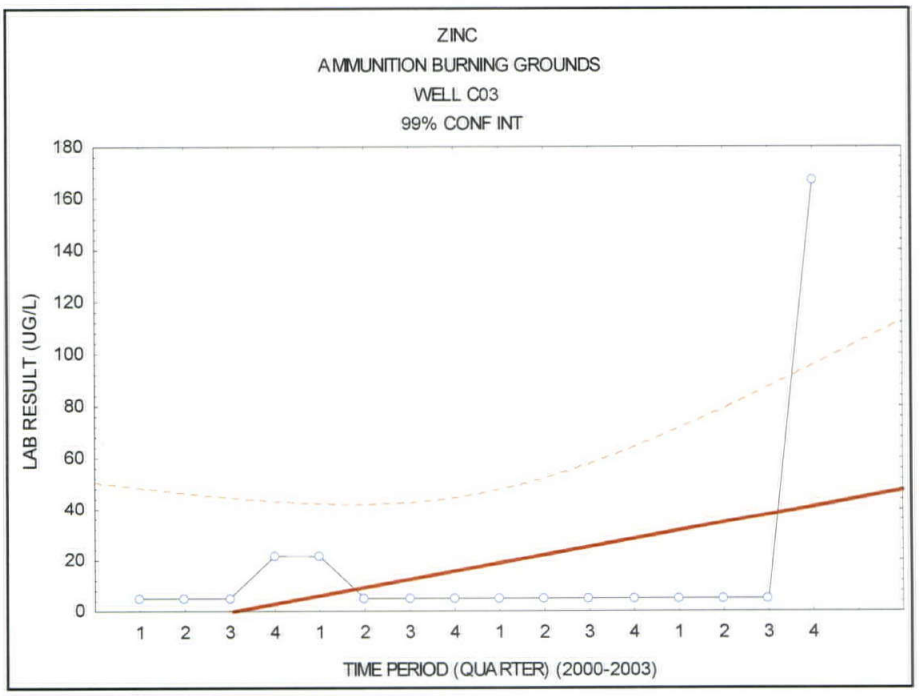


Figure 7.12.

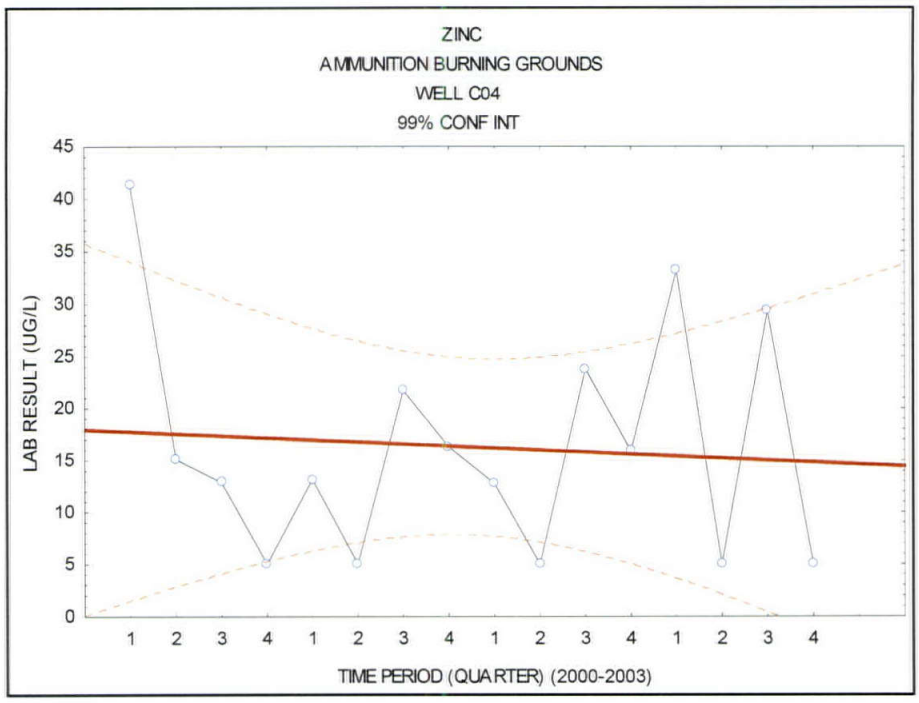


Figure 7.13.

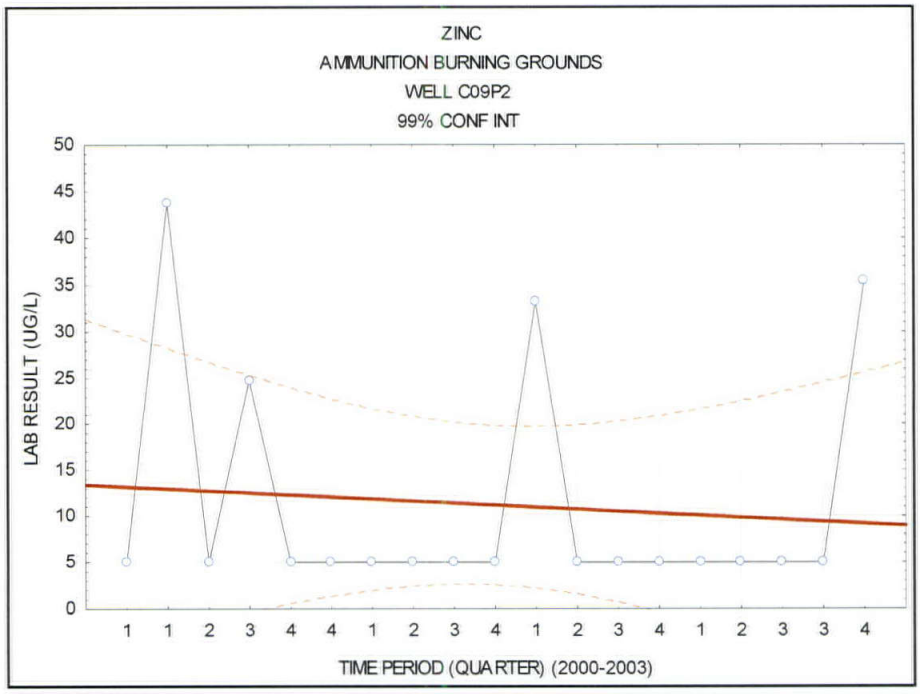


Figure 7.14.

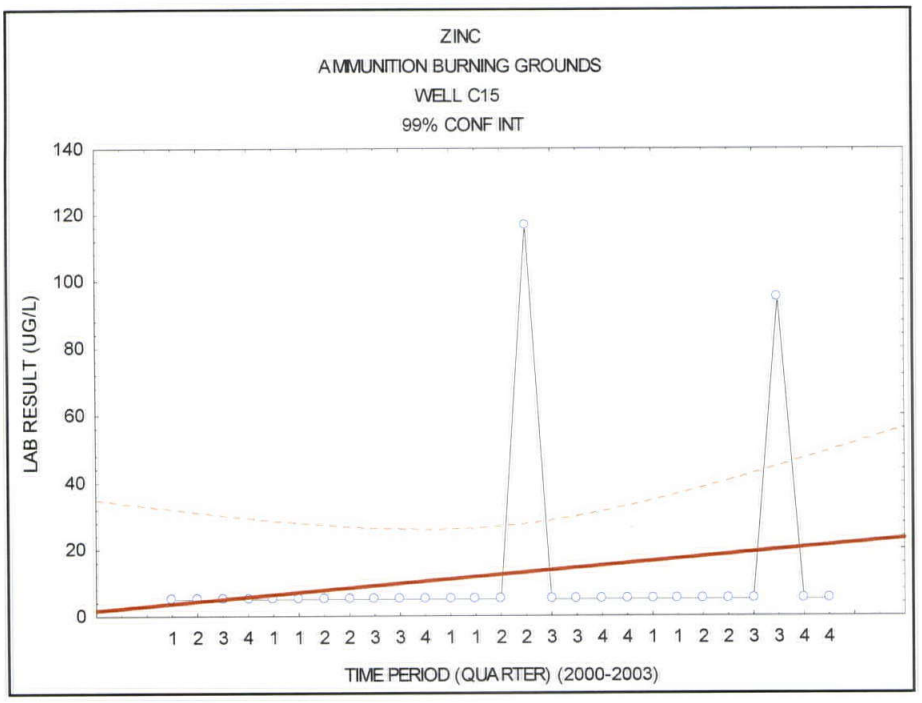


Figure 7.15.

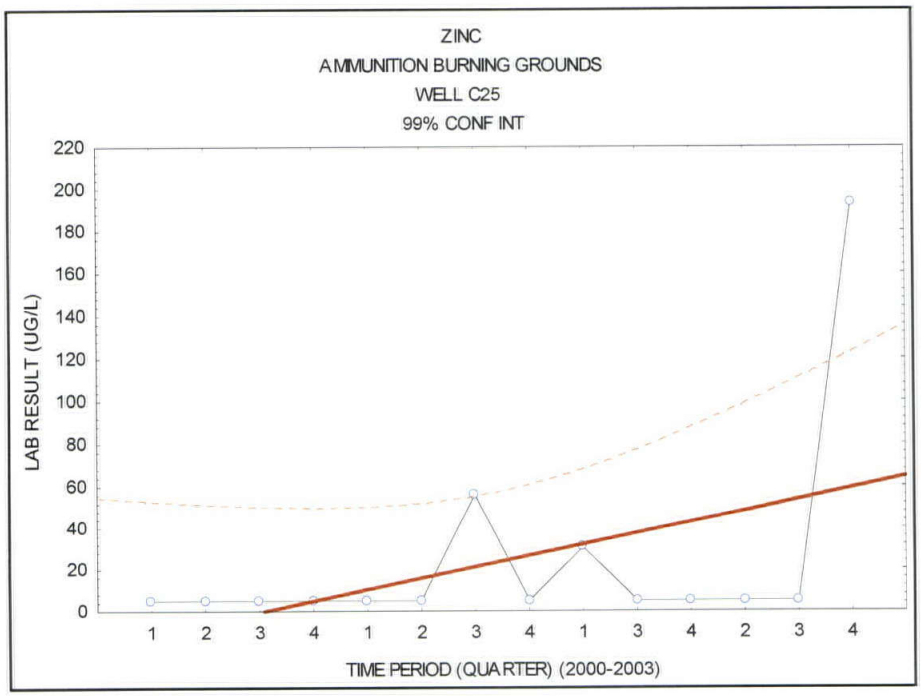


Figure 7.16.

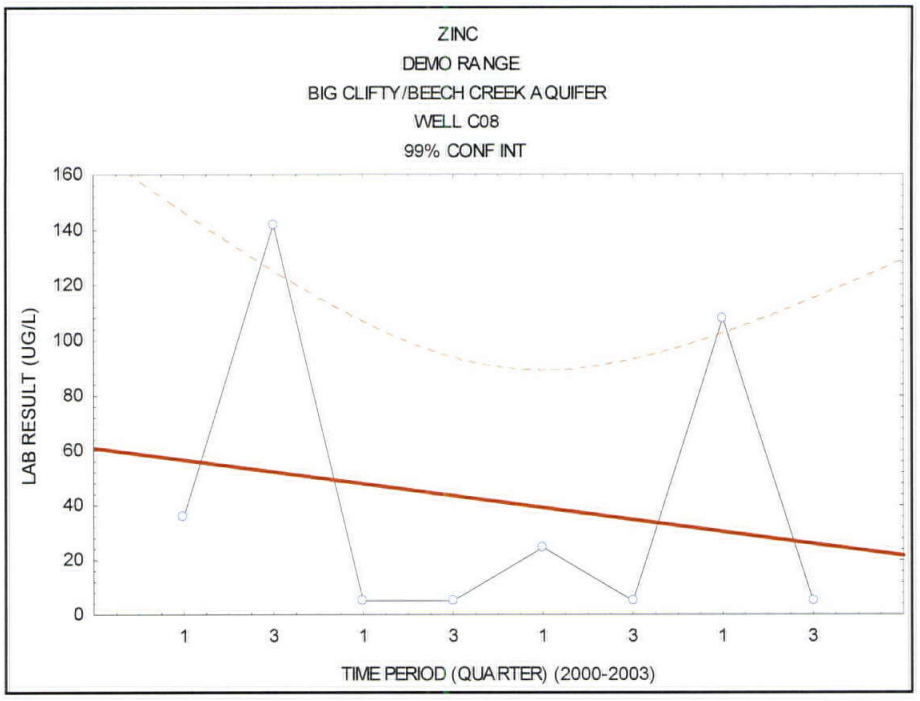


Figure 7.17.

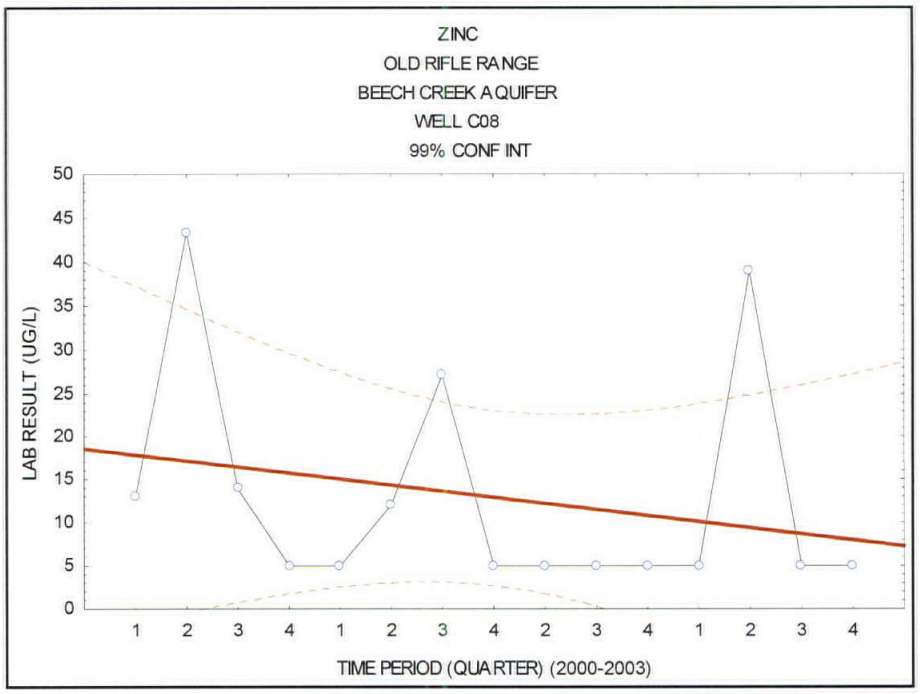


Figure 7.18.

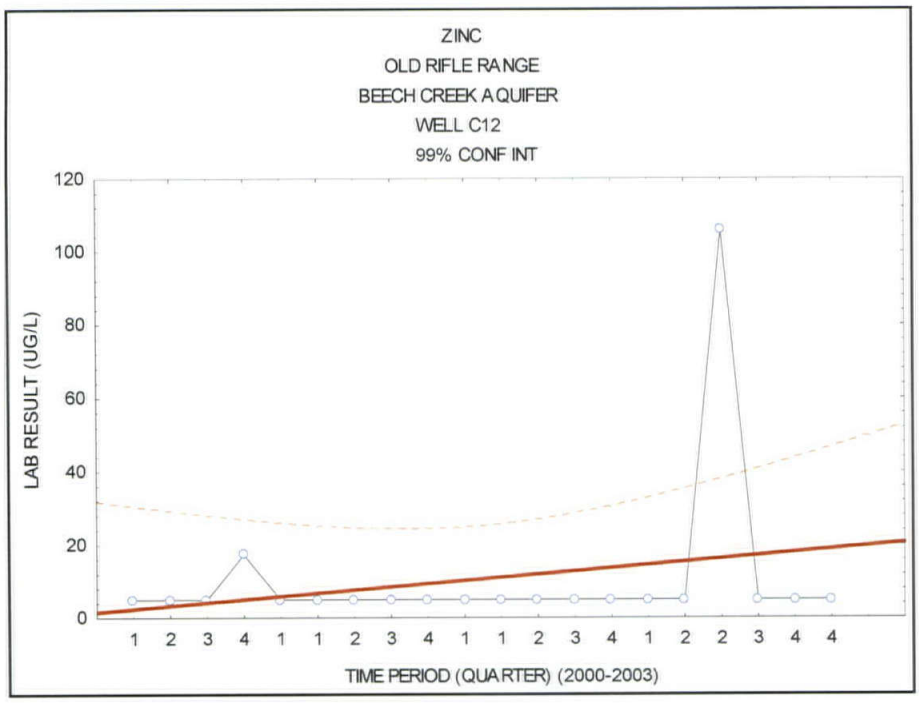


Figure 7.19.

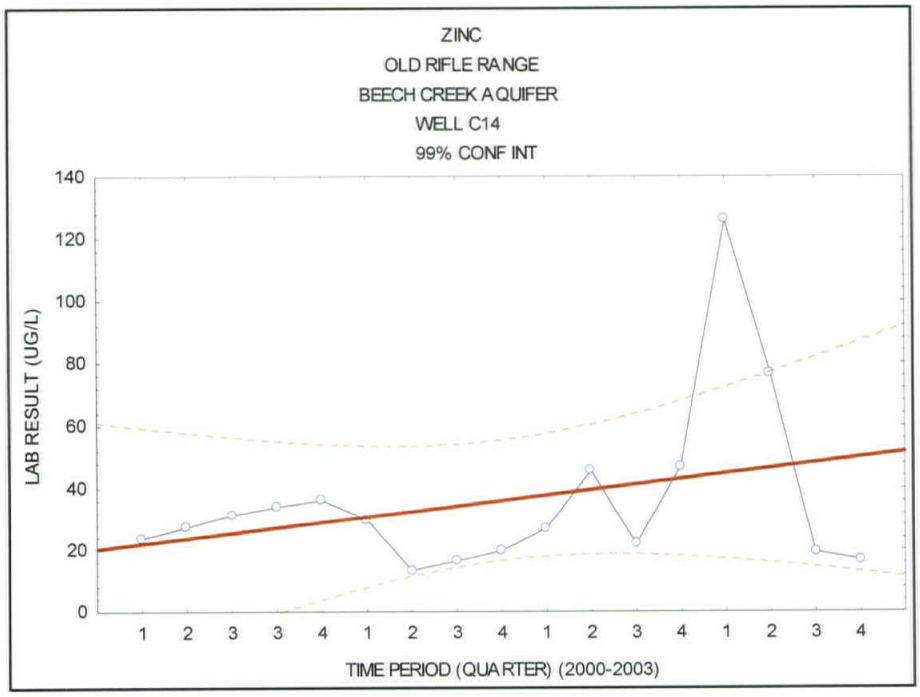


Figure 7.20.

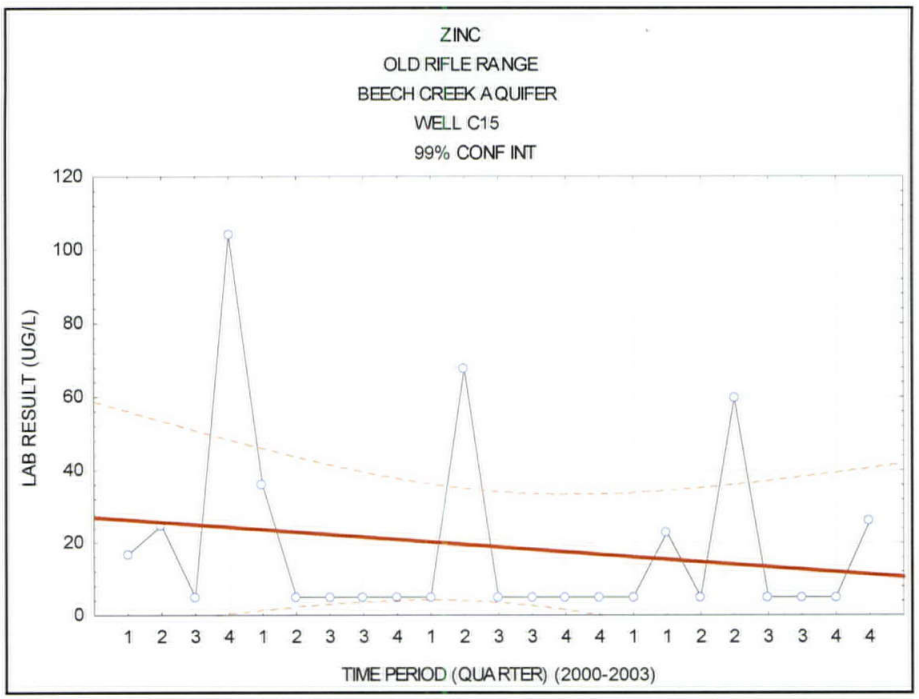


Figure 7.21.

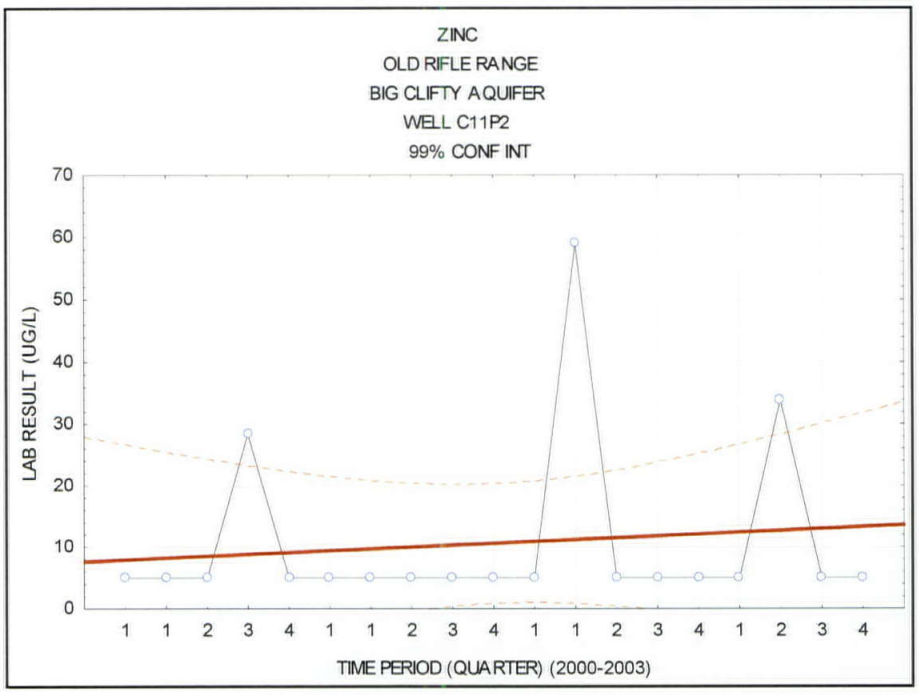


Figure 7.22.

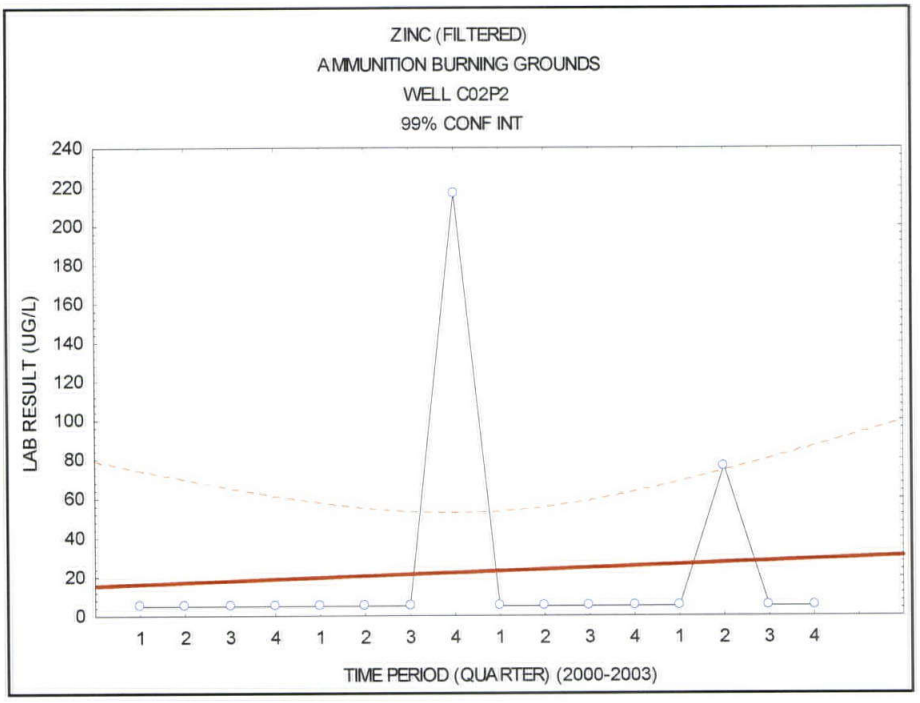


Figure 7.23.

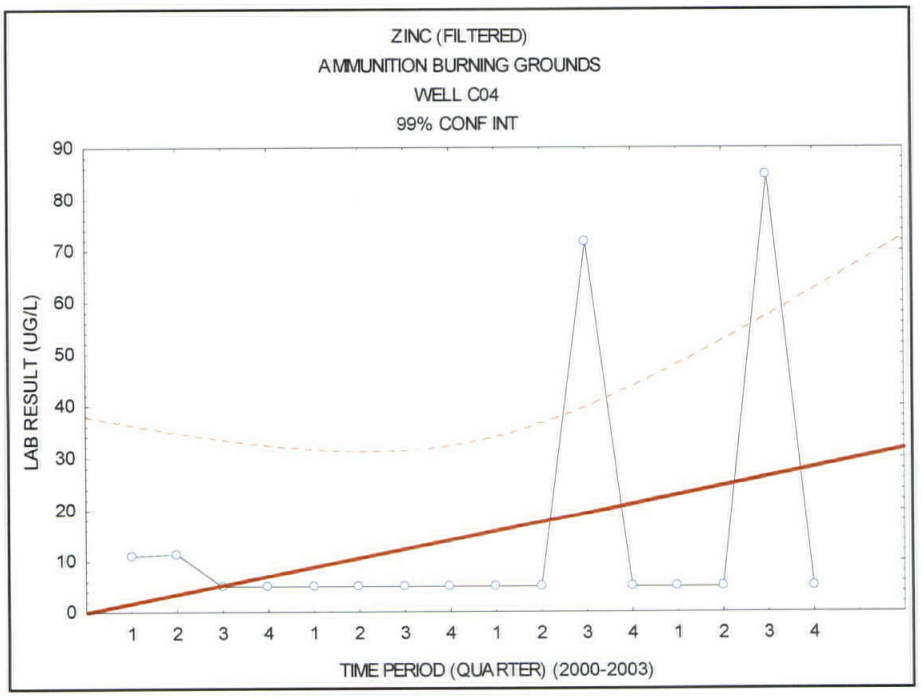


Figure 7.24.

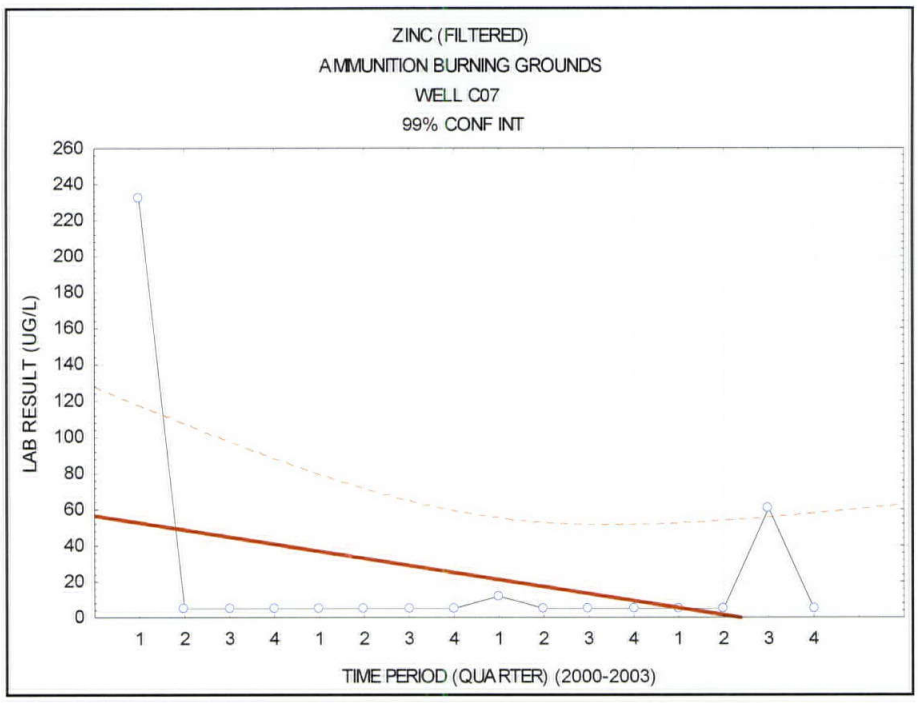


Figure 7.25.

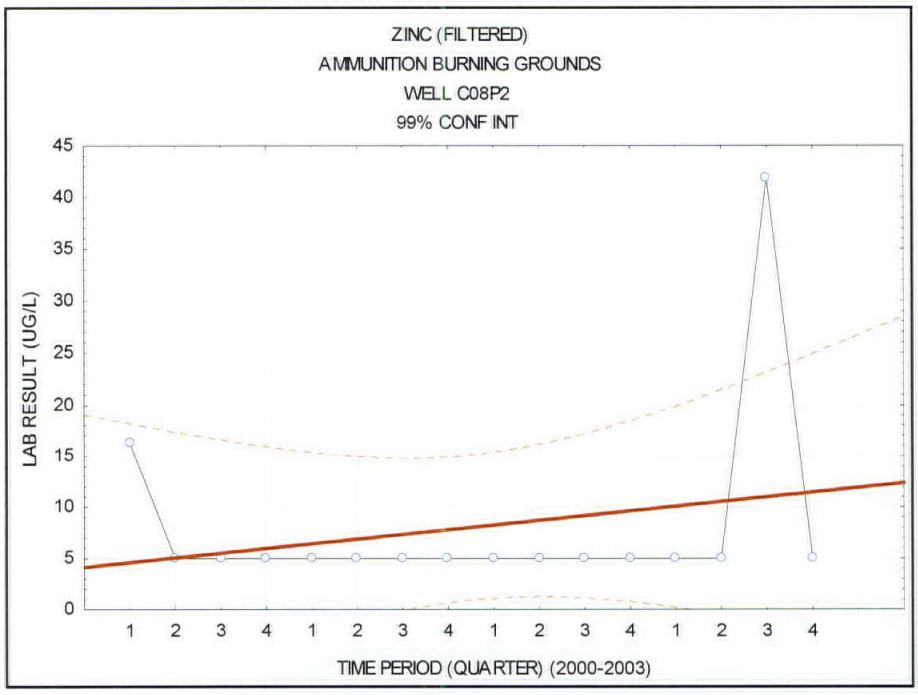


Figure 7.26.

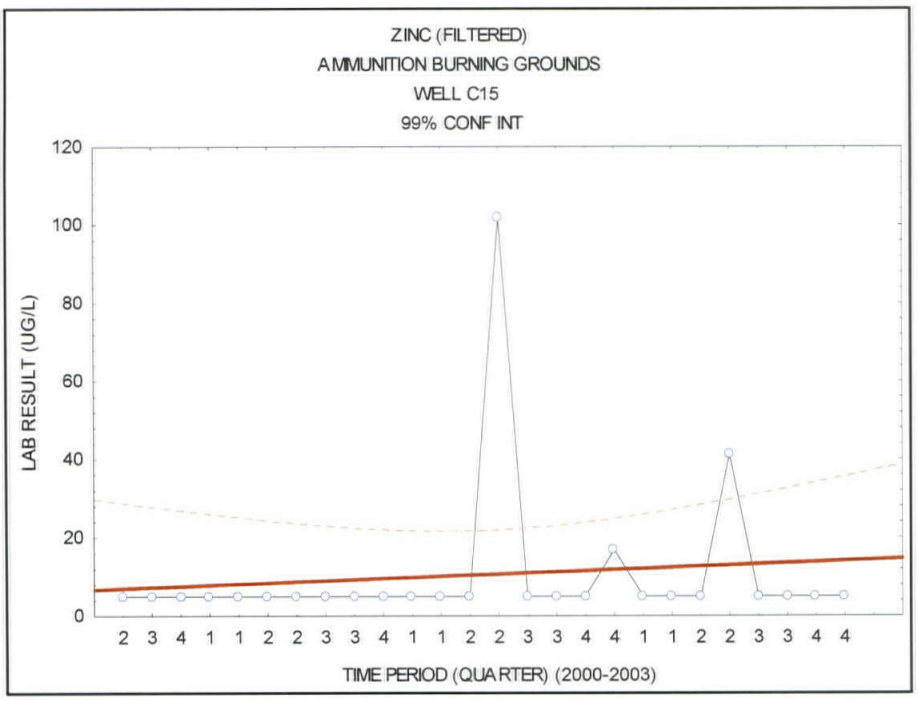


Figure 7.27.

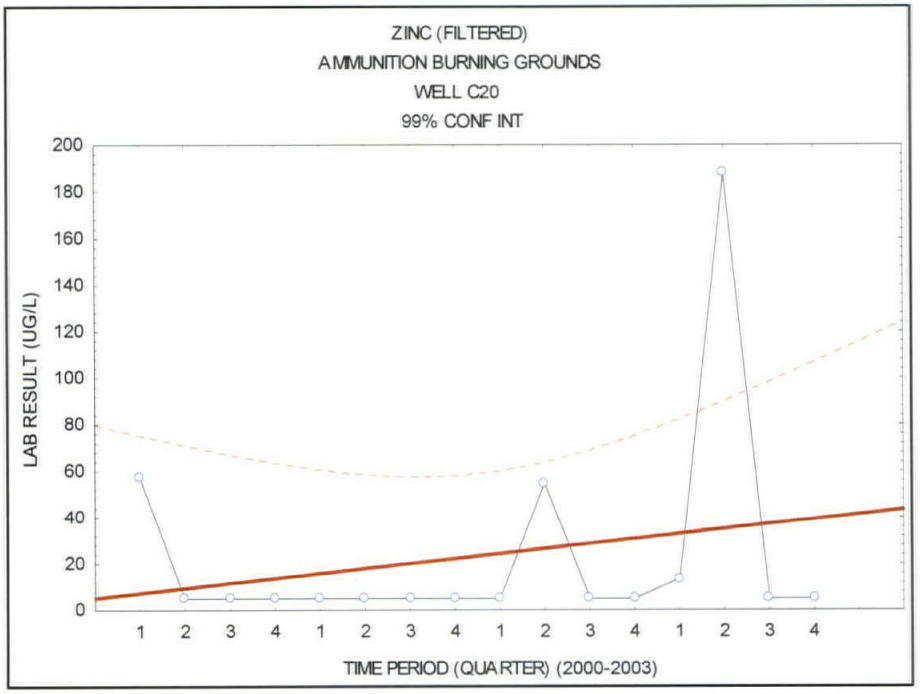


Figure 7.28.

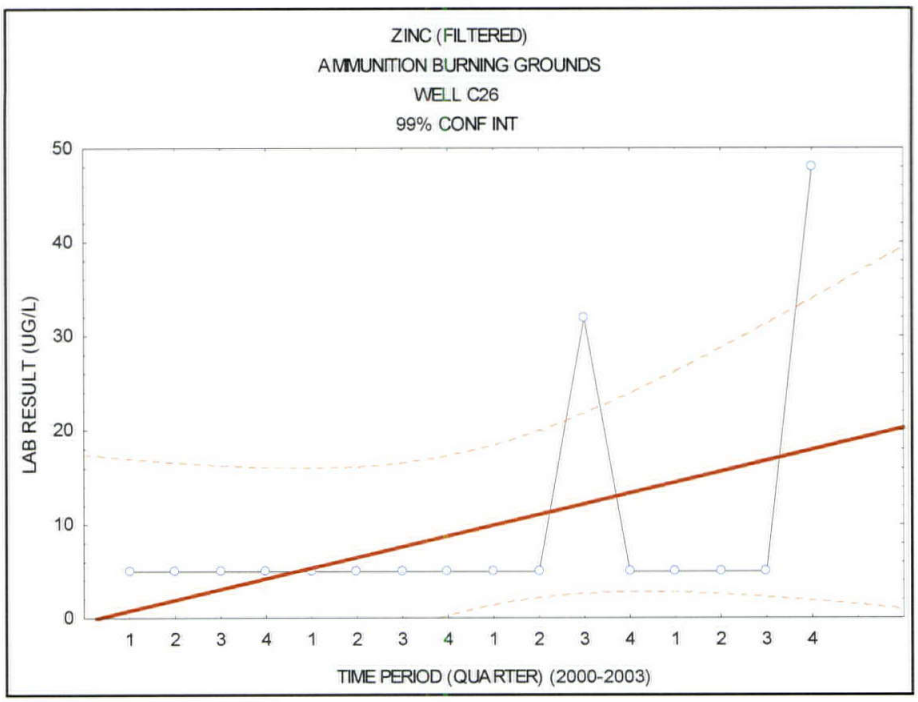


Figure 7.29.

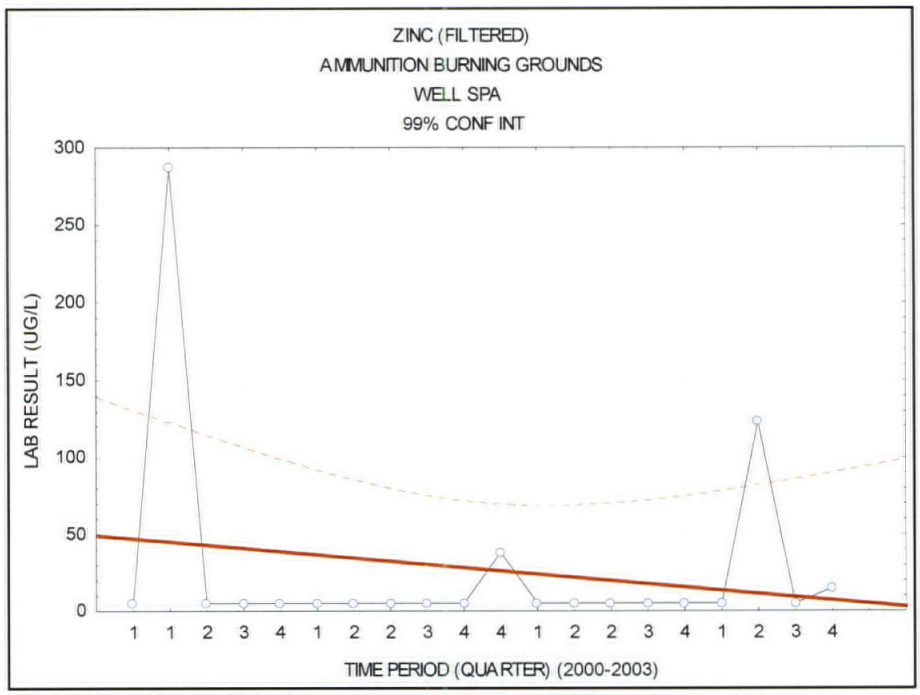


Figure 7.30.

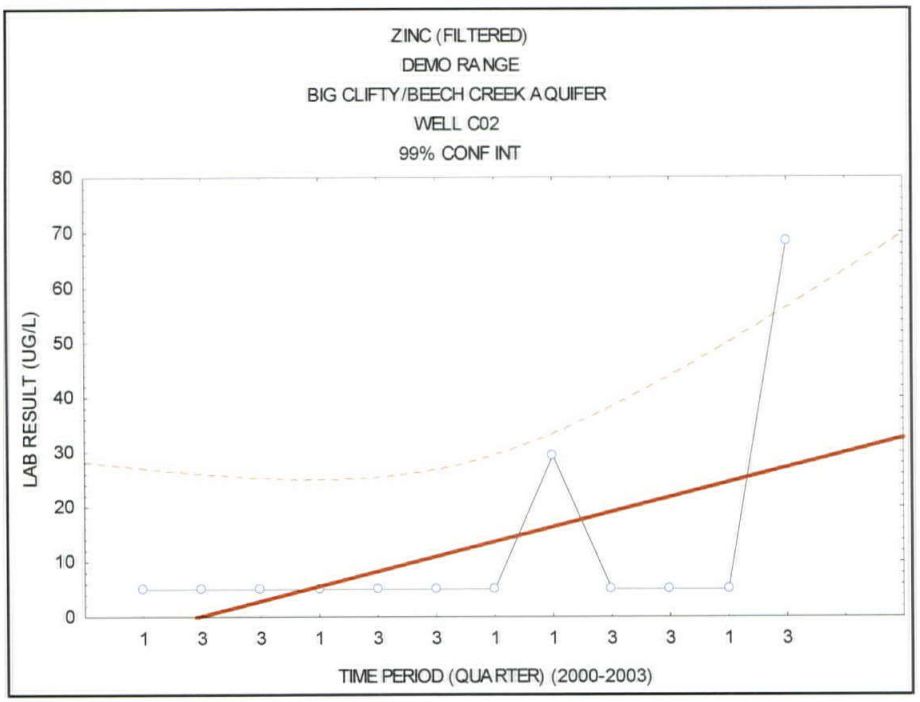


Figure 7.31.

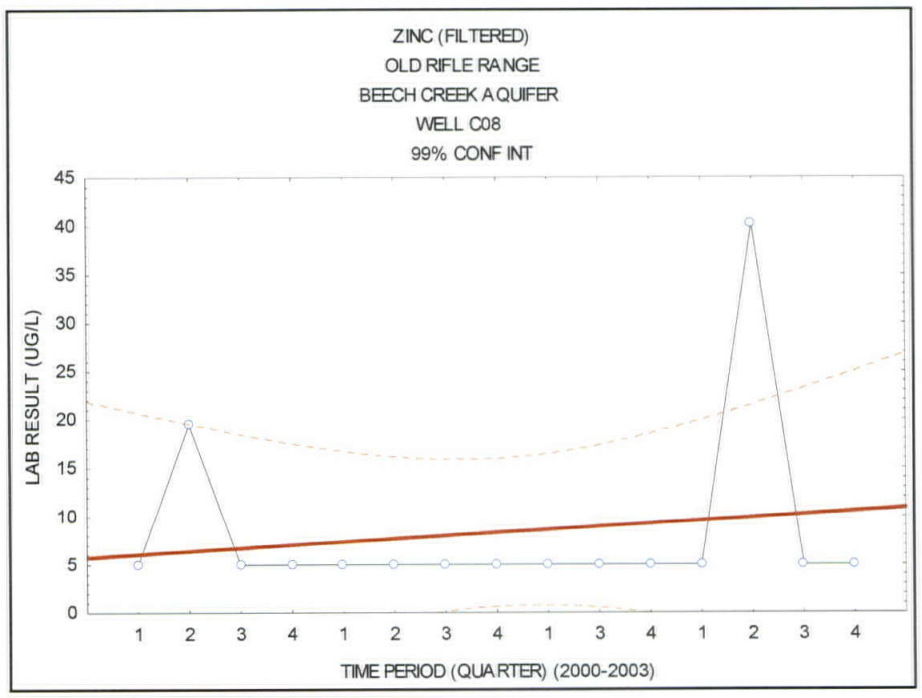


Figure 7.32.

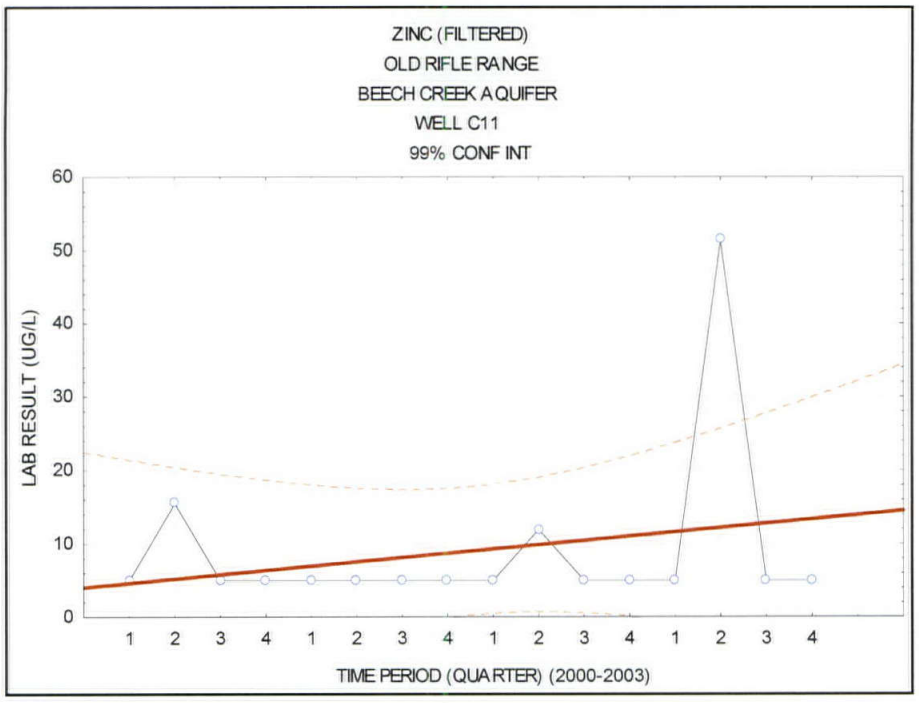


Figure 7.33.

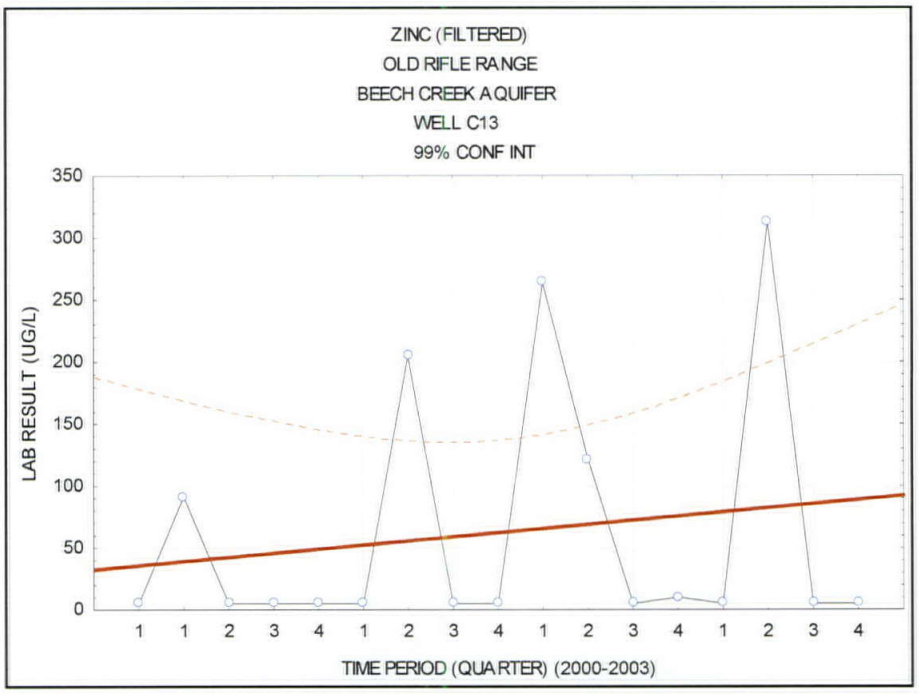


Figure 7.34.

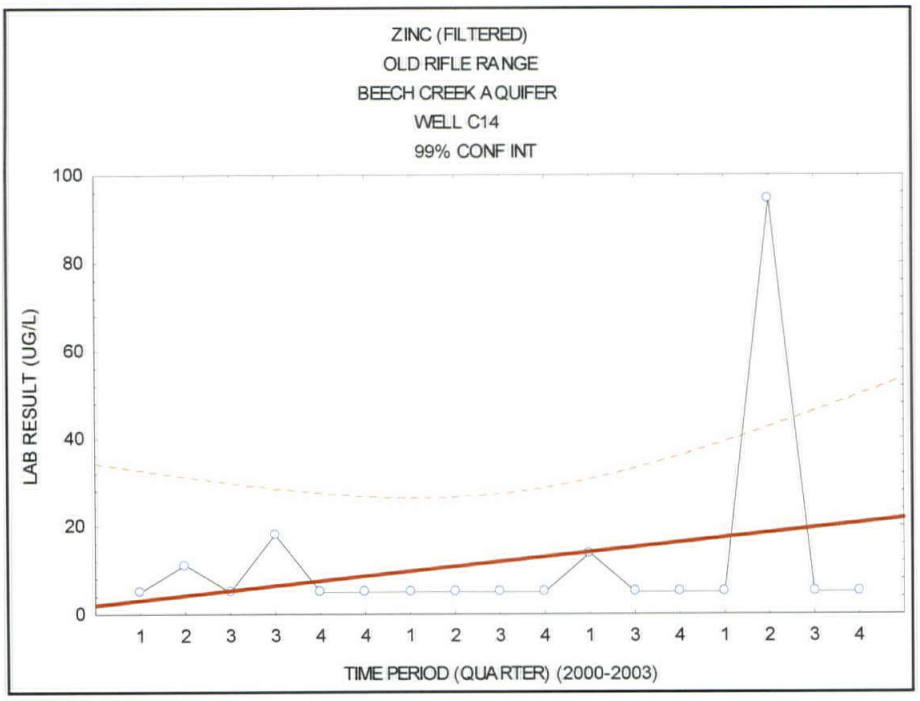


Figure 7.35.

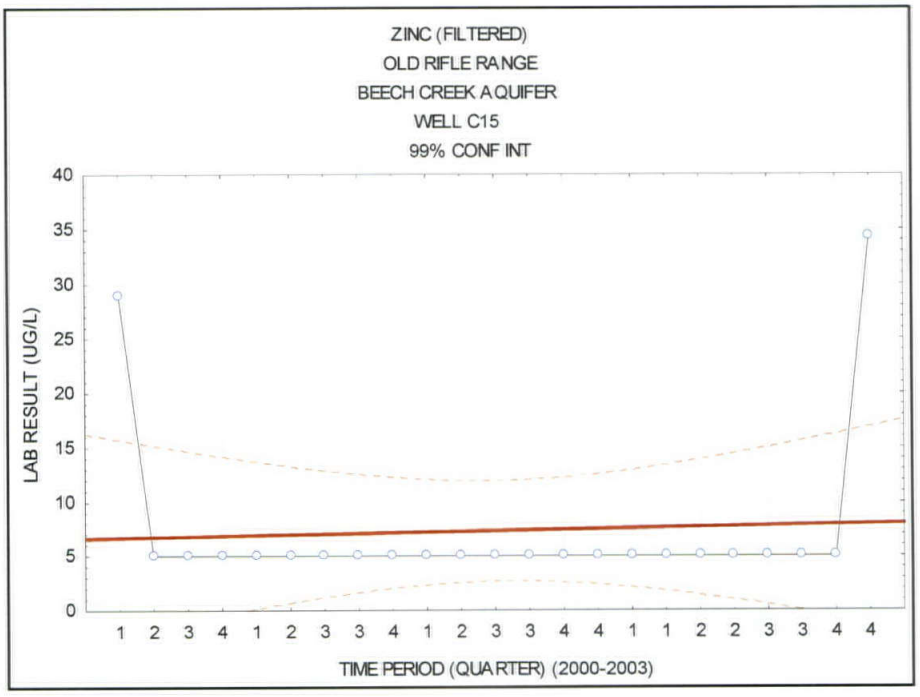


Figure 7.36.

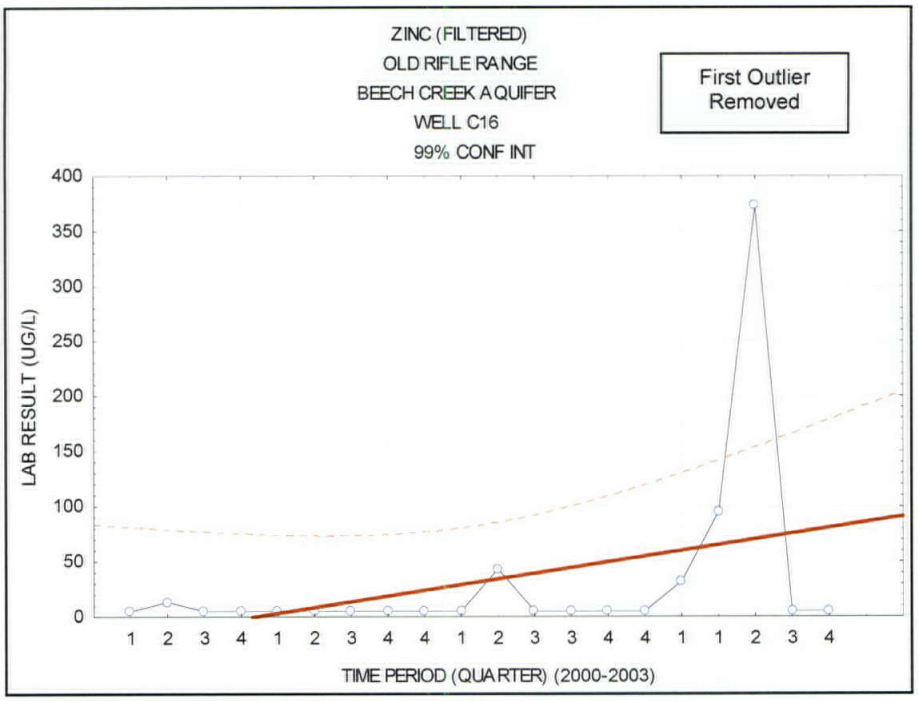


Figure 7.37.

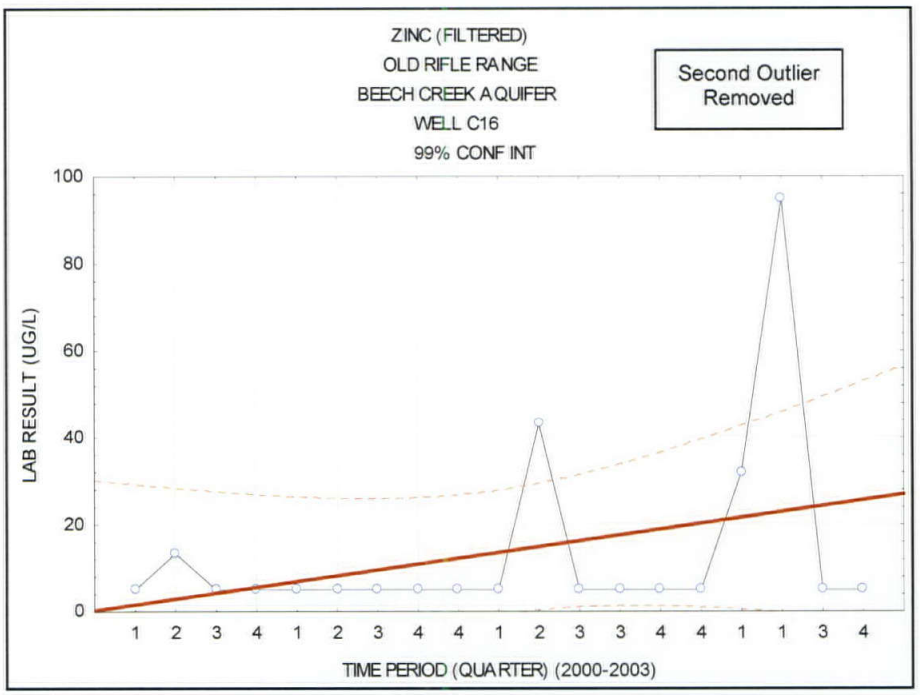


Figure 7.38.

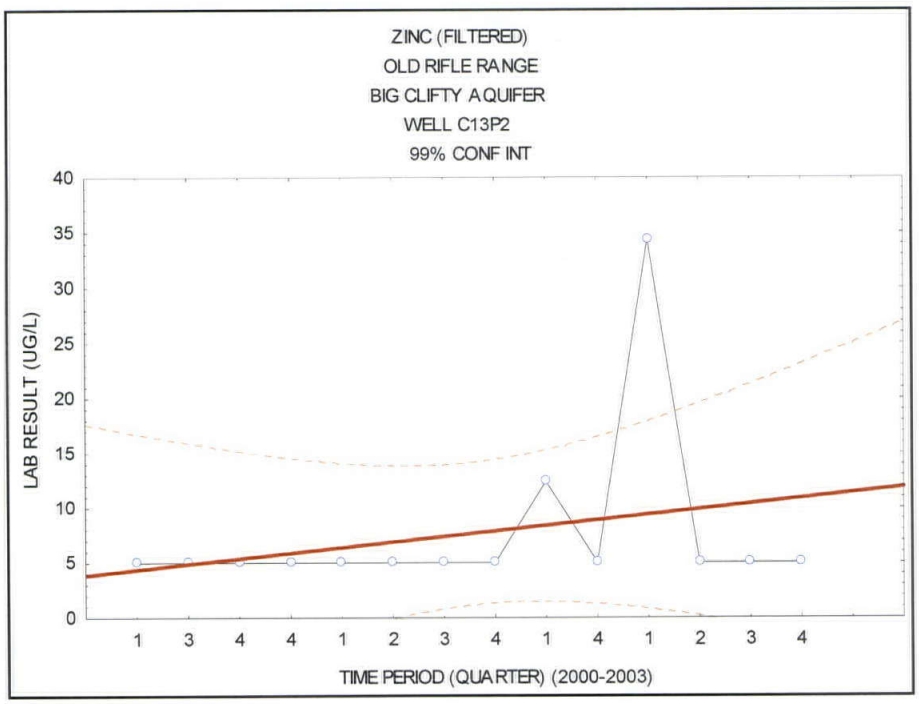


Figure 7.39.

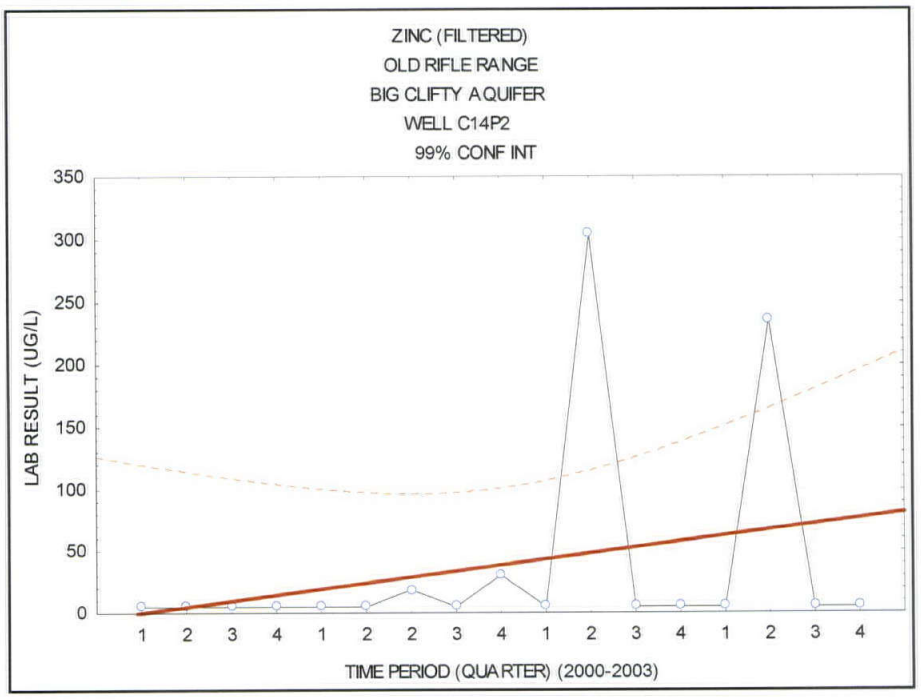


Figure 7.40.

Data Analysis

The data analysis is for five sets of data, the Ammunition Burning Grounds, the Old Rifle Range Beech Creek Aquifer, the Old Rifle Range Big Clifty Aquifer, the Demo Range Big Clifty/Beech Creek Aquifer, and the Demo Range Pennsylvanian Aquifer. There are cases where a parameter had detections but not in all five sets of data.

On the following pages are tables showing the number of samples, the mean, the standard deviation, the minimum value, and the maximum value for each well for the parameters that had measurements taken in more than two quarters for at least some of the wells. In cases where the parameter was not detected, one-half of the detection limit was used as the value. There are cases where the lab recorded detection values that were less than the detection limit. In these cases, one-half of the detection limit was also used. A standard deviation of zero indicates all of the readings were the same. This usually implies that there were no detections. In some cases repeat samples were taken. This is the reason the sample size is larger than 16 for some wells for the Ammunition Burning Grounds and Old Rifle Range and larger than eight for the Demo Range. Some parameters are not sampled every quarter; therefore, for these parameters, the sample sizes will be less. Also, note that even though SPA and SPC are not wells, they are shown as wells in the analysis. Below each table is a graph showing the mean value for each well. The wells are numbered on the graphs. These numbers correspond to the wells in the order they are shown in the table. Tables 7.43 thru 7.84 are for the Ammunition Burning Grounds, Tables 7.85 thru 7.114 are for the Old Rifle Range Beech Creek Aquifer, Tables 7.115 thru 7.136 are for the Old Rifle Range Big Clifty Aquifer, Tables 7.137 thru 7.157 are for the Demo Range Big Clifty/Beech Creek Aquifer, and Tables 7.158 thru 7.178 are for the Demo Range Pennsylvanian Aquifer.

EXPLOSIVES

AMMUNITION BURNING GROUNDS

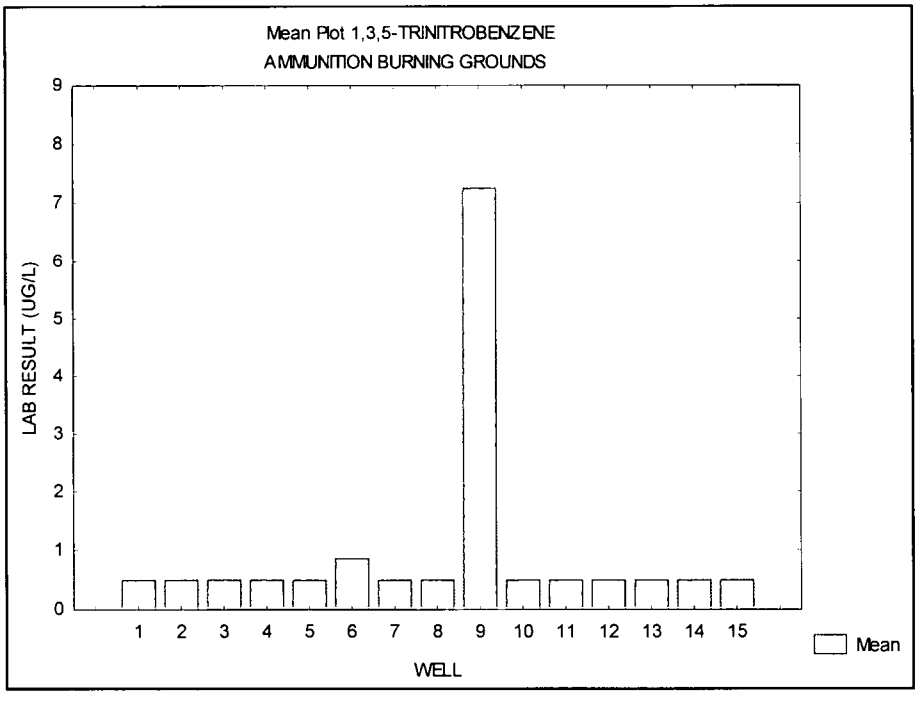
Tables 7.43 through 7.49

1,3,5-TRINITROBENZENE (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	0.500000	16	0.000000	0.500000	0.50000
2	C03	0.500000	16	0.000000	0.500000	0.50000
3	C04	0.500000	16	0.000000	0.500000	0.50000
4	C07	0.500000	16	0.000000	0.500000	0.50000
5	C08P2	0.500000	16	0.000000	0.500000	0.50000
6	C09P2	0.863158	19	1.088940	0.500000	4.10000
7	C15	0.500000	27	0.000000	0.500000	0.50000
8*	C17*	0.500000	23	0.000000	0.500000	0.50000
9	C20	7.250000	16	2.252998	4.300000	13.00000
10	C25	0.500000	14	0.000000	0.500000	0.50000
11	C26	0.500000	16	0.000000	0.500000	0.50000
12	C27	0.500000	15	0.000000	0.500000	0.50000
13	C30	0.500000	16	0.000000	0.500000	0.50000
14	SPA	0.500000	20	0.000000	0.500000	0.50000
15	SPC	0.500000	20	0.000000	0.500000	0.50000
	All Grps	0.931955	266	1.714927	0.500000	13.00000

Table 7.43.

* Denotes Upgradient Well

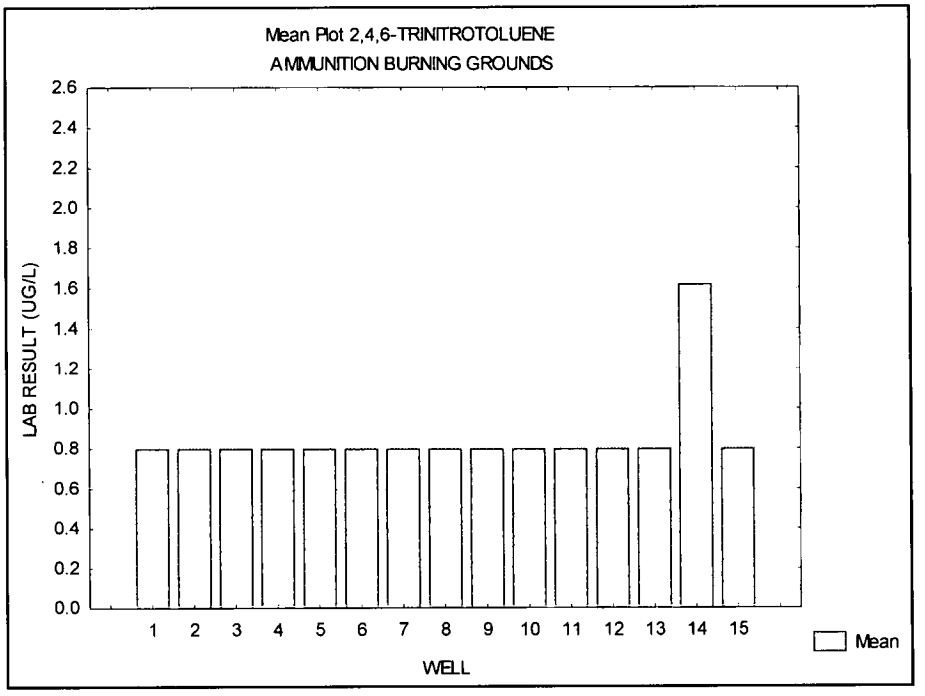


2,4,6-TRINITROTOLUENE (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	0.800000	16	0.000000	0.800000	0.800000
2	C03	0.800000	16	0.000000	0.800000	0.800000
3	C04	0.800000	16	0.000000	0.800000	0.800000
4	C07	0.800000	16	0.000000	0.800000	0.800000
5	C08P2	0.800000	16	0.000000	0.800000	0.800000
6	C09P2	0.800000	19	0.000000	0.800000	0.800000
7	C15	0.800000	27	0.000000	0.800000	0.800000
8*	C17*	0.800000	23	0.000000	0.800000	0.800000
9	C20	0.800000	16	0.000000	0.800000	0.800000
10	C25	0.800000	14	0.000000	0.800000	0.800000
11	C26	0.800000	16	0.000000	0.800000	0.800000
12	C27	0.800000	15	0.000000	0.800000	0.800000
13	C30	0.800000	16	0.000000	0.800000	0.800000
14	SPA	1.620000	20	1.452620	0.800000	5.500000
15	SPC	0.800000	20	0.000000	0.800000	0.800000
	All Grps	0.861654	266	0.445221	0.800000	5.500000

Table 7.44.

* Denotes Upgradient Well

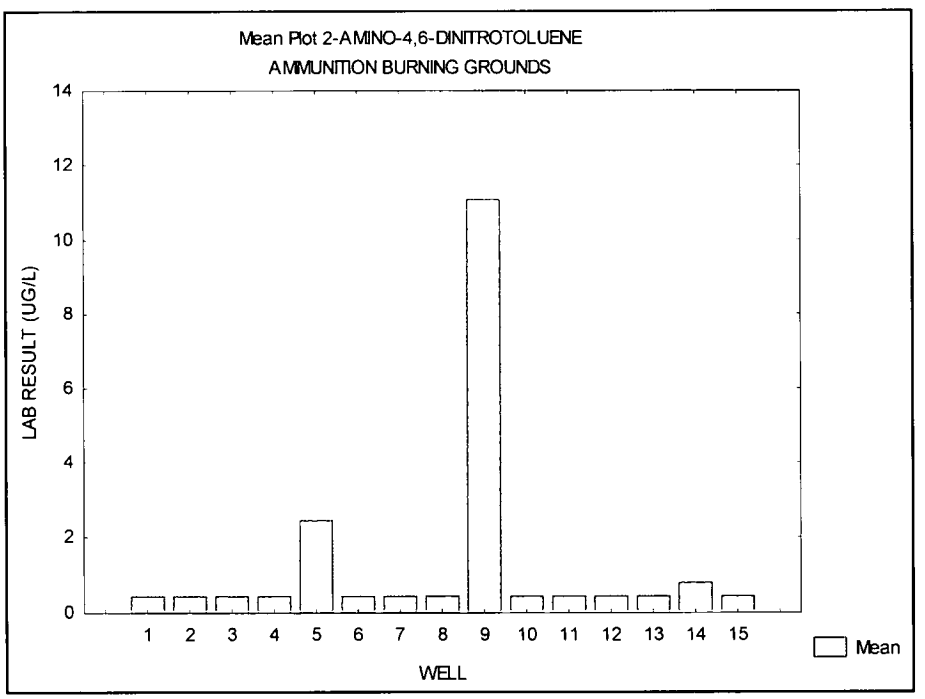


2-AMINO-4,6-DINITROTOLUENE (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	0.45000	16	0.000000	0.450000	0.45000
2	C03	0.45000	16	0.000000	0.450000	0.45000
3	C04	0.45000	16	0.000000	0.450000	0.45000
4	C07	0.45000	16	0.000000	0.450000	0.45000
5	C08P2	2.45000	16	0.344480	2.000000	3.10000
6	C09P2	0.45000	19	0.000000	0.450000	0.45000
7	C15	0.45000	27	0.000000	0.450000	0.45000
8*	C17*	0.45000	23	0.000000	0.450000	0.45000
9	C20	11.08438	16	3.091910	0.450000	14.00000
10	C25	0.45000	14	0.000000	0.450000	0.45000
11	C26	0.45000	16	0.000000	0.450000	0.45000
12	C27	0.45000	15	0.000000	0.450000	0.45000
13	C30	0.45000	16	0.000000	0.450000	0.45000
14	SPA	0.80250	20	0.514647	0.450000	1.80000
15	SPC	0.45000	20	0.000000	0.450000	0.45000
	All Grps	1.23647	266	2.650458	0.450000	14.00000

Table 7.45.

* Denotes Upgradient Well

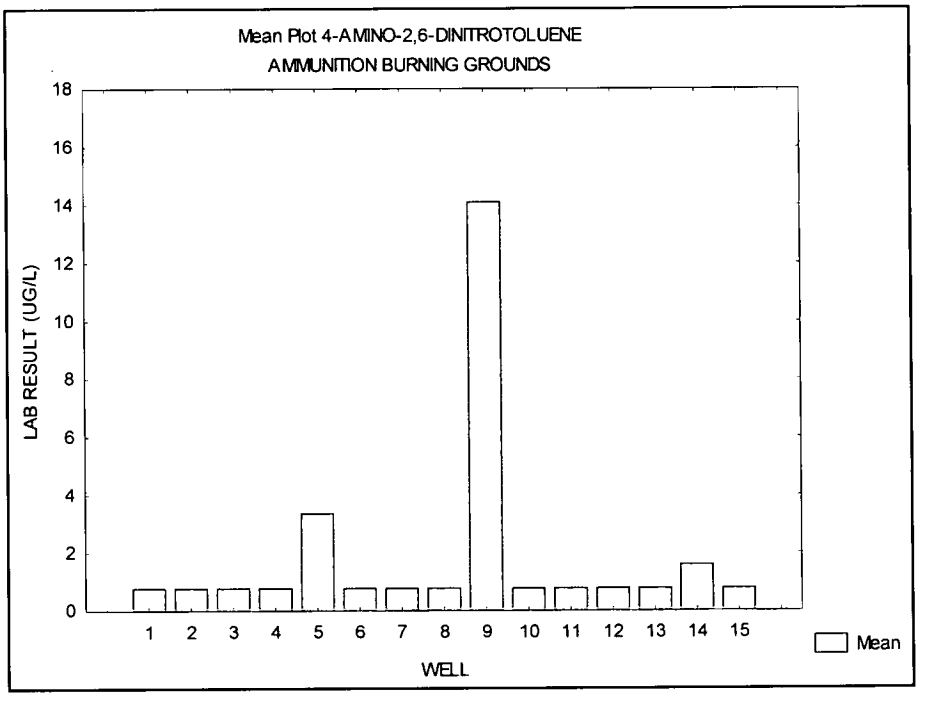


4-AMINO-2,6-DINITROTOLUENE (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	0.80000	16	0.000000	0.800000	0.80000
2	C03	0.80000	16	0.000000	0.800000	0.80000
3	C04	0.80000	16	0.000000	0.800000	0.80000
4	C07	0.80000	16	0.000000	0.800000	0.80000
5	C08P2	3.38750	16	0.545130	2.500000	4.50000
6	C09P2	0.80000	19	0.000000	0.800000	0.80000
7	C15	0.80000	27	0.000000	0.800000	0.80000
8*	C17*	0.80000	23	0.000000	0.800000	0.80000
9	C20	14.11250	16	3.941552	0.800000	18.00000
10	C25	0.80000	14	0.000000	0.800000	0.80000
11	C26	0.80000	16	0.000000	0.800000	0.80000
12	C27	0.80000	15	0.000000	0.800000	0.80000
13	C30	0.80000	16	0.000000	0.800000	0.80000
14	SPA	1.60500	20	1.181647	0.800000	3.90000
15	SPC	0.80000	20	0.000000	0.800000	0.80000
	All Grps	1.81692	266	3.333418	0.800000	18.00000

Table 7.46.

* Denotes Upgradient Well

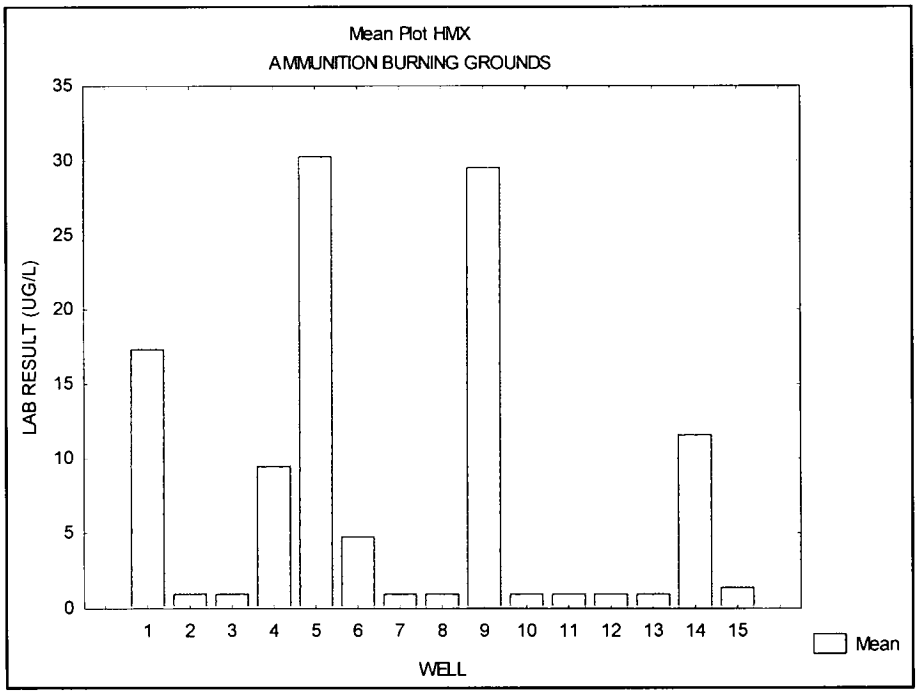


HMX (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	17.40625	16	10.77488	2.60000	31.00000
2	C03	1.00000	16	0.00000	1.00000	1.00000
3	C04	1.00000	16	0.00000	1.00000	1.00000
4	C07	9.53125	16	2.40048	4.80000	14.00000
5	C08P2	30.31250	16	3.84220	23.00000	35.00000
6	C09P2	4.78947	19	0.59057	3.40000	5.70000
7	C15	1.00000	27	0.00000	1.00000	1.00000
8*	C17*	1.00000	23	0.00000	1.00000	1.00000
9	C20	29.56250	16	3.36588	22.00000	36.00000
10	C25	1.00000	14	0.00000	1.00000	1.00000
11	C26	1.00000	16	0.00000	1.00000	1.00000
12	C27	1.00000	15	0.00000	1.00000	1.00000
13	C30	1.00000	16	0.00000	1.00000	1.00000
14	SPA	11.60500	20	10.25745	2.00000	35.00000
15	SPC	1.42500	20	0.90139	1.00000	4.60000
	All Grps	7.08120	266	10.49720	1.00000	36.00000

Table 7.47.

* Denotes Upgradient Well

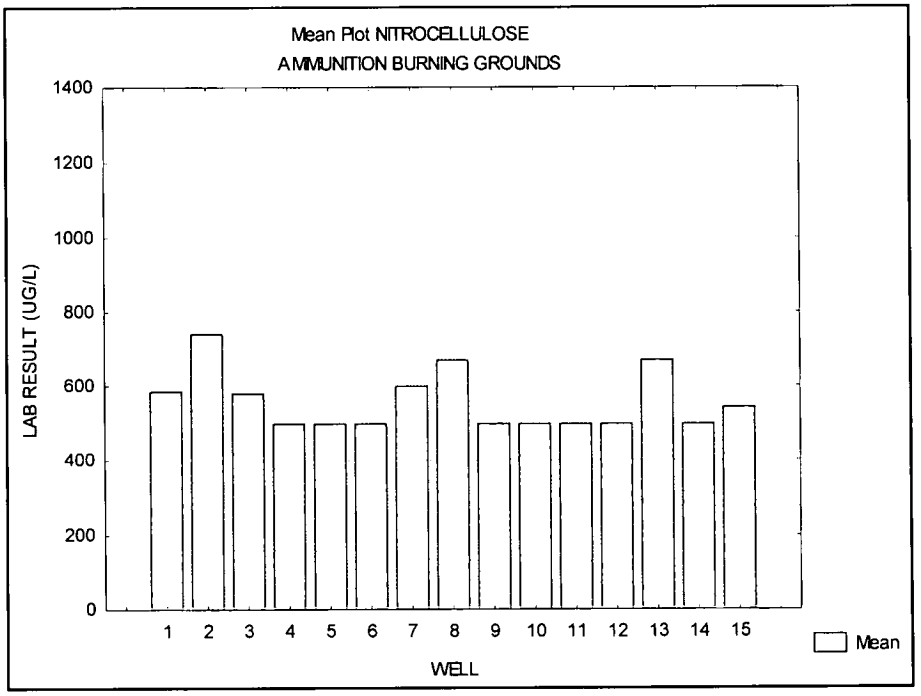


NITROCELLULOSE (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	587.5000	16	239.0955	500.0000	1200.000
2	C03	743.7500	16	975.0000	500.0000	4400.000
3	C04	581.2500	16	325.0000	500.0000	1800.000
4	C07	500.0000	16	0.0000	500.0000	500.000
5	C08P2	500.0000	16	0.0000	500.0000	500.000
6	C09P2	500.0000	19	0.0000	500.0000	500.000
7	C15	600.0000	27	360.5551	500.0000	1900.000
8*	C17*	673.9130	23	834.0577	500.0000	4500.000
9	C20	500.0000	16	0.0000	500.0000	500.000
10	C25	500.0000	14	0.0000	500.0000	500.000
11	C26	500.0000	16	0.0000	500.0000	500.000
12	C27	500.0000	15	0.0000	500.0000	500.000
13	C30	675.0000	16	700.0000	500.0000	3300.000
14	SPA	500.0000	20	0.0000	500.0000	500.000
15	SPC	545.0000	20	201.2461	500.0000	1400.000
	All Grps	563.9098	266	412.5097	500.0000	4500.000

Table 7.48.

* Denotes Upgradient Well

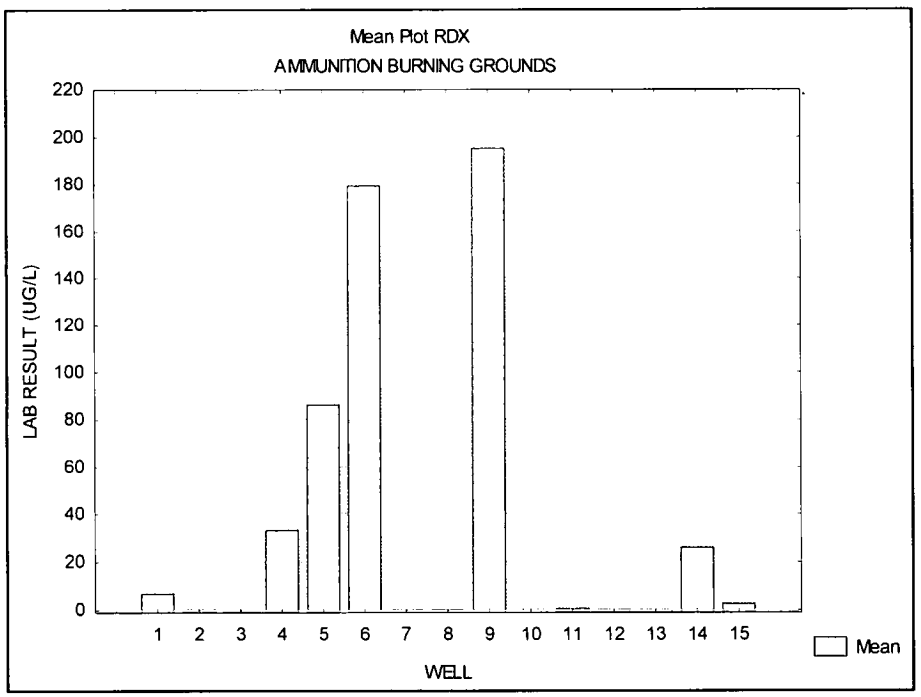


RDX (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	7.1006	16	5.41642	0.3050	17.0000
2	C03	0.3050	16	0.00000	0.3050	0.3050
3	C04	0.3050	16	0.00000	0.3050	0.3050
4	C07	33.3750	16	6.80074	19.0000	45.0000
5	C08P2	86.5000	16	9.01850	68.0000	99.0000
6	C09P2	179.4737	19	17.47178	150.0000	230.0000
7	C15	0.3050	27	0.00000	0.3050	0.3050
8*	C17*	0.3050	23	0.00000	0.3050	0.3050
9	C20	195.6250	16	20.32035	170.0000	250.0000
10	C25	0.3050	14	0.00000	0.3050	0.3050
11	C26	0.9888	16	0.59656	0.3050	1.8000
12	C27	0.3050	15	0.00000	0.3050	0.3050
13	C30	0.3050	16	0.00000	0.3050	0.3050
14	SPA	26.2450	20	35.41804	1.6000	140.0000
15	SPC	2.9553	20	1.46473	0.3050	6.4000
	All Grps	34.6247	266	64.30053	0.3050	250.0000

Table 7.49.

* Denotes Upgradient Well



METALS

AMMUNITION BURNING GROUNDS

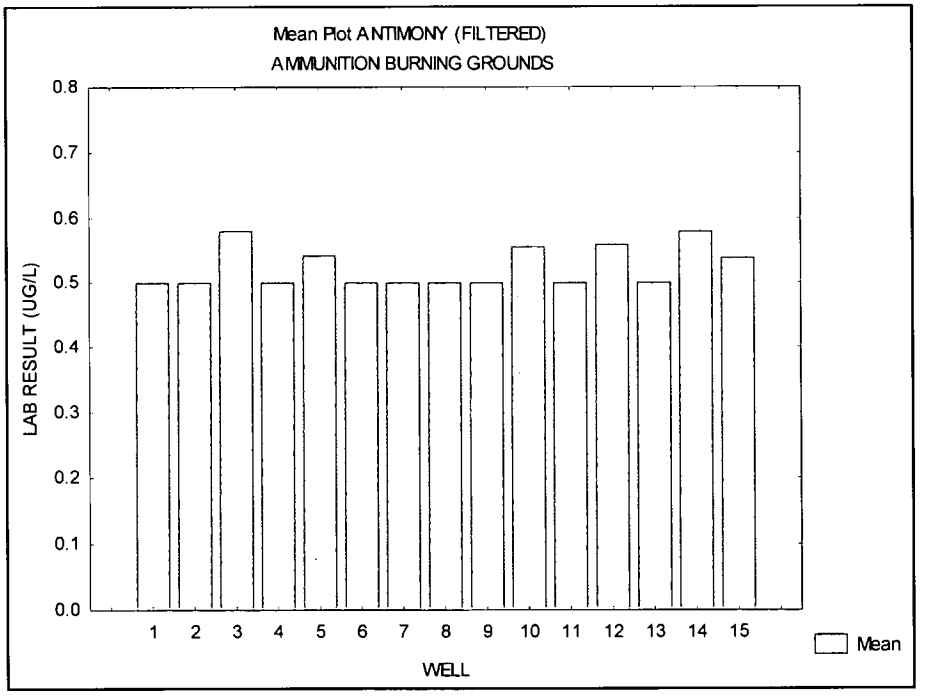
Tables 7.50 through 7.71

ANTIMONY (FILTERED) (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	0.500000	16	0.000000	0.500000	0.500000
2	C03	0.500000	16	0.000000	0.500000	0.500000
3	C04	0.581250	16	0.325000	0.500000	1.800000
4	C07	0.500000	16	0.000000	0.500000	0.500000
5	C08P2	0.543750	16	0.175000	0.500000	1.200000
6	C09P2	0.500000	19	0.000000	0.500000	0.500000
7	C15	0.500000	27	0.000000	0.500000	0.500000
8*	C17*	0.500000	23	0.000000	0.500000	0.500000
9	C20	0.500000	16	0.000000	0.500000	0.500000
10	C25	0.557143	14	0.213809	0.500000	1.300000
11	C26	0.500000	16	0.000000	0.500000	0.500000
12	C27	0.560000	15	0.232379	0.500000	1.400000
13	C30	0.500000	16	0.000000	0.500000	0.500000
14	SPA	0.580000	20	0.264774	0.500000	1.600000
15	SPC	0.540000	20	0.178885	0.500000	1.300000
	All Grps	0.522932	266	0.145240	0.500000	1.800000

Table 7.50.

* Denotes Upgradient Well

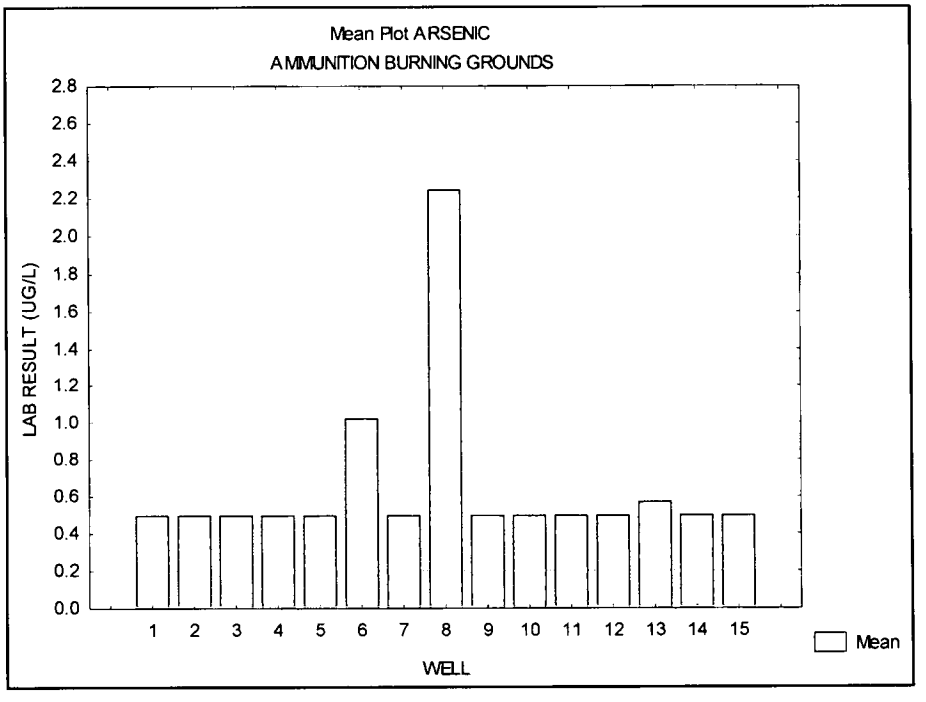


ARSENIC (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	0.500000	16	0.000000	0.500000	0.500000
2	C03	0.500000	16	0.000000	0.500000	0.500000
3	C04	0.500000	16	0.000000	0.500000	0.500000
4	C07	0.500000	16	0.000000	0.500000	0.500000
5	C08P2	0.500000	16	0.000000	0.500000	0.500000
6	C09P2	1.026316	19	0.827877	0.500000	2.700000
7	C15	0.500000	27	0.000000	0.500000	0.500000
8*	C17*	2.247826	23	0.371569	1.600000	3.100000
9	C20	0.500000	16	0.000000	0.500000	0.500000
10	C25	0.500000	14	0.000000	0.500000	0.500000
11	C26	0.500000	16	0.000000	0.500000	0.500000
12	C27	0.500000	15	0.000000	0.500000	0.500000
13	C30	0.575000	16	0.300000	0.500000	1.700000
14	SPA	0.500000	20	0.000000	0.500000	0.500000
15	SPC	0.500000	20	0.000000	0.500000	0.500000
	All Grps	0.693233	266	0.557649	0.500000	3.100000

Table 7.51.

* Denotes Upgradient Well

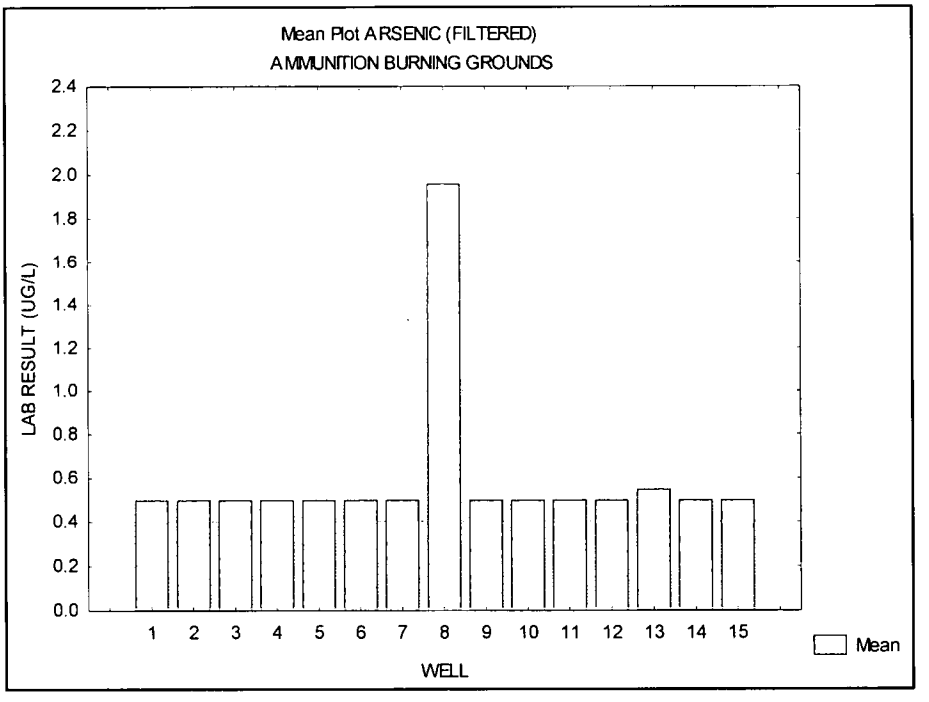


ARSENIC (FILTERED) (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	0.500000	16	0.000000	0.500000	0.500000
2	C03	0.500000	16	0.000000	0.500000	0.500000
3	C04	0.500000	16	0.000000	0.500000	0.500000
4	C07	0.500000	16	0.000000	0.500000	0.500000
5	C08P2	0.500000	16	0.000000	0.500000	0.500000
6	C09P2	0.500000	19	0.000000	0.500000	0.500000
7	C15	0.500000	27	0.000000	0.500000	0.500000
8*	C17*	1.960870	23	0.464894	0.500000	2.600000
9	C20	0.500000	16	0.000000	0.500000	0.500000
10	C25	0.500000	14	0.000000	0.500000	0.500000
11	C26	0.500000	16	0.000000	0.500000	0.500000
12	C27	0.500000	15	0.000000	0.500000	0.500000
13	C30	0.550000	16	0.200000	0.500000	1.300000
14	SPA	0.500000	20	0.000000	0.500000	0.500000
15	SPC	0.500000	20	0.000000	0.500000	0.500000
	All Grps	0.629323	266	0.434508	0.500000	2.600000

Table 7.52.

* Denotes Upgradient Well

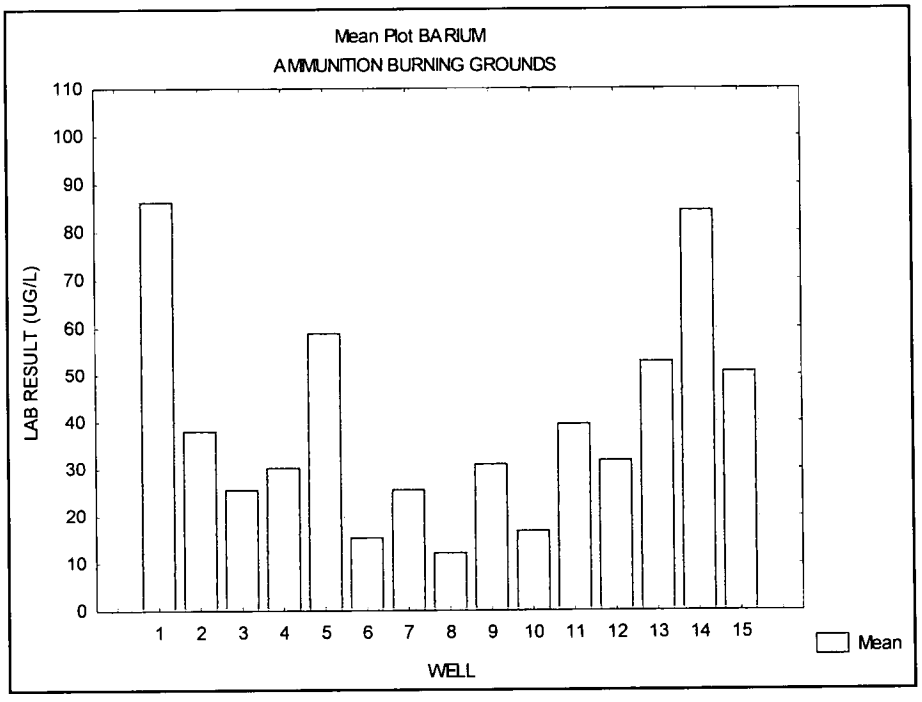


BARIUM (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	86.43750	16	19.80865	61.60000	132.0000
2	C03	38.15000	16	4.03667	33.80000	45.2000
3	C04	25.72500	16	6.00017	20.00000	43.4000
4	C07	30.42500	16	2.70247	25.90000	34.2000
5	C08P2	59.02500	16	9.95841	27.20000	71.8000
6	C09P2	15.58947	19	1.91482	13.00000	19.6000
7	C15	25.75185	27	1.63669	22.80000	28.9000
8*	C17*	12.35652	23	1.38919	10.00000	14.7000
9	C20	31.14375	16	1.80073	28.40000	34.4000
10	C25	17.01429	14	1.04650	15.40000	18.9000
11	C26	39.69375	16	5.79591	35.50000	60.0000
12	C27	31.88000	15	4.81578	25.80000	42.8000
13	C30	53.21875	16	6.69241	39.50000	66.3000
14	SPA	84.59000	20	27.88174	37.90000	134.0000
15	SPC	50.98000	20	12.26070	29.20000	66.7000
	All Grps	39.56617	266	24.69854	10.00000	134.0000

Table 7.53.

* Denotes Upgradient Well

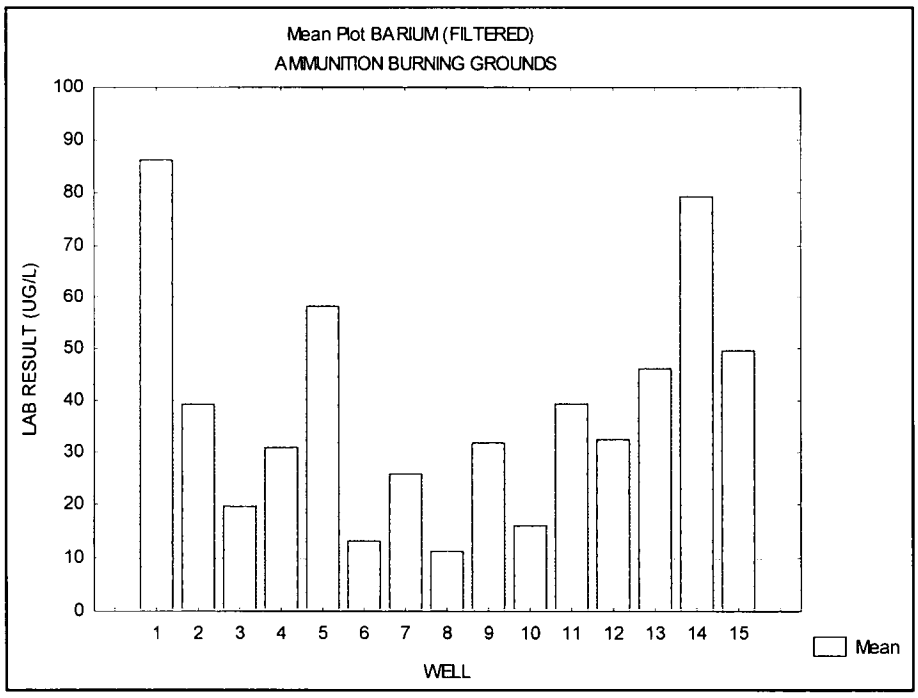


BARIUM (FILTERED) (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	86.31875	16	19.17968	60.90000	123.0000
2	C03	39.36250	16	3.39330	35.30000	45.4000
3	C04	19.71875	16	2.84423	15.50000	26.0000
4	C07	31.05000	16	2.47225	26.10000	36.3000
5	C08P2	58.32500	16	6.94421	51.60000	79.4000
6	C09P2	13.23158	19	1.09750	11.70000	15.4000
7	C15	25.89630	27	1.78960	23.00000	29.3000
8*	C17*	11.32609	23	1.75324	8.90000	17.5000
9	C20	31.93125	16	2.30209	28.40000	37.3000
10	C25	16.15714	14	0.79780	15.10000	17.8000
11	C26	39.41250	16	2.73907	35.50000	45.9000
12	C27	32.54667	15	4.31490	26.00000	39.0000
13	C30	46.30000	16	7.78880	33.60000	60.6000
14	SPA	79.33500	20	32.27700	17.50000	142.0000
15	SPC	49.65000	20	12.17039	29.50000	63.3000
	All Grps	38.13496	266	24.46407	8.90000	142.0000

Table 7.54.

* Denotes Upgradient Well

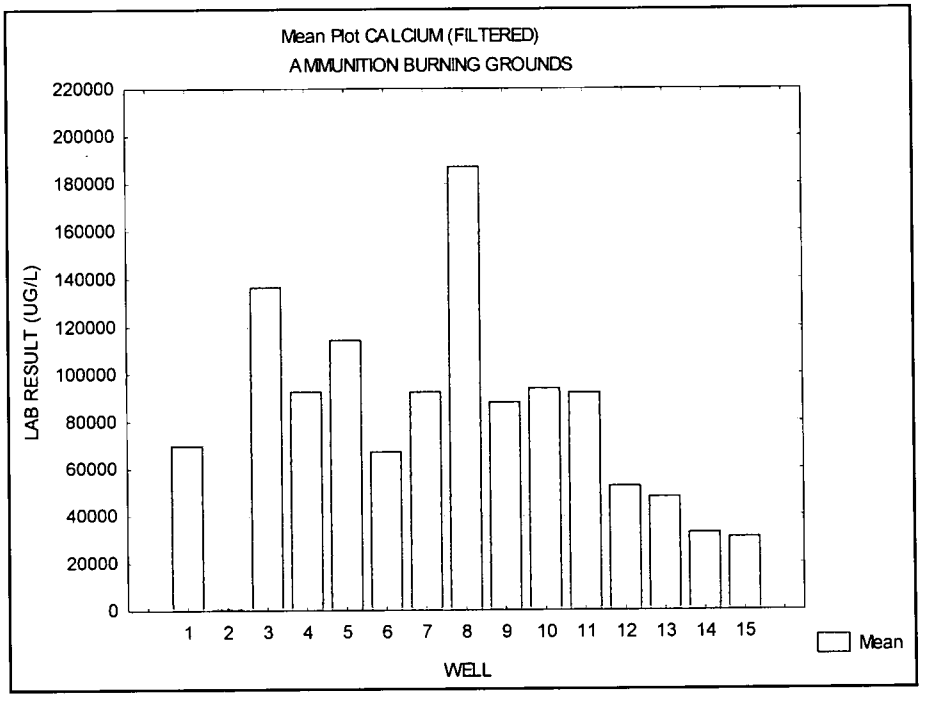


CALCIUM (FILTERED) (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	70000.0	15	27688.70	26400.0	111000.0
2	C03	1215.3	15	167.45	1060.0	1650.0
3	C04	136800.0	15	12773.86	111000.0	155000.0
4	C07	92893.3	15	9026.35	75000.0	106000.0
5	C08P2	114793.3	15	11388.62	88100.0	134000.0
6	C09P2	67388.2	17	6782.04	55300.0	77000.0
7	C15	92796.2	26	8579.95	74500.0	106000.0
8*	C17*	187363.6	22	15273.84	148000.0	208000.0
9	C20	88446.7	15	8523.57	70500.0	101000.0
10	C25	94261.5	13	8958.01	79100.0	110000.0
11	C26	92313.3	15	7791.37	75700.0	104000.0
12	C27	52821.4	14	6975.58	41100.0	68800.0
13	C30	48293.3	15	13903.93	24800.0	75000.0
14	SPA	32910.5	19	16566.53	11700.0	62800.0
15	SPC	31100.0	19	14118.43	12800.0	55400.0
	All Grps	82130.9	250	48270.94	1060.0	208000.0

Table 7.55.

* Denotes Upgradient Well

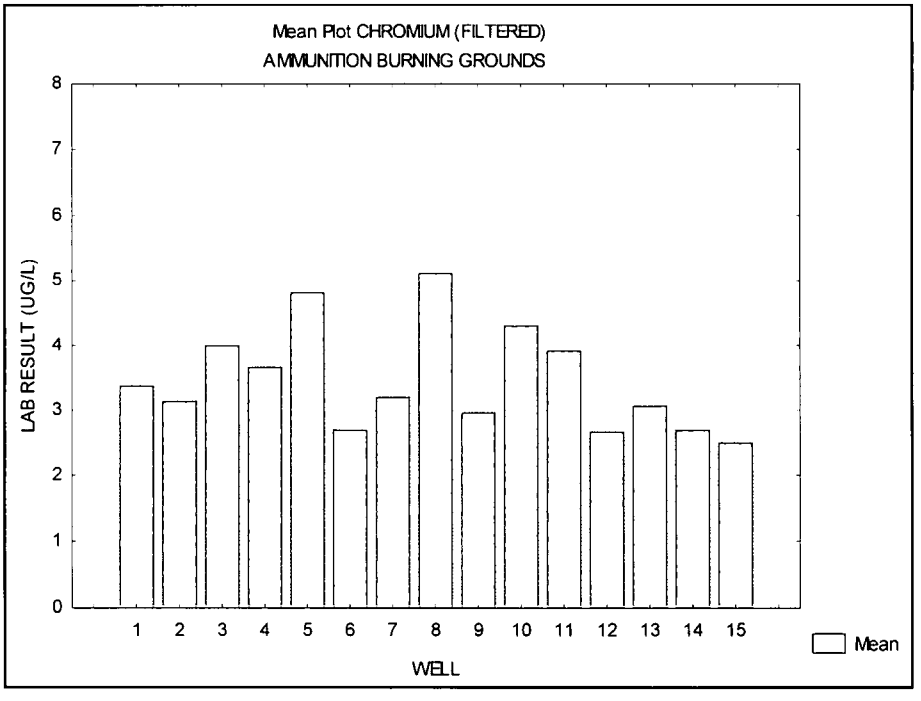


CHROMIUM (FILTERED) (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	3.381250	16	2.031492	2.500000	9.30000
2	C03	3.143750	16	1.847870	2.500000	9.20000
3	C04	4.000000	16	3.023905	2.500000	12.40000
4	C07	3.675000	16	2.904594	2.500000	13.30000
5	C08P2	4.818750	16	3.249865	2.500000	13.50000
6	C09P2	2.700000	19	0.871780	2.500000	6.30000
7	C15	3.207407	27	1.759354	2.500000	8.20000
8*	C17*	5.113043	23	4.067756	2.500000	17.30000
9	C20	2.962500	16	1.326084	2.500000	7.30000
10	C25	4.314286	14	4.938056	2.500000	19.70000
11	C26	3.925000	16	2.876456	2.500000	12.60000
12	C27	2.666667	15	0.645497	2.500000	5.00000
13	C30	3.068750	16	1.600716	2.500000	8.10000
14	SPA	2.700000	20	0.894427	2.500000	6.50000
15	SPC	2.500000	20	0.000000	2.500000	2.50000
	All Grps	3.471805	266	2.526881	2.500000	19.70000

Table 7.56.

* Denotes Upgradient Well

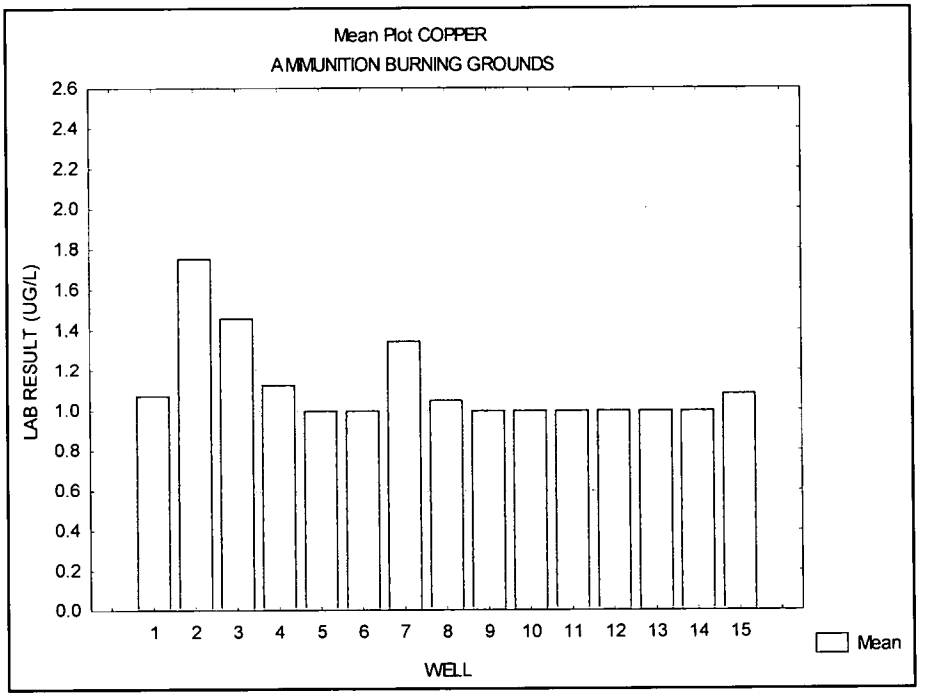


COPPER (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	1.075000	16	0.300000	1.000000	2.20000
2	C03	1.756250	16	1.250583	1.000000	4.60000
3	C04	1.462500	16	0.910586	1.000000	4.10000
4	C07	1.131250	16	0.525000	1.000000	3.10000
5	C08P2	1.000000	16	0.000000	1.000000	1.00000
6	C09P2	1.000000	19	0.000000	1.000000	1.00000
7	C15	1.348148	27	1.809031	1.000000	10.40000
8*	C17*	1.052174	23	0.250217	1.000000	2.20000
9	C20	1.000000	16	0.000000	1.000000	1.00000
10	C25	1.000000	14	0.000000	1.000000	1.00000
11	C26	1.000000	16	0.000000	1.000000	1.00000
12	C27	1.000000	15	0.000000	1.000000	1.00000
13	C30	1.000000	16	0.000000	1.000000	1.00000
14	SPA	1.000000	20	0.000000	1.000000	1.00000
15	SPC	1.085000	20	0.380132	1.000000	2.70000
	All Grps	1.131955	266	0.732992	1.000000	10.40000

Table 7.57.

* Denotes Upgradient Well

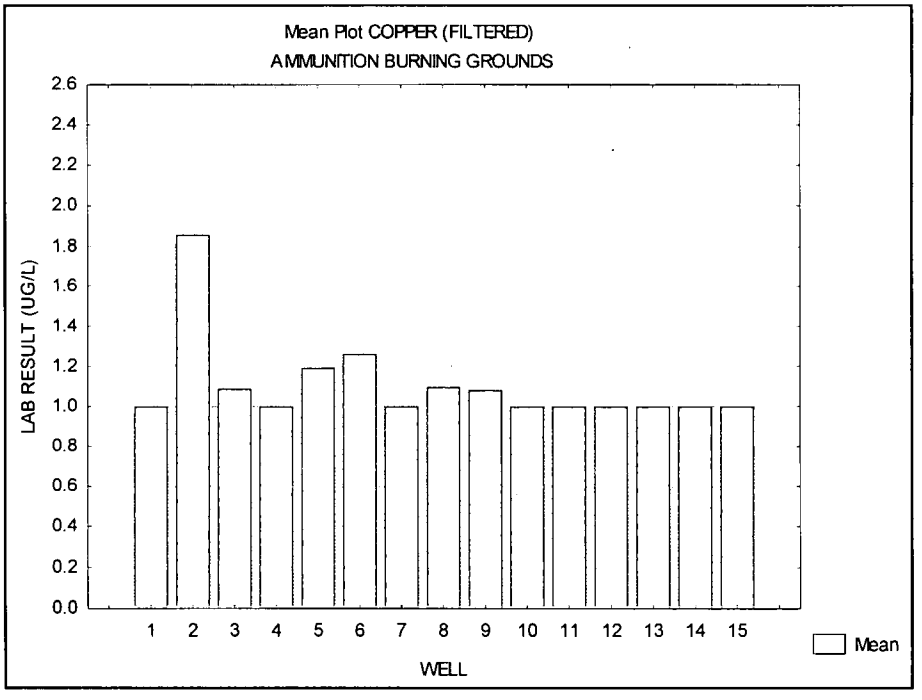


COPPER (FILTERED) (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	1.000000	16	0.000000	1.000000	1.000000
2	C03	1.856250	16	1.106929	1.000000	4.400000
3	C04	1.087500	16	0.350000	1.000000	2.400000
4	C07	1.000000	16	0.000000	1.000000	1.000000
5	C08P2	1.193750	16	0.775000	1.000000	4.100000
6	C09P2	1.263158	19	1.147079	1.000000	6.000000
7	C15	1.000000	27	0.000000	1.000000	1.000000
8*	C17*	1.095652	23	0.316914	1.000000	2.100000
9	C20	1.081250	16	0.325000	1.000000	2.300000
10	C25	1.000000	14	0.000000	1.000000	1.000000
11	C26	1.000000	16	0.000000	1.000000	1.000000
12	C27	1.000000	15	0.000000	1.000000	1.000000
13	C30	1.000000	16	0.000000	1.000000	1.000000
14	SPA	1.000000	20	0.000000	1.000000	1.000000
15	SPC	1.000000	20	0.000000	1.000000	1.000000
	All Grps	1.100376	266	0.506970	1.000000	6.000000

Table 7.58.

* Denotes Upgradient Well

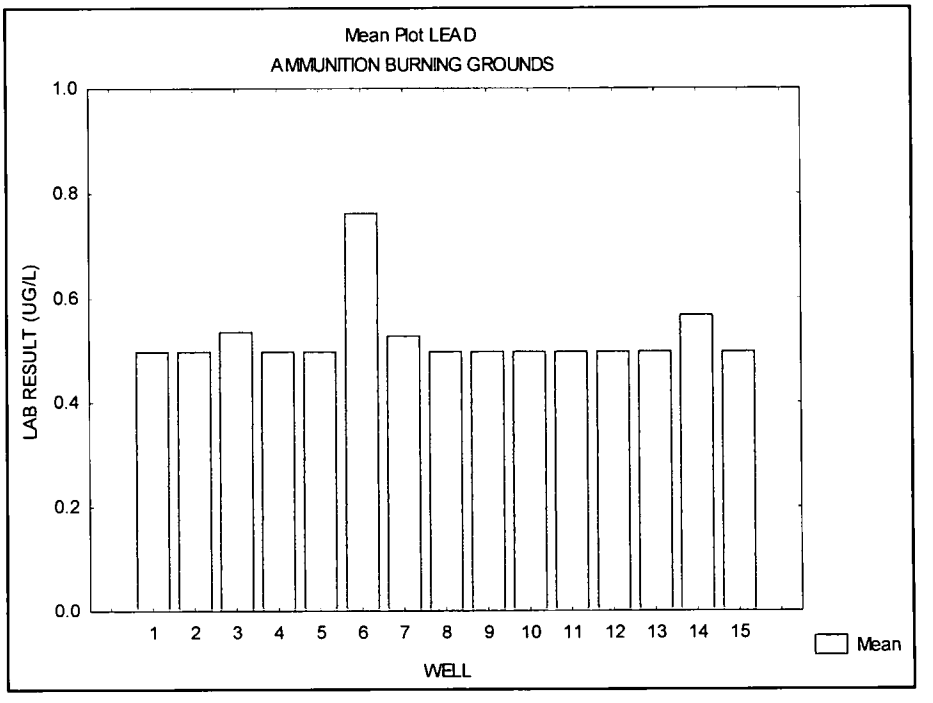


LEAD (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	0.500000	16	0.000000	0.500000	0.500000
2	C03	0.500000	16	0.000000	0.500000	0.500000
3	C04	0.537500	16	0.150000	0.500000	1.100000
4	C07	0.500000	16	0.000000	0.500000	0.500000
5	C08P2	0.500000	16	0.000000	0.500000	0.500000
6	C09P2	0.763158	19	0.468106	0.500000	1.800000
7	C15	0.529630	27	0.153960	0.500000	1.300000
8*	C17*	0.500000	23	0.000000	0.500000	0.500000
9	C20	0.500000	16	0.000000	0.500000	0.500000
10	C25	0.500000	14	0.000000	0.500000	0.500000
11	C26	0.500000	16	0.000000	0.500000	0.500000
12	C27	0.500000	15	0.000000	0.500000	0.500000
13	C30	0.500000	16	0.000000	0.500000	0.500000
14	SPA	0.570000	20	0.215455	0.500000	1.200000
15	SPC	0.500000	20	0.000000	0.500000	0.500000
	All Grps	0.529323	266	0.162658	0.500000	1.800000

Table 7.59.

* Denotes Upgradient Well

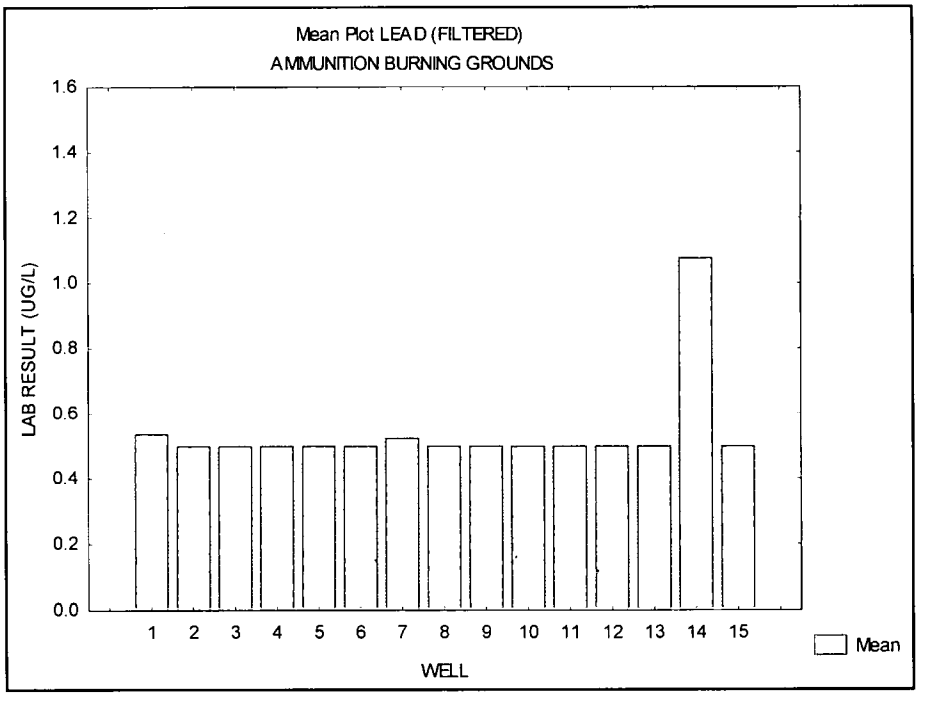


LEAD (FILTERED) (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	0.537500	16	0.150000	0.500000	1.10000
2	C03	0.500000	16	0.000000	0.500000	0.50000
3	C04	0.500000	16	0.000000	0.500000	0.50000
4	C07	0.500000	16	0.000000	0.500000	0.50000
5	C08P2	0.500000	16	0.000000	0.500000	0.50000
6	C09P2	0.500000	19	0.000000	0.500000	0.50000
7	C15	0.525926	27	0.134715	0.500000	1.20000
8*	C17*	0.500000	23	0.000000	0.500000	0.50000
9	C20	0.500000	16	0.000000	0.500000	0.50000
10	C25	0.500000	14	0.000000	0.500000	0.50000
11	C26	0.500000	16	0.000000	0.500000	0.50000
12	C27	0.500000	15	0.000000	0.500000	0.50000
13	C30	0.500000	16	0.000000	0.500000	0.50000
14	SPA	1.080000	20	2.593839	0.500000	12.10000
15	SPC	0.500000	20	0.000000	0.500000	0.50000
	All Grps	0.548496	266	0.713176	0.500000	12.10000

Table 7.60.

* Denotes Upgradient Well

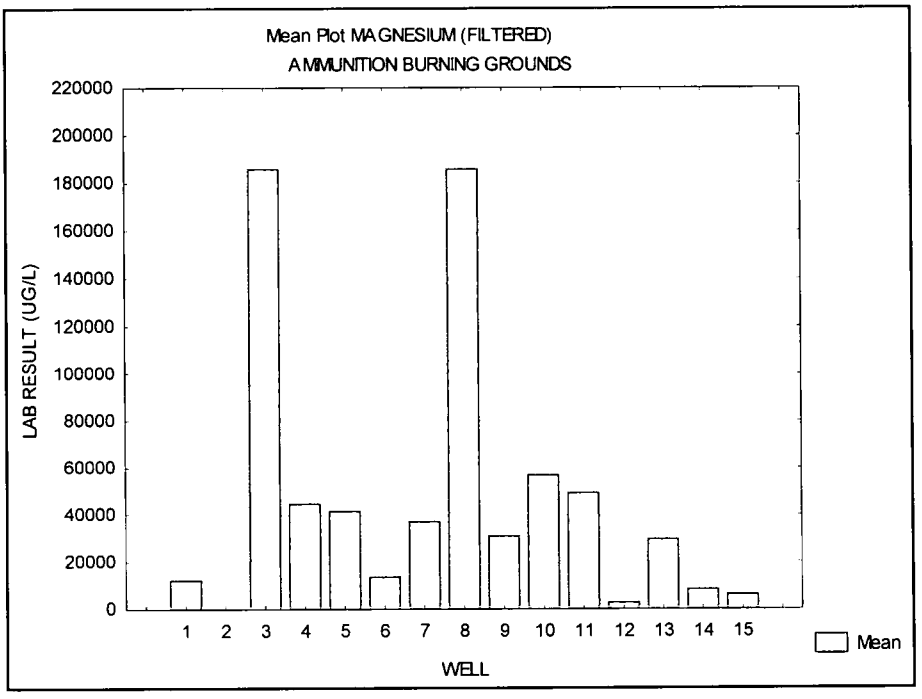


MAGNESIUM (FILTERED) (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	12454.7	15	3637.16	7120.0	18000.0
2	C03	500.0	15	0.00	500.0	500.0
3	C04	186133.3	15	13308.79	168000.0	216000.0
4	C07	45033.3	15	4475.28	38200.0	55200.0
5	C08P2	41946.7	15	4578.97	33000.0	51200.0
6	C09P2	13923.5	17	1162.18	11800.0	16500.0
7	C15	37246.2	26	5141.22	28900.0	46400.0
8*	C17*	186045.5	22	19177.06	146000.0	225000.0
9	C20	31246.7	15	2881.43	27200.0	37600.0
10	C25	57169.2	13	3999.04	51400.0	63500.0
11	C26	49526.7	15	5028.98	41700.0	61000.0
12	C27	3068.6	14	435.64	2580.0	4290.0
13	C30	29820.0	15	5309.18	19500.0	37400.0
14	SPA	8553.7	19	3876.92	3570.0	16500.0
15	SPC	6375.8	19	2912.08	2990.0	12400.0
	All Grps	49271.4	250	59968.07	500.0	225000.0

Table 7.61.

* Denotes Upgradient Well

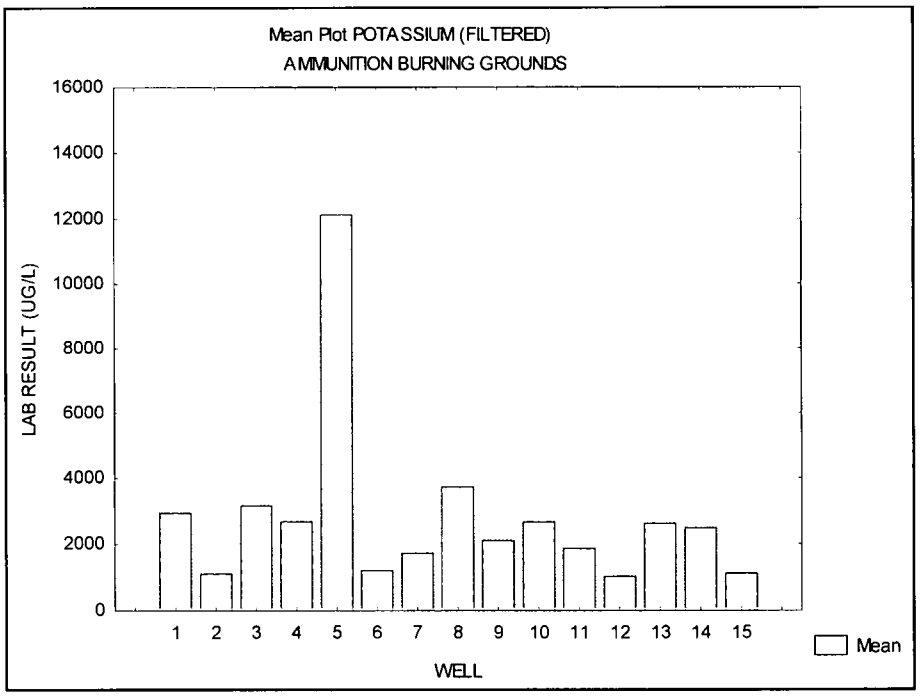


POTASSIUM (FILTERED) (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	2945.33	15	927.376	1490.000	5240.00
2	C03	1112.67	15	499.163	500.000	2220.00
3	C04	3168.67	15	602.920	2710.000	4940.00
4	C07	2694.67	15	722.850	1660.000	4500.00
5	C08P2	12150.00	15	5948.038	7480.000	31100.00
6	C09P2	1213.53	17	118.001	1090.000	1470.00
7	C15	1735.00	26	330.566	1280.000	2300.00
8*	C17*	3739.55	22	1149.292	2410.000	6610.00
9	C20	2122.67	15	236.537	1800.000	2600.00
10	C25	2683.08	13	519.637	2380.000	4070.00
11	C26	1874.67	15	269.228	1420.000	2450.00
12	C27	1040.71	14	315.118	500.000	1430.00
13	C30	2628.67	15	478.194	2170.000	3500.00
14	SPA	2492.63	19	1058.174	500.000	5000.00
15	SPC	1121.58	19	252.460	500.000	1490.00
	All Grps	2786.36	250	2939.810	500.000	31100.00

Table 7.62.

* Denotes Upgradient Well

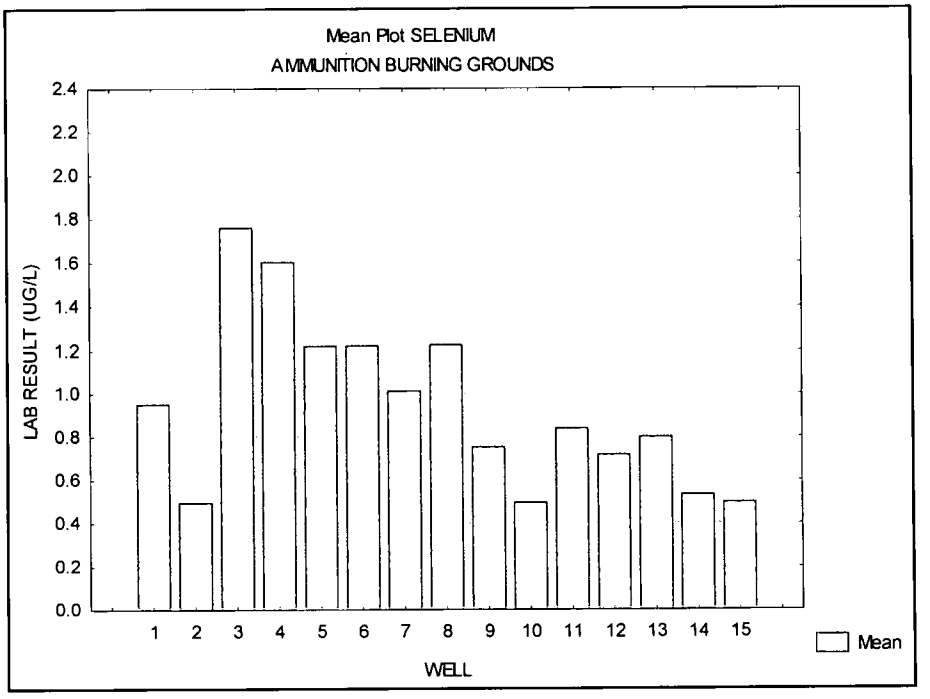


SELENIUM (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	0.956250	16	0.712712	0.500000	2.400000
2	C03	0.500000	16	0.000000	0.500000	0.500000
3	C04	1.762500	16	0.873976	0.500000	2.900000
4	C07	1.606250	16	0.880506	0.500000	2.900000
5	C08P2	1.225000	16	0.818535	0.500000	3.000000
6	C09P2	1.226316	19	0.695894	0.500000	2.700000
7	C15	1.014815	27	0.638932	0.500000	2.600000
8*	C17*	1.230435	23	0.747988	0.500000	2.200000
9	C20	0.756250	16	0.401611	0.500000	1.500000
10	C25	0.500000	14	0.000000	0.500000	0.500000
11	C26	0.843750	16	0.554940	0.500000	2.400000
12	C27	0.720000	15	0.407431	0.500000	1.700000
13	C30	0.800000	16	1.200000	0.500000	5.300000
14	SPA	0.535000	20	0.156525	0.500000	1.200000
15	SPC	0.500000	20	0.000000	0.500000	0.500000
	All Grps	0.950000	266	0.730379	0.500000	5.300000

Table 7.63.

* Denotes Upgradient Well

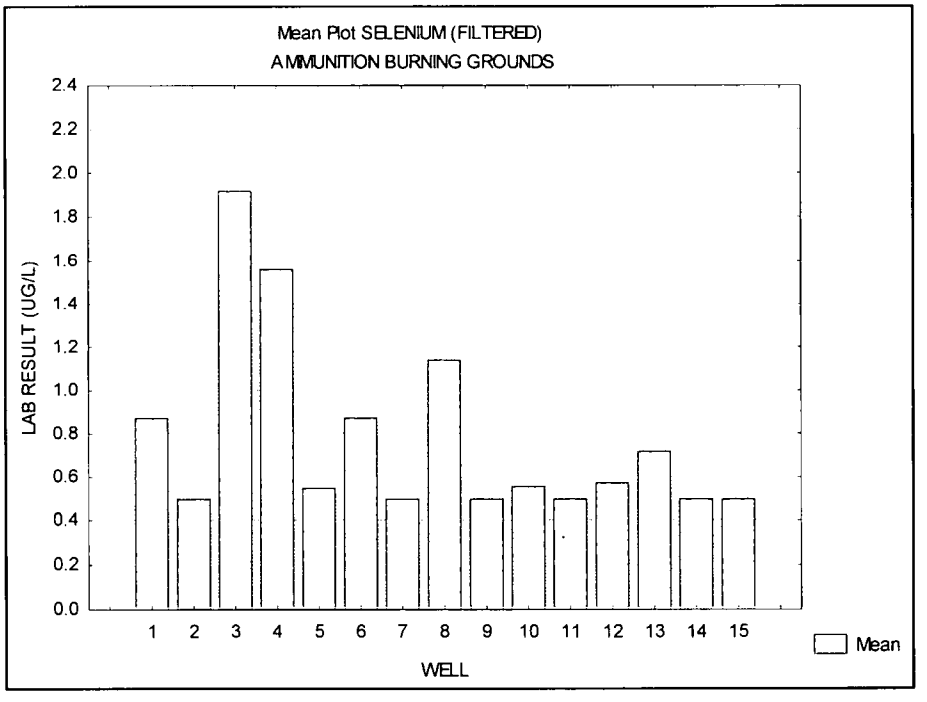


SELENIUM (FILTERED) (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	0.875000	16	0.746101	0.500000	3.300000
2	C03	0.500000	16	0.000000	0.500000	0.500000
3	C04	1.918750	16	0.779075	0.500000	3.400000
4	C07	1.562500	16	0.536501	0.500000	2.300000
5	C08P2	0.550000	16	0.200000	0.500000	1.300000
6	C09P2	0.873684	19	0.388504	0.500000	1.600000
7	C15	0.500000	27	0.000000	0.500000	0.500000
8*	C17*	1.143478	23	0.659770	0.500000	2.600000
9	C20	0.500000	16	0.000000	0.500000	0.500000
10	C25	0.557143	14	0.213809	0.500000	1.300000
11	C26	0.500000	16	0.000000	0.500000	0.500000
12	C27	0.573333	15	0.194447	0.500000	1.100000
13	C30	0.718750	16	0.875000	0.500000	4.000000
14	SPA	0.500000	20	0.000000	0.500000	0.500000
15	SPC	0.500000	20	0.000000	0.500000	0.500000
	All Grps	0.777444	266	0.590569	0.500000	4.000000

Table 7.64.

* Denotes Upgradient Well

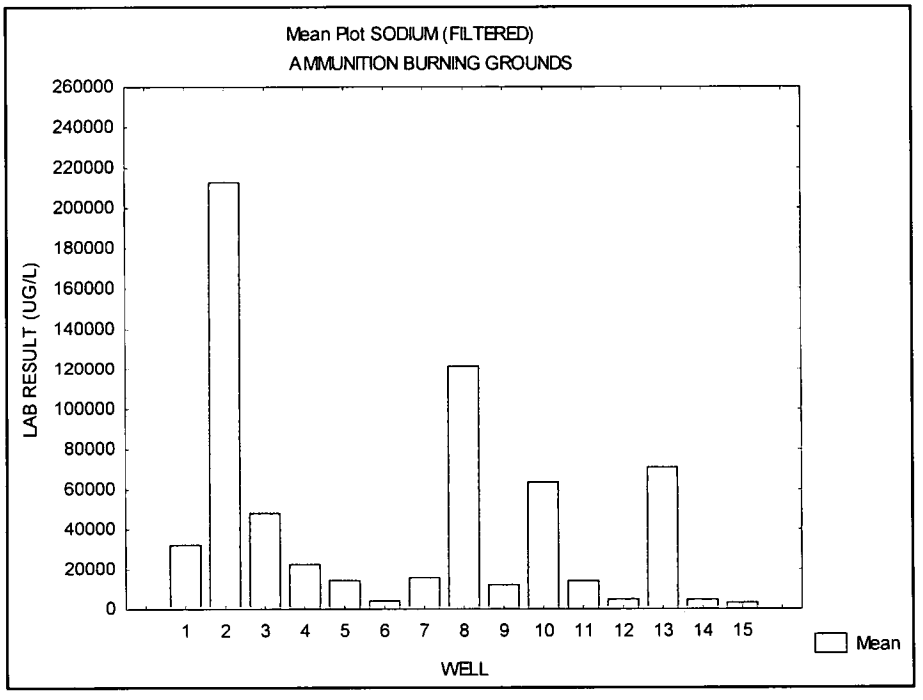


SODIUM (FILTERED) (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	32620.0	15	6654.45	20500.0	44700.0
2	C03	213333.3	15	40602.02	118000.0	303000.0
3	C04	48726.7	15	10784.21	14800.0	60100.0
4	C07	22946.7	15	2694.40	19300.0	28800.0
5	C08P2	14820.0	15	3079.24	12200.0	24100.0
6	C09P2	4541.8	17	566.24	3480.0	5480.0
7	C15	16205.0	26	6017.57	5000.0	26200.0
8*	C17*	122009.1	22	52884.62	93200.0	354000.0
9	C20	12566.7	15	4083.18	10100.0	26900.0
10	C25	64230.8	13	5324.06	58200.0	72200.0
11	C26	14700.0	15	1231.14	12900.0	17900.0
12	C27	5395.0	14	822.45	4120.0	7400.0
13	C30	71393.3	15	13816.27	46200.0	92000.0
14	SPA	5236.3	19	2624.81	2840.0	11000.0
15	SPC	3625.8	19	1532.99	1750.0	6930.0
	All Grps	42913.0	250	58263.07	1750.0	354000.0

Table 7.65.

* Denotes Upgradient Well

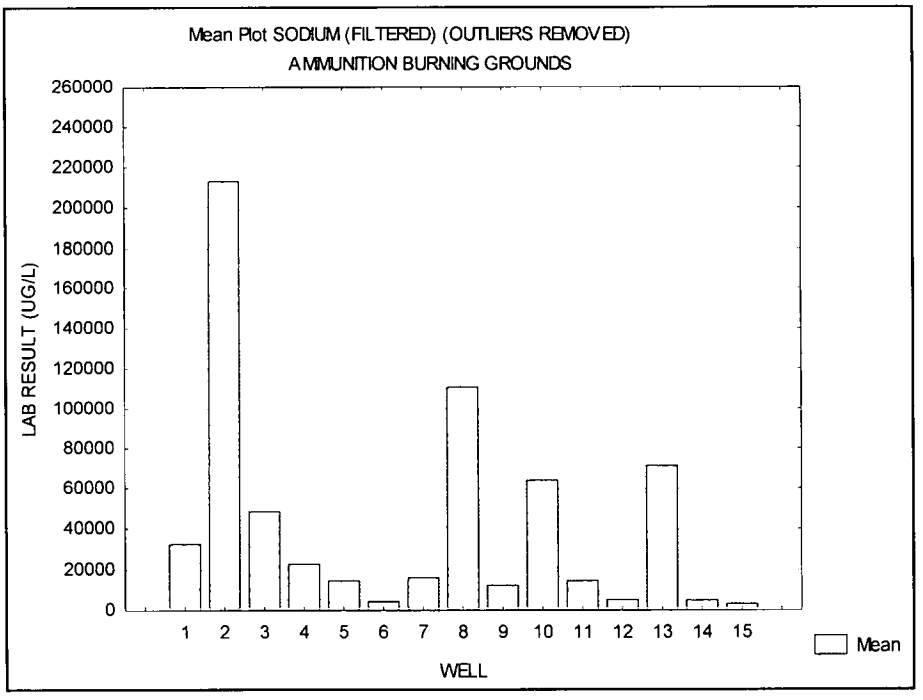


SODIUM (FILTERED) (OUTLIERS REMOVED) (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	32620.0	15	6654.45	20500.0	44700.0
2	C03	213333.3	15	40602.02	118000.0	303000.0
3	C04	48726.7	15	10784.21	14800.0	60100.0
4	C07	22946.7	15	2694.40	19300.0	28800.0
5	C08P2	14820.0	15	3079.24	12200.0	24100.0
6	C09P2	4541.8	17	566.24	3480.0	5480.0
7	C15	16205.0	26	6017.57	5000.0	26200.0
8*	C17*	110961.9	21	10839.30	93200.0	129000.0
9	C20	12566.7	15	4083.18	10100.0	26900.0
10	C25	64230.8	13	5324.06	58200.0	72200.0
11	C26	14700.0	15	1231.14	12900.0	17900.0
12	C27	5395.0	14	822.45	4120.0	7400.0
13	C30	71393.3	15	13816.27	46200.0	92000.0
14	SPA	5236.3	19	2624.81	2840.0	11000.0
15	SPC	3625.8	19	1532.99	1750.0	6930.0
	All Grps	41663.7	249	54922.52	1750.0	303000.0

Table 7.66.

* Denotes Upgradient Well

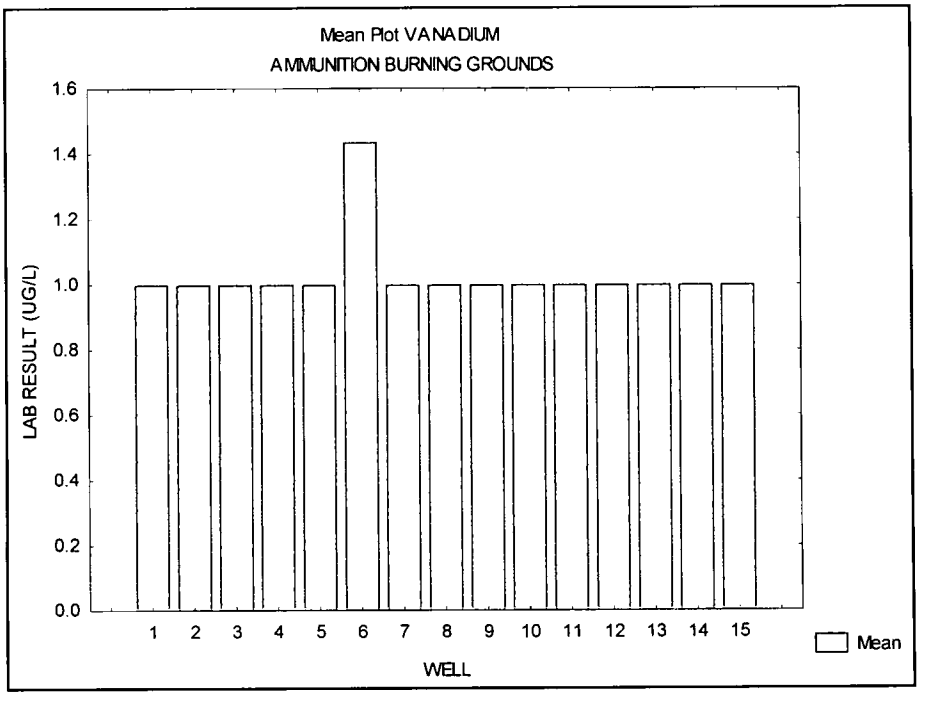


VANADIUM (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	1.000000	16	0.000000	1.000000	1.000000
2	C03	1.000000	16	0.000000	1.000000	1.000000
3	C04	1.000000	16	0.000000	1.000000	1.000000
4	C07	1.000000	16	0.000000	1.000000	1.000000
5	C08P2	1.000000	16	0.000000	1.000000	1.000000
6	C09P2	1.436842	19	0.769712	1.000000	3.200000
7	C15	1.000000	27	0.000000	1.000000	1.000000
8*	C17*	1.000000	23	0.000000	1.000000	1.000000
9	C20	1.000000	16	0.000000	1.000000	1.000000
10	C25	1.000000	14	0.000000	1.000000	1.000000
11	C26	1.000000	16	0.000000	1.000000	1.000000
12	C27	1.000000	15	0.000000	1.000000	1.000000
13	C30	1.000000	16	0.000000	1.000000	1.000000
14	SPA	1.000000	20	0.000000	1.000000	1.000000
15	SPC	1.000000	20	0.000000	1.000000	1.000000
	All Grps	1.031203	266	0.230103	1.000000	3.200000

Table 7.67.

* Denotes Upgradient Well

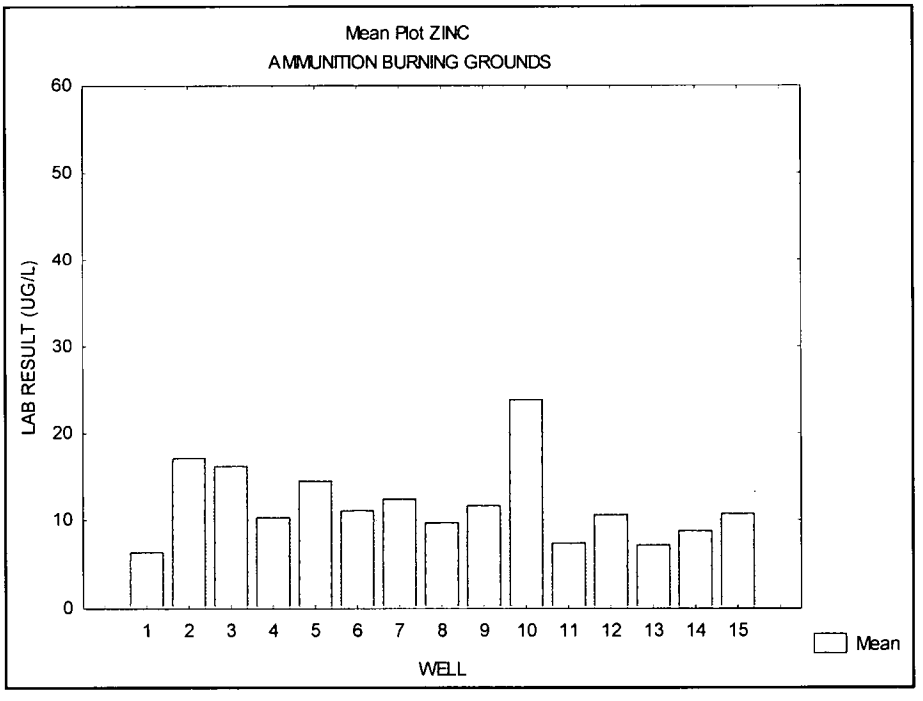


ZINC (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	6.39375	16	3.88852	5.000000	18.3000
2	C03	17.19375	16	40.34254	5.000000	167.0000
3	C04	16.28750	16	11.07880	5.000000	41.3000
4	C07	10.34667	15	14.63269	5.000000	60.7000
5	C08P2	14.58750	16	29.21006	5.000000	123.0000
6	C09P2	11.16842	19	12.67509	5.000000	43.7000
7	C15	12.48148	27	27.12701	5.000000	117.0000
8*	C17*	9.74783	23	10.26162	5.000000	40.1000
9	C20	11.71875	16	19.61983	5.000000	77.7000
10	C25	23.91429	14	50.85230	5.000000	193.0000
11	C26	7.43750	16	8.24305	5.000000	37.8000
12	C27	10.69333	15	12.44912	5.000000	41.3000
13	C30	7.23125	16	8.92500	5.000000	40.7000
14	SPA	8.85000	20	8.02414	5.000000	35.1000
15	SPC	10.79500	20	17.68539	5.000000	77.6000
	All Grps	11.73698	265	21.49633	5.000000	193.0000

Table 7.68.

* Denotes Upgradient Well

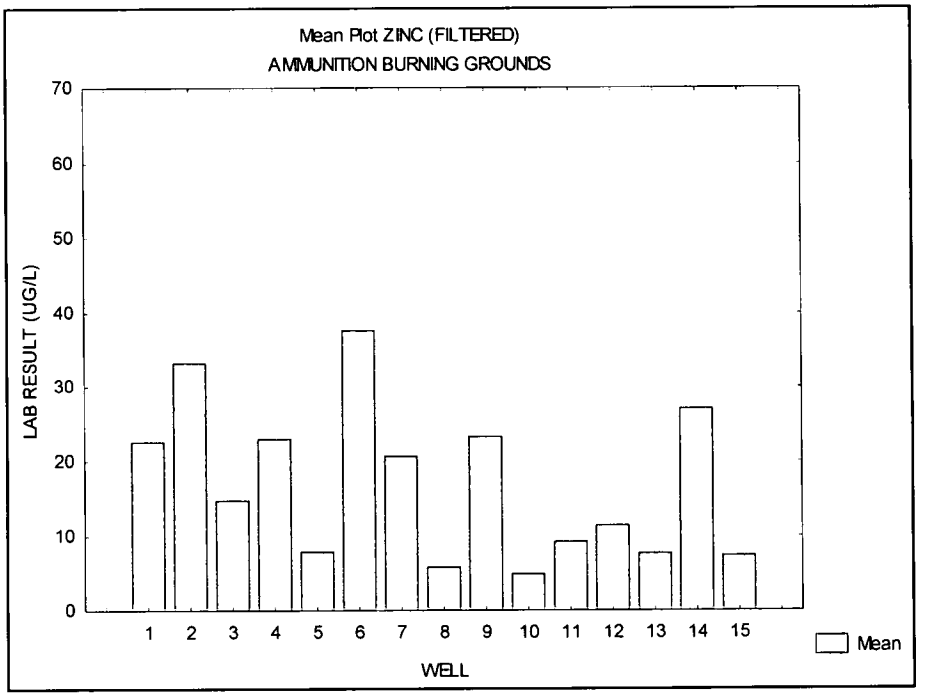


ZINC (FILTERED) (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	22.71250	16	54.78579	5.000000	217.0000
2	C03	33.46250	16	87.61953	5.000000	349.0000
3	C04	14.93750	16	24.93616	5.000000	84.8000
4	C07	23.08750	16	57.40054	5.000000	232.0000
5	C08P2	8.01250	16	9.46607	5.000000	41.9000
6	C09P2	37.78421	19	63.97653	5.000000	183.0000
7	C15	20.78148	27	56.53537	5.000000	286.0000
8*	C17*	5.93913	23	3.14003	5.000000	17.2000
9	C20	23.39375	16	47.20662	5.000000	188.0000
10	C25	5.00000	14	0.00000	5.000000	5.0000
11	C26	9.36250	16	12.27332	5.000000	47.9000
12	C27	11.54000	15	18.05210	5.000000	75.3000
13	C30	7.76250	16	11.05000	5.000000	49.2000
14	SPA	27.15000	20	66.82019	5.000000	287.0000
15	SPC	7.47500	20	6.65138	5.000000	30.2000
	All Grps	17.42444	266	44.82603	5.000000	349.0000

Table 7.69.

* Denotes Upgradient Well

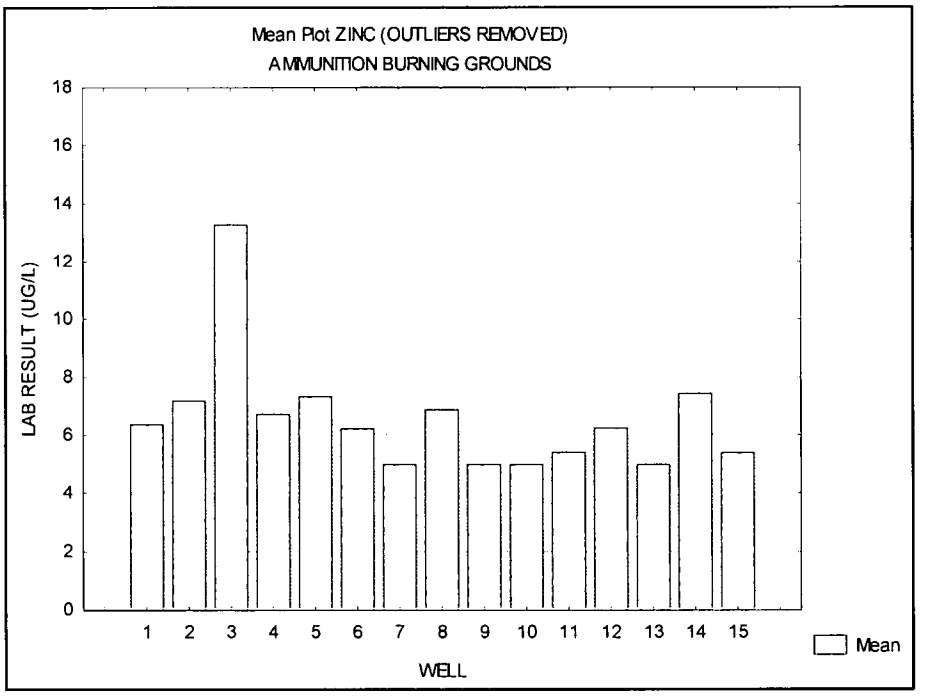


ZINC (OUTLIERS REMOVED) (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	6.39375	16	3.888525	5.000000	18.30000
2	C03	7.20667	15	5.823409	5.000000	21.60000
3	C04	13.29286	14	7.863691	5.000000	29.40000
4	C07	6.75000	14	4.649690	5.000000	20.70000
5	C08P2	7.36000	15	4.322665	5.000000	18.40000
6	C09P2	6.23750	16	4.950000	5.000000	24.80000
7	C15	5.00000	25	0.000000	5.000000	5.00000
8*	C17*	6.90476	21	4.266553	5.000000	19.90000
9	C20	5.00000	14	0.000000	5.000000	5.00000
10	C25	5.00000	11	0.000000	5.000000	5.00000
11	C26	5.41333	15	1.600833	5.000000	11.20000
12	C27	6.26154	13	4.548542	5.000000	21.40000
13	C30	5.00000	15	0.000000	5.000000	5.00000
14	SPA	7.46842	19	5.260022	5.000000	23.30000
15	SPC	5.41111	18	1.744197	5.000000	12.40000
	All Grps	6.52739	241	4.324099	5.000000	29.40000

Table 7.70.

* Denotes Upgradient Well

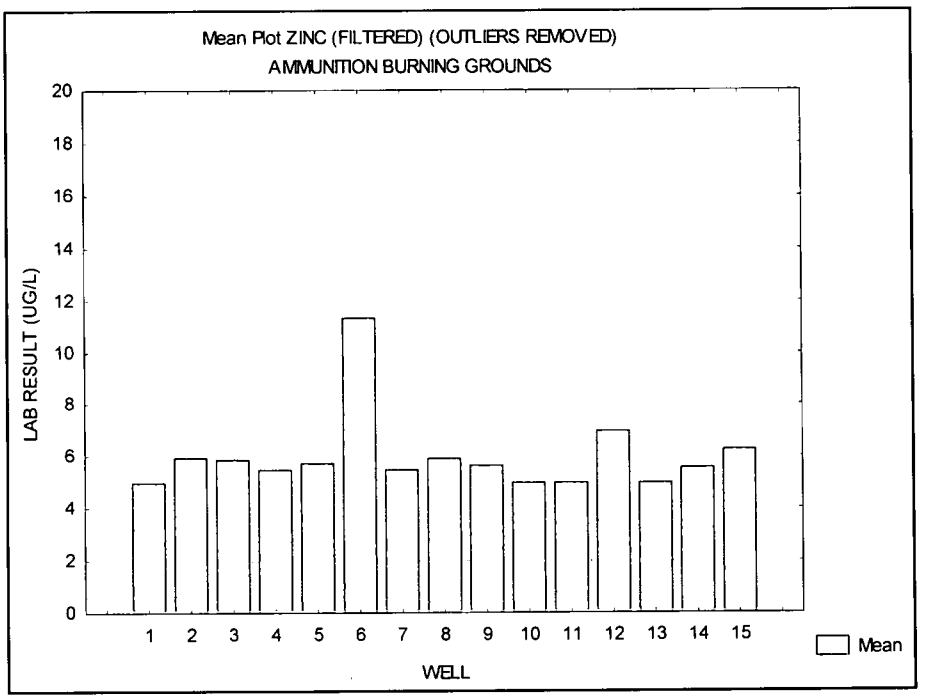


ZINC (FILTERED) (OUTLIERS REMOVED) (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	5.00000	14	0.00000	5.000000	5.00000
2	C03	5.95714	14	3.58130	5.000000	18.40000
3	C04	5.88571	14	2.25281	5.000000	11.40000
4	C07	5.49286	14	1.84410	5.000000	11.90000
5	C08P2	5.75333	15	2.91765	5.000000	16.30000
6	C09P2	11.36875	16	13.98388	5.000000	47.10000
7	C15	5.49167	24	2.40866	5.000000	16.80000
8*	C17*	5.93913	23	3.14003	5.000000	17.20000
9	C20	5.66154	13	2.38521	5.000000	13.60000
10	C25	5.00000	14	0.00000	5.000000	5.00000
11	C26	5.00000	14	0.00000	5.000000	5.00000
12	C27	6.98571	14	3.98630	5.000000	15.10000
13	C30	5.00000	15	0.00000	5.000000	5.00000
14	SPA	5.57647	17	2.37685	5.000000	14.80000
15	SPC	6.27895	19	4.06182	5.000000	21.20000
	All Grps	6.04083	240	4.52344	5.000000	47.10000

Table 7.71.

* Denotes Upgradient Well



VOLATILE ORGANIC COMPOUNDS

AMMUNITION BURNING GROUNDS

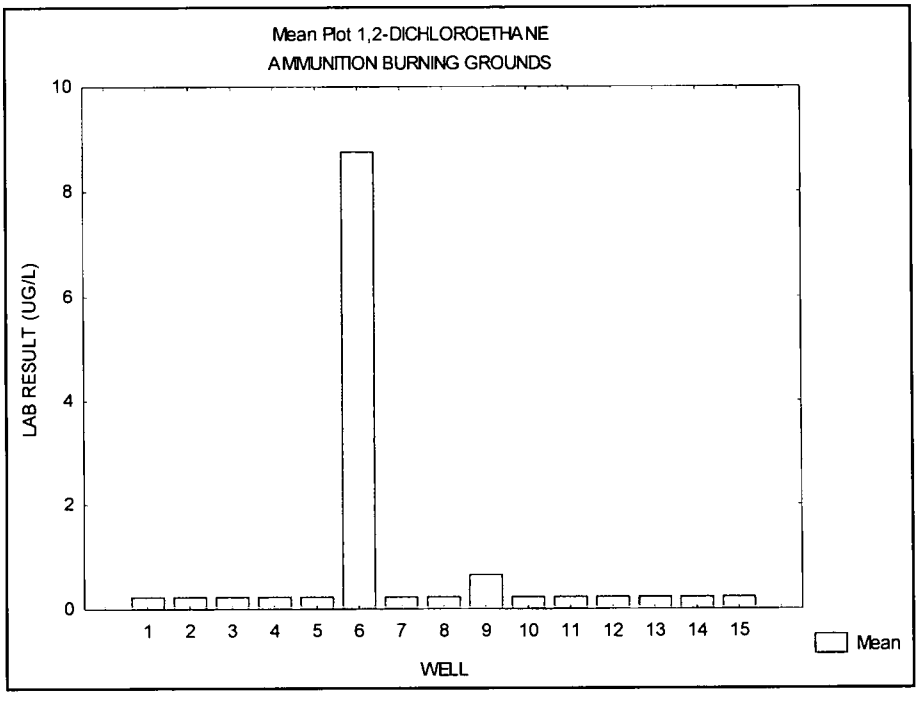
Tables 7.72 through 7.78

1,2-DICHLOROETHANE (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	0.250000	5	0.000000	0.250000	0.250000
2	C03	0.250000	7	0.000000	0.250000	0.250000
3	C04	0.250000	8	0.000000	0.250000	0.250000
4	C07	0.250000	6	0.000000	0.250000	0.250000
5	C08P2	0.250000	5	0.000000	0.250000	0.250000
6	C09P2	8.760000	5	1.003992	7.200000	9.600000
7	C15	0.250000	9	0.000000	0.250000	0.250000
8*	C17*	0.250000	7	0.000000	0.250000	0.250000
9	C20	0.671996	5	0.270497	0.250000	0.910000
10	C25	0.250000	7	0.000000	0.250000	0.250000
11	C26	0.250000	5	0.000000	0.250000	0.250000
12	C27	0.250000	5	0.000000	0.250000	0.250000
13	C30	0.250000	5	0.000000	0.250000	0.250000
14	SPA	0.250000	11	0.000000	0.250000	0.250000
15	SPC	0.250000	11	0.000000	0.250000	0.250000
	All Grps	0.692178	101	1.864317	0.250000	9.600000

Table 7.72.

* Denotes Upgradient Well

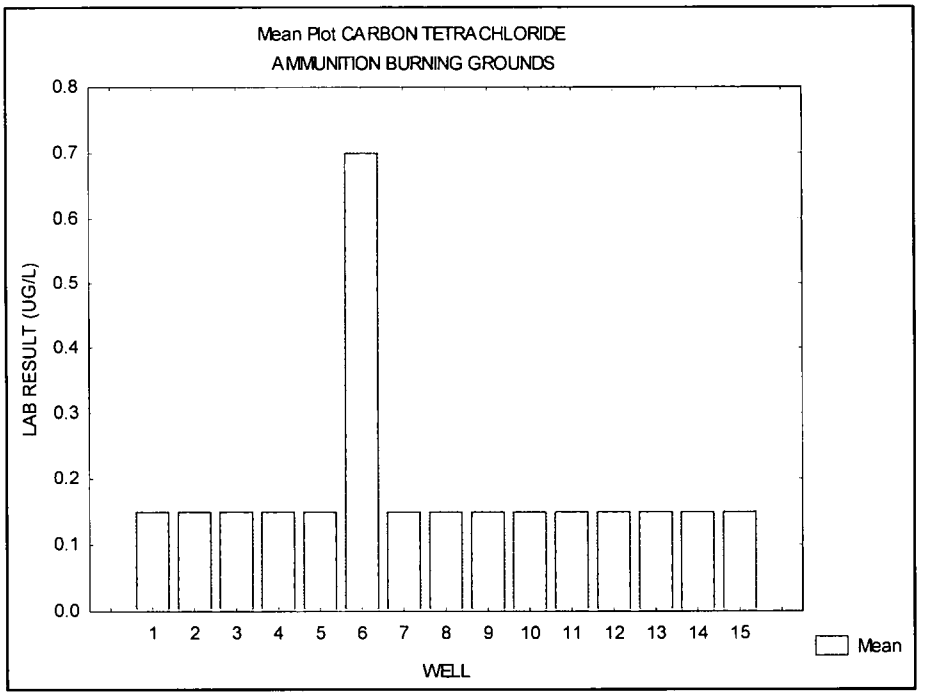


CARBON TETRACHLORIDE (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	0.150000	4	0.000000	0.150000	0.150000
2	C03	0.150000	6	0.000000	0.150000	0.150000
3	C04	0.150000	7	0.000000	0.150000	0.150000
4	C07	0.150000	5	0.000000	0.150000	0.150000
5	C08P2	0.150000	4	0.000000	0.150000	0.150000
6	C09P2	0.699998	4	0.081650	0.600000	0.800000
7	C15	0.150000	7	0.000000	0.150000	0.150000
8*	C17*	0.150000	5	0.000000	0.150000	0.150000
9	C20	0.150000	4	0.000000	0.150000	0.150000
10	C25	0.150000	6	0.000000	0.150000	0.150000
11	C26	0.150000	4	0.000000	0.150000	0.150000
12	C27	0.150000	4	0.000000	0.150000	0.150000
13	C30	0.150000	4	0.000000	0.150000	0.150000
14	SPA	0.150000	10	0.000000	0.150000	0.150000
15	SPC	0.150000	10	0.000000	0.150000	0.150000
	All Grps	0.176190	84	0.118848	0.150000	0.800000

Table 7.73.

* Denotes Upgradient Well

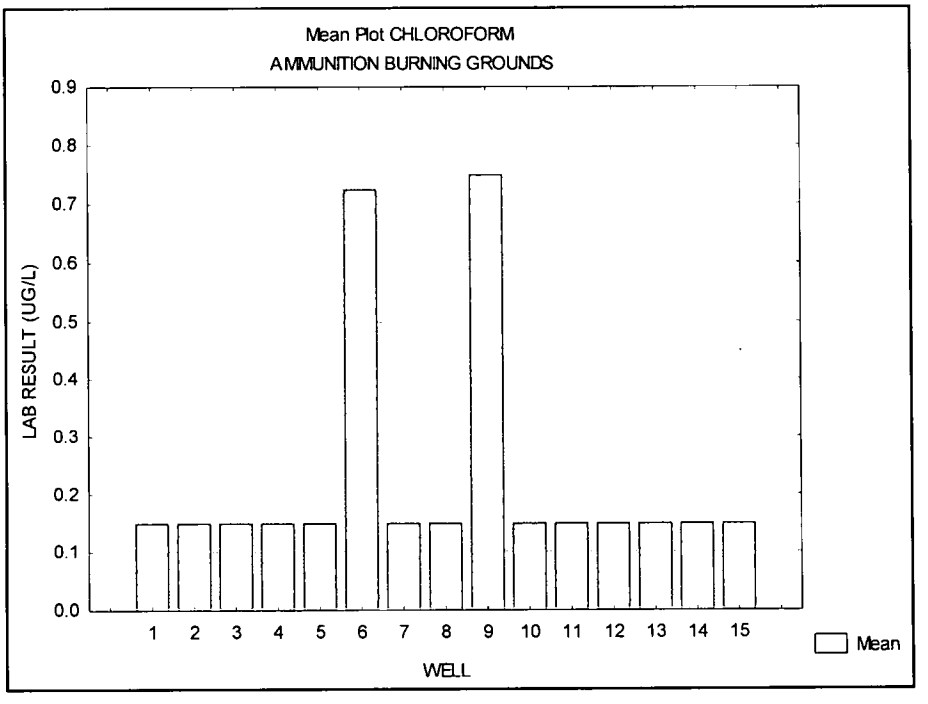


CHLOROFORM (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	0.150000	4	0.000000	0.150000	0.150000
2	C03	0.150000	6	0.000000	0.150000	0.150000
3	C04	0.150000	7	0.000000	0.150000	0.150000
4	C07	0.150000	5	0.000000	0.150000	0.150000
5	C08P2	0.150000	4	0.000000	0.150000	0.150000
6	C09P2	0.724995	4	0.050003	0.699990	0.800000
7	C15	0.150000	7	0.000000	0.150000	0.150000
8*	C17*	0.150000	5	0.000000	0.150000	0.150000
9	C20	0.749998	4	0.129096	0.600000	0.899990
10	C25	0.150000	6	0.000000	0.150000	0.150000
11	C26	0.150000	4	0.000000	0.150000	0.150000
12	C27	0.150000	4	0.000000	0.150000	0.150000
13	C30	0.150000	4	0.000000	0.150000	0.150000
14	SPA	0.150000	10	0.000000	0.150000	0.150000
15	SPC	0.150000	10	0.000000	0.150000	0.150000
	All Grps	0.205952	84	0.175520	0.150000	0.899990

Table 7.74.

* Denotes Upgradient Well

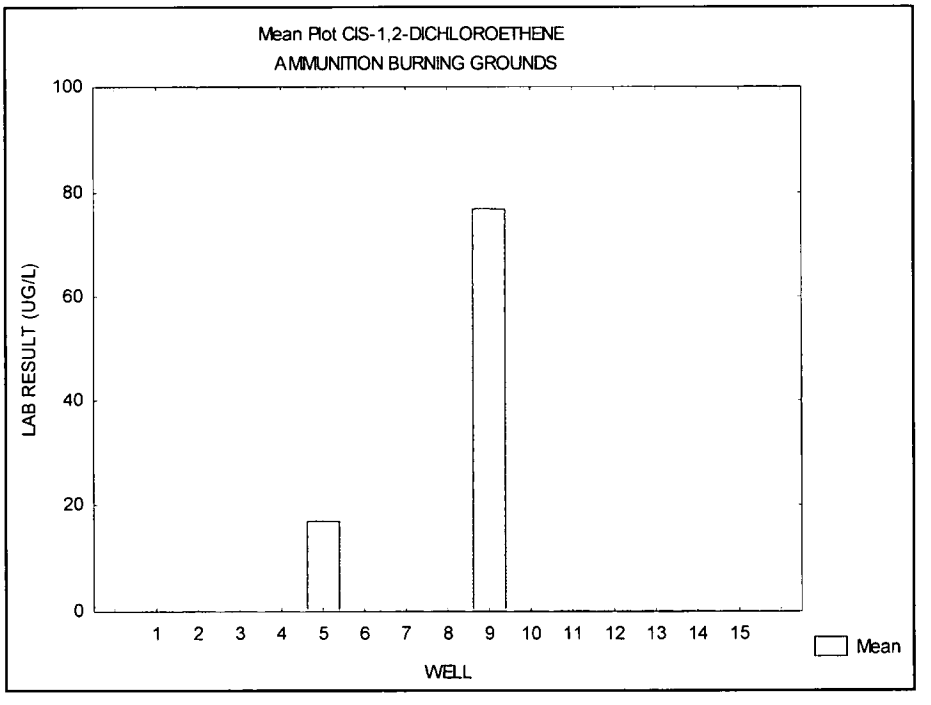


CIS-1,2-DICHLOROETHENE (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	0.40000	16	0.53697	0.25000	2.4000
2	C03	0.25000	15	0.00000	0.25000	0.2500
3	C04	0.25000	16	0.00000	0.25000	0.2500
4	C07	0.25000	16	0.00000	0.25000	0.2500
5	C08P2	17.06250	16	1.52616	14.00000	19.0000
6	C09P2	0.45526	19	0.61484	0.25000	2.2000
7	C15	0.25000	27	0.00000	0.25000	0.2500
8*	C17*	0.25000	23	0.00000	0.25000	0.2500
9	C20	77.07813	16	24.51457	0.25000	100.0000
10	C25	0.25000	14	0.00000	0.25000	0.2500
11	C26	0.38438	16	0.53750	0.25000	2.4000
12	C27	0.25000	15	0.00000	0.25000	0.2500
13	C30	0.25000	16	0.00000	0.25000	0.2500
14	SPA	0.25000	20	0.00000	0.25000	0.2500
15	SPC	0.25000	20	0.00000	0.25000	0.2500
	All Grps	5.93566	265	19.41017	0.25000	100.0000

Table 7.75.

* Denotes Upgradient Well

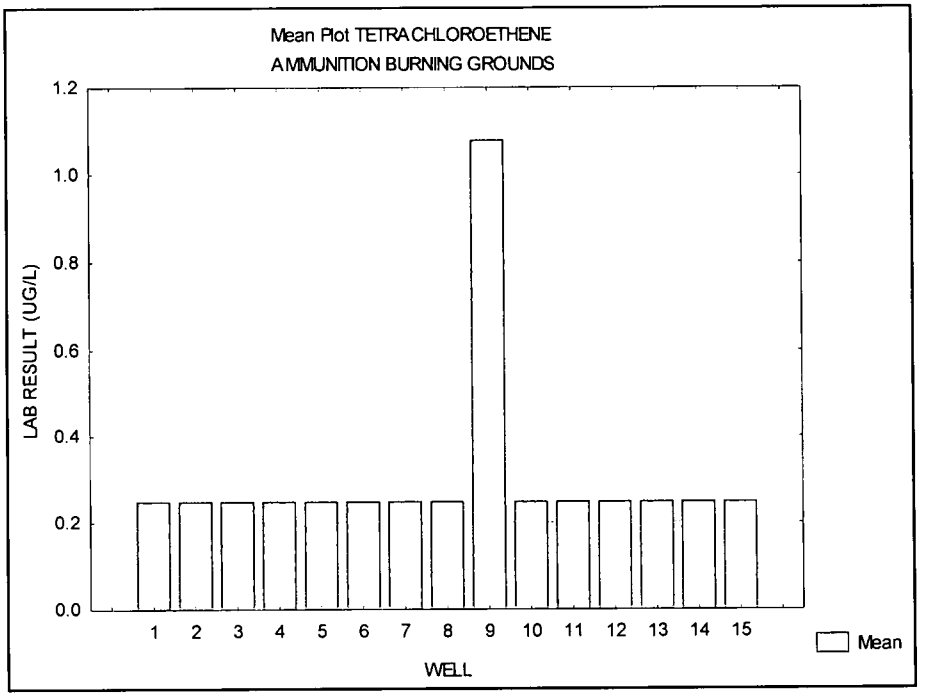


TETRACHLOROETHENE (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	0.250000	5	0.000000	0.250000	0.250000
2	C03	0.250000	7	0.000000	0.250000	0.250000
3	C04	0.250000	8	0.000000	0.250000	0.250000
4	C07	0.250000	6	0.000000	0.250000	0.250000
5	C08P2	0.250000	5	0.000000	0.250000	0.250000
6	C09P2	0.250000	5	0.000000	0.250000	0.250000
7	C15	0.250000	9	0.000000	0.250000	0.250000
8*	C17*	0.250000	7	0.000000	0.250000	0.250000
9	C20	1.080000	5	0.044721	1.000000	1.100000
10	C25	0.250000	7	0.000000	0.250000	0.250000
11	C26	0.250000	5	0.000000	0.250000	0.250000
12	C27	0.250000	5	0.000000	0.250000	0.250000
13	C30	0.250000	5	0.000000	0.250000	0.250000
14	SPA	0.250000	11	0.000000	0.250000	0.250000
15	SPC	0.250000	11	0.000000	0.250000	0.250000
	All Grps	0.291089	101	0.181162	0.250000	1.100000

Table 7.76.

* Denotes Upgradient Well

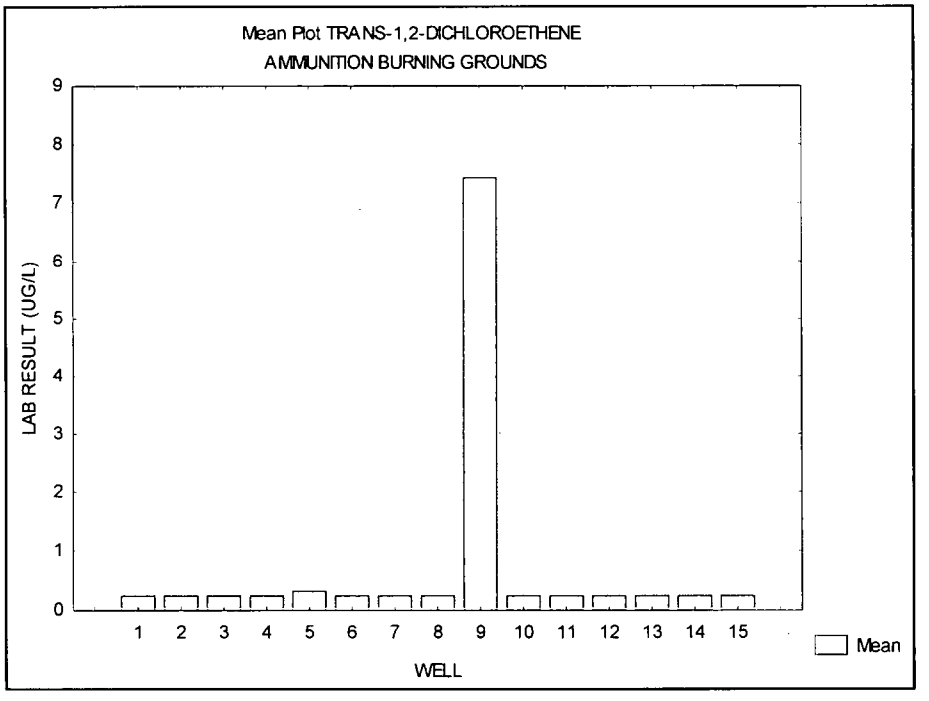


TRANS-1,2-DICHLOROETHENE (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	0.250000	16	0.000000	0.250000	0.250000
2	C03	0.250000	15	0.000000	0.250000	0.250000
3	C04	0.250000	16	0.000000	0.250000	0.250000
4	C07	0.250000	16	0.000000	0.250000	0.250000
5	C08P2	0.337500	16	0.255930	0.250000	1.200000
6	C09P2	0.250000	19	0.000000	0.250000	0.250000
7	C15	0.250000	27	0.000000	0.250000	0.250000
8*	C17*	0.250000	23	0.000000	0.250000	0.250000
9	C20	7.437500	16	1.039792	5.500000	9.400000
10	C25	0.250000	14	0.000000	0.250000	0.250000
11	C26	0.250000	16	0.000000	0.250000	0.250000
12	C27	0.250000	15	0.000000	0.250000	0.250000
13	C30	0.250000	16	0.000000	0.250000	0.250000
14	SPA	0.250000	20	0.000000	0.250000	0.250000
15	SPC	0.250000	20	0.000000	0.250000	0.250000
	All Grps	0.689245	265	1.732878	0.250000	9.400000

Table 7.77.

* Denotes Upgradient Well

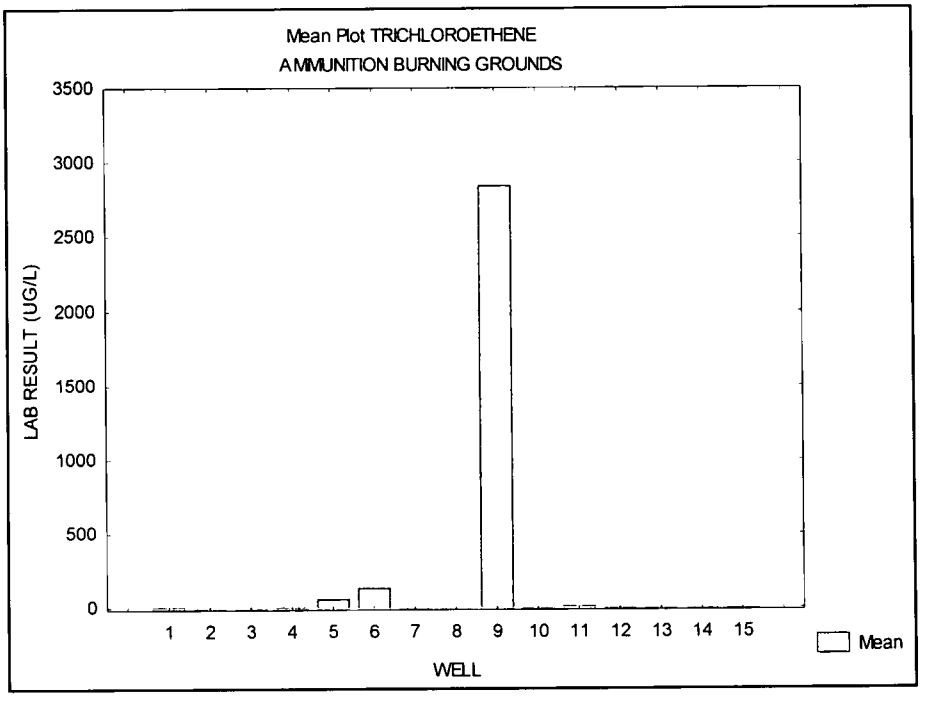


TRICHLOROETHENE (UG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	6.844	16	3.7184	2.300	12.000
2	C03	0.250	15	0.0000	0.250	0.250
3	C04	0.381	16	0.1861	0.250	0.800
4	C07	5.616	16	4.1252	0.250	20.000
5	C08P2	62.000	16	7.2755	47.000	77.000
6	C09P2	136.171	19	43.5893	0.250	190.000
7	C15	0.263	27	0.0674	0.250	0.600
8*	C17*	0.274	23	0.1147	0.250	0.800
9	C20	2843.750	16	761.5500	1500.000	4500.000
10	C25	0.250	14	0.0000	0.250	0.250
11	C26	11.180	15	2.5197	8.200	17.000
12	C27	4.453	15	2.4071	3.000	13.000
13	C30	0.250	16	0.0000	0.250	0.250
14	SPA	0.250	20	0.0000	0.250	0.250
15	SPC	0.250	20	0.0000	0.250	0.250
	All Grps	187.704	264	701.0080	0.250	4500.000

Table 7.78.

* Denotes Upgradient Well



MISCELLANEOUS PARAMETERS

AMMUNITION BURNING GROUNDS

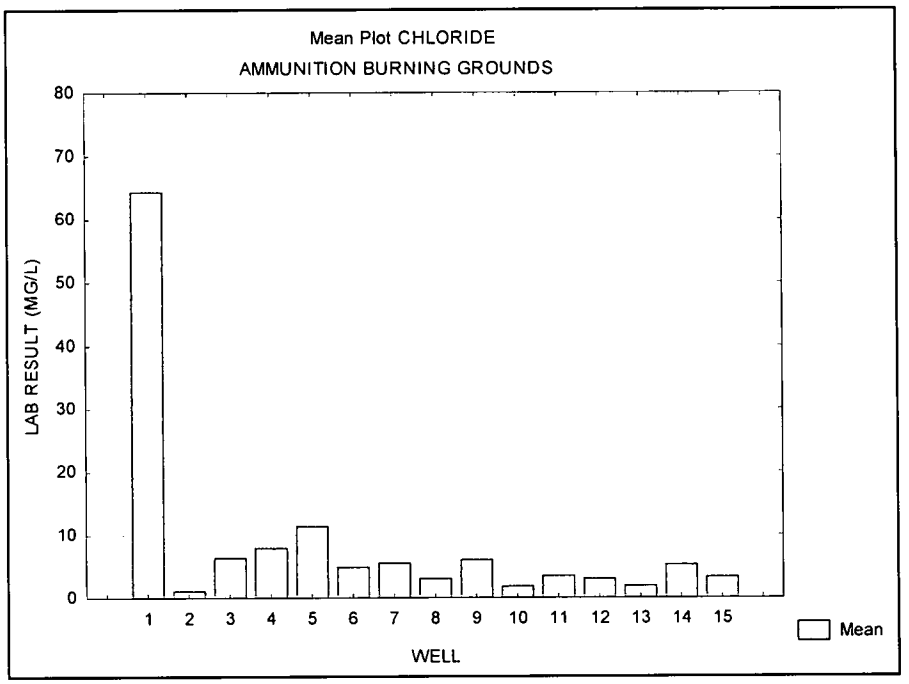
Tables 7.79 through 7.84

CHLORIDE (MG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	64.50000	16	23.04199	22.00000	100.0000
2	C03	1.26875	16	0.47710	0.50000	2.0000
3	C04	6.51250	16	1.46600	2.00000	8.0000
4	C07	8.07500	16	1.64580	3.00000	10.0000
5	C08P2	11.50000	16	2.44949	6.00000	18.0000
6	C09P2	5.02105	19	0.26579	4.50000	6.0000
7	C15	5.65556	27	0.73920	4.10000	7.0000
8*	C17*	3.20000	23	0.38494	3.00000	4.0000
9	C20	6.15625	16	0.86946	5.00000	9.0000
10	C25	1.97143	14	0.07263	1.80000	2.0000
11	C26	3.65625	16	0.59326	2.00000	4.0000
12	C27	3.14667	15	0.35024	3.00000	4.0000
13	C30	1.99375	16	0.02500	1.90000	2.0000
14	SPA	5.34500	20	3.53054	2.00000	14.0000
15	SPC	3.43000	20	1.43641	1.00000	7.0000
	All Grps	8.38571	266	15.49651	0.50000	100.0000

Table 7.79.

* Denotes Upgradient Well

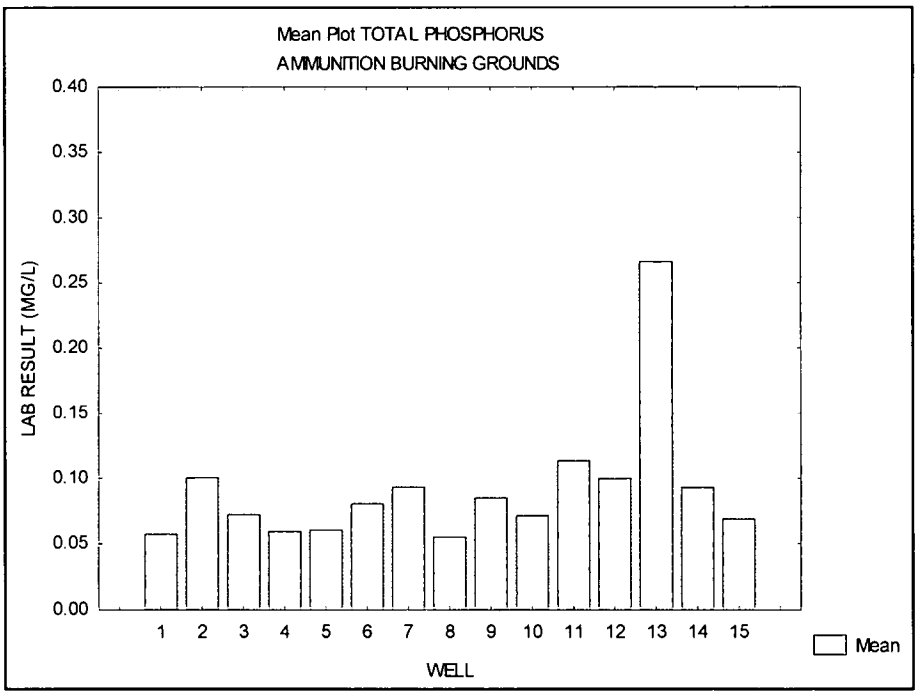


TOTAL PHOSPHORUS (MG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	0.057499	16	0.020490	0.050000	0.109990
2	C03	0.100624	16	0.179904	0.050000	0.769990
3	C04	0.072499	16	0.066582	0.050000	0.300000
4	C07	0.059375	16	0.037500	0.050000	0.200000
5	C08P2	0.060624	16	0.042498	0.050000	0.219990
6	C09P2	0.080526	19	0.046960	0.050000	0.230000
7	C15	0.093703	27	0.165368	0.050000	0.899990
8*	C17*	0.055217	23	0.025022	0.050000	0.170000
9	C20	0.084999	16	0.088844	0.050000	0.400000
10	C25	0.071428	14	0.080176	0.050000	0.349990
11	C26	0.113750	16	0.183734	0.050000	0.720000
12	C27	0.100000	15	0.193649	0.050000	0.800000
13	C30	0.266874	16	0.479190	0.050000	1.900000
14	SPA	0.092999	20	0.098626	0.050000	0.370000
15	SPC	0.068999	20	0.063979	0.050000	0.319990
	All Grps	0.090714	266	0.161581	0.050000	1.900000

Table 7.80.

* Denotes Upgradient Well

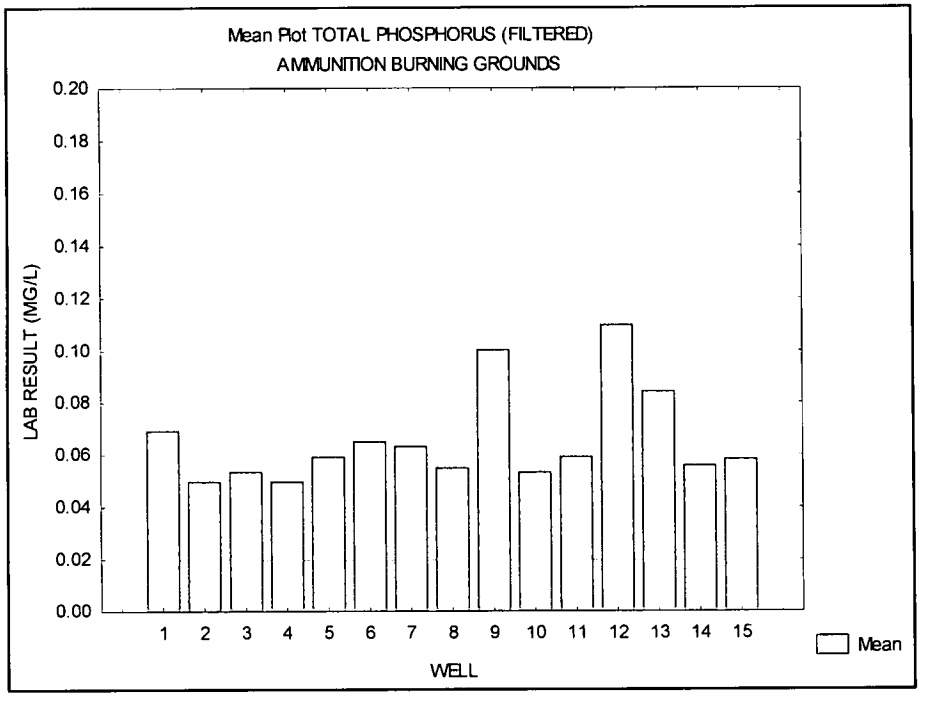


TOTAL PHOSPHORUS (FILTERED) (MG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	0.069374	16	0.045528	0.050000	0.200000
2	C03	0.050000	16	0.000000	0.050000	0.050000
3	C04	0.053749	16	0.014998	0.050000	0.109990
4	C07	0.050000	16	0.000000	0.050000	0.050000
5	C08P2	0.059375	16	0.037500	0.050000	0.200000
6	C09P2	0.065263	19	0.045990	0.050000	0.209990
7	C15	0.063333	27	0.038828	0.050000	0.189990
8*	C17*	0.055217	23	0.017546	0.050000	0.119990
9	C20	0.100623	16	0.115727	0.050000	0.500000
10	C25	0.053571	14	0.013363	0.050000	0.100000
11	C26	0.059375	16	0.027195	0.050000	0.150000
12	C27	0.109999	15	0.218923	0.050000	0.899990
13	C30	0.084375	16	0.137500	0.050000	0.600000
14	SPA	0.056000	20	0.018749	0.050000	0.119990
15	SPC	0.058500	20	0.028521	0.050000	0.170000
	All Grps	0.065188	266	0.072799	0.050000	0.899990

Table 7.81.

* Denotes Upgradient Well

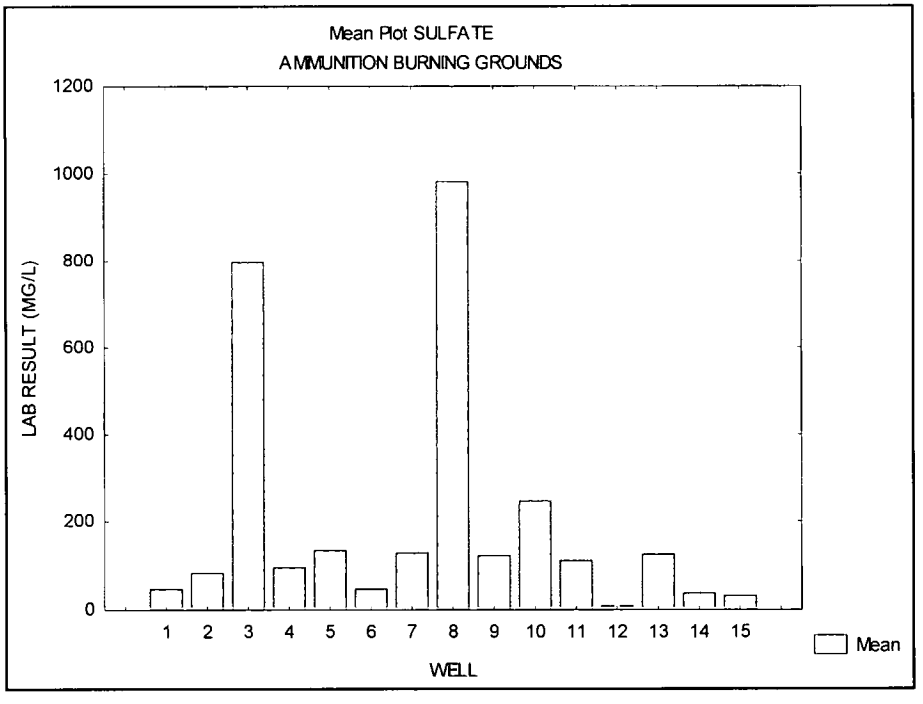


SULFATE (MG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	48.1765	17	15.4525	28.0000	71.000
2	C03	84.1176	17	3.9192	76.0000	93.000
3	C04	798.1250	16	223.0760	30.0000	1000.000
4	C07	96.1250	16	13.7156	79.0000	140.000
5	C08P2	135.6250	16	9.6393	110.0000	150.000
6	C09P2	48.2000	20	5.8092	39.0000	62.000
7	C15	129.6296	27	34.3961	78.0000	200.000
8*	C17*	983.2609	23	221.4190	75.0000	1300.000
9	C20	123.5294	17	7.0189	110.0000	140.000
10	C25	248.5714	14	20.3270	190.0000	270.000
11	C26	112.3529	17	15.6243	100.0000	150.000
12	C27	9.7500	16	1.1832	8.0000	13.000
13	C30	126.8750	16	8.7321	110.0000	140.000
14	SPA	38.4500	20	14.8907	24.0000	73.000
15	SPC	32.8000	20	19.8271	15.0000	98.000
	All Grps	209.2169	272	304.7077	8.0000	1300.000

Table 7.82.

* Denotes Upgradient Well

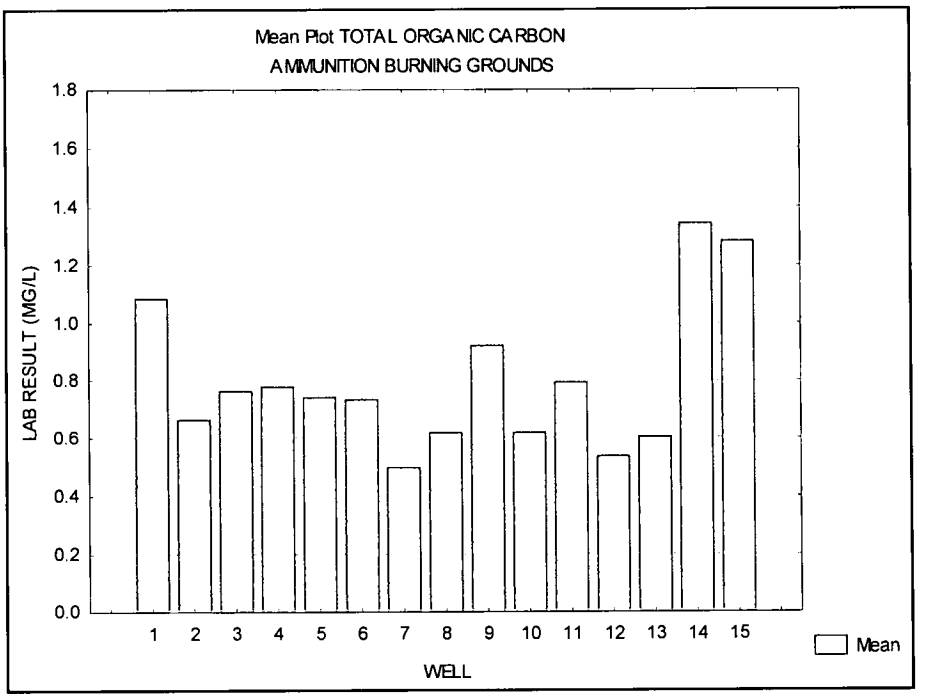


TOTAL ORGANIC CARBON (MG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	1.087500	16	0.871684	0.500000	3.900000
2	C03	0.666667	15	0.503795	0.500000	2.400000
3	C04	0.766667	15	0.712808	0.500000	2.800000
4	C07	0.781250	16	0.499625	0.500000	2.200000
5	C08P2	0.743750	16	0.535374	0.500000	2.500000
6	C09P2	0.736842	19	0.501343	0.500000	2.500000
7	C15	0.500000	27	0.000000	0.500000	0.500000
8*	C17*	0.621739	23	0.277909	0.500000	1.400000
9	C20	0.925000	16	0.657774	0.500000	2.700000
10	C25	0.621429	14	0.454344	0.500000	2.200000
11	C26	0.793750	16	0.603842	0.500000	2.300000
12	C27	0.540000	15	0.154919	0.500000	1.100000
13	C30	0.605882	17	0.300979	0.500000	1.500000
14	SPA	1.345000	20	0.566127	0.500000	2.800000
15	SPC	1.285000	20	0.718386	0.500000	3.200000
	All Grps	0.801132	265	0.572573	0.500000	3.900000

Table 7.83.

* Denotes Upgradient Well

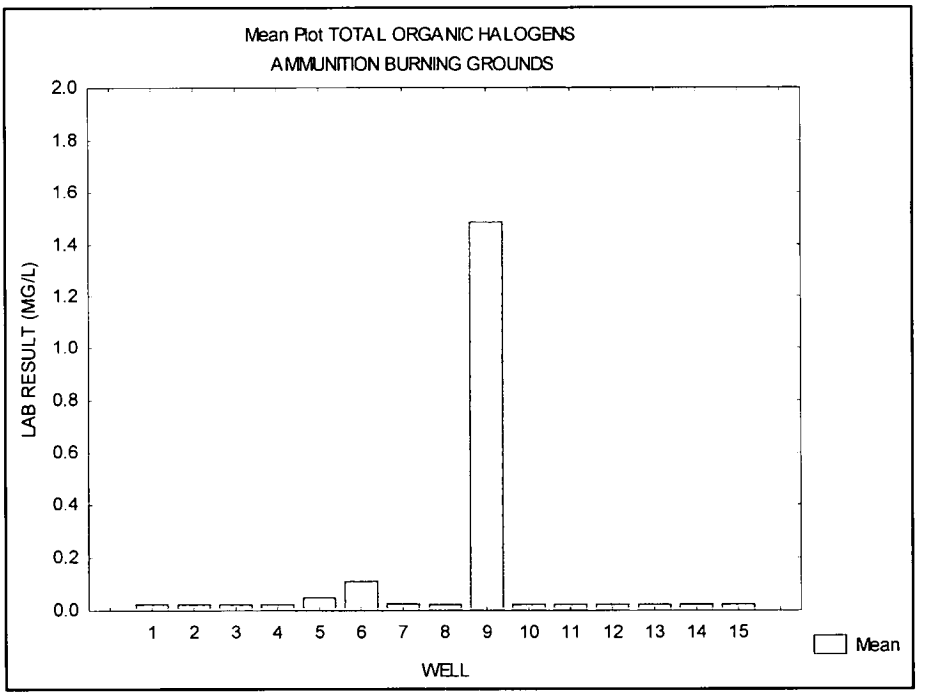


TOTAL ORGANIC HALOGENS (MG/L)
AMMUNITION BURNING GROUNDS

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02P2	0.025000	16	0.000000	0.025000	0.025000
2	C03	0.025000	17	0.000000	0.025000	0.025000
3	C04	0.025000	16	0.000000	0.025000	0.025000
4	C07	0.025000	16	0.000000	0.025000	0.025000
5	C08P2	0.050311	16	0.021638	0.025000	0.090000
6	C09P2	0.113154	19	0.040932	0.025000	0.189990
7	C15	0.027222	27	0.008126	0.025000	0.060000
8*	C17*	0.025000	23	0.000000	0.025000	0.025000
9	C20	1.489062	16	0.673485	0.025000	2.700000
10	C25	0.025000	14	0.000000	0.025000	0.025000
11	C26	0.025000	16	0.000000	0.025000	0.025000
12	C27	0.025000	15	0.000000	0.025000	0.025000
13	C30	0.025000	15	0.000000	0.025000	0.025000
14	SPA	0.025000	20	0.000000	0.025000	0.025000
15	SPC	0.025000	20	0.000000	0.025000	0.025000
	All Grps	0.121109	266	0.382836	0.025000	2.700000

Table 7.84.

* Denotes Upgradient Well



EXPLOSIVES

OLD RIFLE RANGE
BEECH CREEK AQUIFER

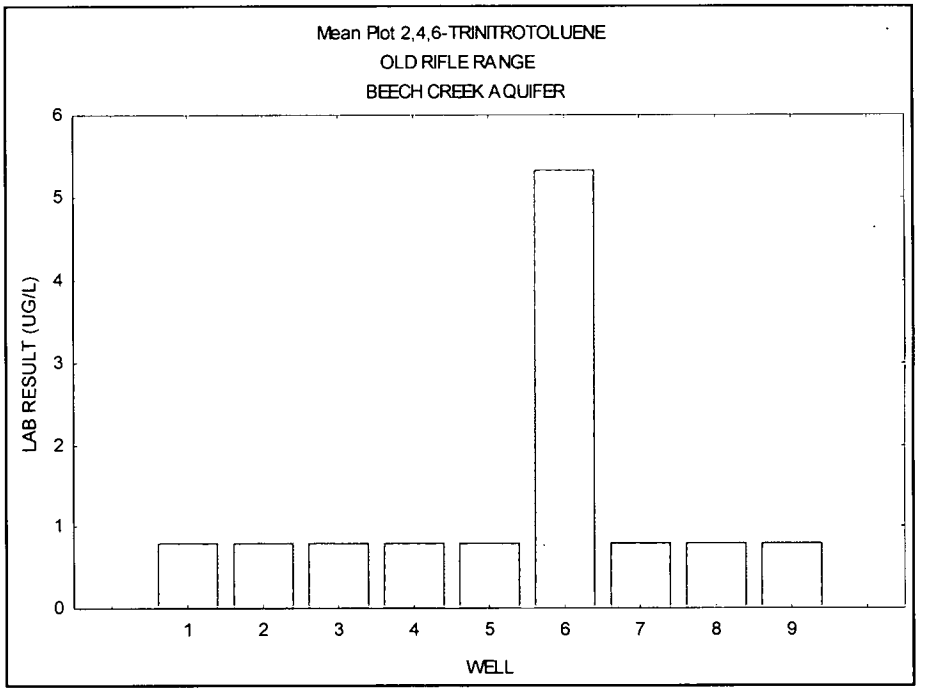
Tables 7.85 through 7.87

2,4,6-TRINITROTOLUENE (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	0.800000	16	0.000000	0.800000	0.800000
2	C11	0.800000	16	0.000000	0.800000	0.800000
3	C12	0.800000	20	0.000000	0.800000	0.800000
4	C13	0.800000	17	0.000000	0.800000	0.800000
5	C14	0.800000	18	0.000000	0.800000	0.800000
6	C15	5.329167	24	1.643559	0.800000	7.800000
7	C16	0.800000	20	0.000000	0.800000	0.800000
8	C18	0.800000	17	0.000000	0.800000	0.800000
9	C19	0.800000	17	0.000000	0.800000	0.800000
	All Grps	1.458788	165	1.715851	0.800000	7.800000

Table 7.85.

* Denotes Upgradient Well

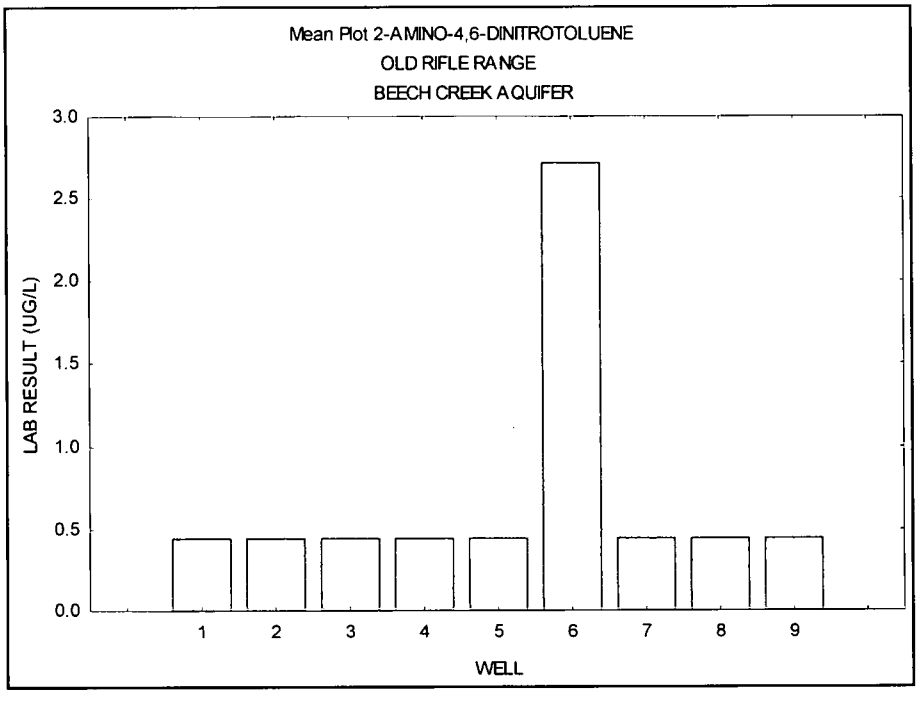


2-AMINO-4,6-DINITROTOLUENE (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	0.450000	16	0.000000	0.450000	0.450000
2	C11	0.450000	16	0.000000	0.450000	0.450000
3	C12	0.450000	20	0.000000	0.450000	0.450000
4	C13	0.450000	17	0.000000	0.450000	0.450000
5	C14	0.450000	18	0.000000	0.450000	0.450000
6	C15	2.720833	24	0.510736	2.000000	3.700000
7	C16	0.450000	20	0.000000	0.450000	0.450000
8	C18	0.450000	17	0.000000	0.450000	0.450000
9	C19	0.450000	17	0.000000	0.450000	0.450000
	All Grps	0.780303	165	0.825502	0.450000	3.700000

Table 7.86.

* Denotes Upgradient Well

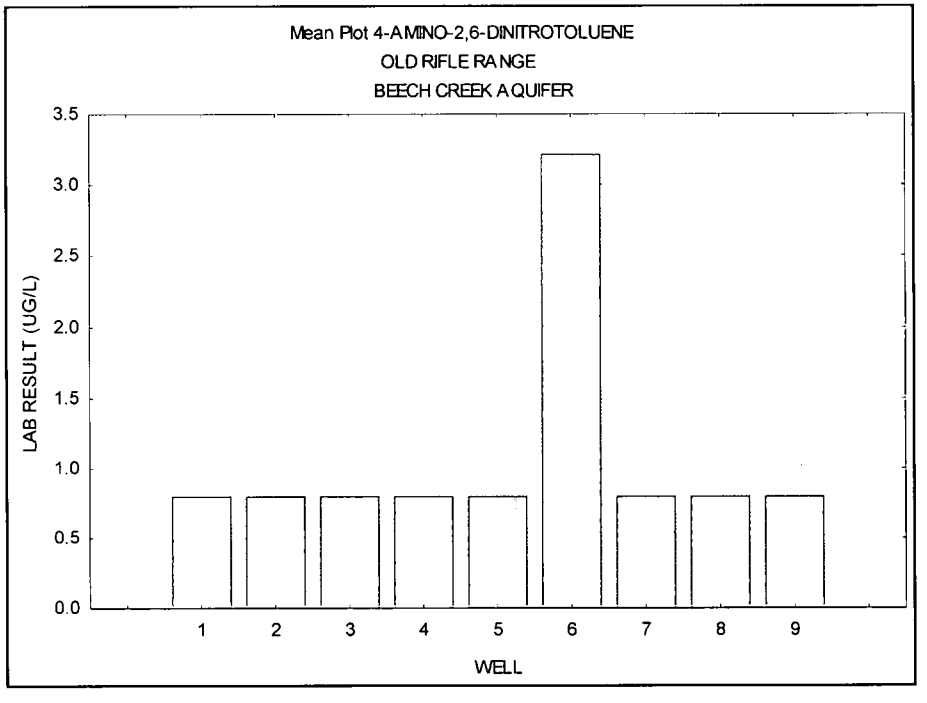


4-AMINO-2,6-DINITROTOLUENE (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	0.800000	16	0.000000	0.800000	0.800000
2	C11	0.800000	16	0.000000	0.800000	0.800000
3	C12	0.800000	20	0.000000	0.800000	0.800000
4	C13	0.800000	17	0.000000	0.800000	0.800000
5	C14	0.800000	18	0.000000	0.800000	0.800000
6	C15	3.216667	24	0.652531	2.200000	4.400000
7	C16	0.800000	20	0.000000	0.800000	0.800000
8	C18	0.800000	17	0.000000	0.800000	0.800000
9	C19	0.800000	17	0.000000	0.800000	0.800000
	All Grps	1.151515	165	0.888861	0.800000	4.400000

Table 7.87.

* Denotes Upgradient Well



METALS

OLD RIFLE RANGE
BEECH CREEK AQUIFER

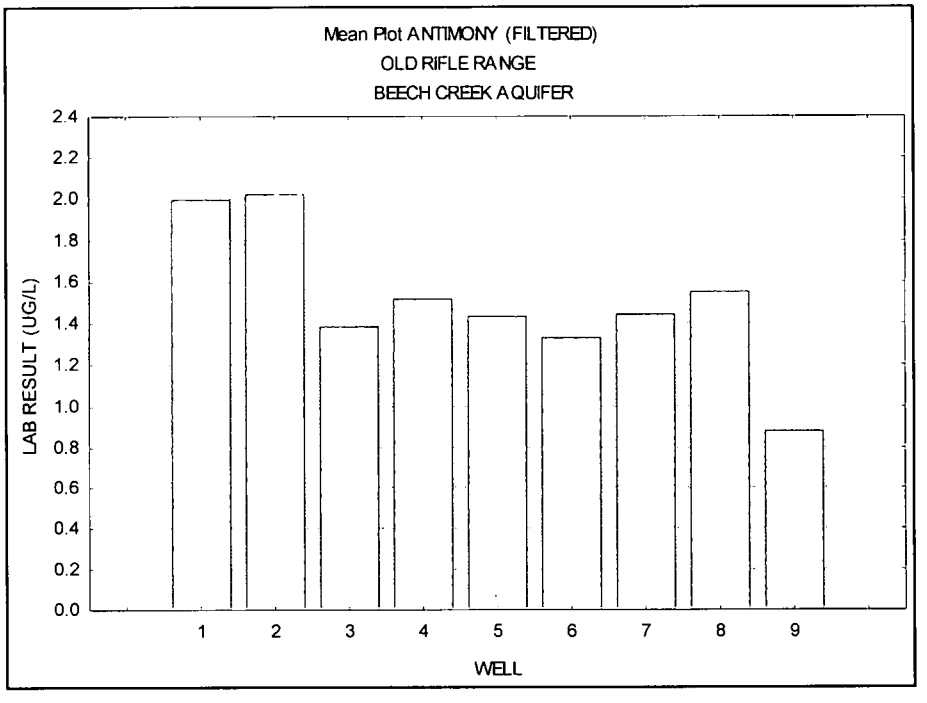
Tables 7.88 through 7.111

ANTIMONY (FILTERED) (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	2.000000	16	1.123684	0.500000	3.500000
2	C11	2.025000	16	0.984886	0.500000	3.500000
3	C12	1.385000	20	0.898112	0.500000	2.700000
4	C13	1.517647	17	0.876239	0.500000	2.900000
5	C14	1.433333	18	0.943086	0.500000	2.700000
6	C15	1.330435	23	0.994272	0.500000	2.900000
7	C16	1.442857	21	0.978556	0.500000	3.000000
8	C18	1.552941	17	1.016807	0.500000	3.100000
9	C19	0.882353	17	0.636627	0.500000	2.700000
	All Grps	1.490909	165	0.975793	0.500000	3.500000

Table 7.88.

* Denotes Upgradient Well

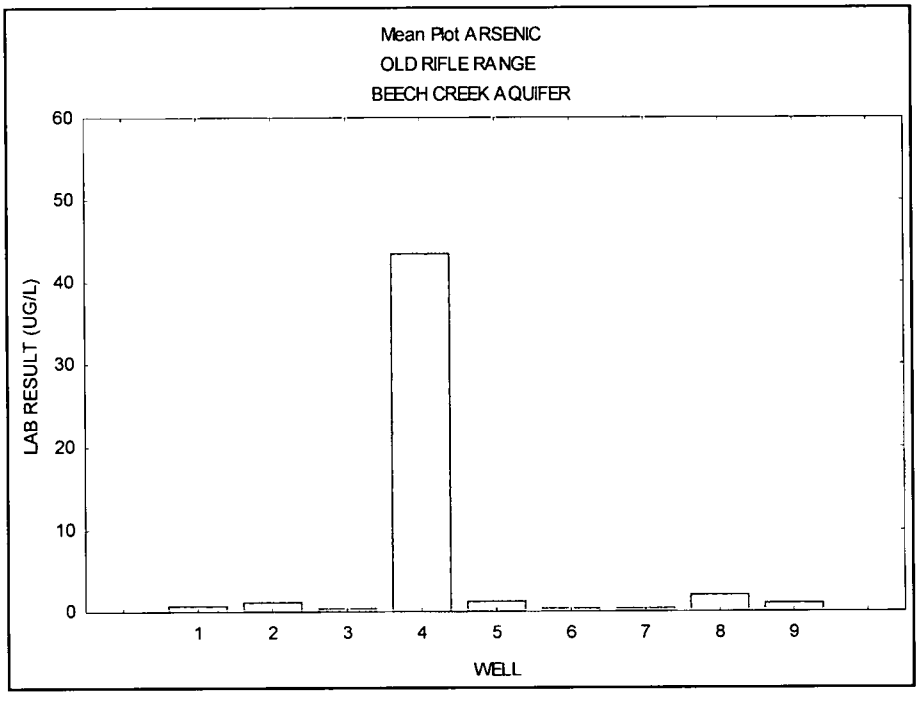


ARSENIC (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	0.81250	16	0.49109	0.50000	1.7000
2	C11	1.28125	16	0.69973	0.50000	2.6000
3	C12	0.50000	20	0.00000	0.50000	0.5000
4	C13	43.59412	17	21.07331	29.60000	114.0000
5	C14	1.33889	18	1.09981	0.50000	4.1000
6	C15	0.50000	24	0.00000	0.50000	0.5000
7	C16	0.50000	20	0.00000	0.50000	0.5000
8	C18	2.13529	17	0.12217	2.00000	2.4000
9	C19	1.11176	17	0.43572	0.50000	1.8000
	All Grps	5.36909	165	14.58258	0.50000	114.0000

Table 7.89.

* Denotes Upgradient Well

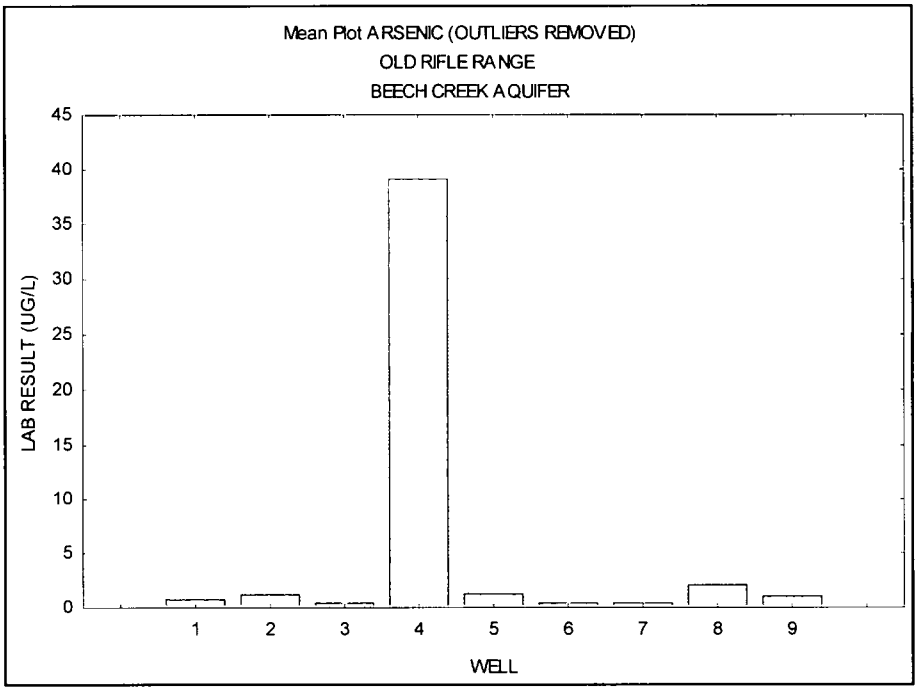


ARSENIC (OUTLIERS REMOVED) (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	0.81250	16	0.49109	0.50000	1.70000
2	C11	1.28125	16	0.69973	0.50000	2.60000
3	C12	0.50000	20	0.00000	0.50000	0.50000
4	C13	39.19375	16	11.07113	29.60000	64.30000
5	C14	1.33889	18	1.09981	0.50000	4.10000
6	C15	0.50000	24	0.00000	0.50000	0.50000
7	C16	0.50000	20	0.00000	0.50000	0.50000
8	C18	2.13529	17	0.12217	2.00000	2.40000
9	C19	1.11176	17	0.43572	0.50000	1.80000
	All Grps	4.70671	164	11.87932	0.50000	64.30000

Table 7.90.

* Denotes Upgradient Well

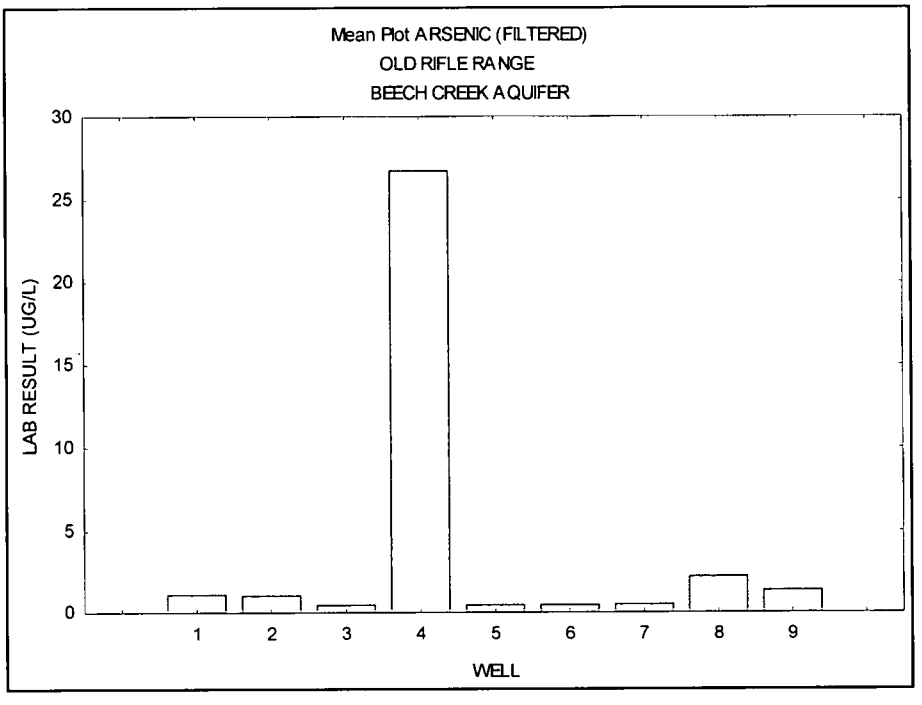


ARSENIC (FILTERED) (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	1.14375	16	0.559725	0.50000	2.00000
2	C11	1.08750	16	0.565538	0.50000	2.30000
3	C12	0.50000	20	0.000000	0.50000	0.50000
4	C13	26.78824	17	4.411474	17.70000	33.00000
5	C14	0.50000	18	0.000000	0.50000	0.50000
6	C15	0.50000	24	0.000000	0.50000	0.50000
7	C16	0.54000	20	0.178885	0.50000	1.30000
8	C18	2.23529	17	0.231682	1.90000	2.60000
9	C19	1.38235	17	0.242990	1.10000	2.10000
	All Grps	3.60242	165	8.024345	0.50000	33.00000

Table 7.91.

* Denotes Upgradient Well

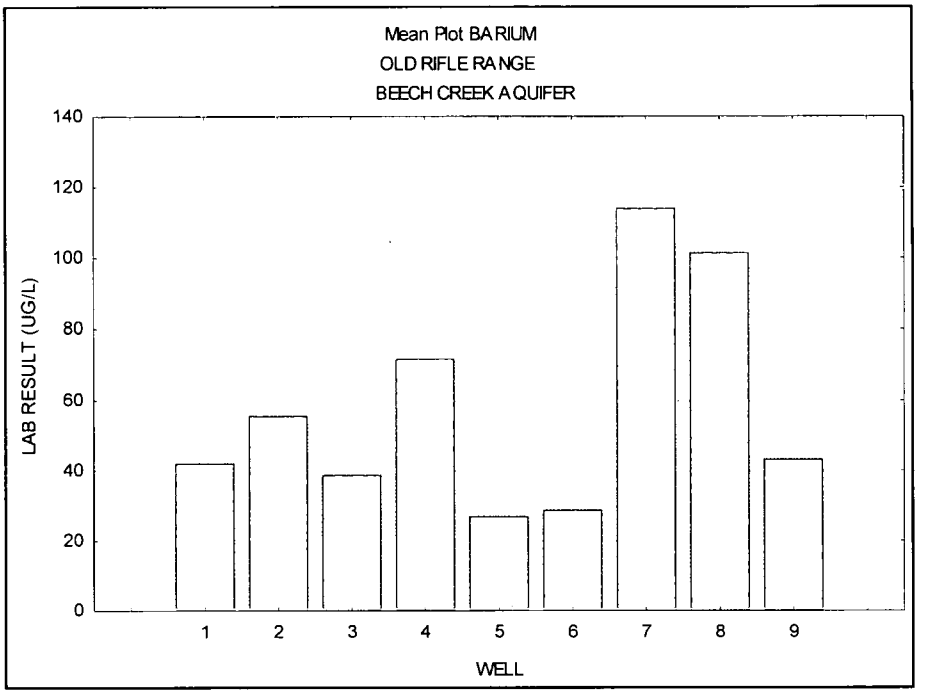


BARIUM (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	42.1625	16	6.29453	35.50000	57.6000
2	C11	55.7188	16	11.20519	37.60000	73.5000
3	C12	38.9150	20	6.90372	31.60000	63.9000
4	C13	71.7000	17	14.97586	58.80000	123.0000
5	C14	27.0778	18	4.25518	20.90000	35.7000
6	C15	28.8667	24	1.31865	26.10000	31.4000
7	C16	114.1300	20	10.80137	93.10000	127.0000
8	C18	101.5118	17	8.98734	84.90000	120.0000
9	C19	43.4353	17	5.12261	38.80000	59.9000
	All Grps	57.5164	165	31.44551	20.90000	127.0000

Table 7.92.

* Denotes Upgradient Well

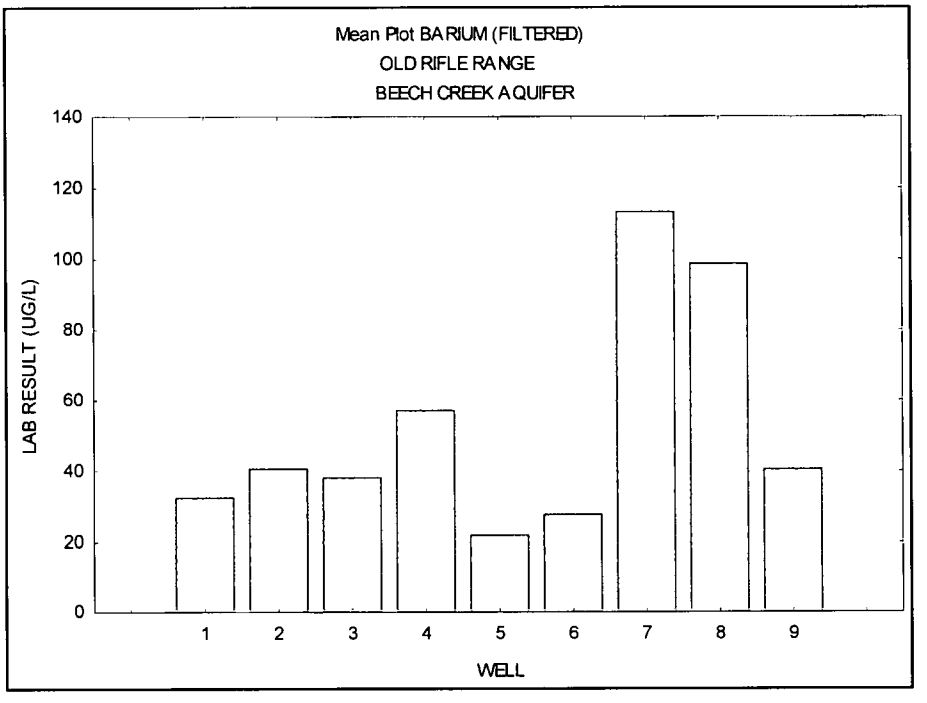


BARIUM (FILTERED) (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	32.6438	16	2.94119	29.30000	39.7000
2	C11	40.8125	16	17.85698	9.60000	64.6000
3	C12	38.3550	20	5.93167	31.20000	59.4000
4	C13	57.3059	17	3.68756	52.30000	68.1000
5	C14	22.1167	18	3.48935	17.70000	28.9000
6	C15	27.8333	24	1.60018	25.30000	32.9000
7	C16	113.4450	20	53.64002	27.00000	326.0000
8	C18	98.8647	17	9.11619	86.00000	121.0000
9	C19	40.5824	17	4.21652	36.50000	53.7000
	All Grps	52.2558	165	36.60013	9.60000	326.0000

Table 7.93.

* Denotes Upgradient Well

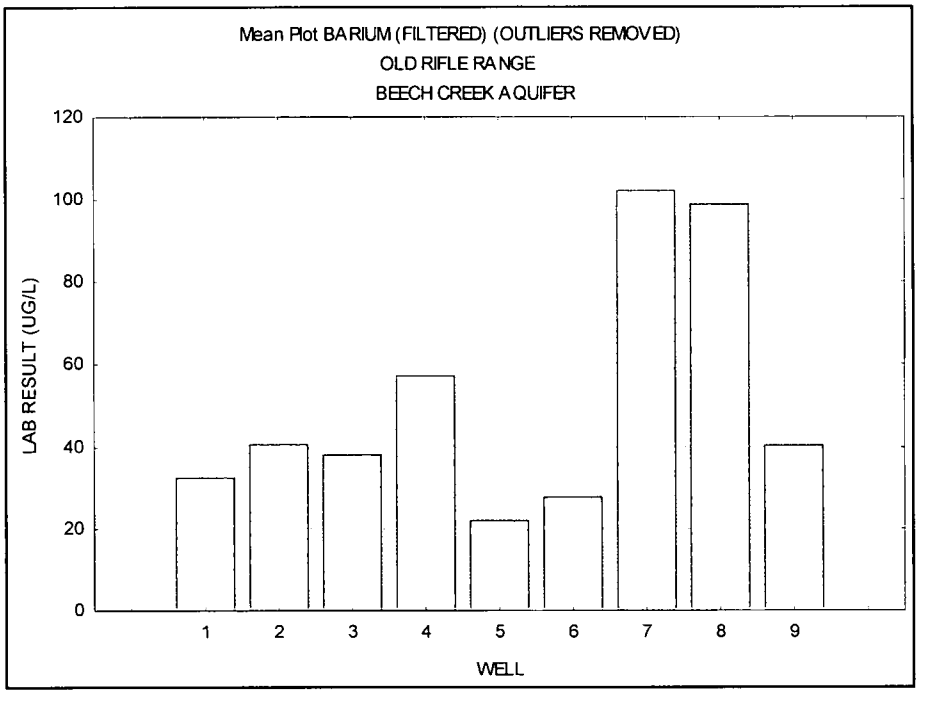


BARIUM (FILTERED) (OUTLIERS REMOVED) (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	32.6438	16	2.94119	29.30000	39.7000
2	C11	40.8125	16	17.85698	9.60000	64.6000
3	C12	38.3550	20	5.93167	31.20000	59.4000
4	C13	57.3059	17	3.68756	52.30000	68.1000
5	C14	22.1167	18	3.48935	17.70000	28.9000
6	C15	27.8333	24	1.60018	25.30000	32.9000
7	C16	102.2579	19	19.87501	27.00000	120.0000
8	C18	98.8647	17	9.11619	86.00000	121.0000
9	C19	40.5824	17	4.21652	36.50000	53.7000
	All Grps	50.5866	164	29.75323	9.60000	121.0000

Table 7.94.

* Denotes Upgradient Well

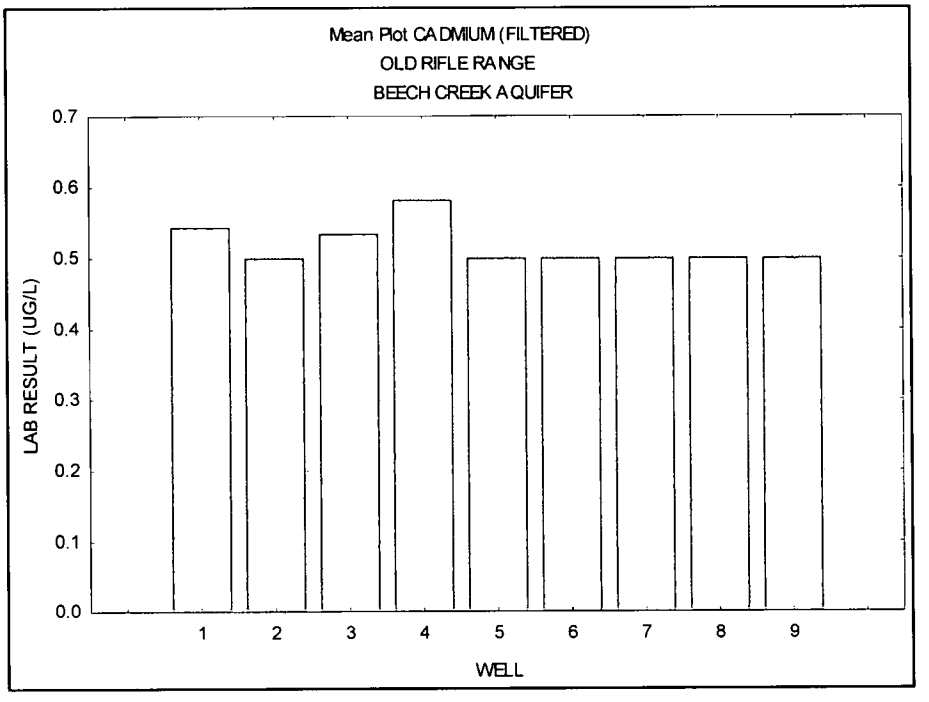


CADMIUM (FILTERED) (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	0.543750	16	0.175000	0.500000	1.200000
2	C11	0.500000	16	0.000000	0.500000	0.500000
3	C12	0.535000	20	0.156525	0.500000	1.200000
4	C13	0.582353	17	0.235147	0.500000	1.300000
5	C14	0.500000	18	0.000000	0.500000	0.500000
6	C15	0.500000	24	0.000000	0.500000	0.500000
7	C16	0.500000	20	0.000000	0.500000	0.500000
8	C18	0.500000	17	0.000000	0.500000	0.500000
9	C19	0.500000	17	0.000000	0.500000	0.500000
	All Grps	0.516970	165	0.108552	0.500000	1.300000

Table 7.95.

* Denotes Upgradient Well

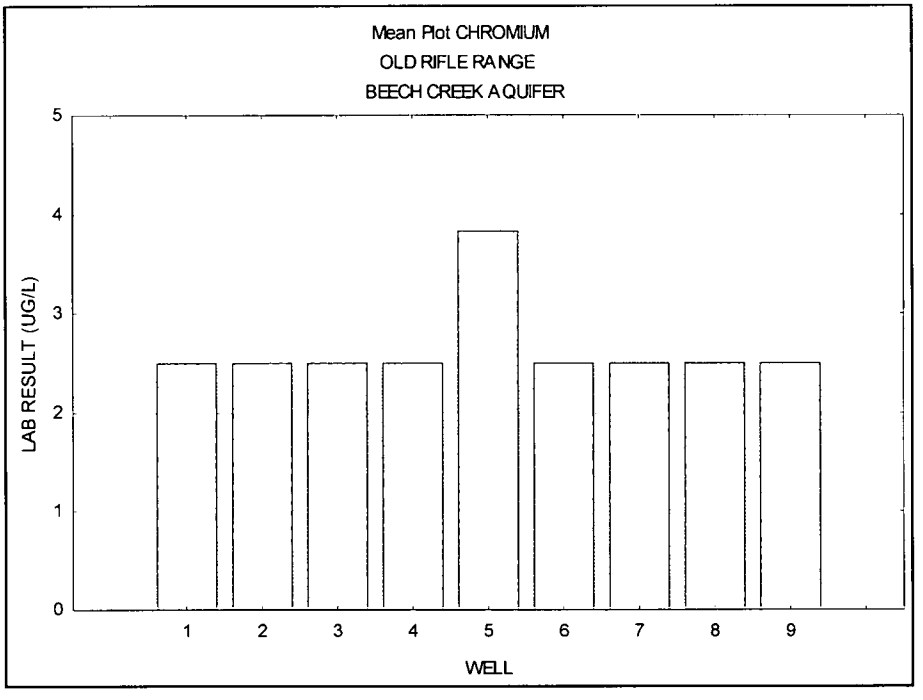


CHROMIUM (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	2.500000	16	0.000000	2.500000	2.50000
2	C11	2.500000	16	0.000000	2.500000	2.50000
3	C12	2.500000	20	0.000000	2.500000	2.50000
4	C13	2.500000	17	0.000000	2.500000	2.50000
5	C14	3.838889	18	3.352460	2.500000	14.90000
6	C15	2.500000	24	0.000000	2.500000	2.50000
7	C16	2.500000	20	0.000000	2.500000	2.50000
8	C18	2.500000	17	0.000000	2.500000	2.50000
9	C19	2.500000	17	0.000000	2.500000	2.50000
	All Grps	2.646061	165	1.157715	2.500000	14.90000

Table 7.96.

* Denotes Upgradient Well

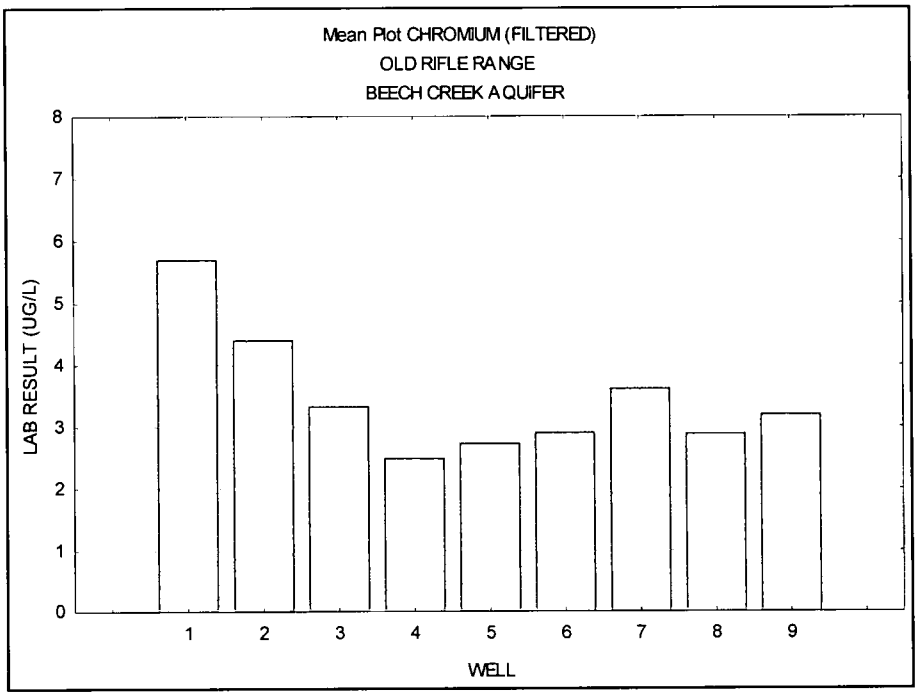


CHROMIUM (FILTERED) (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	5.706250	16	5.142045	2.500000	18.00000
2	C11	4.412500	16	3.595715	2.500000	12.80000
3	C12	3.345000	20	2.144387	2.500000	9.50000
4	C13	2.500000	17	0.000000	2.500000	2.50000
5	C14	2.744444	18	1.037090	2.500000	6.90000
6	C15	2.916667	24	1.416569	2.500000	7.90000
7	C16	3.630000	20	2.734016	2.500000	13.40000
8	C18	2.894118	17	1.136041	2.500000	6.50000
9	C19	3.205882	17	2.037299	2.500000	9.70000
	All Grps	3.436364	165	2.596834	2.500000	18.00000

Table 7.97.

* Denotes Upgradient Well

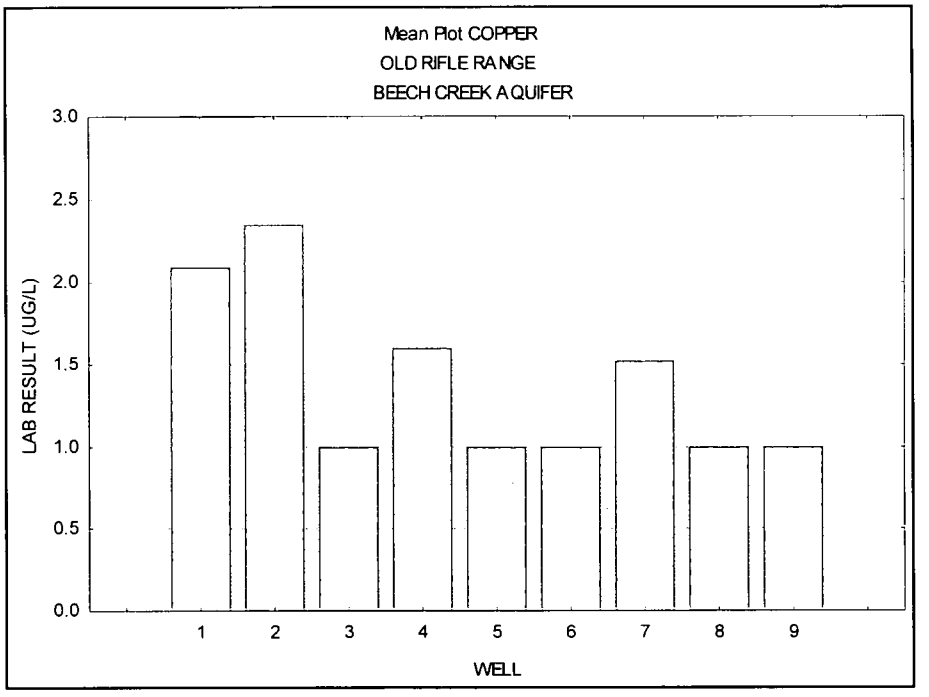


COPPER (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	2.093750	16	1.398317	1.000000	4.900000
2	C11	2.350000	16	1.947648	1.000000	6.600000
3	C12	1.000000	20	0.000000	1.000000	1.000000
4	C13	1.600000	17	1.835415	1.000000	8.100000
5	C14	1.000000	18	0.000000	1.000000	1.000000
6	C15	1.000000	24	0.000000	1.000000	1.000000
7	C16	1.520000	20	0.972571	1.000000	3.800000
8	C18	1.000000	17	0.000000	1.000000	1.000000
9	C19	1.000000	17	0.000000	1.000000	1.000000
	All Grps	1.361818	165	1.094135	1.000000	8.100000

Table 7.98.

* Denotes Upgradient Well

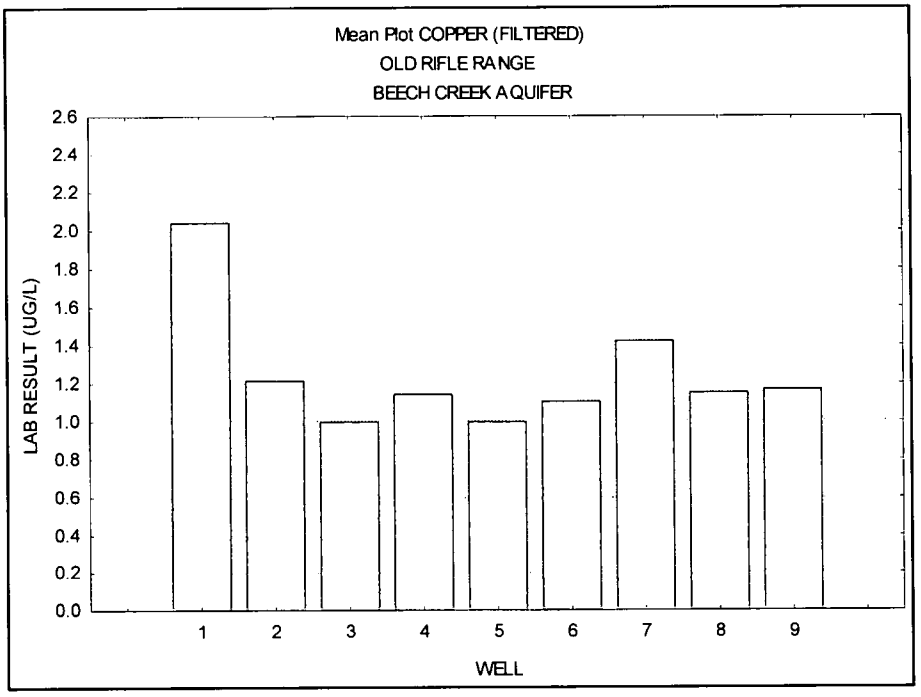


COPPER (FILTERED) (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	2.043750	16	1.230701	1.000000	4.600000
2	C11	1.218750	16	0.611249	1.000000	3.100000
3	C12	1.000000	20	0.000000	1.000000	1.000000
4	C13	1.147059	17	0.606339	1.000000	3.500000
5	C14	1.000000	17	0.000000	1.000000	1.000000
6	C15	1.108333	24	0.530723	1.000000	3.600000
7	C16	1.425000	20	0.879518	1.000000	3.500000
8	C18	1.152941	17	0.630593	1.000000	3.600000
9	C19	1.170588	17	0.703353	1.000000	3.900000
	All Grps	1.239634	164	0.716126	1.000000	4.600000

Table 7.99.

* Denotes Upgradient Well

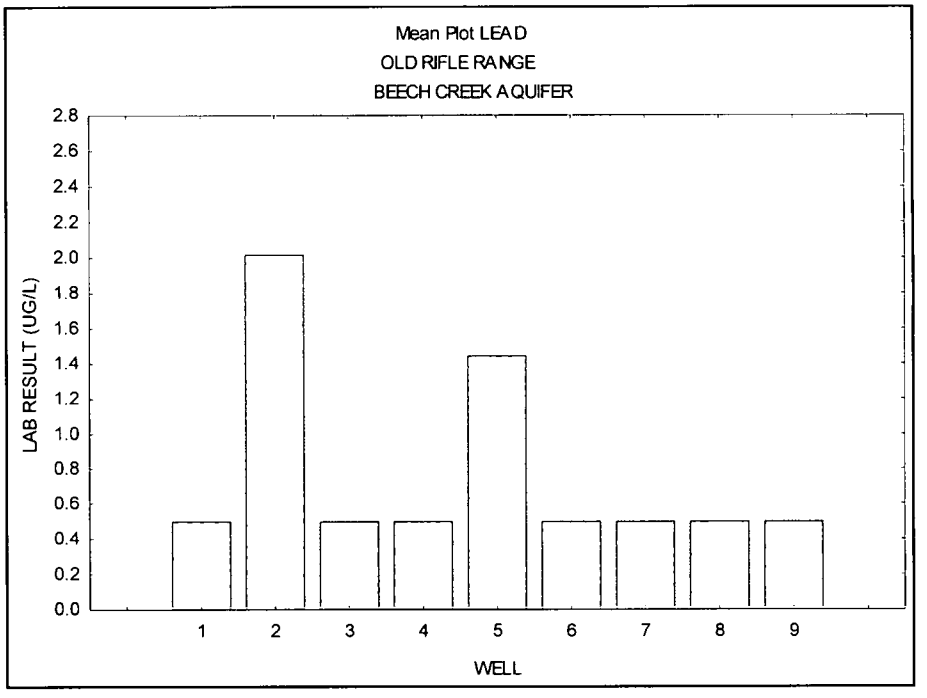


LEAD (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	0.500000	16	0.000000	0.500000	0.500000
2	C11	2.018750	16	2.154134	0.500000	8.400000
3	C12	0.500000	20	0.000000	0.500000	0.500000
4	C13	0.500000	17	0.000000	0.500000	0.500000
5	C14	1.444444	18	1.487684	0.500000	6.000000
6	C15	0.500000	24	0.000000	0.500000	0.500000
7	C16	0.500000	20	0.000000	0.500000	0.500000
8	C18	0.500000	17	0.000000	0.500000	0.500000
9	C19	0.500000	17	0.000000	0.500000	0.500000
	All Grps	0.750303	165	0.955895	0.500000	8.400000

Table 7.100.

* Denotes Upgradient Well

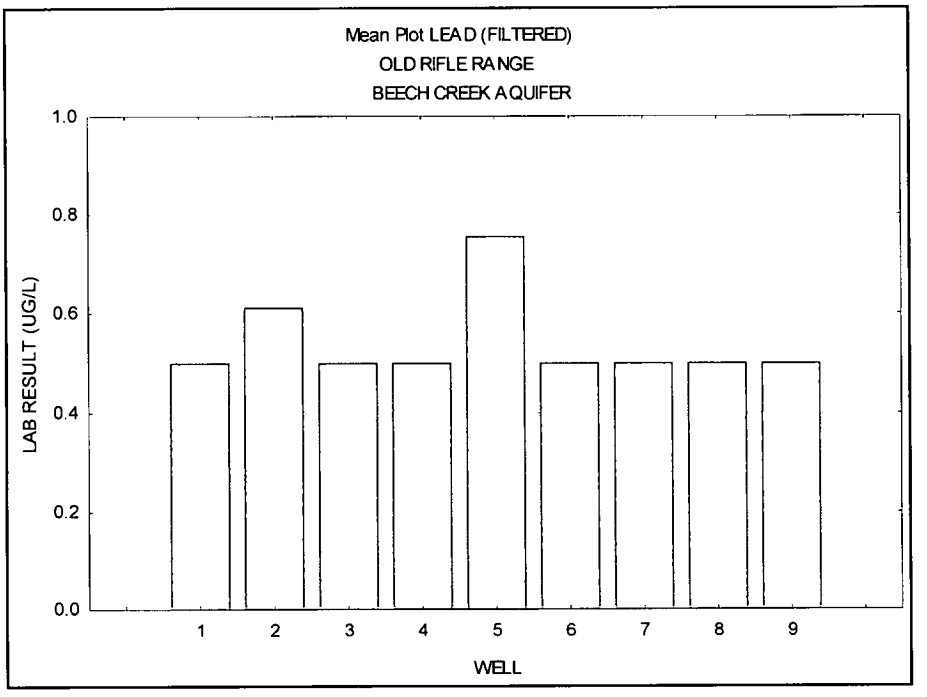


LEAD (FILTERED) (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	0.500000	16	0.000000	0.500000	0.500000
2	C11	0.612500	16	0.315964	0.500000	1.600000
3	C12	0.500000	20	0.000000	0.500000	0.500000
4	C13	0.500000	17	0.000000	0.500000	0.500000
5	C14	0.755556	18	1.084230	0.500000	5.100000
6	C15	0.500000	24	0.000000	0.500000	0.500000
7	C16	0.500000	20	0.000000	0.500000	0.500000
8	C18	0.500000	17	0.000000	0.500000	0.500000
9	C19	0.500000	17	0.000000	0.500000	0.500000
	All Grps	0.538788	165	0.371317	0.500000	5.100000

Table 7.101.

* Denotes Upgradient Well

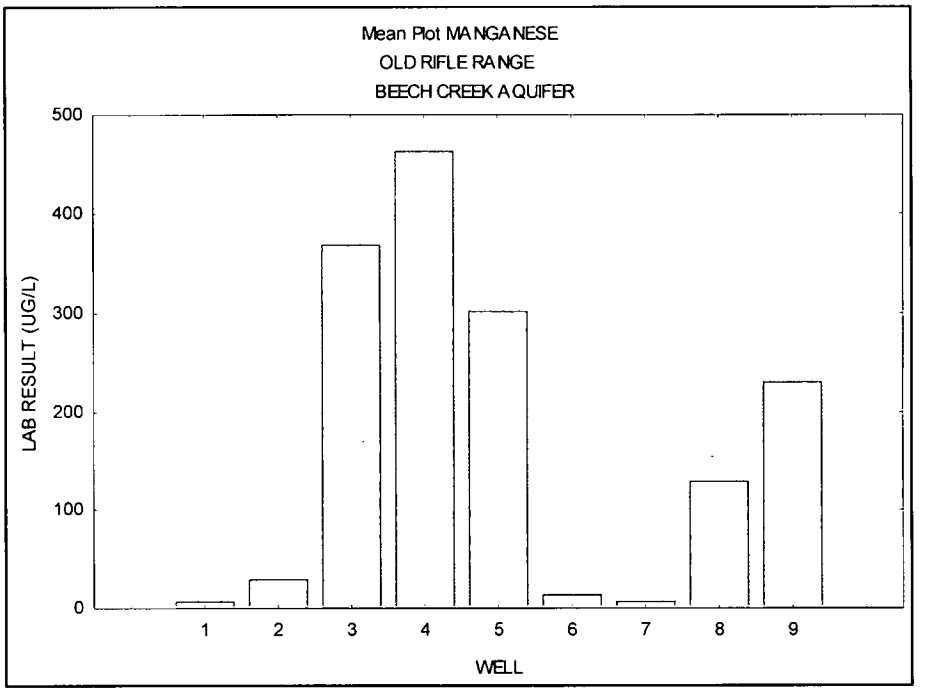


MANGANESE (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	7.5000	16	0.0000	7.5000	7.5000
2	C11	29.8063	16	25.3209	7.5000	75.0000
3	C12	368.9500	20	53.3661	243.0000	469.0000
4	C13	463.2941	17	53.1775	398.0000	552.0000
5	C14	302.7222	18	72.8825	205.0000	486.0000
6	C15	14.0333	24	7.3030	7.5000	32.1000
7	C16	7.5000	20	0.0000	7.5000	7.5000
8	C18	129.4706	17	8.1710	117.0000	144.0000
9	C19	231.0588	17	22.4373	188.0000	274.0000
	All Grps	169.1921	165	169.6623	7.5000	552.0000

Table 7.102.

* Denotes Upgradient Well

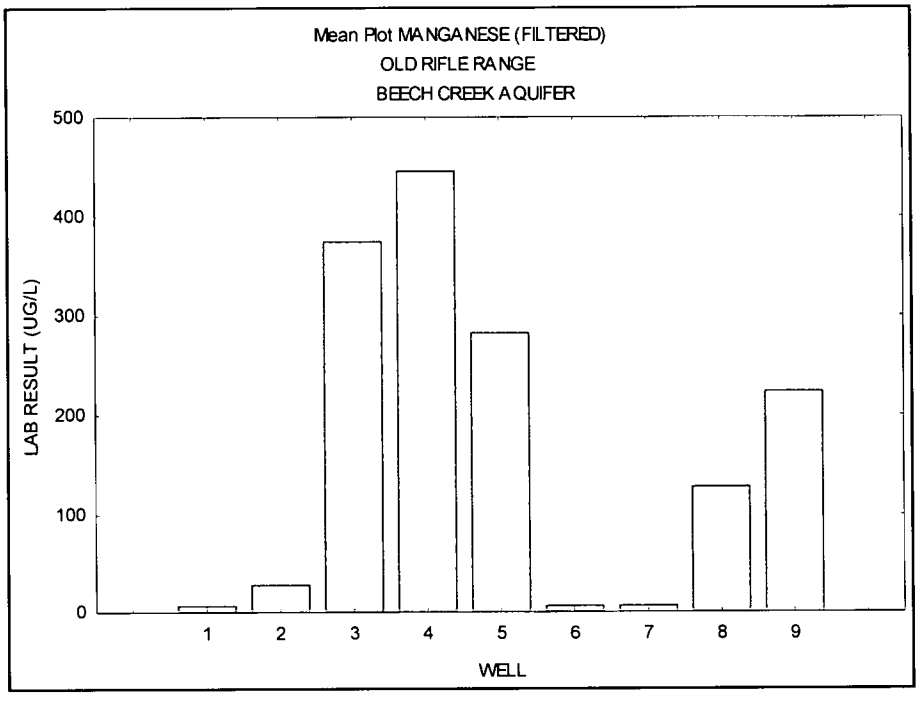


MANGANESE (FILTERED) (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	7.5000	16	0.0000	7.5000	7.5000
2	C11	28.8375	16	25.4774	7.5000	75.7000
3	C12	375.1000	20	55.1533	236.0000	466.0000
4	C13	446.3529	17	61.8111	328.0000	553.0000
5	C14	283.2500	18	92.1384	7.5000	432.0000
6	C15	7.5000	24	0.0000	7.5000	7.5000
7	C16	7.5000	20	0.0000	7.5000	7.5000
8	C18	128.8235	17	7.4853	120.0000	148.0000
9	C19	224.0294	17	64.0357	7.5000	309.0000
	All Grps	164.2327	165	169.0386	7.5000	553.0000

Table 7.103.

* Denotes Upgradient Well

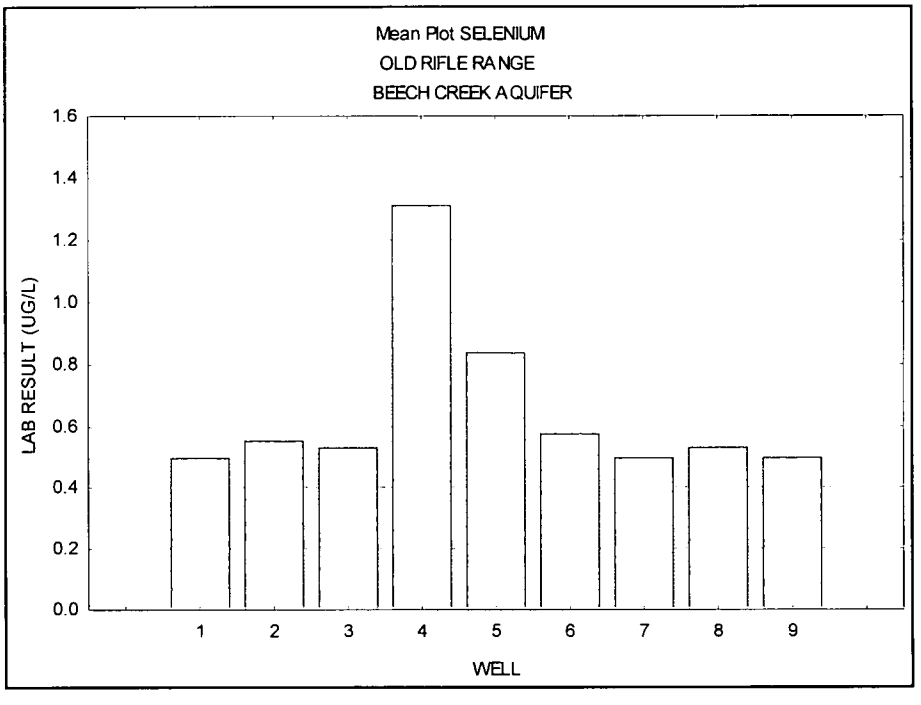


SELENIUM (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	0.500000	16	0.000000	0.500000	0.500000
2	C11	0.556250	16	0.225000	0.500000	1.400000
3	C12	0.535000	20	0.156525	0.500000	1.200000
4	C13	1.311765	17	0.791267	0.500000	2.600000
5	C14	0.838889	18	0.469216	0.500000	1.800000
6	C15	0.579167	24	0.214637	0.500000	1.200000
7	C16	0.500000	20	0.000000	0.500000	0.500000
8	C18	0.535294	17	0.145521	0.500000	1.100000
9	C19	0.500000	17	0.000000	0.500000	0.500000
	All Grps	0.645455	165	0.401287	0.500000	2.600000

Table 7.104.

* Denotes Upgradient Well

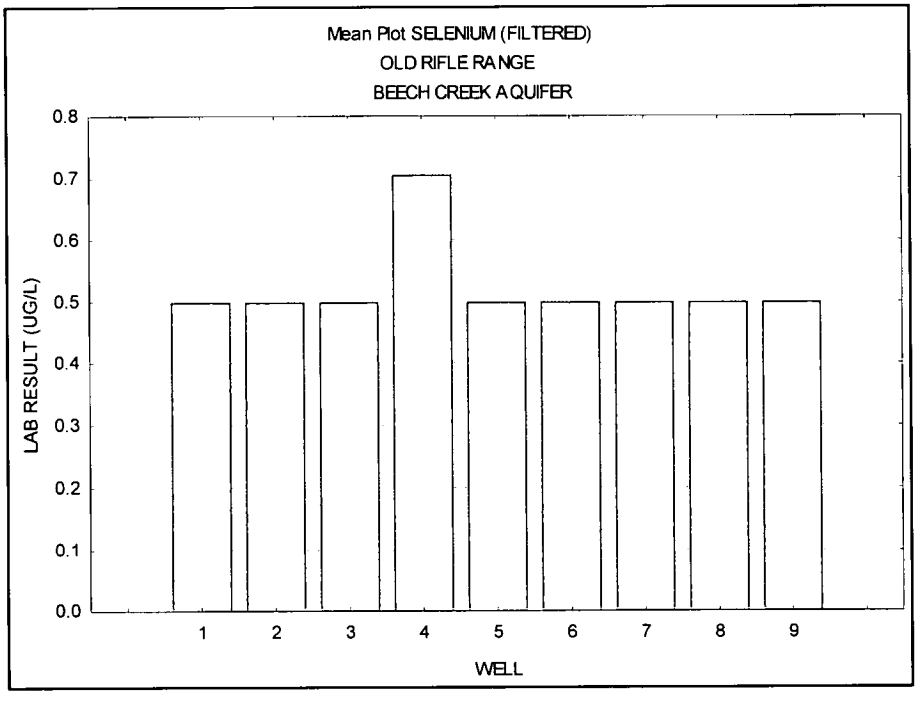


SELENIUM (FILTERED) (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	0.500000	16	0.000000	0.500000	0.500000
2	C11	0.500000	16	0.000000	0.500000	0.500000
3	C12	0.500000	20	0.000000	0.500000	0.500000
4	C13	0.705882	17	0.493040	0.500000	2.100000
5	C14	0.500000	18	0.000000	0.500000	0.500000
6	C15	0.500000	24	0.000000	0.500000	0.500000
7	C16	0.500000	20	0.000000	0.500000	0.500000
8	C18	0.500000	17	0.000000	0.500000	0.500000
9	C19	0.500000	17	0.000000	0.500000	0.500000
	All Grps	0.521212	165	0.166304	0.500000	2.100000

Table 7.105.

* Denotes Upgradient Well

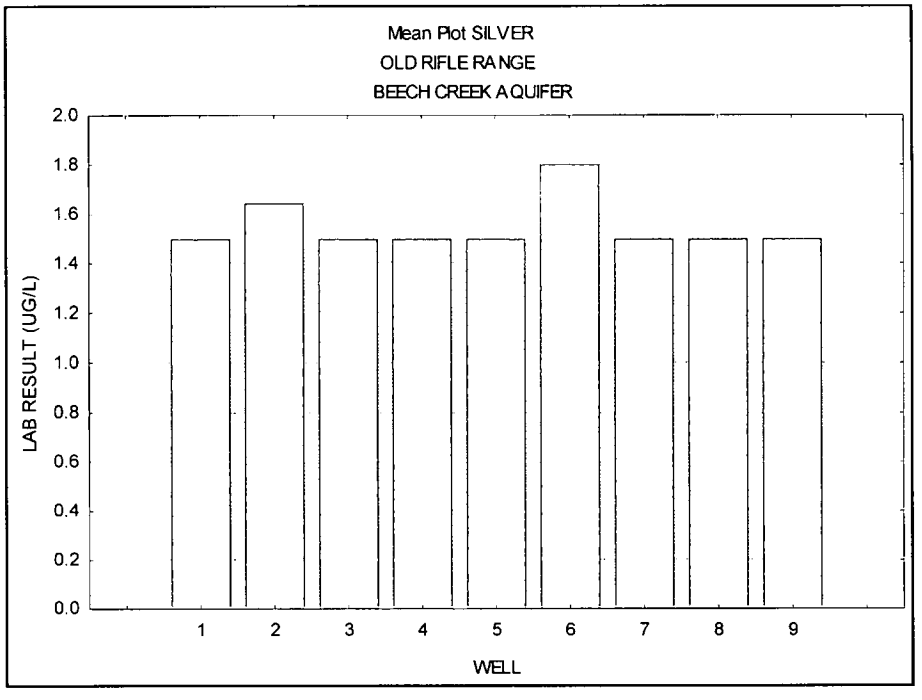


SILVER (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	1.500000	16	0.000000	1.500000	1.500000
2	C11	1.643750	16	0.575000	1.500000	3.800000
3	C12	1.500000	20	0.000000	1.500000	1.500000
4	C13	1.500000	17	0.000000	1.500000	1.500000
5	C14	1.500000	18	0.000000	1.500000	1.500000
6	C15	1.800000	24	1.016815	1.500000	5.200000
7	C16	1.500000	20	0.000000	1.500000	1.500000
8	C18	1.500000	17	0.000000	1.500000	1.500000
9	C19	1.500000	17	0.000000	1.500000	1.500000
	All Grps	1.557576	165	0.432541	1.500000	5.200000

Table 7.106.

* Denotes Upgradient Well

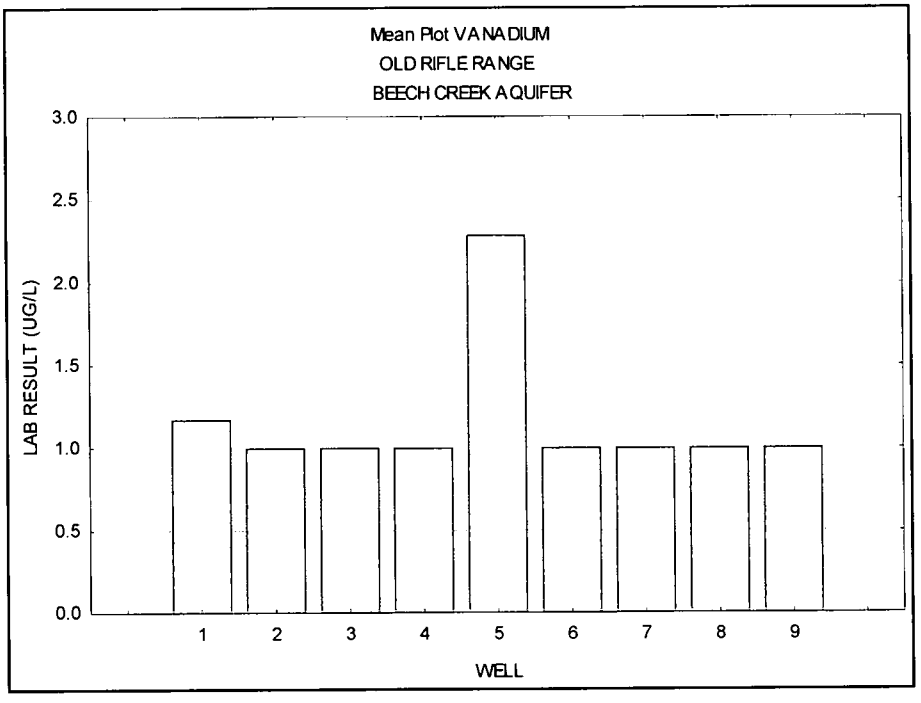


VANADIUM (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	1.175000	16	0.483735	1.000000	2.60000
2	C11	1.000000	16	0.000000	1.000000	1.00000
3	C12	1.000000	20	0.000000	1.000000	1.00000
4	C13	1.000000	17	0.000000	1.000000	1.00000
5	C14	2.288889	18	2.790296	1.000000	11.30000
6	C15	1.000000	24	0.000000	1.000000	1.00000
7	C16	1.000000	20	0.000000	1.000000	1.00000
8	C18	1.000000	17	0.000000	1.000000	1.00000
9	C19	1.000000	17	0.000000	1.000000	1.00000
	All Grps	1.157576	165	0.994384	1.000000	11.30000

Table 7.107.

* Denotes Upgradient Well

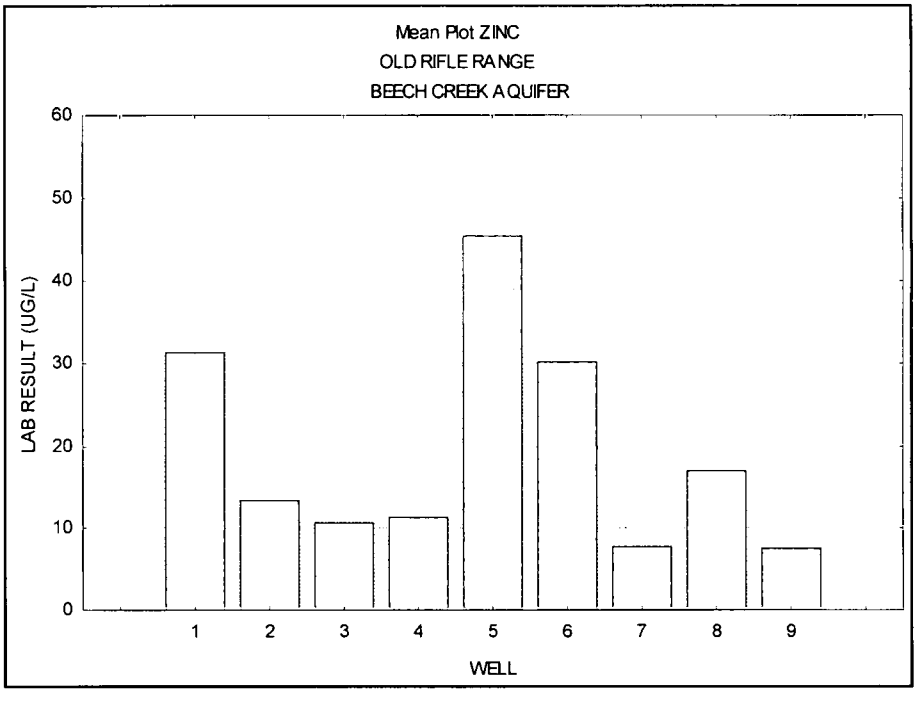


ZINC (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	31.40625	16	75.08882	5.00000	309.0000
2	C11	13.41875	16	12.54433	5.00000	50.2000
3	C12	10.67000	20	22.60855	5.00000	106.0000
4	C13	11.40588	17	23.98099	5.00000	104.0000
5	C14	45.53889	18	48.47966	13.40000	207.0000
6	C15	30.20000	24	61.19090	5.00000	292.0000
7	C16	7.73500	20	12.23129	5.00000	59.7000
8	C18	17.05882	17	26.45718	5.00000	91.5000
9	C19	7.56471	17	7.27100	5.00000	28.7000
	All Grps	19.65030	165	40.76880	5.00000	309.0000

Table 7.108.

* Denotes Upgradient Well

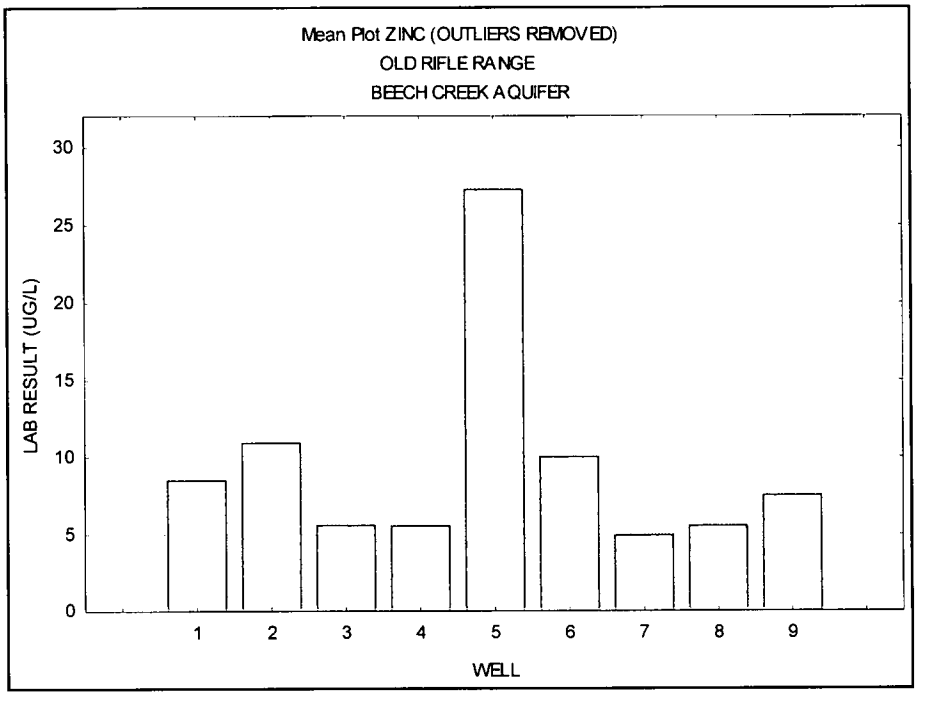


ZINC (OUTLIERS REMOVED) (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	8.54615	13	6.59275	5.00000	27.20000
2	C11	10.96667	15	8.09477	5.00000	30.90000
3	C12	5.65263	19	2.84476	5.00000	17.40000
4	C13	5.61875	16	2.47500	5.00000	14.90000
5	C14	27.32667	15	10.20682	13.40000	46.90000
6	C15	10.06000	20	9.54631	5.00000	36.00000
7	C16	5.00000	19	0.00000	5.00000	5.00000
8	C18	5.60714	14	2.27172	5.00000	13.50000
9	C19	7.56471	17	7.27100	5.00000	28.70000
	All Grps	9.36554	148	8.95068	5.00000	46.90000

Table 7.109.

* Denotes Upgradient Well

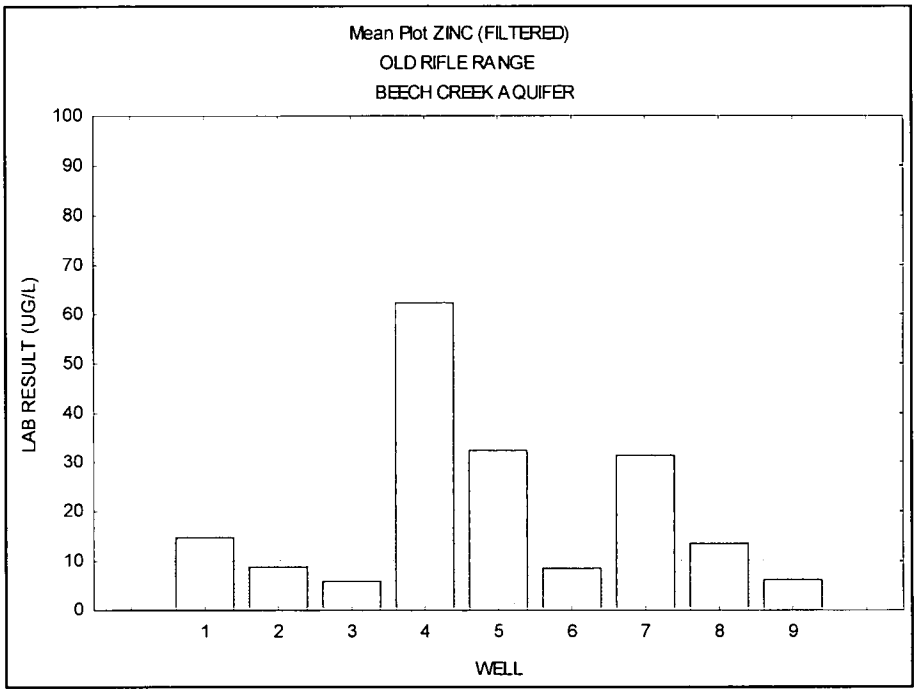


ZINC (FILTERED) (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	14.86250	16	27.7657	5.000000	113.0000
2	C11	8.98750	16	11.7087	5.000000	51.4000
3	C12	6.00000	20	4.4721	5.000000	25.0000
4	C13	62.39412	17	102.2131	5.000000	313.0000
5	C14	32.64444	18	90.4049	5.000000	385.0000
6	C15	8.62083	24	9.8881	5.000000	38.6000
7	C16	31.58000	20	83.2412	5.000000	373.0000
8	C18	13.59412	17	33.8947	5.000000	145.0000
9	C19	6.34118	17	5.5298	5.000000	27.8000
	All Grps	20.16545	165	56.4306	5.000000	385.0000

Table 7.110.

* Denotes Upgradient Well

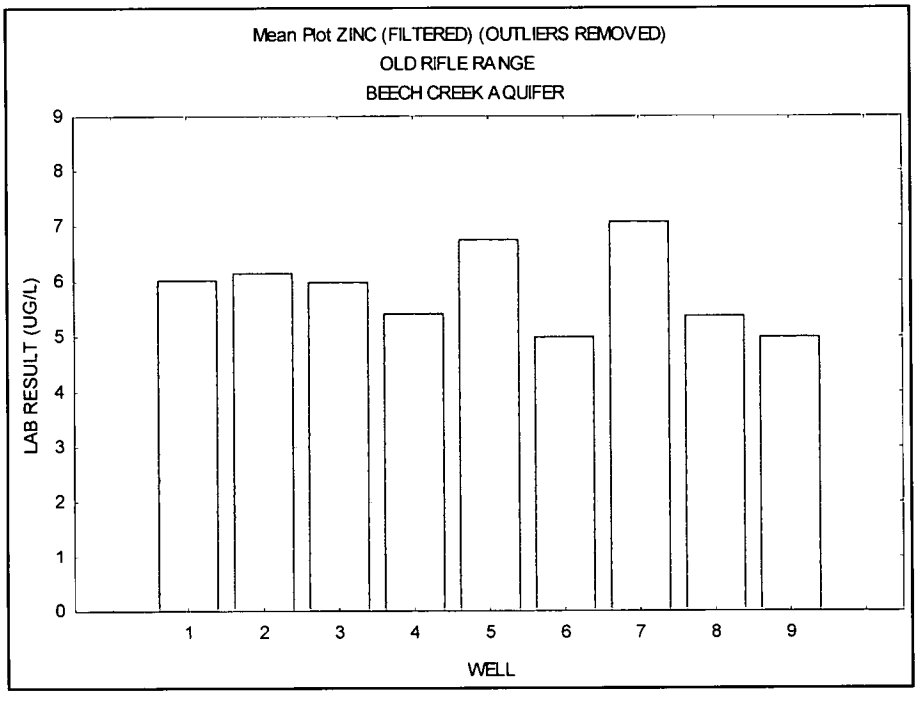


ZINC (FILTERED) (OUTLIERS REMOVED) (UG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	6.035714	14	3.875288	5.000000	19.50000
2	C11	6.160000	15	3.135921	5.000000	15.50000
3	C12	6.000000	20	4.472136	5.000000	25.00000
4	C13	5.425000	12	1.472243	5.000000	10.10000
5	C14	6.756250	16	3.984465	5.000000	18.10000
6	C15	5.000000	21	0.000000	5.000000	5.00000
7	C16	7.082353	17	6.735376	5.000000	32.00000
8	C18	5.381250	16	1.525000	5.000000	11.10000
9	C19	5.000000	16	0.000000	5.000000	5.00000
	All Grps	5.861224	147	3.520341	5.000000	32.00000

Table 7.111.

* Denotes Upgradient Well



MISCELLANEOUS PARAMETERS

OLD RIFLE RANGE
BEECH CREEK AQUIFER

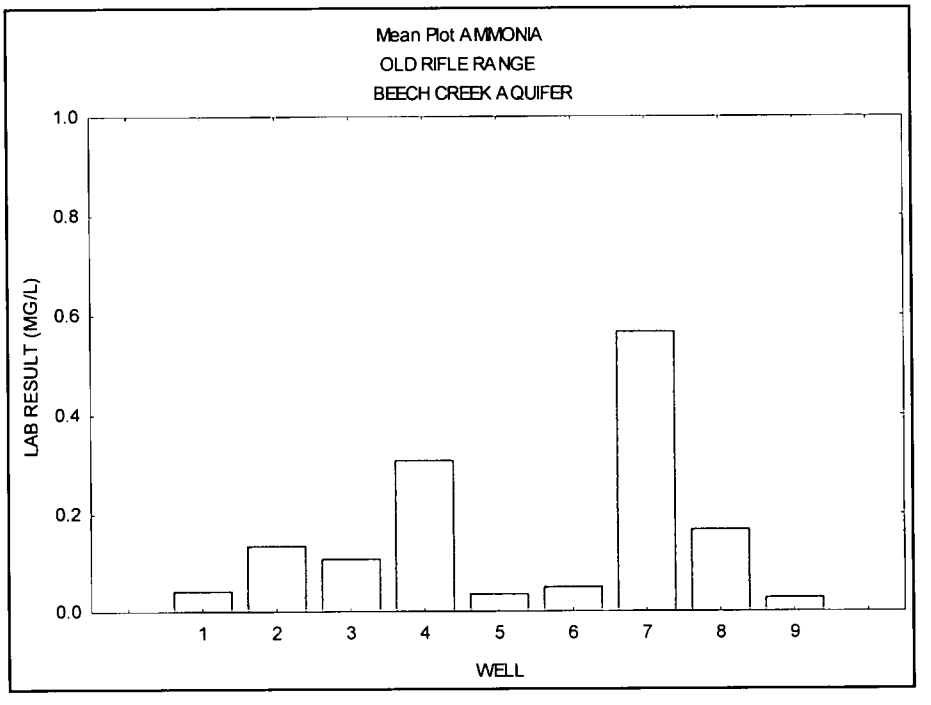
Tables 7.112 through 7.114

AMMONIA (MG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	0.042496	16	0.028809	0.005000	0.090000
2	C11	0.137494	16	0.089259	0.029990	0.400000
3	C12	0.111246	20	0.038860	0.005000	0.170000
4	C13	0.310583	17	0.054712	0.219990	0.449990
5	C14	0.036664	18	0.058182	0.005000	0.209990
6	C15	0.050832	24	0.097095	0.005000	0.370000
7	C16	0.568748	20	1.210559	0.005000	5.700000
8	C18	0.170582	17	0.021055	0.119990	0.209990
9	C19	0.029408	17	0.017756	0.005000	0.070000
	All Grps	0.163875	165	0.449874	0.005000	5.700000

Table 7.112.

* Denotes Upgradient Well

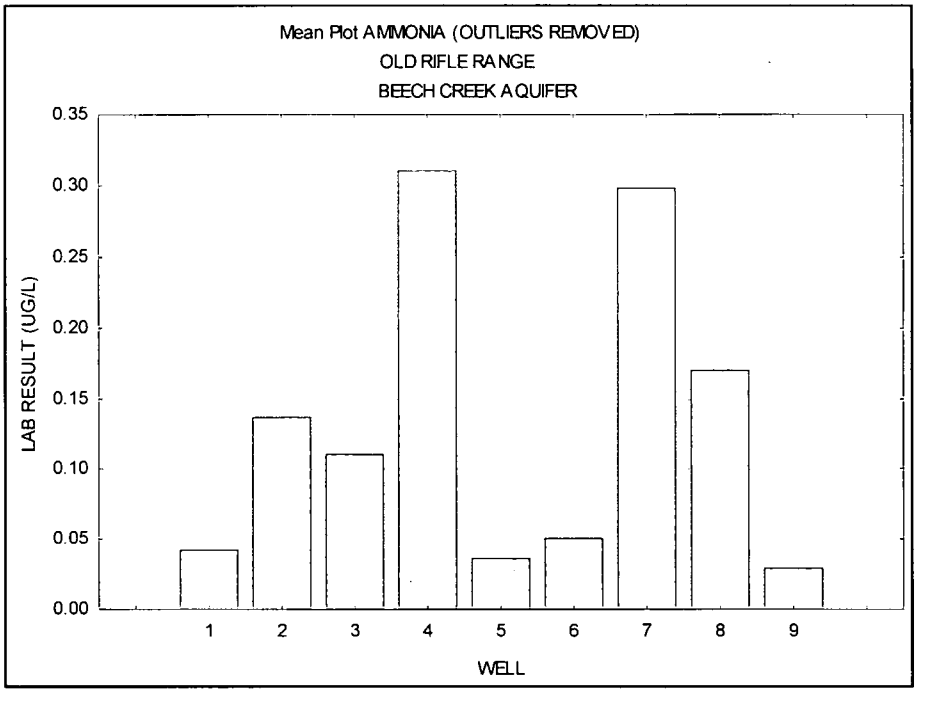


AMMONIA (OUTLIERS REMOVED) (MG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	0.042496	16	0.028809	0.005000	0.090000
2	C11	0.137494	16	0.089259	0.029990	0.400000
3	C12	0.111246	20	0.038860	0.005000	0.170000
4	C13	0.310583	17	0.054712	0.219990	0.449990
5	C14	0.036664	18	0.058182	0.005000	0.209990
6	C15	0.050832	24	0.097095	0.005000	0.370000
7	C16	0.298682	19	0.084356	0.005000	0.419990
8	C18	0.170582	17	0.021055	0.119990	0.209990
9	C19	0.029408	17	0.017756	0.005000	0.070000
	All Grps	0.130118	164	0.120220	0.005000	0.449990

Table 7.113.

* Denotes Upgradient Well

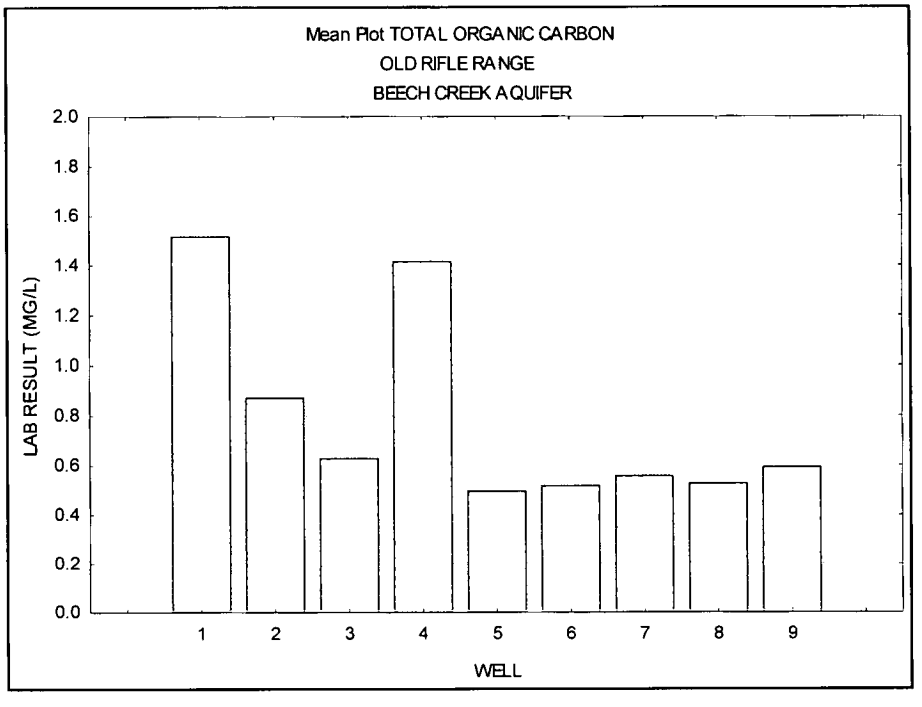


TOTAL ORGANIC CARBON (MG/L)
OLD RIFLE RANGE
BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1*	C08*	1.518750	16	2.281292	0.500000	8.800000
2	C11	0.875000	16	1.026645	0.500000	4.600000
3	C12	0.630000	20	0.364331	0.500000	2.000000
4	C13	1.417647	17	0.372886	1.100000	2.600000
5	C14	0.500000	18	0.000000	0.500000	0.500000
6	C15	0.520833	24	0.102062	0.500000	1.000000
7	C16	0.560000	20	0.187504	0.500000	1.200000
8	C18	0.529412	17	0.121268	0.500000	1.000000
9	C19	0.594118	17	0.268027	0.500000	1.400000
	All Grps	0.768485	165	0.865237	0.500000	8.800000

Table 7.114.

* Denotes Upgradient Well



EXPLOSIVES

OLD RIFLE RANGE
BIG CLIFTY AQUIFER

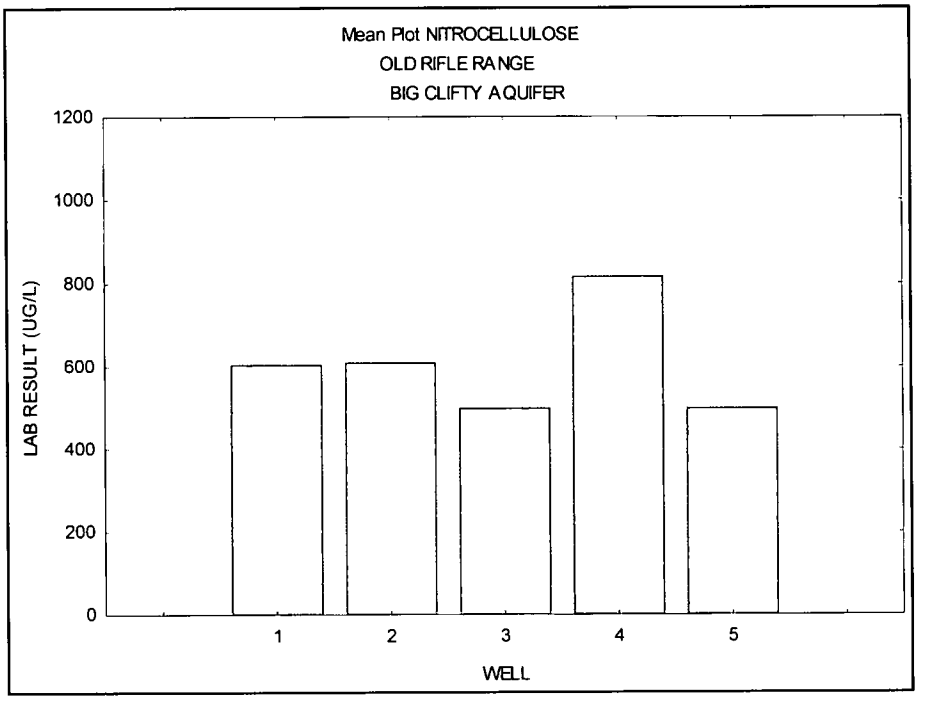
Table 7.115

NITROCELLULOSE (UG/L)
OLD RIFLE RANGE
BIG CLIFTY AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C11P2	605.2632	19	458.831	500.0000	2500.000
2	C13P2	611.1111	18	471.405	500.0000	2500.000
3*	C14P2*	500.0000	17	0.000	500.0000	500.000
4	C18P2	817.6471	17	1309.692	500.0000	5900.000
5	C19P2	500.0000	20	0.000	500.0000	500.000
	All Grps	603.2967	91	634.114	500.0000	5900.000

Table 7.115.

* Denotes Upgradient Well



METALS

OLD RIFLE RANGE
BIG CLIFTY AQUIFER

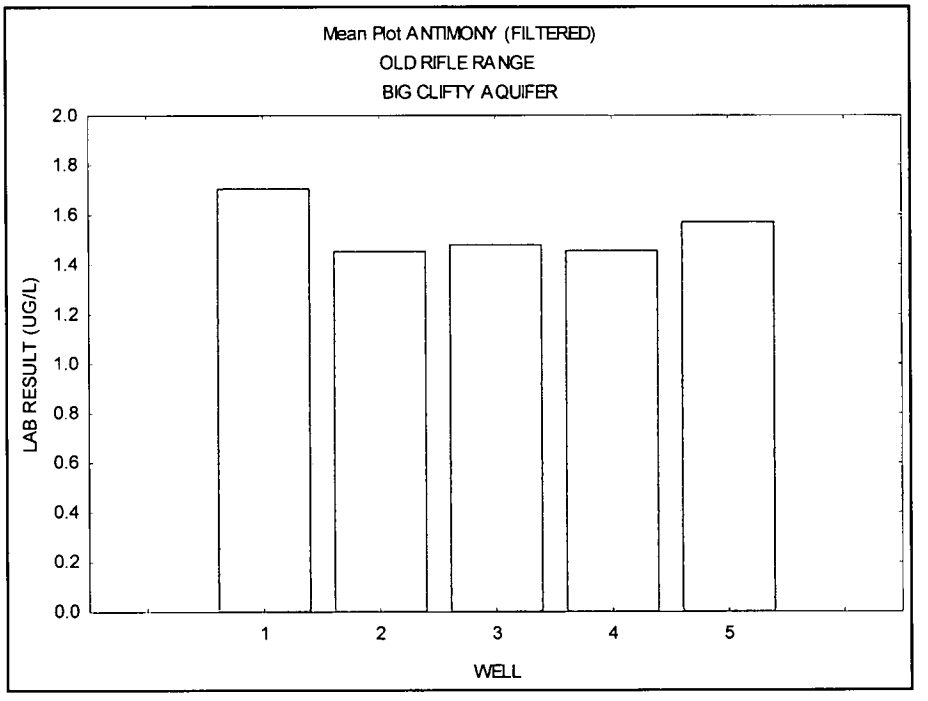
Tables 7.116 through 7.133

ANTIMONY (FILTERED) (UG/L)
OLD RIFLE RANGE
BIG CLIFTY AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C11P2	1.710526	19	1.060867	0.500000	3.200000
2	C13P2	1.455556	18	0.939476	0.500000	3.100000
3*	C14P2*	1.482353	17	0.820240	0.500000	2.600000
4	C18P2	1.458824	17	0.932107	0.500000	2.800000
5	C19P2	1.575000	20	0.980803	0.500000	3.000000
	All Grps	1.540659	91	0.937370	0.500000	3.200000

Table 7.116.

* Denotes Upgradient Well

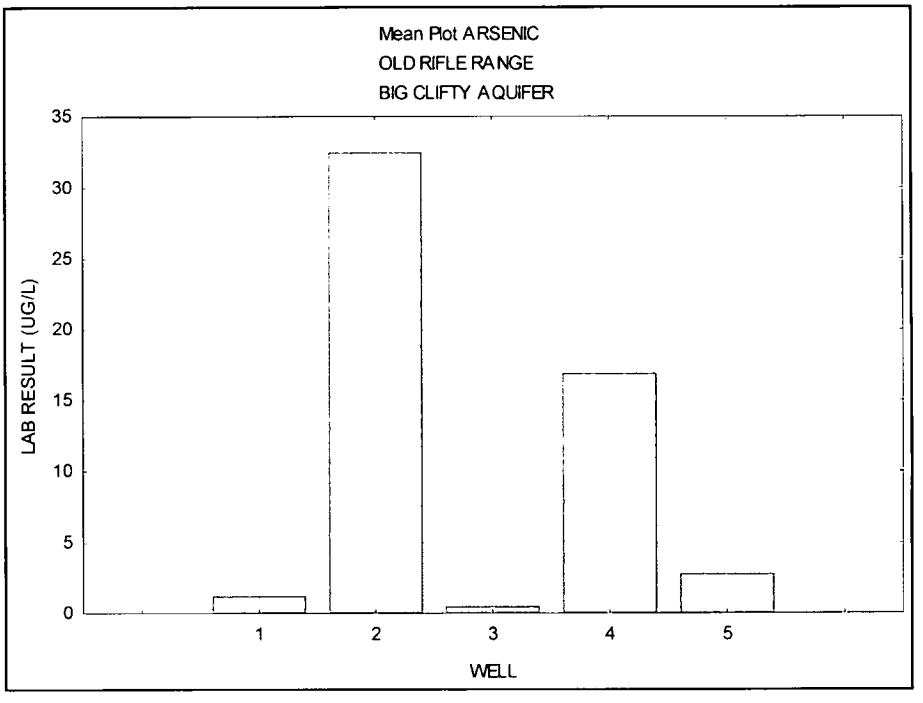


ARSENIC (UG/L)
OLD RIFLE RANGE
BIG CLIFTY AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C11P2	1.28947	19	0.71250	0.50000	2.70000
2	C13P2	32.46667	18	2.63840	26.60000	37.10000
3*	C14P2*	0.50000	17	0.00000	0.50000	0.50000
4	C18P2	16.87647	17	2.42269	12.50000	20.90000
5	C19P2	2.83000	20	0.66340	2.00000	4.20000
	All Grps	10.55934	91	12.51429	0.50000	37.10000

Table 7.117.

* Denotes Upgradient Well

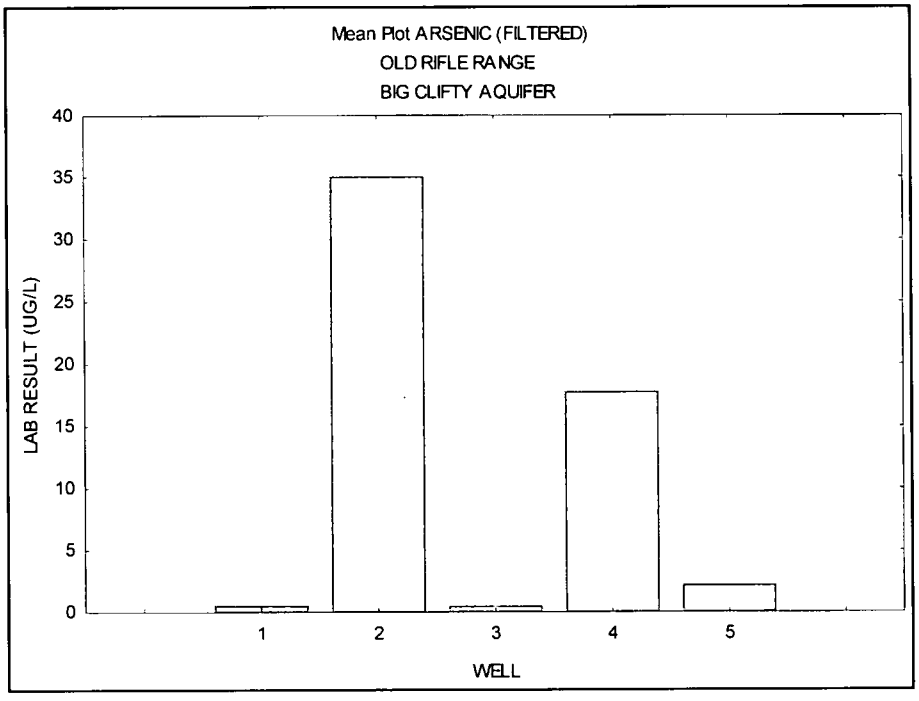


ARSENIC (FILTERED) (UG/L)
OLD RIFLE RANGE
BIG CLIFTY AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C11P2	0.55789	19	0.25236	0.50000	1.60000
2	C13P2	35.07222	18	4.45181	22.60000	41.40000
3*	C14P2*	0.50000	17	0.00000	0.50000	0.50000
4	C18P2	17.78824	17	5.99926	0.50000	28.70000
5	C19P2	2.19500	20	0.33003	1.10000	2.50000
	All Grps	10.95275	91	13.99451	0.50000	41.40000

Table 7.118.

* Denotes Upgradient Well

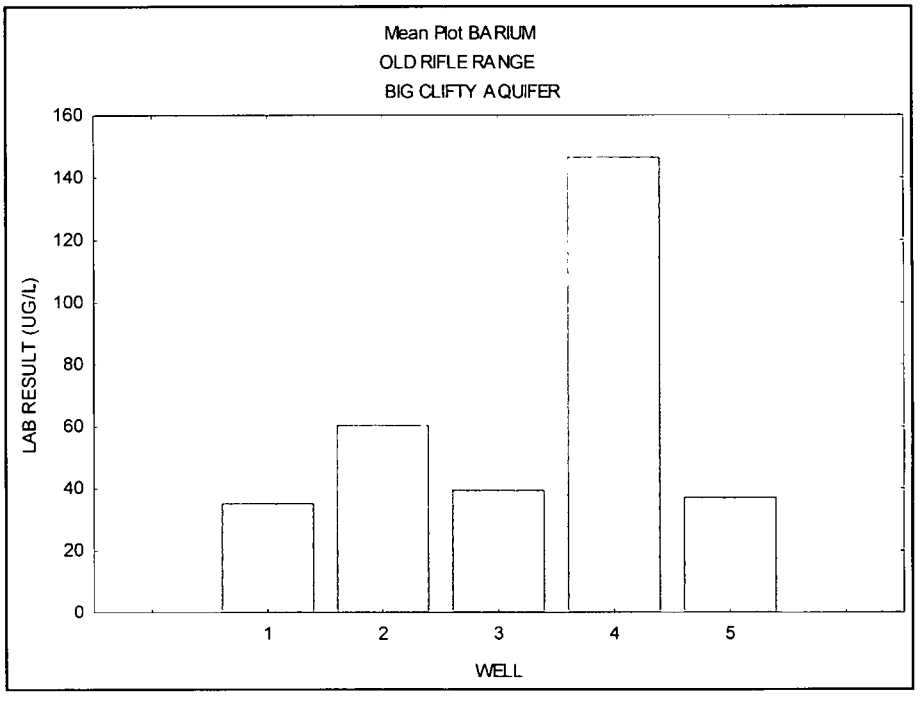


BARIUM (UG/L)
OLD RIFLE RANGE
BIG CLIFTY AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C11P2	35.2895	19	3.78592	29.0000	41.1000
2	C13P2	60.6444	18	3.88379	55.7000	69.2000
3*	C14P2*	39.5882	17	2.97676	35.3000	45.9000
4	C18P2	146.6471	17	20.75735	120.0000	183.0000
5	C19P2	37.2150	20	1.78894	34.7000	40.9000
	All Grps	62.3341	91	42.66423	29.0000	183.0000

Table 7.119.

* Denotes Upgradient Well

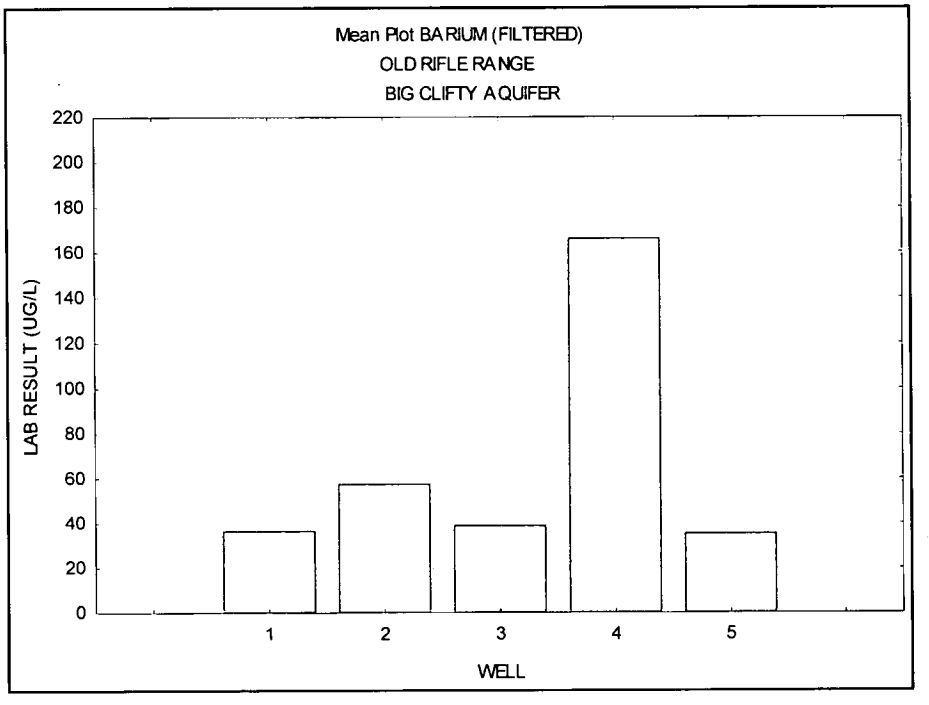


BARIUM (FILTERED) (UG/L)
OLD RIFLE RANGE
BIG CLIFTY AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C11P2	36.8368	19	15.2084	26.9000	97.9000
2	C13P2	57.8000	18	3.7954	53.4000	68.7000
3*	C14P2*	39.2765	17	2.5922	35.0000	44.0000
4	C18P2	166.2941	17	119.8978	104.0000	625.0000
5	C19P2	35.7350	20	3.0515	32.4000	45.5000
	All Grps	65.3813	91	70.9848	26.9000	625.0000

Table 7.120.

* Denotes Upgradient Well

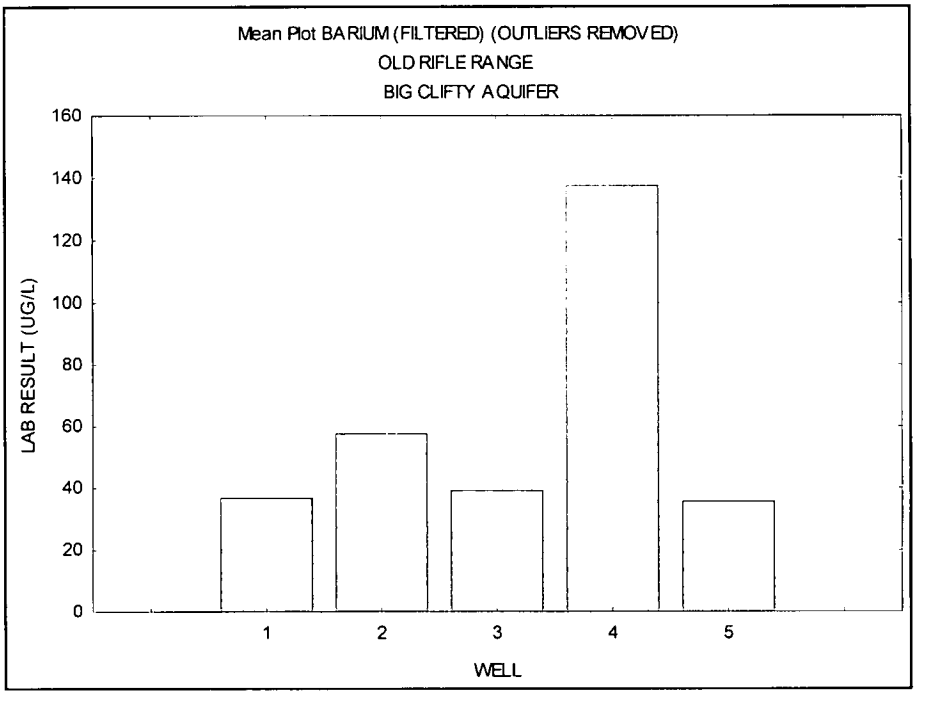


BARIUM (FILTERED) (OUTLIERS REMOVED) (UG/L)
OLD RIFLE RANGE
BIG CLIFTY AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C11P2	36.8368	19	15.20845	26.9000	97.9000
2	C13P2	57.8000	18	3.79535	53.4000	68.7000
3*	C14P2*	39.2765	17	2.59218	35.0000	44.0000
4	C18P2	137.6250	16	20.72961	104.0000	168.0000
5	C19P2	35.7350	20	3.05154	32.4000	45.5000
	All Grps	59.1633	90	39.21184	26.9000	168.0000

Table 7.121.

* Denotes Upgradient Well

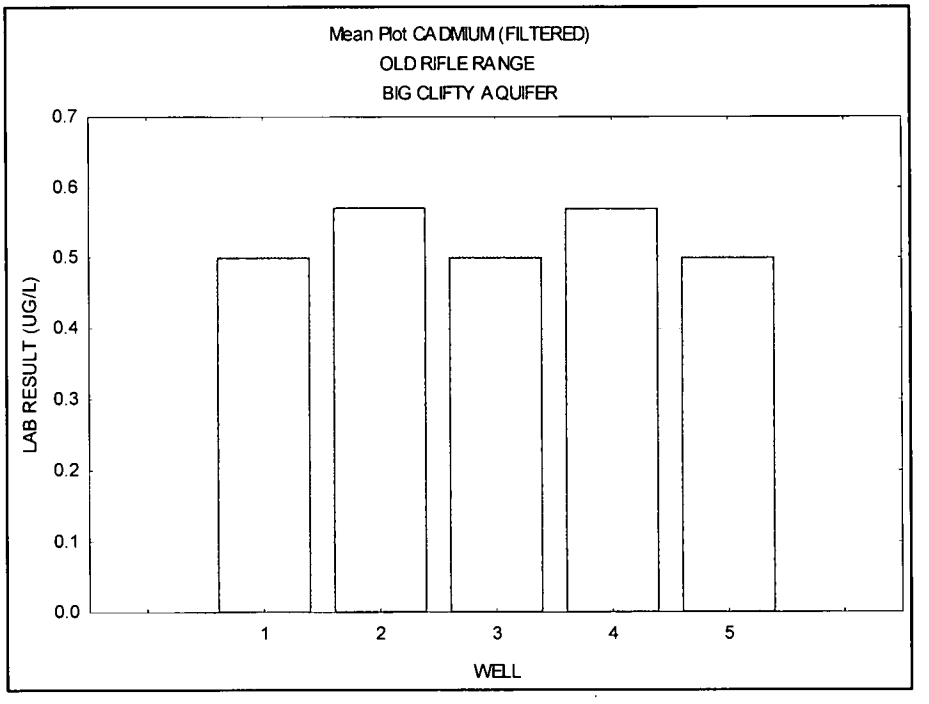


CADMIUM (FILTERED) (UG/L)
OLD RIFLE RANGE
BIG CLIFTY AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C11P2	0.500000	19	0.000000	0.500000	0.500000
2	C13P2	0.572222	18	0.210896	0.500000	1.200000
3*	C14P2*	0.500000	17	0.000000	0.500000	0.500000
4	C18P2	0.570588	17	0.291043	0.500000	1.700000
5	C19P2	0.500000	20	0.000000	0.500000	0.500000
	All Grps	0.527473	91	0.157103	0.500000	1.700000

Table 7.122.

* Denotes Upgradient Well

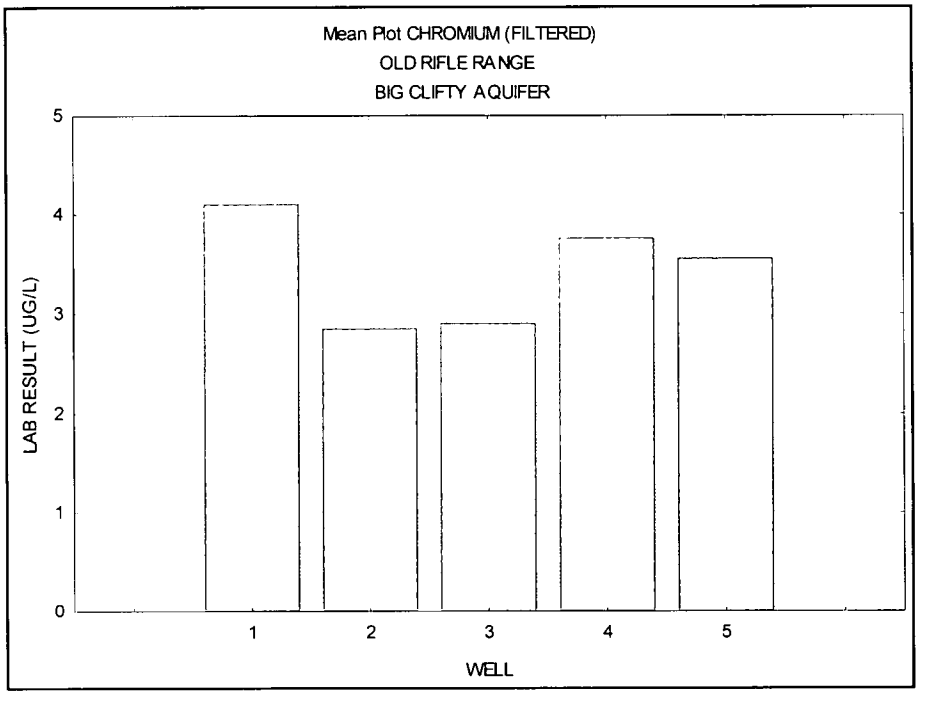


CHROMIUM (FILTERED) (UG/L)
OLD RIFLE RANGE
BIG CLIFTY AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C11P2	4.105263	19	4.219857	2.500000	18.90000
2	C13P2	2.855556	18	1.035387	2.500000	5.80000
3*	C14P2*	2.911765	17	1.170941	2.500000	6.40000
4	C18P2	3.758824	17	3.438397	2.500000	16.00000
5	C19P2	3.560000	20	1.992195	2.500000	8.40000
	All Grps	3.450549	91	2.680314	2.500000	18.90000

Table 7.123.

* Denotes Upgradient Well

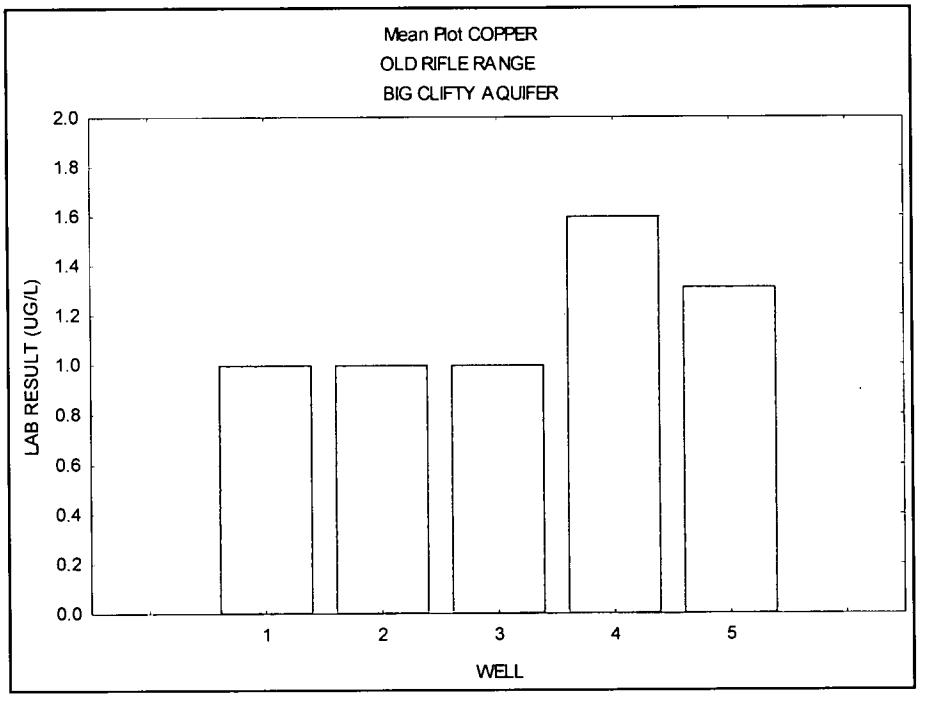


COPPER (UG/L)
OLD RIFLE RANGE
BIG CLIFTY AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C11P2	1.000000	19	0.000000	1.000000	1.000000
2	C13P2	1.000000	18	0.000000	1.000000	1.000000
3*	C14P2*	1.000000	17	0.000000	1.000000	1.000000
4	C18P2	1.600000	17	1.108490	1.000000	5.000000
5	C19P2	1.315000	20	0.822880	1.000000	4.000000
	All Grps	1.181319	91	0.646686	1.000000	5.000000

Table 7.124.

* Denotes Upgradient Well

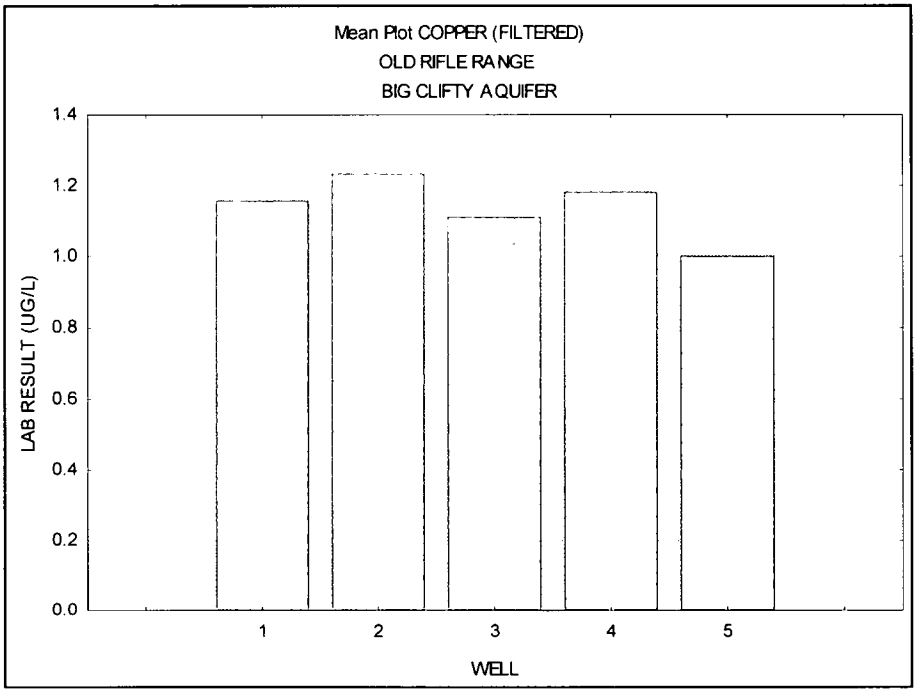


COPPER (FILTERED) (UG/L)
OLD RIFLE RANGE
BIG CLIFTY AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C11P2	1.157895	19	0.688247	1.000000	4.000000
2	C13P2	1.233333	18	0.760805	1.000000	4.100000
3*	C14P2*	1.111765	17	0.460818	1.000000	2.900000
4	C18P2	1.182353	17	0.522297	1.000000	2.800000
5	C19P2	1.000000	20	0.000000	1.000000	1.000000
	All Grps	1.134066	91	0.544920	1.000000	4.100000

Table 7.125.

* Denotes Upgradient Well

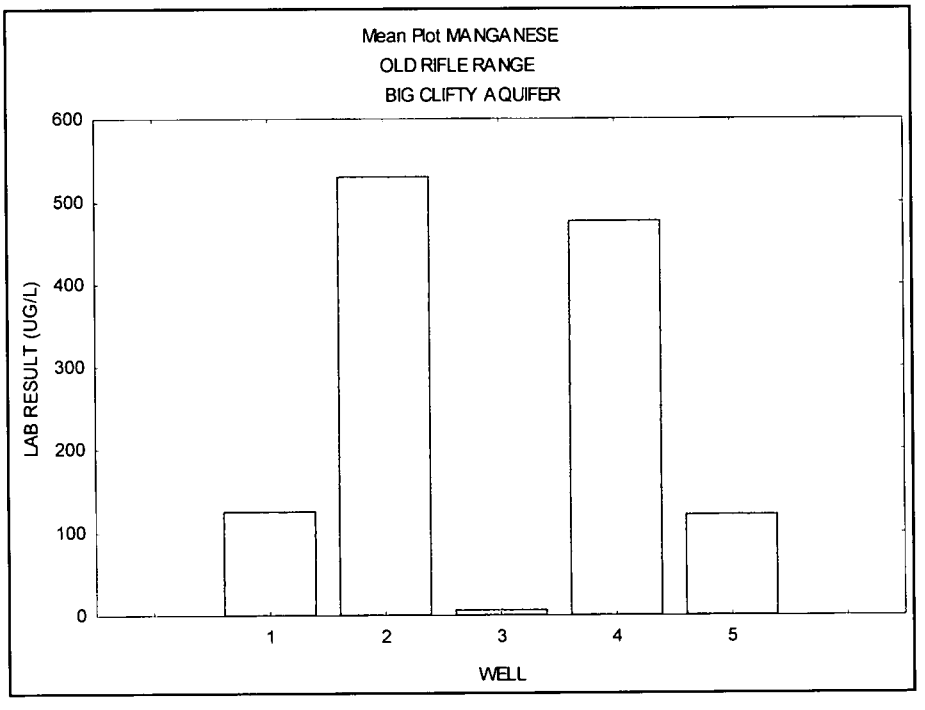


MANGANESE (UG/L)
OLD RIFLE RANGE
BIG CLIFTY AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C11P2	126.6105	19	31.2406	85.7000	193.0000
2	C13P2	531.8333	18	60.4456	437.0000	627.0000
3*	C14P2*	7.5000	17	0.0000	7.5000	7.5000
4	C18P2	478.7059	17	78.8779	349.0000	639.0000
5	C19P2	122.2000	20	16.0184	107.0000	165.0000
	All Grps	249.3198	91	213.9223	7.5000	639.0000

Table 7.126.

* Denotes Upgradient Well

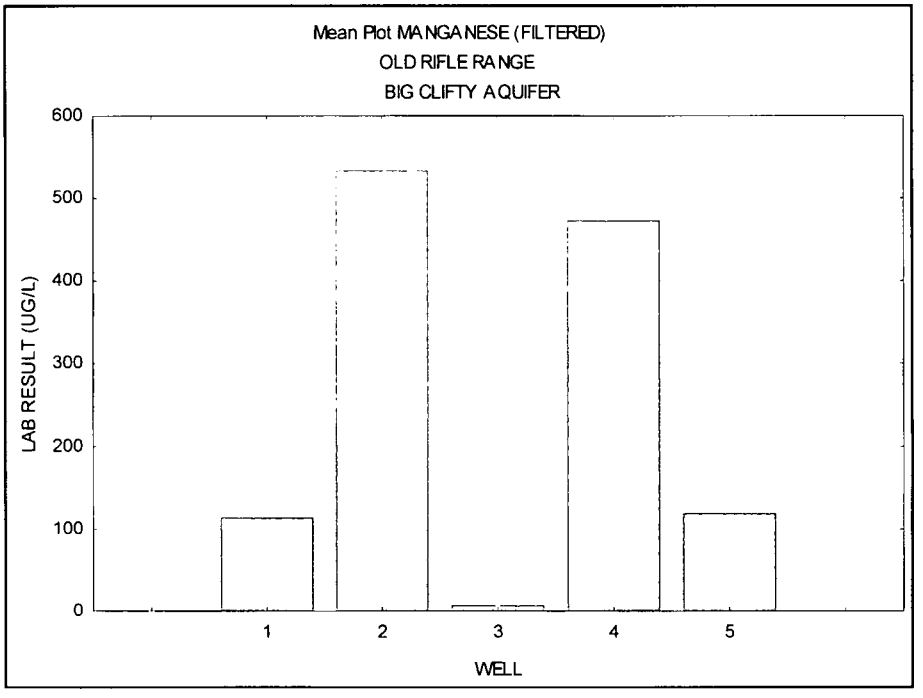


MANGANESE (FILTERED) (UG/L)
OLD RIFLE RANGE
BIG CLIFTY AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C11P2	114.0895	19	33.8691	76.2000	191.0000
2	C13P2	533.1667	18	64.6304	467.0000	672.0000
3*	C14P2*	7.5000	17	0.0000	7.5000	7.5000
4	C18P2	472.3529	17	69.9347	361.0000	607.0000
5	C19P2	119.0500	20	7.8437	106.0000	134.0000
	All Grps	245.0901	91	214.6394	7.5000	672.0000

Table 7.127.

* Denotes Upgradient Well

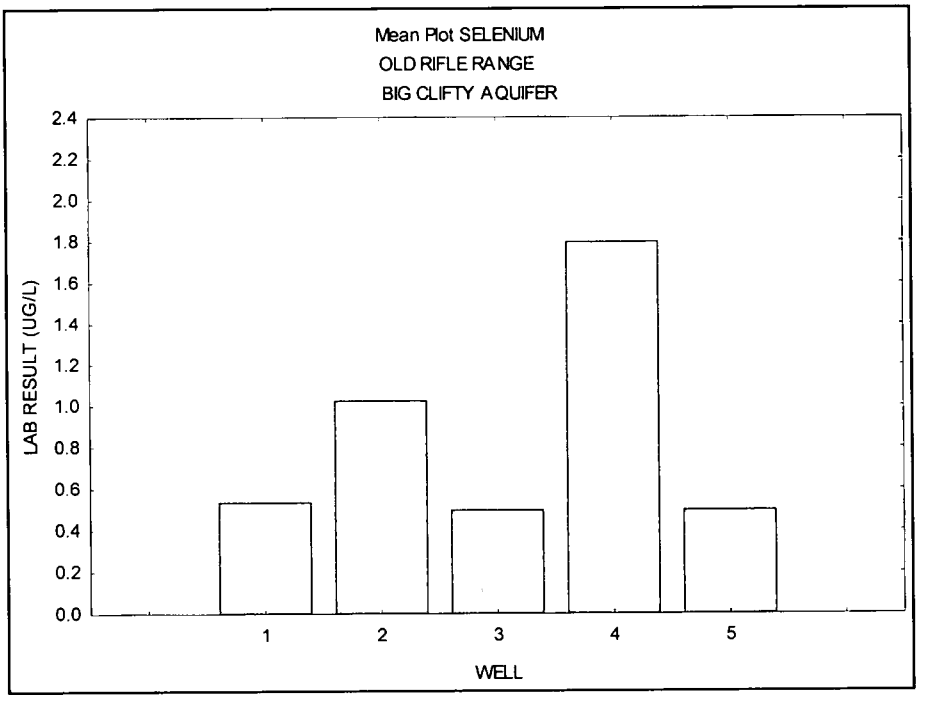


SELENIUM (UG/L)
OLD RIFLE RANGE
BIG CLIFTY AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C11P2	0.536842	19	0.160591	0.500000	1.200000
2	C13P2	1.027778	18	0.652421	0.500000	2.200000
3*	C14P2*	0.500000	17	0.000000	0.500000	0.500000
4	C18P2	1.800000	17	1.562450	0.500000	6.100000
5	C19P2	0.500000	20	0.000000	0.500000	0.500000
	All Grps	0.854945	91	0.876009	0.500000	6.100000

Table 7.128.

* Denotes Upgradient Well

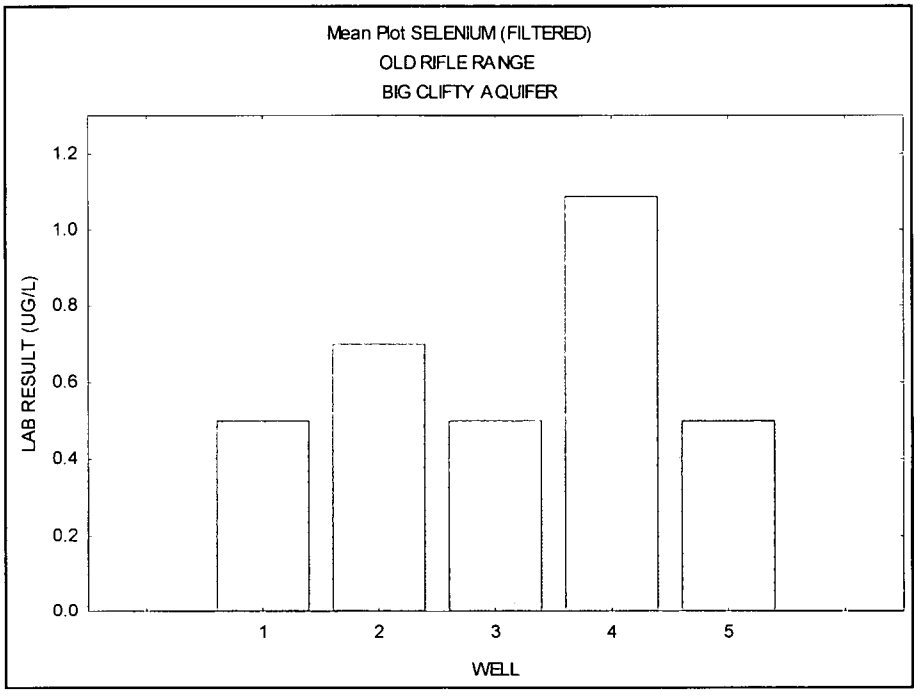


SELENIUM (FILTERED) (UG/L)
OLD RIFLE RANGE
BIG CLIFTY AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C11P2	0.500000	19	0.000000	0.500000	0.500000
2	C13P2	0.700000	18	0.591111	0.500000	2.600000
3*	C14P2*	0.500000	17	0.000000	0.500000	0.500000
4	C18P2	1.088235	17	0.647961	0.500000	2.400000
5	C19P2	0.500000	20	0.000000	0.500000	0.500000
	All Grps	0.649451	91	0.437512	0.500000	2.600000

Table 7.129.

* Denotes Upgradient Well

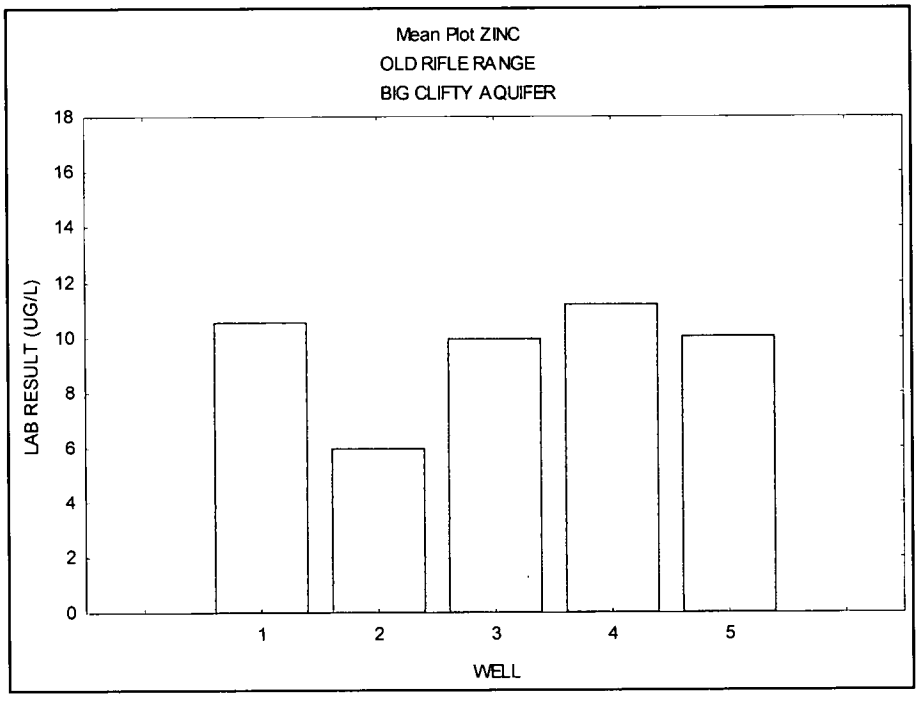


ZINC (UG/L)
OLD RIFLE RANGE
BIG CLIFTY AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C11P2	10.59474	19	14.33537	5.000000	58.90000
2	C13P2	6.00000	18	4.24264	5.000000	23.00000
3*	C14P2*	9.98235	17	14.83510	5.000000	64.80000
4	C18P2	11.23529	17	18.03379	5.000000	69.10000
5	C19P2	10.08500	20	20.93416	5.000000	98.70000
	All Grps	9.57912	91	15.40601	5.000000	98.70000

Table 7.130.

* Denotes Upgradient Well

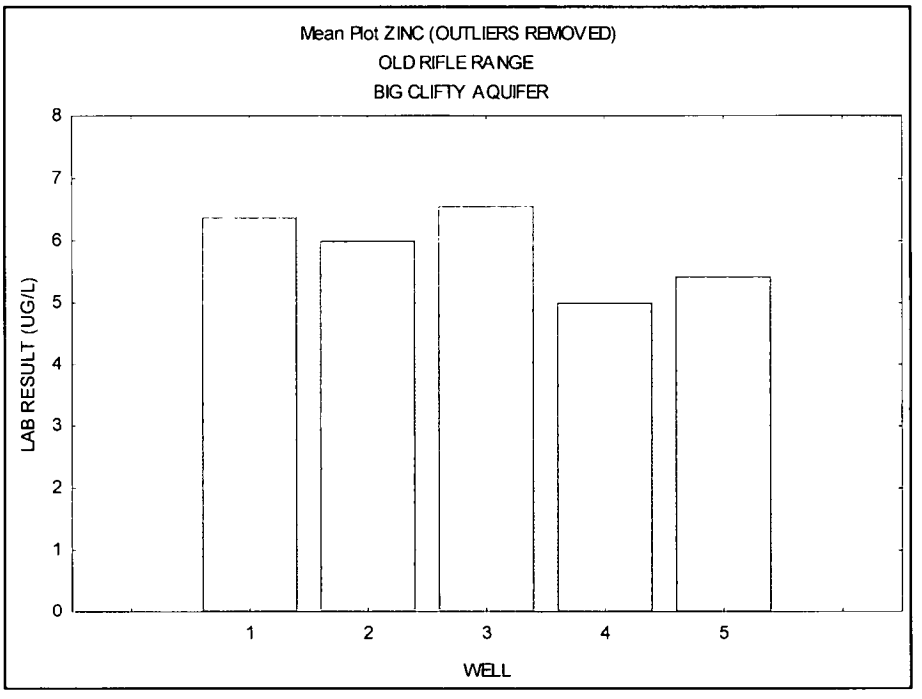


ZINC (OUTLIERS REMOVED) (UG/L)
OLD RIFLE RANGE
BIG CLIFTY AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C11P2	6.376471	17	5.675334	5.000000	28.40000
2	C13P2	6.000000	18	4.242641	5.000000	23.00000
3*	C14P2*	6.556250	16	4.679739	5.000000	22.80000
4	C18P2	5.000000	15	0.000000	5.000000	5.00000
5	C19P2	5.421053	19	1.835326	5.000000	13.00000
	All Grps	5.874118	85	3.838810	5.000000	28.40000

Table 7.131.

* Denotes Upgradient Well

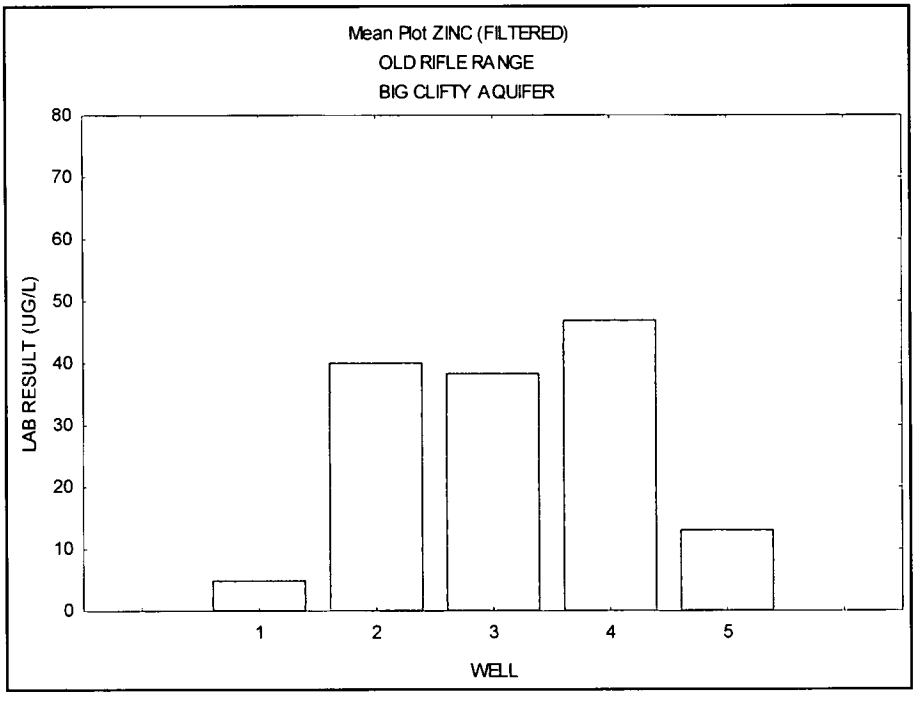


ZINC (FILTERED) (UG/L)
OLD RIFLE RANGE
BIG CLIFTY AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C11P2	5.00000	19	0.0000	5.000000	5.0000
2	C13P2	40.18889	18	86.1222	5.000000	347.0000
3*	C14P2*	38.46471	17	88.2287	5.000000	304.0000
4	C18P2	47.03529	17	122.3609	5.000000	505.0000
5	C19P2	13.19500	20	25.6919	5.000000	102.0000
	All Grps	27.86593	91	76.5843	5.000000	505.0000

Table 7.132.

* Denotes Upgradient Well

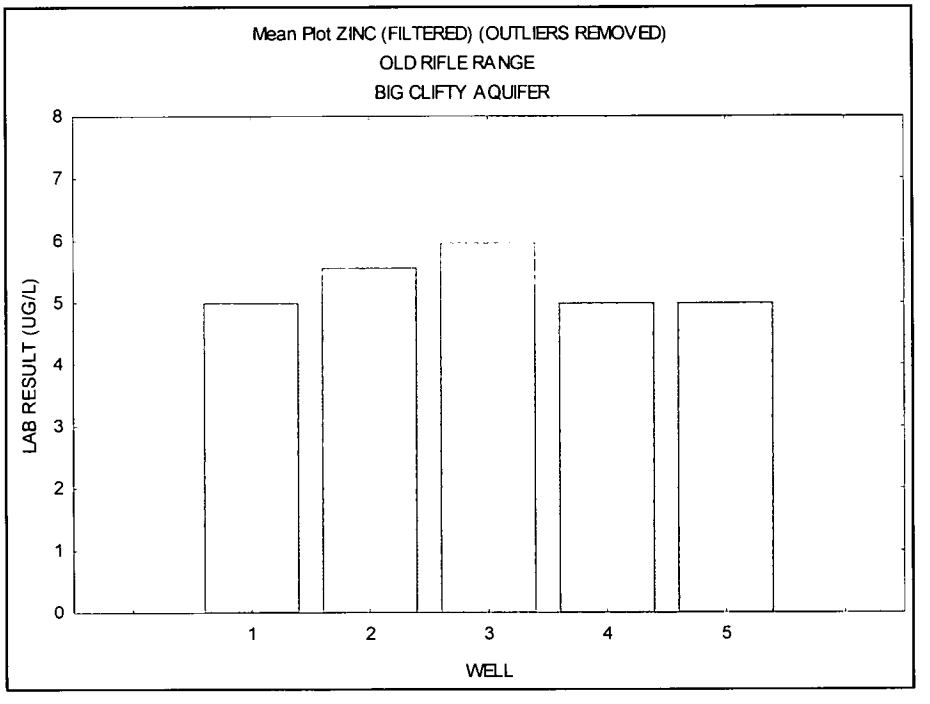


ZINC (FILTERED) (OUTLIERS REMOVED) (UG/L)
OLD RIFLE RANGE
BIG CLIFTY AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C11P2	5.000000	19	0.000000	5.000000	5.00000
2	C13P2	5.569231	13	2.052391	5.000000	12.40000
3*	C14P2*	5.971429	14	3.634753	5.000000	18.60000
4	C18P2	5.000000	13	0.000000	5.000000	5.00000
5	C19P2	5.000000	18	0.000000	5.000000	5.00000
	All Grps	5.272727	77	1.754666	5.000000	18.60000

Table 7.133.

* Denotes Upgradient Well



MISCELLANEOUS PARAMETERS

OLD RIFLE RANGE
BIG CLIFTY AQUIFER

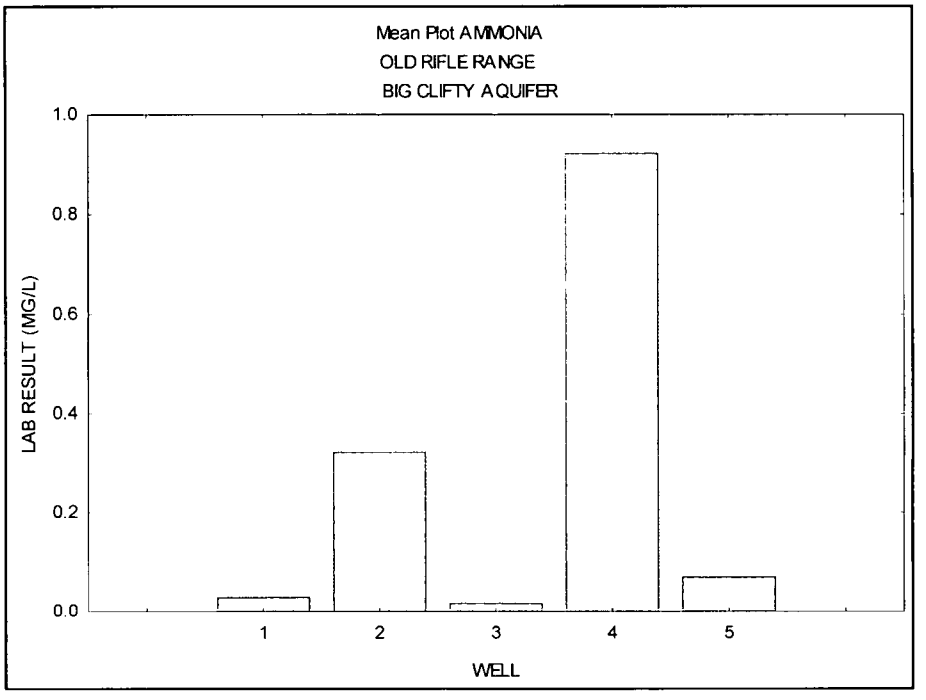
Tables 7.134 through 7.136

AMMONIA (MG/L)
OLD RIFLE RANGE
BIG CLIFTY AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C11P2	0.030786	19	0.035011	0.005000	0.150000
2	C13P2	0.323332	18	0.043522	0.259990	0.430000
3*	C14P2*	0.019116	17	0.032509	0.005000	0.129990
4	C18P2	0.922939	17	0.114935	0.759990	1.200000
5	C19P2	0.070746	20	0.063830	0.005000	0.319990
	All Grps	0.261921	91	0.343254	0.005000	1.200000

Table 7.134.

* Denotes Upgradient Well

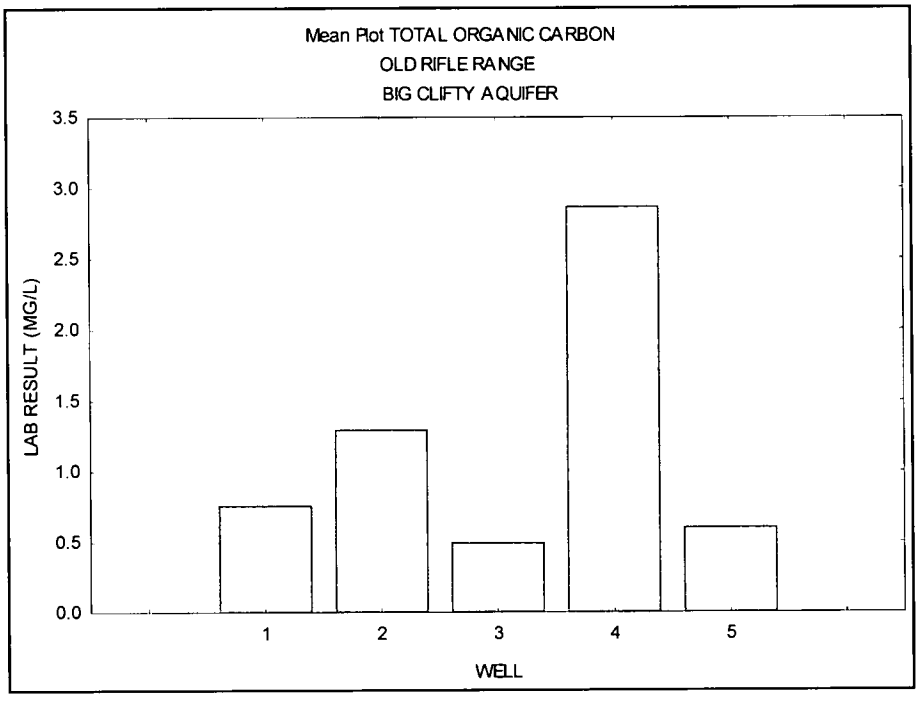


TOTAL ORGANIC CARBON (MG/L)
OLD RIFLE RANGE
BIG CLIFTY AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C11P2	0.763158	19	0.791069	0.500000	3.200000
2	C13P2	1.300000	18	0.171499	1.000000	1.700000
3*	C14P2*	0.500000	17	0.000000	0.500000	0.500000
4	C18P2	2.870588	17	0.874475	1.600000	4.500000
5	C19P2	0.610000	20	0.491935	0.500000	2.700000
	All Grps	1.180220	91	1.027967	0.500000	4.500000

Table 7.135.

* Denotes Upgradient Well

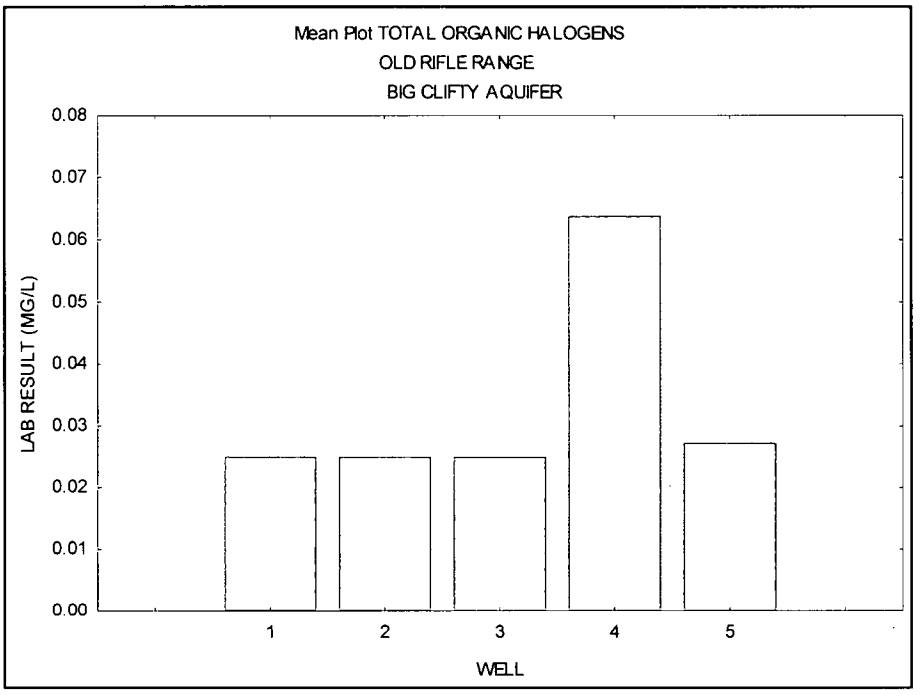


TOTAL ORGANIC HALOGENS (MG/L)
OLD RIFLE RANGE
BIG CLIFTY AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C11P2	0.025000	19	0.000000	0.025000	0.025000
2	C13P2	0.025000	18	0.000000	0.025000	0.025000
3*	C14P2*	0.025000	17	0.000000	0.025000	0.025000
4	C18P2	0.063822	17	0.077429	0.025000	0.330000
5	C19P2	0.027250	20	0.010062	0.025000	0.070000
	All Grps	0.032747	91	0.036226	0.025000	0.330000

Table 7.136.

* Denotes Upgradient Well



METALS

DEMO RANGE
BIG CLIFTY/BEECH CREEK AQUIFER

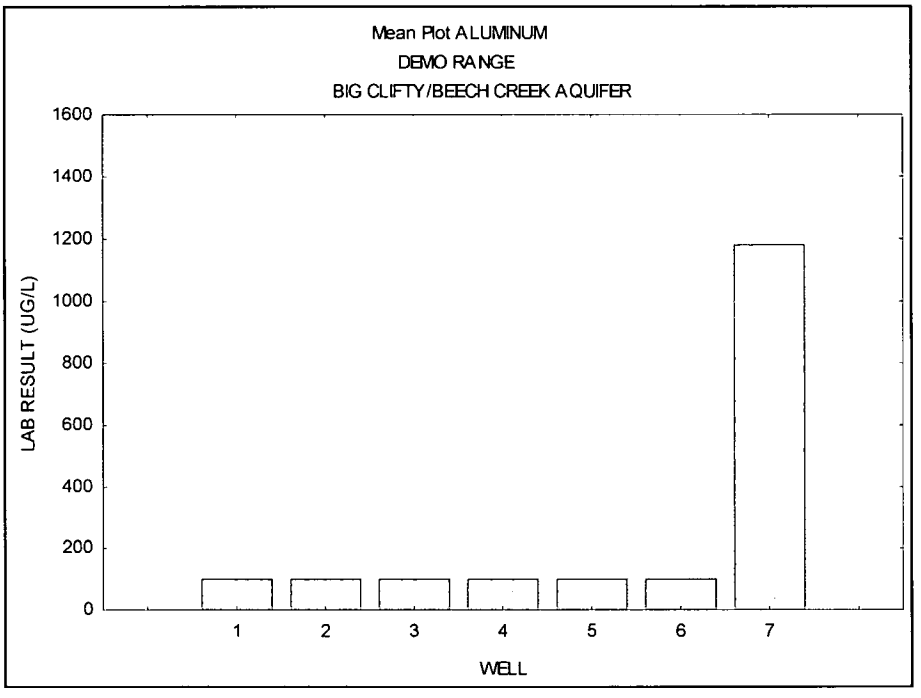
Tables 7.137 through 7.156

ALUMINUM (UG/L)
DEMO RANGE
BIG CLIFTY/BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02	100.000	8	0.0000	100.0000	100.000
2	C03	100.000	6	0.0000	100.0000	100.000
3	C04	100.000	6	0.0000	100.0000	100.000
4	C05	100.000	6	0.0000	100.0000	100.000
5	C06	100.000	8	0.0000	100.0000	100.000
6	C07	100.000	6	0.0000	100.0000	100.000
7*	C08*	1182.667	6	581.5519	396.0000	1670.000
	All Grps	241.217	46	416.5111	100.0000	1670.000

Table 7.137.

* Denotes Upgradient Well

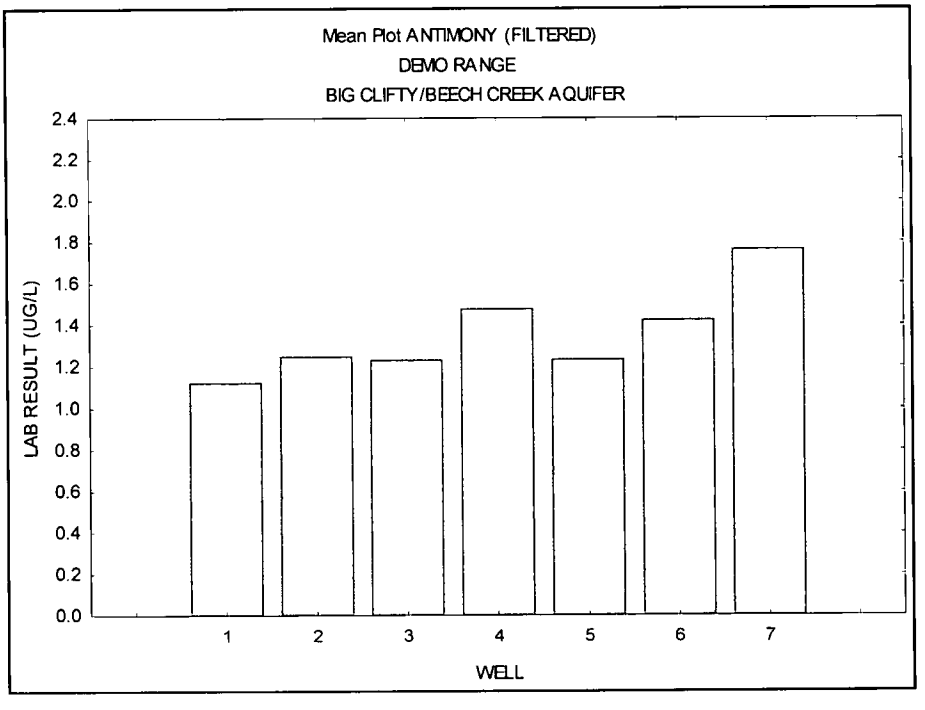


ANTIMONY (FILTERED) (UG/L)
DEMO RANGE
BIG CLIFTY/BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02	1.125000	12	0.961178	0.500000	3.100000
2	C03	1.250000	10	0.938379	0.500000	2.900000
3	C04	1.233333	9	0.950000	0.500000	3.000000
4	C05	1.480000	10	1.149686	0.500000	3.300000
5	C06	1.236364	11	0.914629	0.500000	2.700000
6	C07	1.425000	8	1.034753	0.500000	2.800000
7*	C08*	1.766667	9	1.231868	0.500000	3.300000
	All Grps	1.344928	69	0.999638	0.500000	3.300000

Table 7.138.

* Denotes Upgradient Well

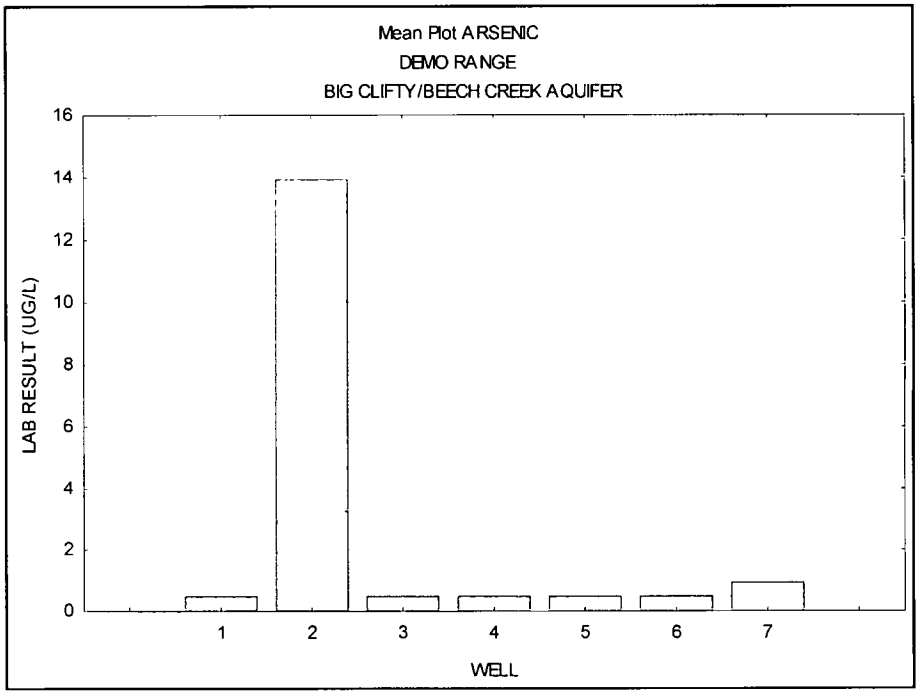


ARSENIC (UG/L)
DEMO RANGE
BIG CLIFTY/BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02	0.50000	12	0.000000	0.50000	0.50000
2	C03	13.94000	10	1.482640	11.20000	16.60000
3	C04	0.50000	9	0.000000	0.50000	0.50000
4	C05	0.50000	10	0.000000	0.50000	0.50000
5	C06	0.50000	11	0.000000	0.50000	0.50000
6	C07	0.50000	8	0.000000	0.50000	0.50000
7*	C08*	0.92222	9	0.516667	0.50000	1.70000
	All Grps	2.50290	69	4.779028	0.50000	16.60000

Table 7.139.

* Denotes Upgradient Well

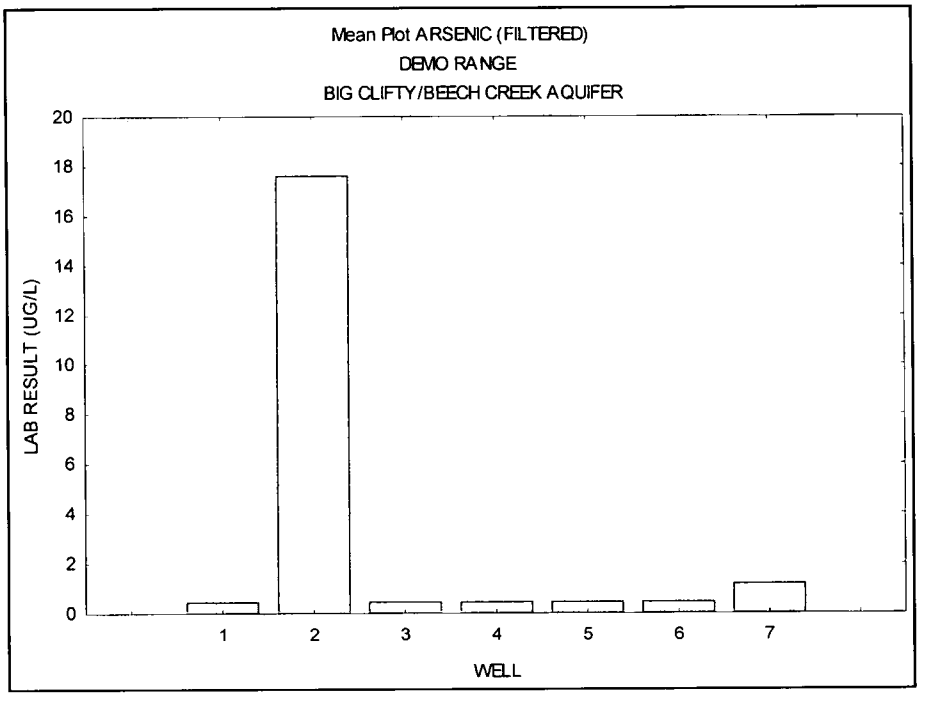


ARSENIC (FILTERED) (UG/L)
DEMO RANGE
BIG CLIFTY/BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02	0.50000	12	0.000000	0.50000	0.50000
2	C03	17.64000	10	1.955164	12.90000	20.40000
3	C04	0.50000	9	0.000000	0.50000	0.50000
4	C05	0.50000	10	0.000000	0.50000	0.50000
5	C06	0.50000	11	0.000000	0.50000	0.50000
6	C07	0.50000	8	0.000000	0.50000	0.50000
7*	C08*	1.21111	9	0.506074	0.50000	2.00000
	All Grps	3.07681	69	6.088372	0.50000	20.40000

Table 7.140.

* Denotes Upgradient Well

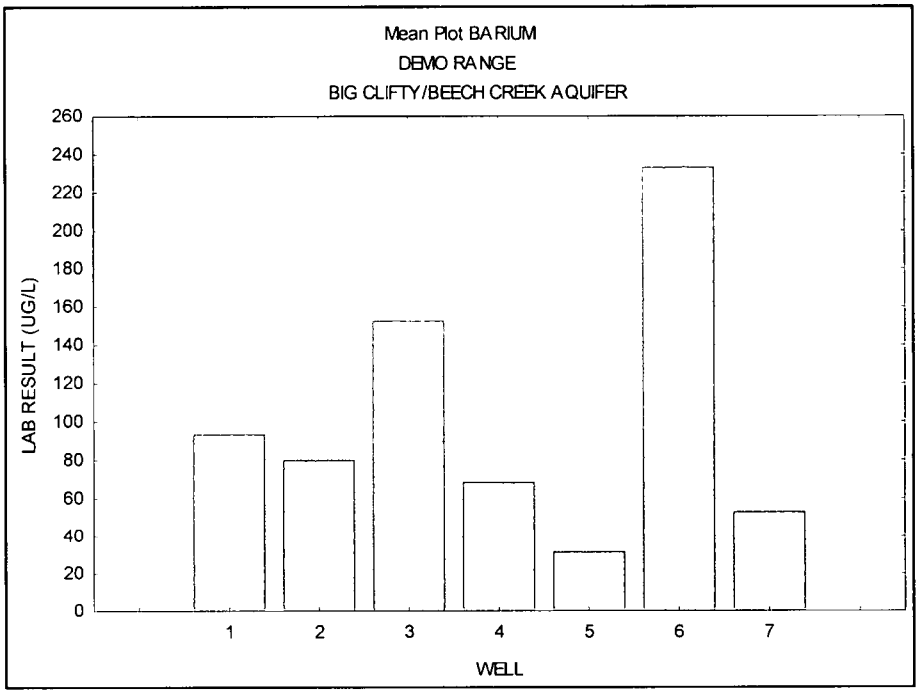


BARIUM (UG/L)
DEMO RANGE
BIG CLIFTY/BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02	93.5000	12	7.20454	83.6000	105.0000
2	C03	79.9300	10	3.29581	76.3000	85.1000
3	C04	152.8889	9	9.47951	140.0000	171.0000
4	C05	68.5000	10	2.80000	64.2000	73.8000
5	C06	31.6545	11	2.24516	26.6000	36.1000
6	C07	233.5000	8	11.89237	218.0000	252.0000
7*	C08*	53.2333	9	31.30280	36.0000	134.0000
	All Grps	96.7768	69	62.17829	26.6000	252.0000

Table 7.141.

* Denotes Upgradient Well

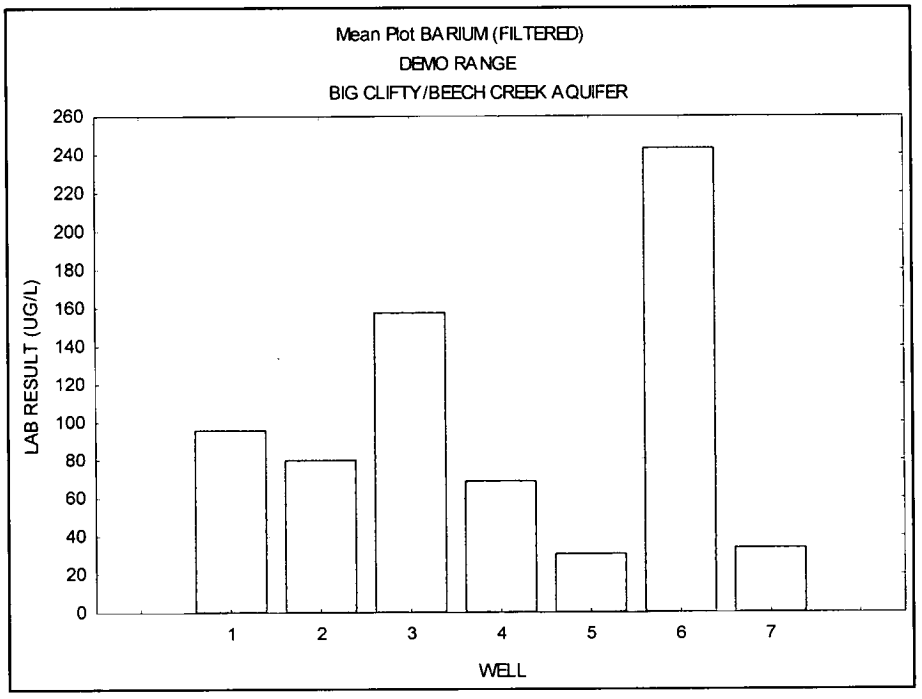


BARIUM (FILTERED) (UG/L)
DEMO RANGE
BIG CLIFTY/BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02	96.1333	12	7.05683	86.8000	108.0000
2	C03	80.1500	10	6.83215	71.7000	92.2000
3	C04	157.8889	9	22.12151	133.0000	201.0000
4	C05	69.2800	10	6.12949	60.6000	76.9000
5	C06	30.9364	11	2.42746	25.1000	35.0000
6	C07	243.6250	8	15.21219	226.0000	276.0000
7*	C08*	34.2556	9	3.73768	30.6000	40.4000
	All Grps	96.6159	69	67.11842	25.1000	276.0000

Table 7.142.

* Denotes Upgradient Well

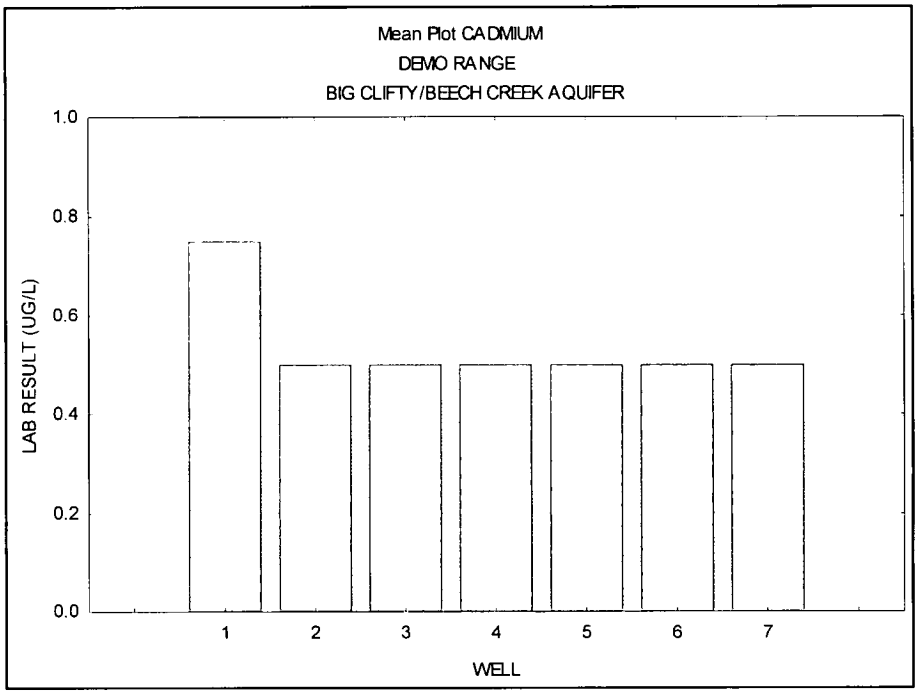


CADMIUM (UG/L)
DEMO RANGE
BIG CLIFTY/BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02	0.750000	12	0.483359	0.500000	1.900000
2	C03	0.500000	10	0.000000	0.500000	0.500000
3	C04	0.500000	9	0.000000	0.500000	0.500000
4	C05	0.500000	10	0.000000	0.500000	0.500000
5	C06	0.500000	11	0.000000	0.500000	0.500000
6	C07	0.500000	8	0.000000	0.500000	0.500000
7*	C08*	0.500000	9	0.000000	0.500000	0.500000
	All Grps	0.543478	69	0.216576	0.500000	1.900000

Table 7.143.

* Denotes Upgradient Well

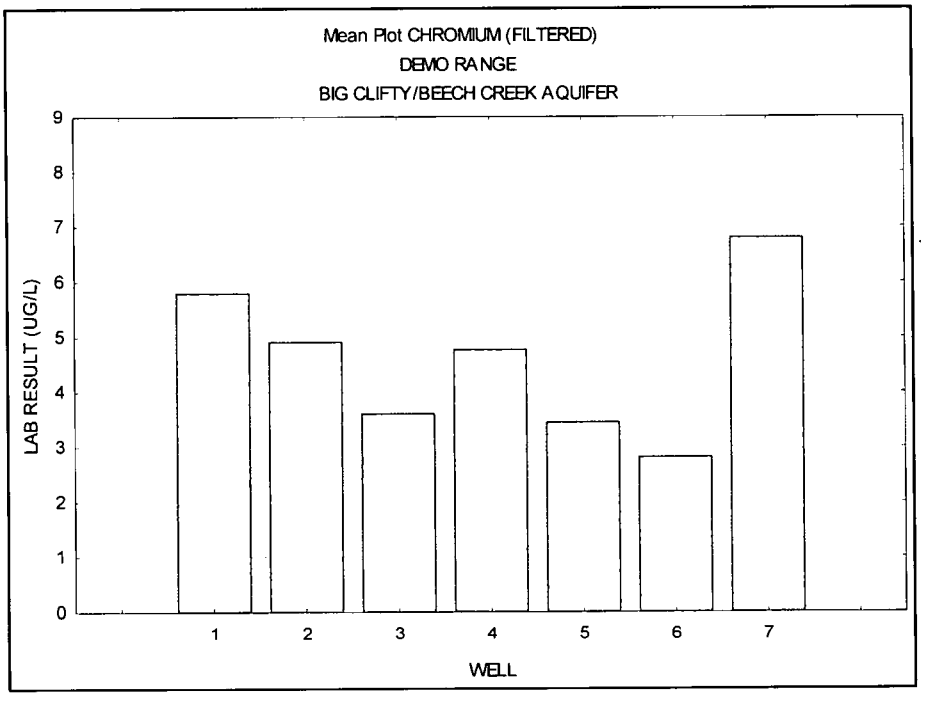


CHROMIUM (FILTERED) (UG/L)
DEMO RANGE
BIG CLIFTY/BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02	5.816667	12	2.743532	2.500000	9.90000
2	C03	4.930000	10	1.791988	2.500000	7.00000
3	C04	3.622222	9	1.734054	2.500000	6.80000
4	C05	4.790000	10	2.545344	2.500000	8.70000
5	C06	3.463636	11	1.699572	2.500000	7.00000
6	C07	2.825000	8	0.919239	2.500000	5.10000
7*	C08*	6.811111	9	3.118271	2.500000	12.30000
	All Grps	4.660870	69	2.478212	2.500000	12.30000

Table 7.144.

* Denotes Upgradient Well

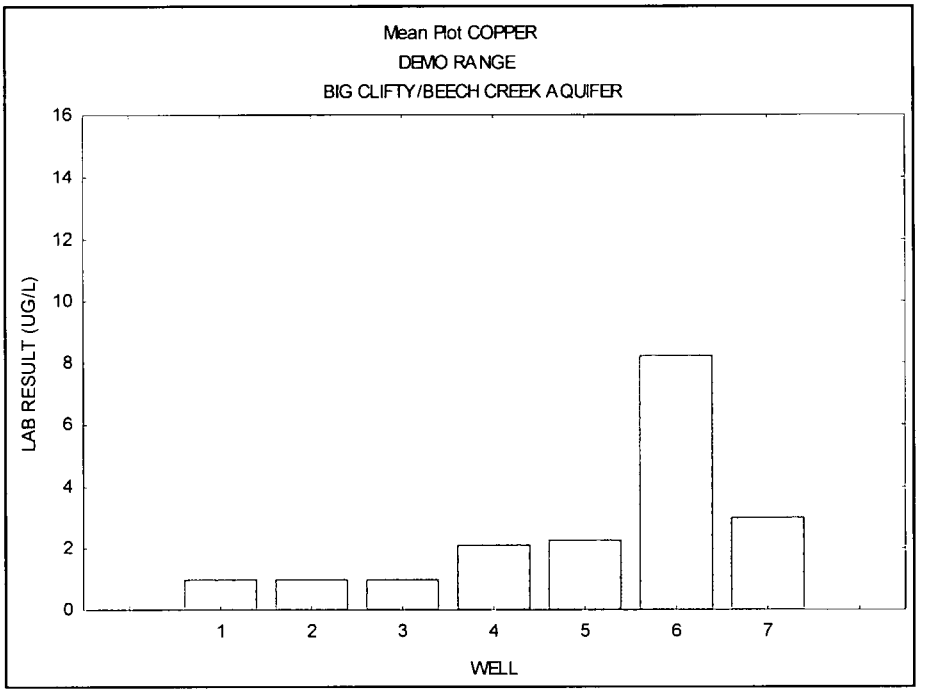


COPPER (UG/L)
DEMO RANGE
BIG CLIFTY/BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02	1.000000	12	0.00000	1.000000	1.00000
2	C03	1.000000	10	0.00000	1.000000	1.00000
3	C04	1.000000	9	0.00000	1.000000	1.00000
4	C05	2.140000	10	1.02437	1.000000	3.30000
5	C06	2.281818	11	1.50188	1.000000	5.70000
6	C07	8.250000	8	15.91926	1.000000	47.20000
7*	C08*	3.044444	9	1.01626	1.000000	4.60000
	All Grps	2.476812	69	5.62678	1.000000	47.20000

Table 7.145.

* Denotes Upgradient Well

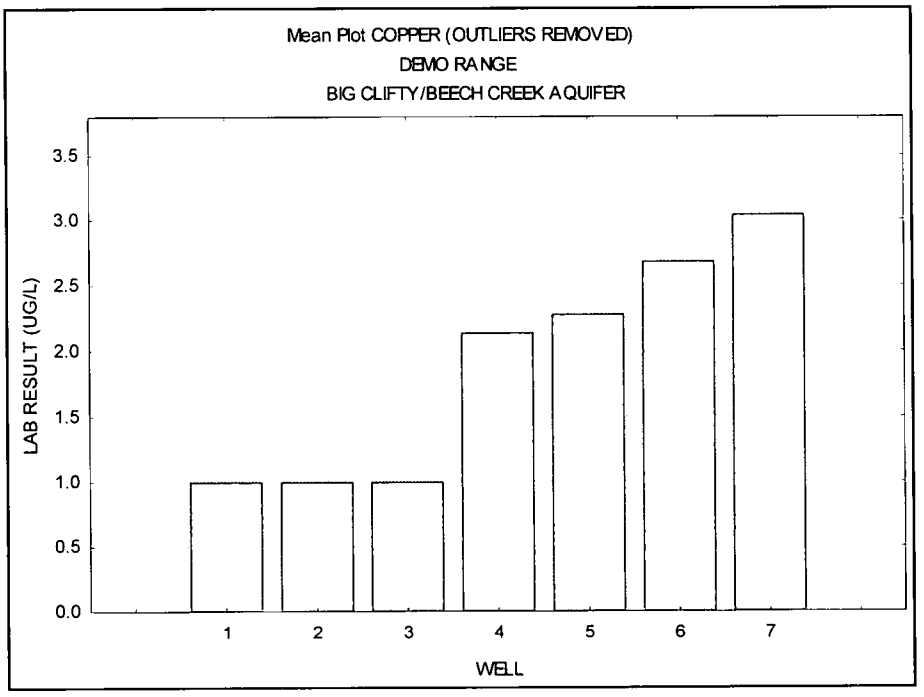


COPPER (OUTLIERS REMOVED) (UG/L)
DEMO RANGE
BIG CLIFTY/BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02	1.000000	12	0.000000	1.000000	1.000000
2	C03	1.000000	10	0.000000	1.000000	1.000000
3	C04	1.000000	9	0.000000	1.000000	1.000000
4	C05	2.140000	10	1.024370	1.000000	3.300000
5	C06	2.281818	11	1.501878	1.000000	5.700000
6	C07	2.685714	7	2.586135	1.000000	7.800000
7*	C08*	3.044444	9	1.016257	1.000000	4.600000
	All Grps	1.819118	68	1.356824	1.000000	7.800000

Table 7.146.

* Denotes Upgradient Well

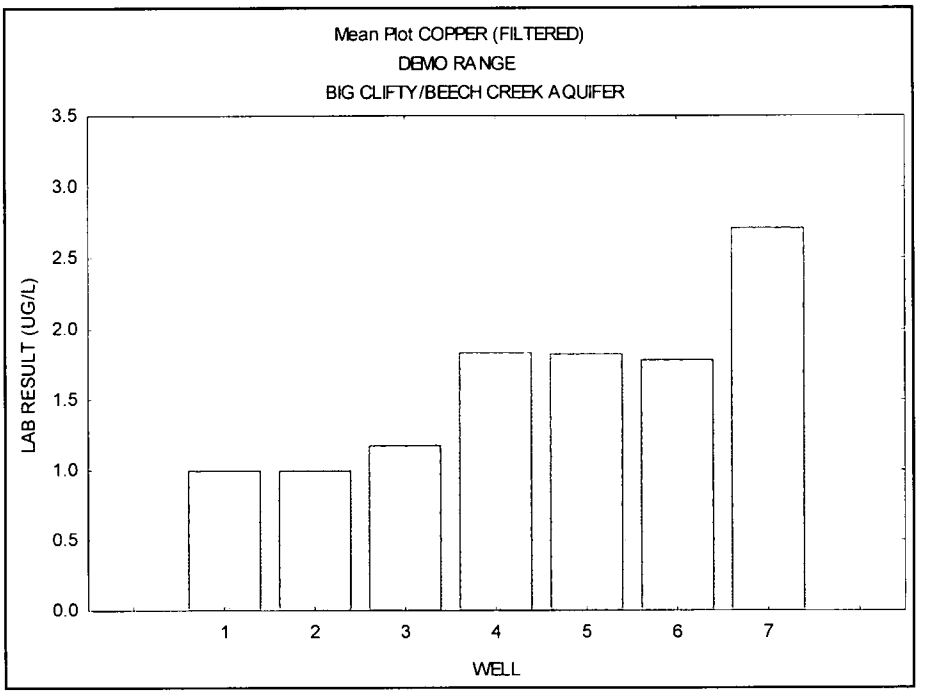


COPPER (FILTERED) (UG/L)
DEMO RANGE
BIG CLIFTY/BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02	1.000000	12	0.000000	1.000000	1.000000
2	C03	1.000000	10	0.000000	1.000000	1.000000
3	C04	1.177778	9	0.533333	1.000000	2.600000
4	C05	1.840000	10	0.945398	1.000000	3.500000
5	C06	1.827273	11	1.106428	1.000000	4.100000
6	C07	1.787500	8	0.898312	1.000000	3.200000
7*	C08*	2.711111	9	1.241415	1.000000	5.100000
	All Grps	1.591304	69	0.959433	1.000000	5.100000

Table 7.147.

* Denotes Upgradient Well

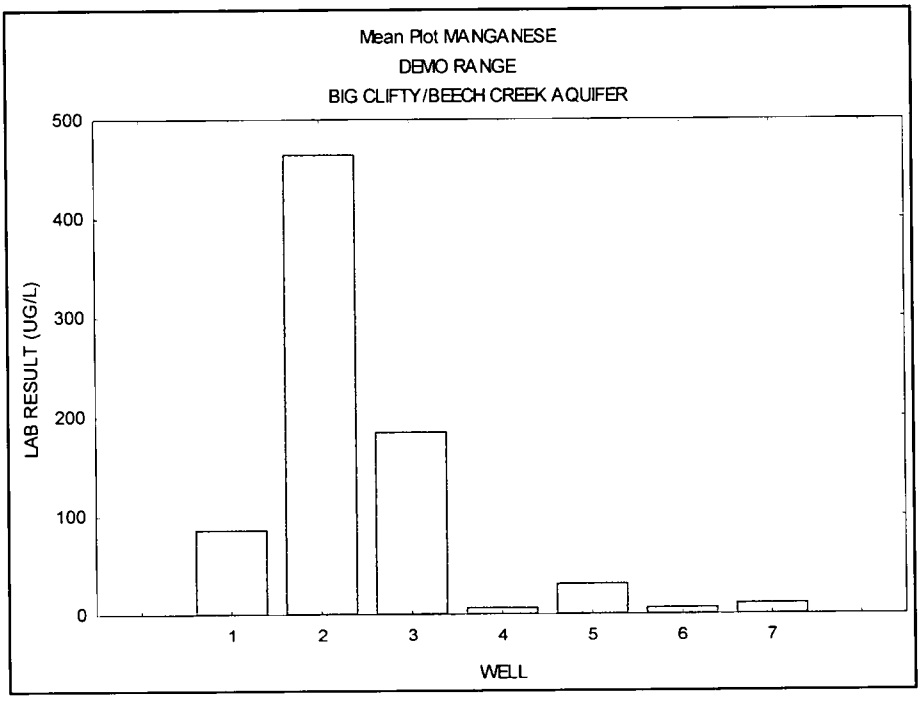


MANGANESE (UG/L)
DEMO RANGE
BIG CLIFTY/BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02	87.1500	12	6.7534	79.6000	98.9000
2	C03	465.4000	10	44.9152	416.0000	549.0000
3	C04	185.3333	9	18.8812	159.0000	212.0000
4	C05	7.5000	10	0.0000	7.5000	7.5000
5	C06	31.8727	11	23.1734	7.5000	69.3000
6	C07	7.5000	8	0.0000	7.5000	7.5000
7*	C08*	11.9222	9	13.2667	7.5000	47.3000
	All Grps	115.3725	69	157.6275	7.5000	549.0000

Table 7.148.

* Denotes Upgradient Well

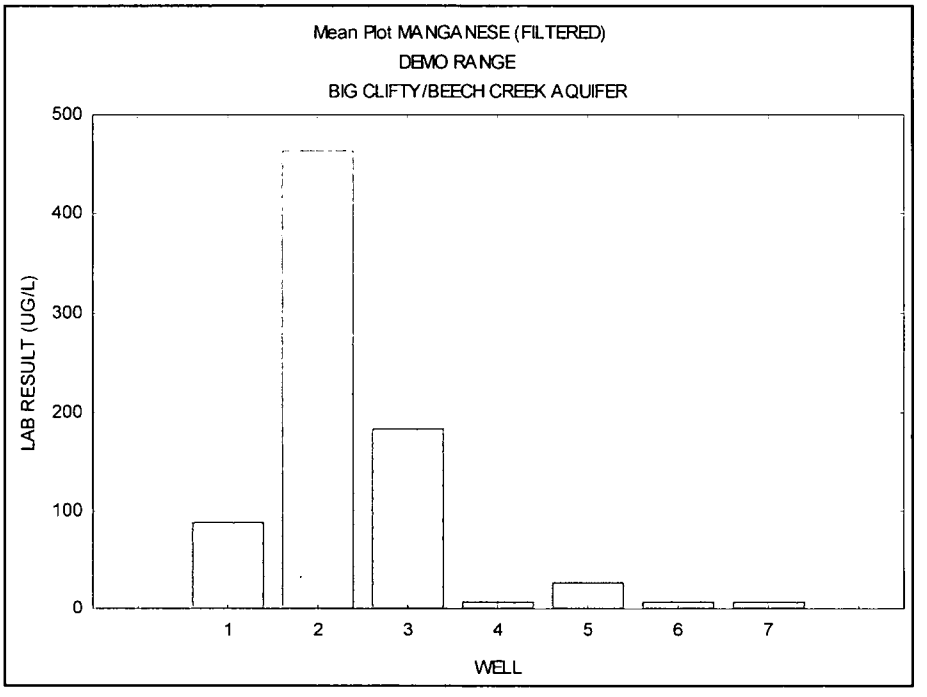


MANGANESE (FILTERED) (UG/L)
DEMO RANGE
BIG CLIFTY/BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02	89.2167	12	4.9278	82.7000	97.0000
2	C03	464.0000	10	48.1525	399.0000	518.0000
3	C04	184.4444	9	23.7756	155.0000	214.0000
4	C05	7.5000	10	0.0000	7.5000	7.5000
5	C06	27.2455	11	21.7413	7.5000	61.1000
6	C07	7.5000	8	0.0000	7.5000	7.5000
7*	C08*	7.5000	9	0.0000	7.5000	7.5000
	All Grps	114.0986	69	157.9485	7.5000	518.0000

Table 7.149.

* Denotes Upgradient Well

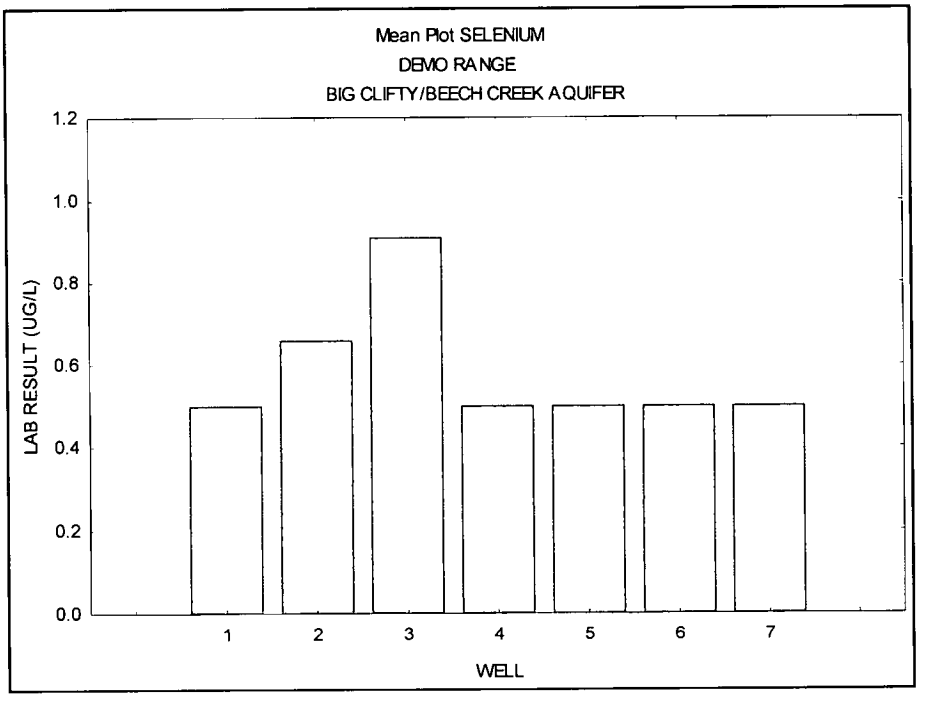


SELENIUM (UG/L)
DEMO RANGE
BIG CLIFTY/BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02	0.500000	12	0.000000	0.500000	0.500000
2	C03	0.660000	10	0.505964	0.500000	2.100000
3	C04	0.911111	9	0.541859	0.500000	2.000000
4	C05	0.500000	10	0.000000	0.500000	0.500000
5	C06	0.500000	11	0.000000	0.500000	0.500000
6	C07	0.500000	8	0.000000	0.500000	0.500000
7*	C08*	0.500000	9	0.000000	0.500000	0.500000
	All Grps	0.576812	69	0.297611	0.500000	2.100000

Table 7.150.

* Denotes Upgradient Well

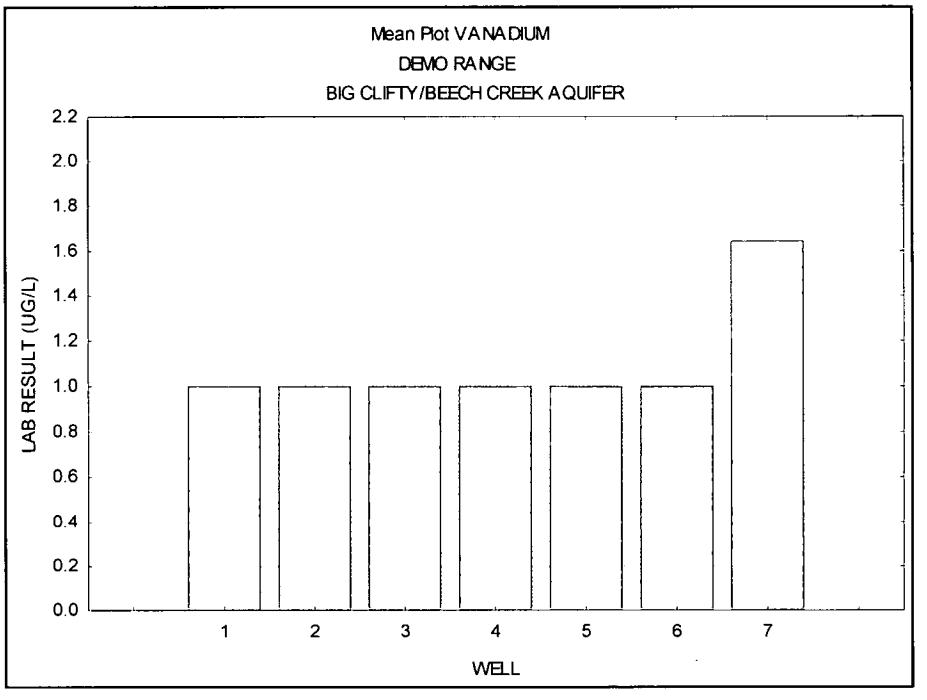


VANADIUM (UG/L)
DEMO RANGE
BIG CLIFTY/BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02	1.000000	12	0.000000	1.000000	1.000000
2	C03	1.000000	10	0.000000	1.000000	1.000000
3	C04	1.000000	9	0.000000	1.000000	1.000000
4	C05	1.000000	10	0.000000	1.000000	1.000000
5	C06	1.000000	11	0.000000	1.000000	1.000000
6	C07	1.000000	8	0.000000	1.000000	1.000000
7*	C08*	1.644444	9	1.093288	1.000000	4.100000
	All Grps	1.084058	69	0.434072	1.000000	4.100000

Table 7.151.

* Denotes Upgradient Well

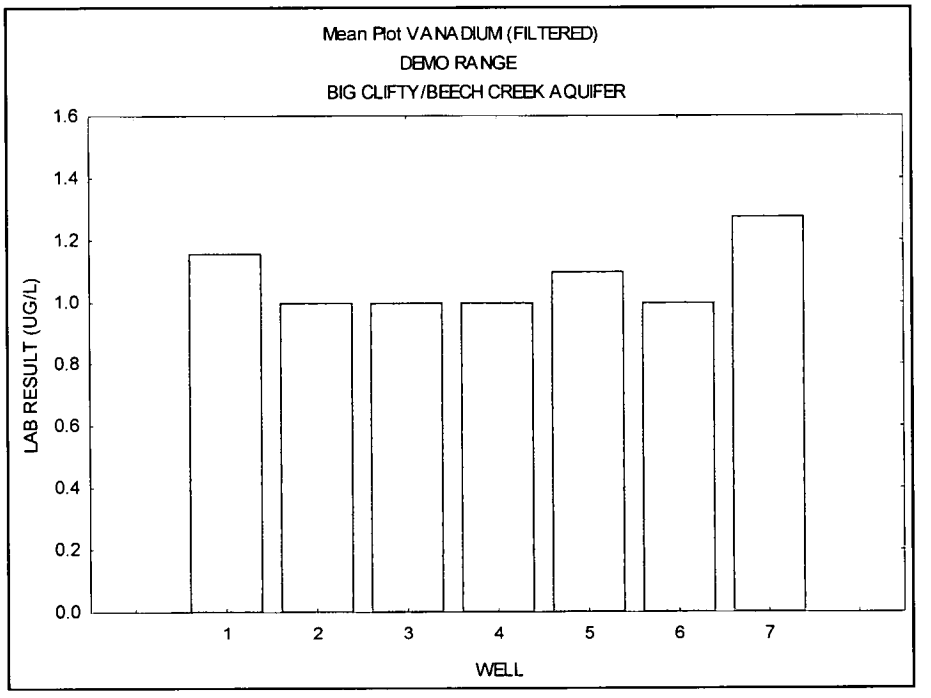


VANADIUM (FILTERED) (UG/L)
DEMO RANGE
BIG CLIFTY/BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02	1.158333	12	0.548483	1.000000	2.900000
2	C03	1.000000	10	0.000000	1.000000	1.000000
3	C04	1.000000	9	0.000000	1.000000	1.000000
4	C05	1.000000	10	0.000000	1.000000	1.000000
5	C06	1.100000	11	0.331662	1.000000	2.100000
6	C07	1.000000	8	0.000000	1.000000	1.000000
7*	C08*	1.277778	9	0.833333	1.000000	3.500000
	All Grps	1.079710	69	0.395407	1.000000	3.500000

Table 7.152.

* Denotes Upgradient Well

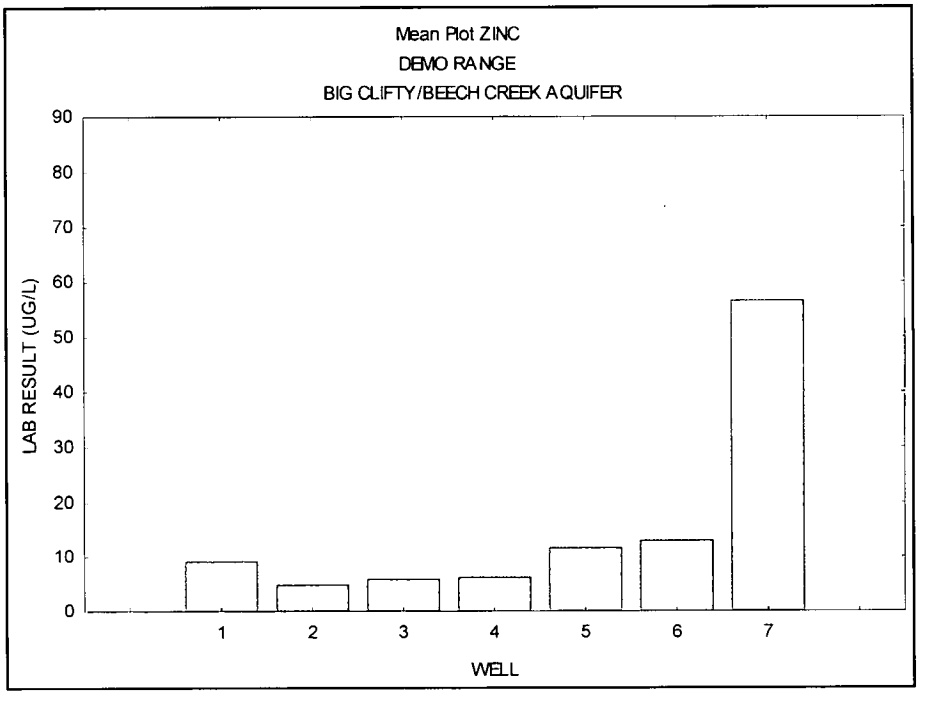


ZINC (UG/L)
DEMO RANGE
BIG CLIFTY/BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02	9.28333	12	10.84140	5.000000	40.5000
2	C03	5.00000	10	0.00000	5.000000	5.0000
3	C04	5.91111	9	2.73333	5.000000	13.2000
4	C05	6.26000	10	2.65799	5.000000	11.5000
5	C06	11.77273	11	22.46260	5.000000	79.5000
6	C07	13.05000	8	16.37873	5.000000	49.9000
7*	C08*	56.60000	9	68.02918	5.000000	179.0000
	All Grps	14.78986	69	30.67381	5.000000	179.0000

Table 7.153.

* Denotes Upgradient Well

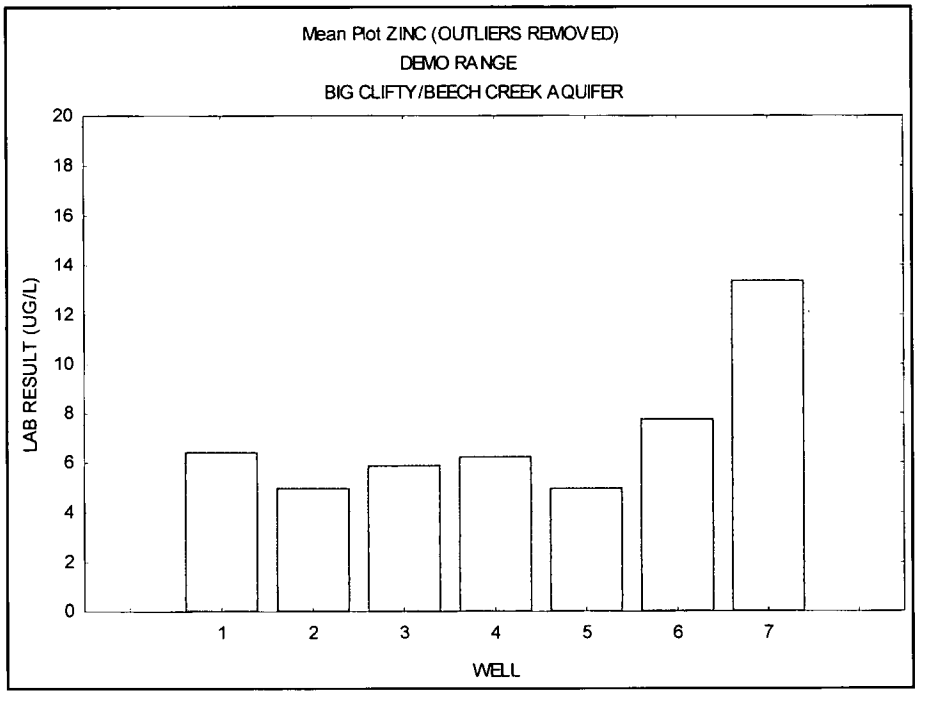


ZINC (OUTLIERS REMOVED) (UG/L)
DEMO RANGE
BIG CLIFTY/BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02	6.44545	11	4.79403	5.000000	20.90000
2	C03	5.00000	10	0.00000	5.000000	5.00000
3	C04	5.91111	9	2.73333	5.000000	13.20000
4	C05	6.26000	10	2.65799	5.000000	11.50000
5	C06	5.00000	10	0.00000	5.000000	5.00000
6	C07	7.78571	7	7.37031	5.000000	24.50000
7*	C08*	13.40000	6	13.48659	5.000000	35.80000
	All Grps	6.69206	63	5.58250	5.000000	35.80000

Table 7.154.

* Denotes Upgradient Well

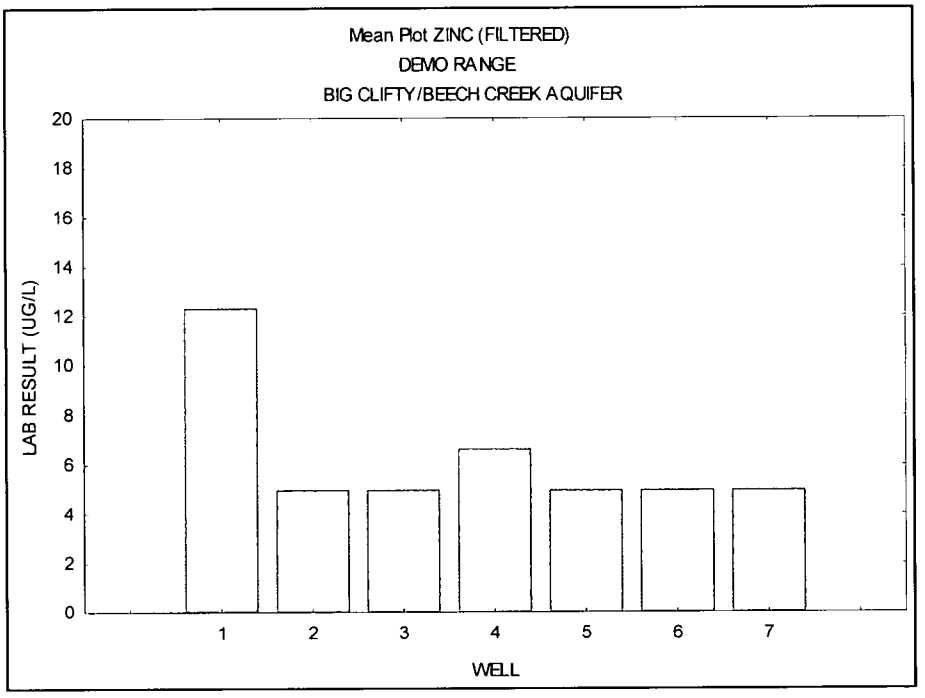


ZINC (FILTERED) (UG/L)
DEMO RANGE
BIG CLIFTY/BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02	12.31667	12	19.02232	5.000000	68.50000
2	C03	5.00000	10	0.00000	5.000000	5.00000
3	C04	5.00000	9	0.00000	5.000000	5.00000
4	C05	6.65000	10	5.21776	5.000000	21.50000
5	C06	5.00000	11	0.00000	5.000000	5.00000
6	C07	5.00000	8	0.00000	5.000000	5.00000
7*	C08*	5.00000	9	0.00000	5.000000	5.00000
	All Grps	6.51159	69	8.34665	5.000000	68.50000

Table 7.155.

* Denotes Upgradient Well

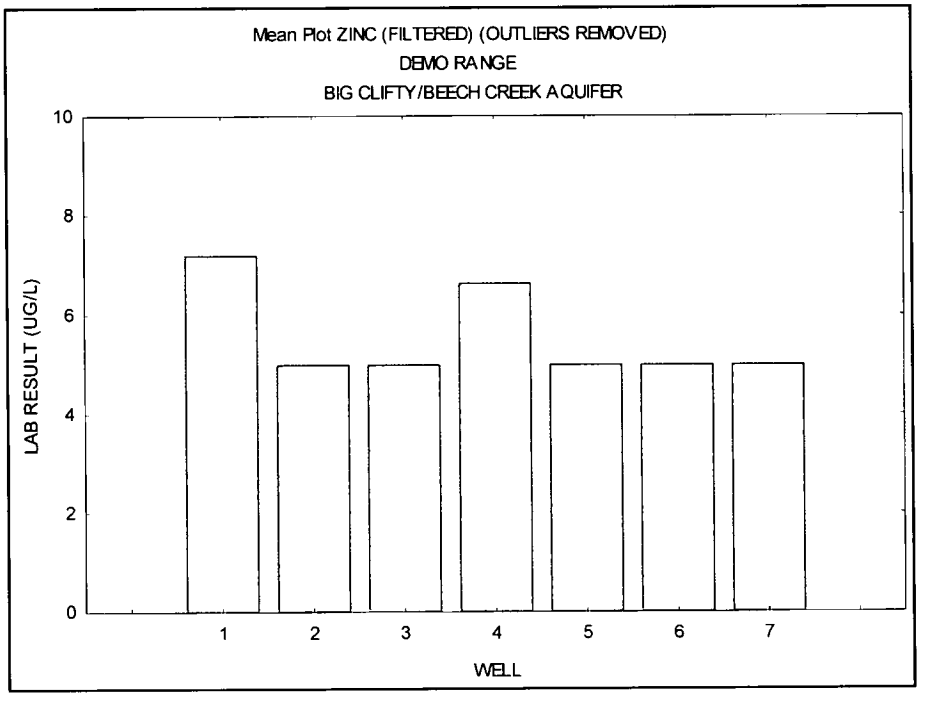


ZINC (FILTERED) (OUTLIERS REMOVED) (UG/L)
DEMO RANGE
BIG CLIFTY/BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02	7.209091	11	7.326726	5.000000	29.30000
2	C03	5.000000	10	0.000000	5.000000	5.00000
3	C04	5.000000	9	0.000000	5.000000	5.00000
4	C05	6.650000	10	5.217758	5.000000	21.50000
5	C06	5.000000	11	0.000000	5.000000	5.00000
6	C07	5.000000	8	0.000000	5.000000	5.00000
7*	C08*	5.000000	9	0.000000	5.000000	5.00000
	All Grps	5.600000	68	3.537138	5.000000	29.30000

Table 7.156.

* Denotes Upgradient Well



MISCELLANEOUS PARAMETERS

DEMO RANGE
BIG CLIFTY/BEECH CREEK AQUIFER

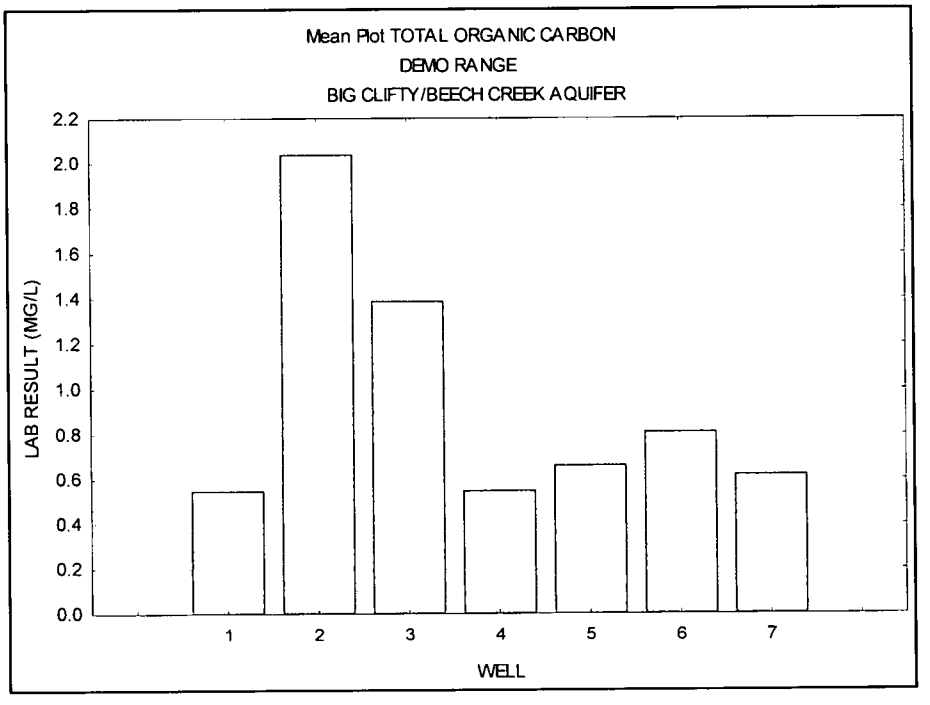
Table 7.157

TOTAL ORGANIC CARBON (MG/L)
DEMO RANGE
BIG CLIFTY/BEECH CREEK AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C02	0.550000	12	0.173205	0.500000	1.100000
2	C03	2.040000	10	0.271621	1.600000	2.400000
3	C04	1.388889	9	0.226078	1.100000	1.800000
4	C05	0.550000	10	0.158114	0.500000	1.000000
5	C06	0.663636	11	0.280260	0.500000	1.100000
6	C07	0.812500	8	0.435685	0.500000	1.400000
7*	C08*	0.622222	9	0.366667	0.500000	1.600000
	All Grps	0.933333	69	0.593511	0.500000	2.400000

Table 7.157.

* Denotes Upgradient Well



METALS

DEMO RANGE
PENNSYLVANIAN AQUIFER

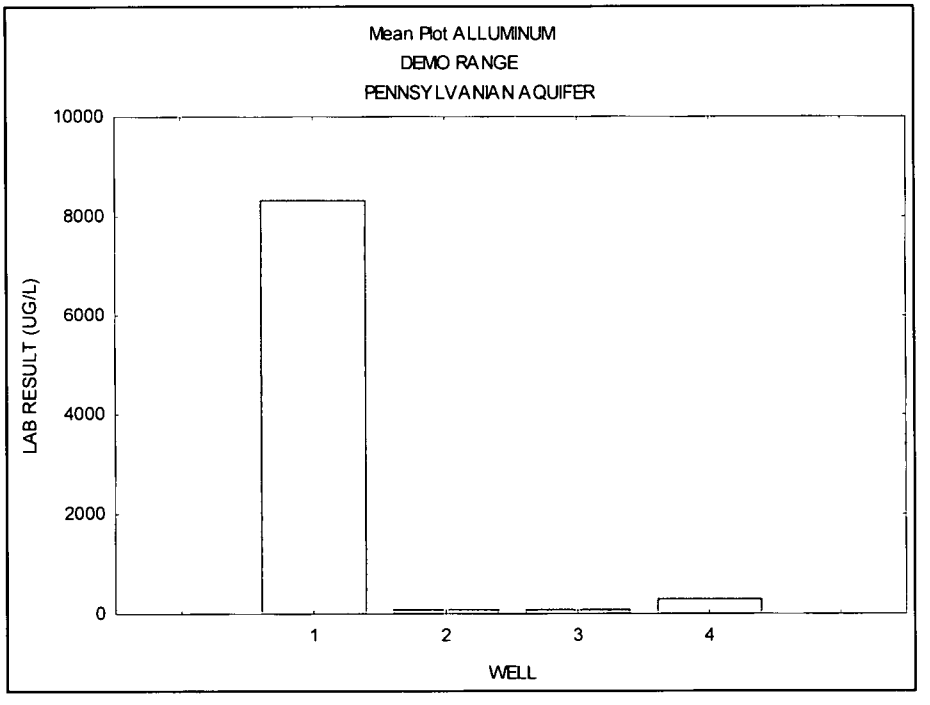
Tables 7.158 through 7.178

ALUMINUM (UG/L)
DEMO RANGE
PENNSYLVANIAN AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C03P2	8333.333	6	12991.33	100.0000	28700.00
2	C04P2	100.000	5	0.00	100.0000	100.00
3	C06P2	100.000	6	0.00	100.0000	100.00
4*	C08P2*	314.600	5	84.57	237.0000	456.00
	All Grps	2394.227	22	7351.91	100.0000	28700.00

Table 7.158.

* Denotes Upgradient Well

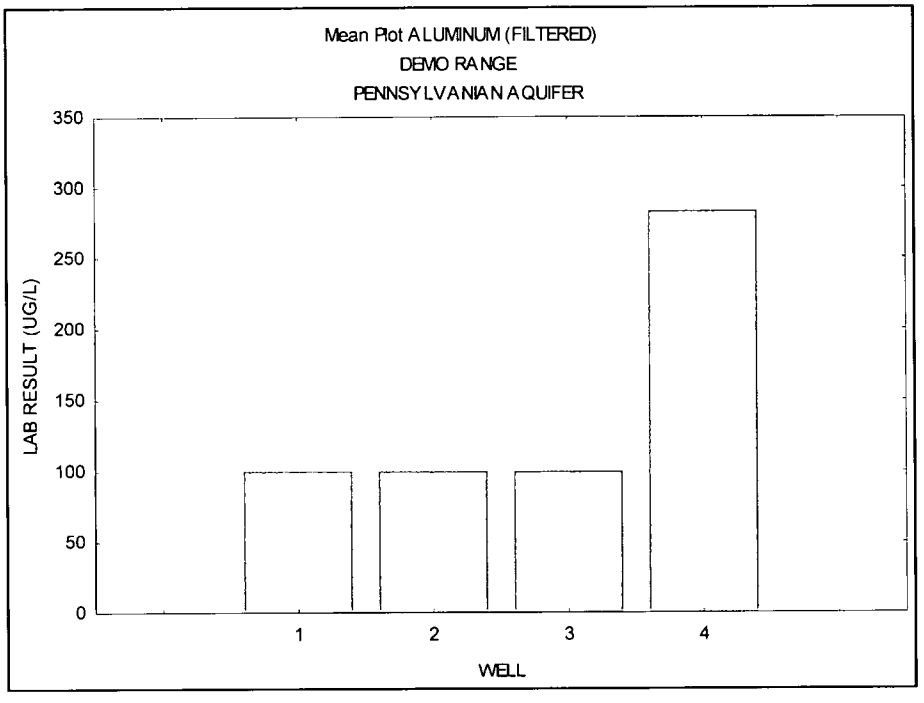


ALUMINUM (FILTERED) (UG/L)
DEMO RANGE
PENNSYLVANIAN AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C03P2	100.0000	6	0.00000	100.0000	100.0000
2	C04P2	100.0000	5	0.00000	100.0000	100.0000
3	C06P2	100.0000	6	0.00000	100.0000	100.0000
4*	C08P2*	283.2000	5	32.08115	241.0000	326.0000
	All Grps	141.6364	22	79.81797	100.0000	326.0000

Table 7.159.

* Denotes Upgradient Well

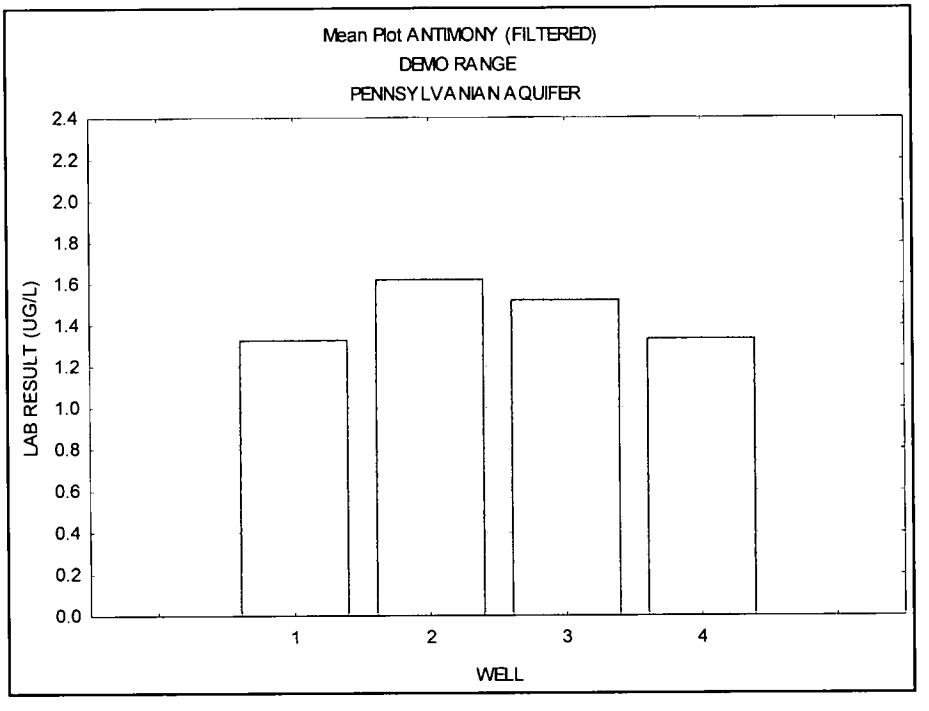


ANTIMONY (FILTERED) (UG/L)
DEMO RANGE
PENNSYLVANIAN AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C03P2	1.330000	10	0.857710	0.500000	2.900000
2	C04P2	1.625000	8	1.115796	0.500000	3.000000
3	C06P2	1.525000	8	0.539179	0.500000	2.100000
4*	C08P2*	1.337500	8	1.002764	0.500000	3.100000
	All Grps	1.447059	34	0.869425	0.500000	3.100000

Table 7.160.

* Denotes Upgradient Well

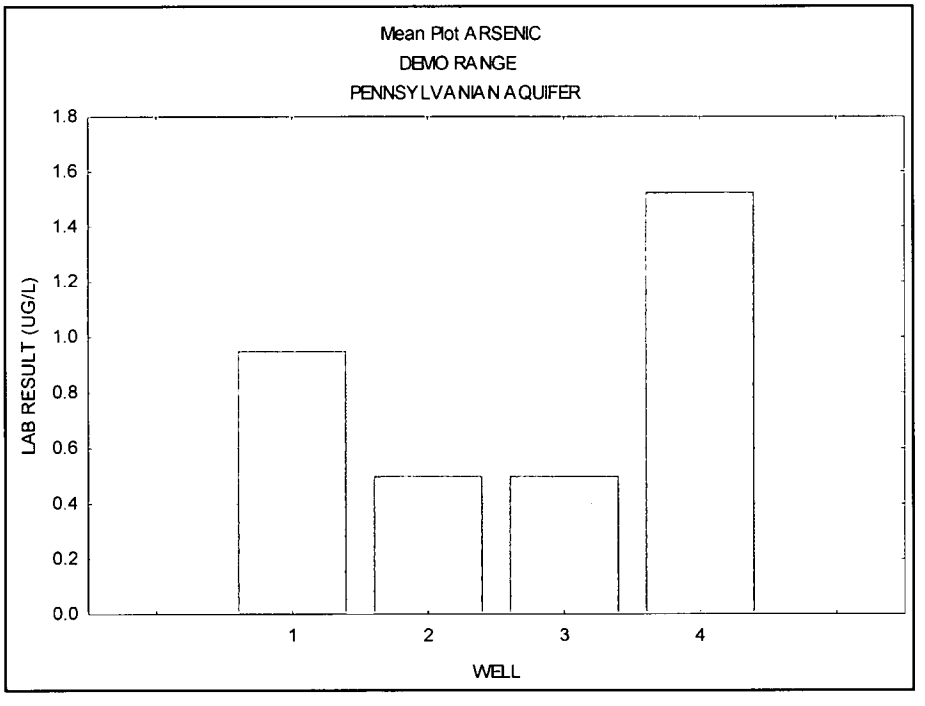


ARSENIC (UG/L)
DEMO RANGE
PENNSYLVANIAN AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C03P2	0.950000	10	0.972111	0.500000	3.200000
2	C04P2	0.500000	8	0.000000	0.500000	0.500000
3	C06P2	0.500000	8	0.000000	0.500000	0.500000
4*	C08P2*	1.525000	8	0.265922	1.100000	2.000000
	All Grps	0.873529	34	0.667110	0.500000	3.200000

Table 7.161.

* Denotes Upgradient Well

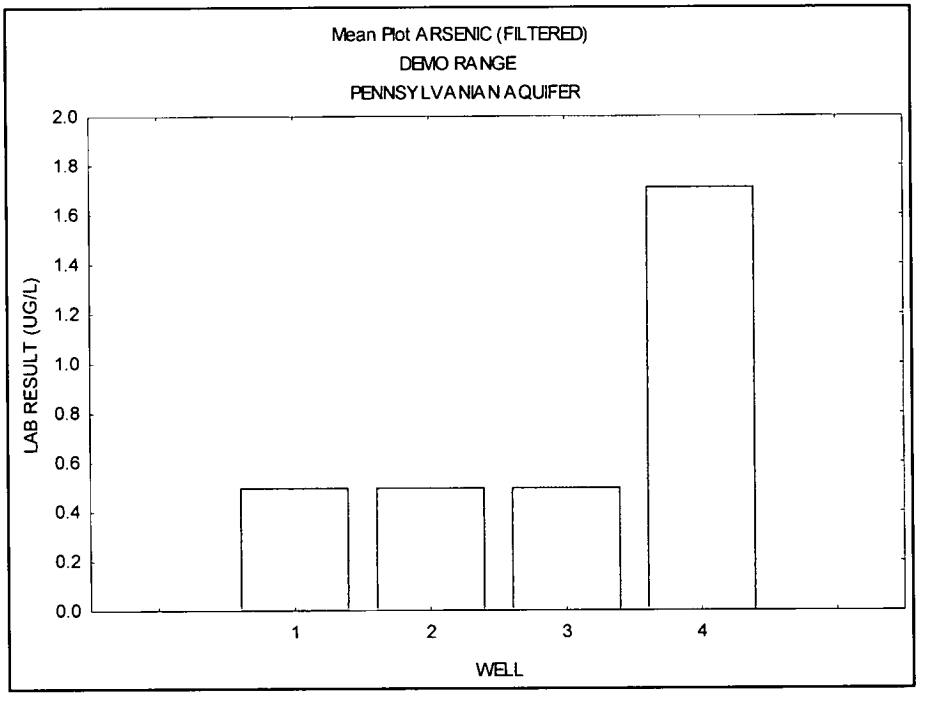


ARSENIC (FILTERED) (UG/L)
DEMO RANGE
PENNSYLVANIAN AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C03P2	0.500000	10	0.000000	0.500000	0.500000
2	C04P2	0.500000	8	0.000000	0.500000	0.500000
3	C06P2	0.500000	8	0.000000	0.500000	0.500000
4*	C08P2*	1.712500	8	0.235660	1.400000	2.000000
	All Grps	0.785294	34	0.533219	0.500000	2.000000

Table 7.162.

* Denotes Upgradient Well

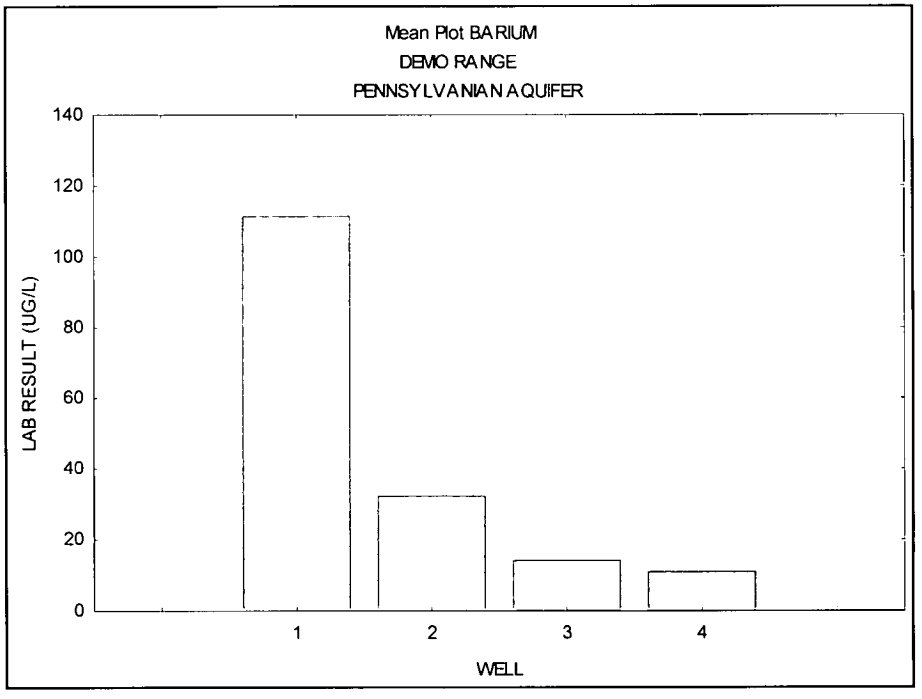


BARIUM (UG/L)
DEMO RANGE
PENNSYLVANIAN AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C03P2	111.4400	10	36.69823	85.60000	190.0000
2	C04P2	32.3250	8	5.48602	25.30000	43.4000
3	C06P2	14.2875	8	1.65222	12.50000	16.9000
4*	C08P2*	11.0750	8	0.68400	10.30000	12.0000
	All Grps	46.3500	34	47.50541	10.30000	190.0000

Table 7.163.

* Denotes Upgradient Well

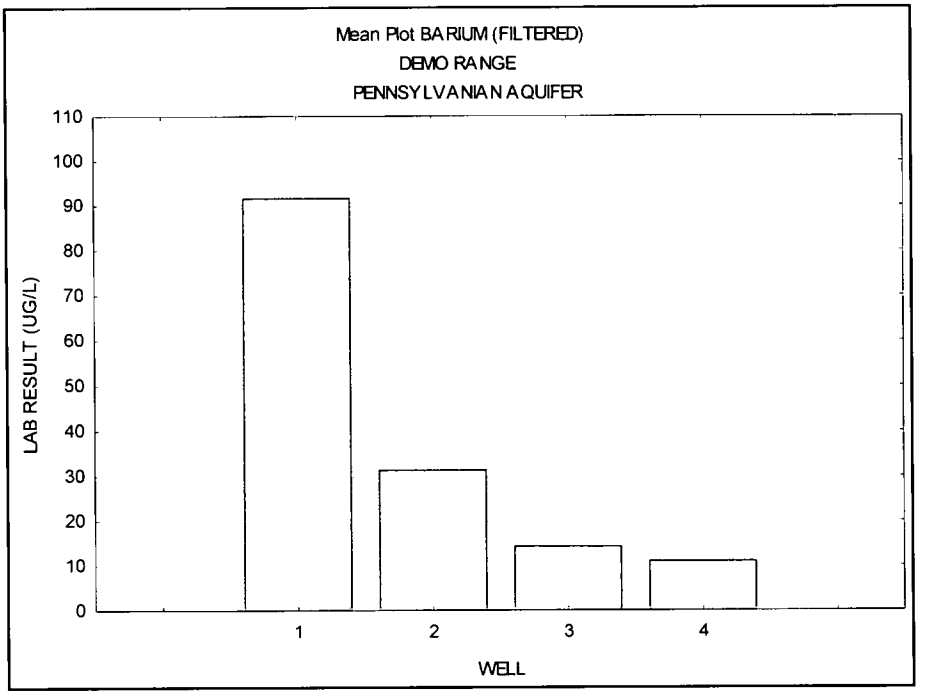


BARIUM (FILTERED) (UG/L)
DEMO RANGE
PENNSYLVANIAN AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C03P2	91.81000	10	10.77337	76.80000	109.0000
2	C04P2	31.47500	8	4.94477	23.80000	37.6000
3	C06P2	14.42500	8	2.21795	11.30000	18.3000
4*	C08P2*	11.17500	8	0.85147	10.00000	13.0000
	All Grps	40.43235	34	35.05526	10.00000	109.0000

Table 7.164.

* Denotes Upgradient Well

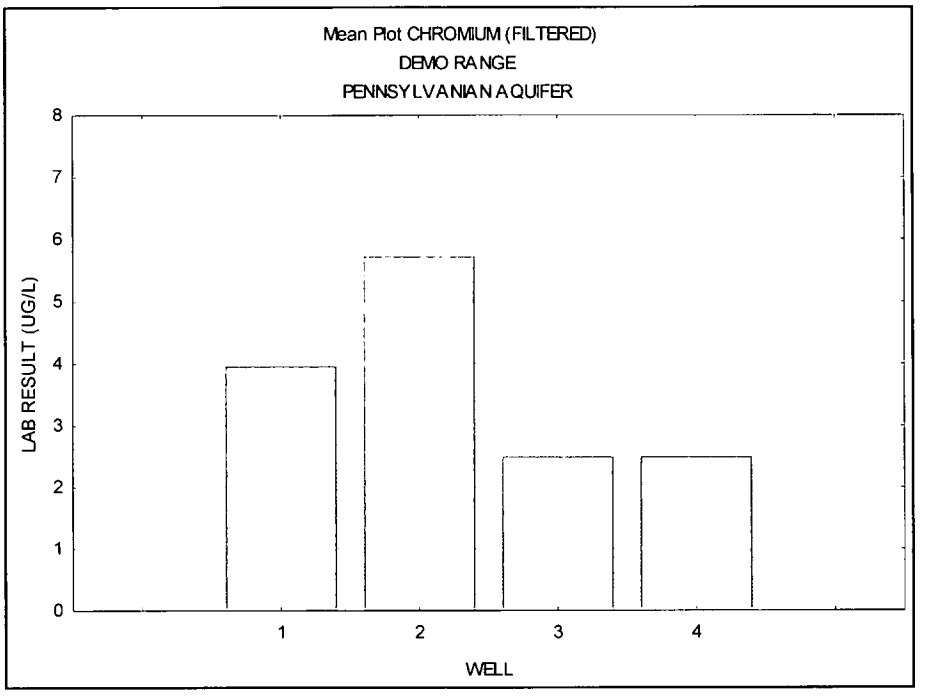


CHROMIUM (FILTERED) (UG/L)
DEMO RANGE
PENNSYLVANIAN AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C03P2	3.960000	10	1.910904	2.500000	6.70000
2	C04P2	5.725000	8	2.986996	2.500000	10.40000
3	C06P2	2.500000	8	0.000000	2.500000	2.50000
4*	C08P2*	2.500000	8	0.000000	2.500000	2.50000
	All Grps	3.688235	34	2.145010	2.500000	10.40000

Table 7.165.

* Denotes Upgradient Well

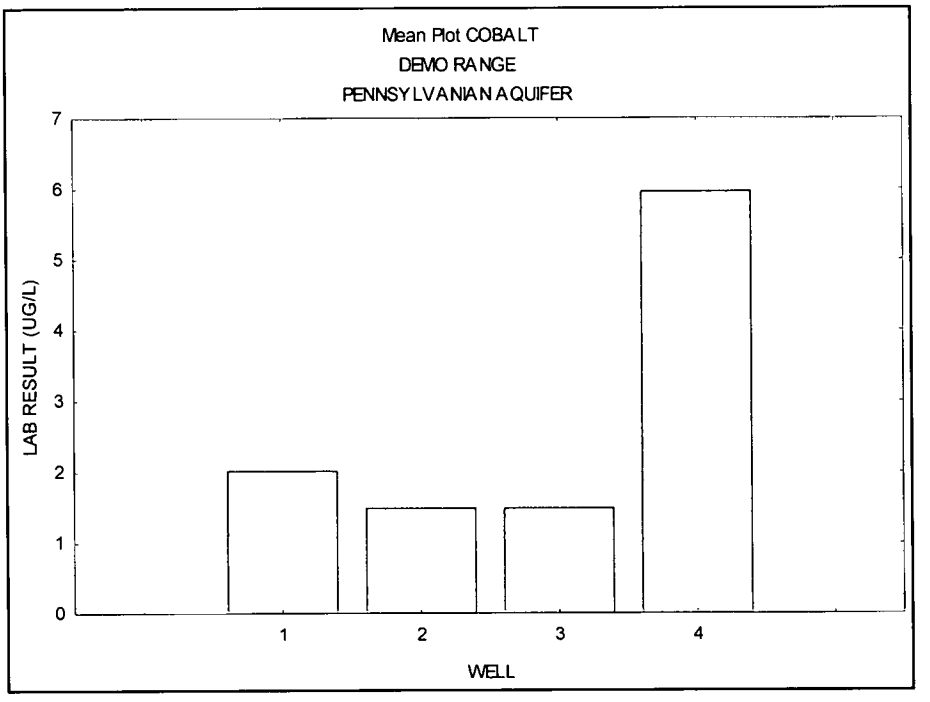


COBALT (UG/L)
DEMO RANGE
PENNSYLVANIAN AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C03P2	2.030000	10	1.147025	1.500000	4.700000
2	C04P2	1.500000	8	0.000000	1.500000	1.500000
3	C06P2	1.500000	8	0.000000	1.500000	1.500000
4*	C08P2*	5.975000	8	0.377018	5.600000	6.700000
	All Grps	2.708824	34	1.955314	1.500000	6.700000

Table 7.166.

* Denotes Upgradient Well

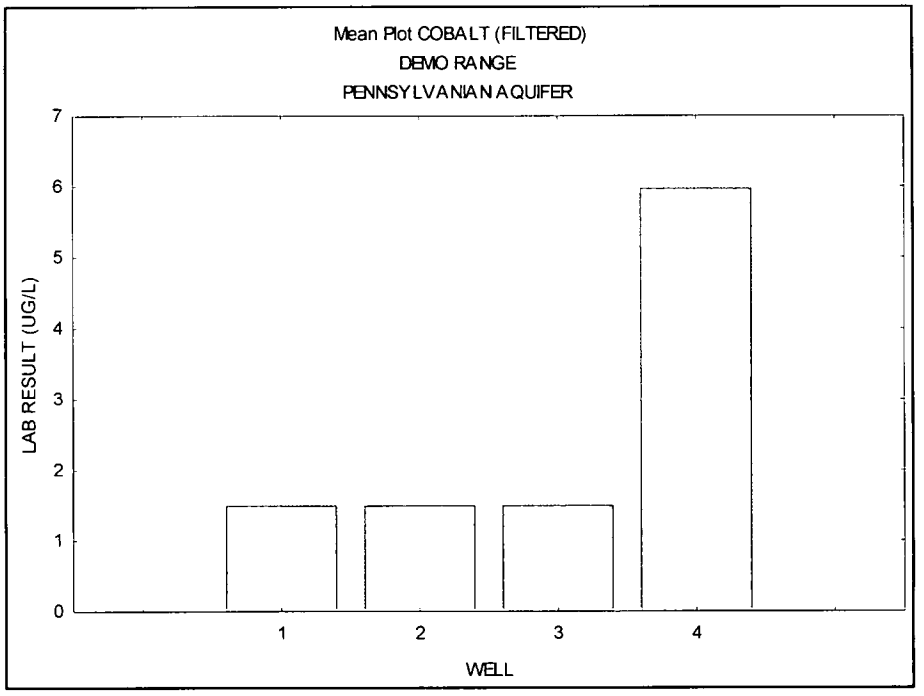


COBALT (FILTERED) (UG/L)
DEMO RANGE
PENNSYLVANIAN AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C03P2	1.500000	10	0.000000	1.500000	1.500000
2	C04P2	1.500000	8	0.000000	1.500000	1.500000
3	C06P2	1.500000	8	0.000000	1.500000	1.500000
4*	C08P2*	5.975000	8	0.399106	5.400000	6.400000
	All Grps	2.552941	34	1.935511	1.500000	6.400000

Table 7.167.

* Denotes Upgradient Well

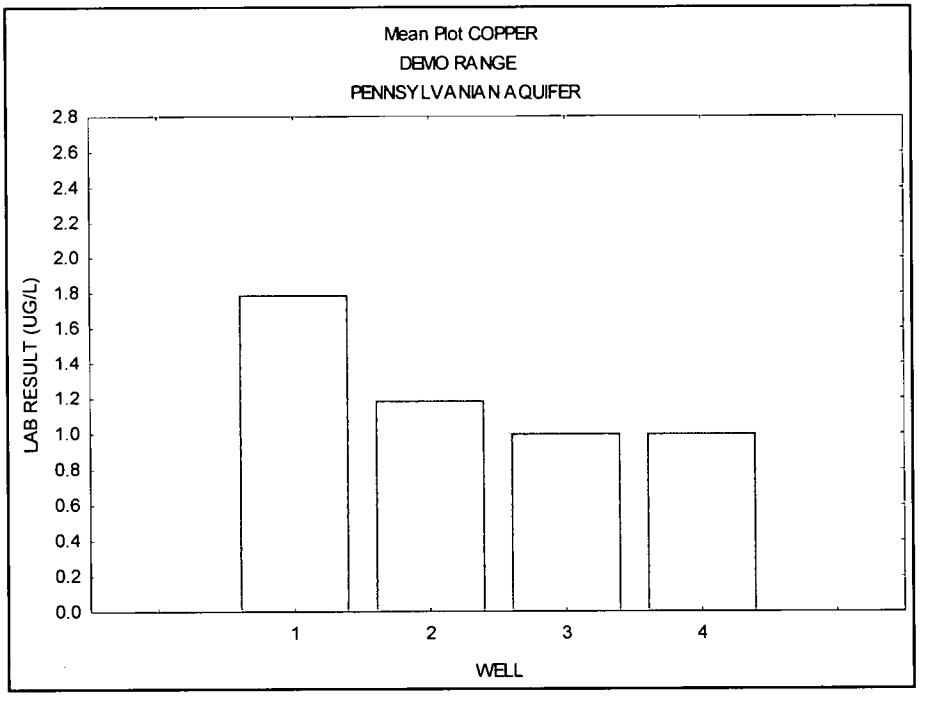


COPPER (UG/L)
DEMO RANGE
PENNSYLVANIAN AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C03P2	1.790000	10	1.702580	1.000000	5.700000
2	C04P2	1.187500	8	0.530330	1.000000	2.500000
3	C06P2	1.000000	8	0.000000	1.000000	1.000000
4*	C08P2*	1.000000	8	0.000000	1.000000	1.000000
	All Grps	1.276471	34	0.984442	1.000000	5.700000

Table 7.168.

* Denotes Upgradient Well

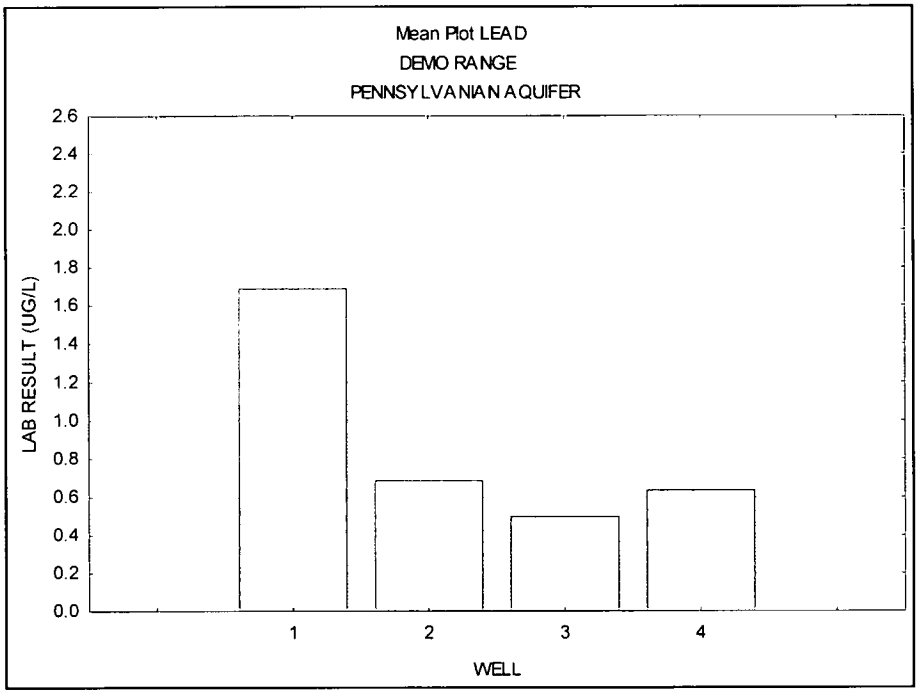


LEAD (UG/L)
DEMO RANGE
PENNSYLVANIAN AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C03P2	1.690000	10	2.533531	0.500000	7.200000
2	C04P2	0.687500	8	0.530330	0.500000	2.000000
3	C06P2	0.500000	8	0.000000	0.500000	0.500000
4*	C08P2*	0.637500	8	0.388909	0.500000	1.600000
	All Grps	0.926471	34	1.448156	0.500000	7.200000

Table 7.169.

* Denotes Upgradient Well

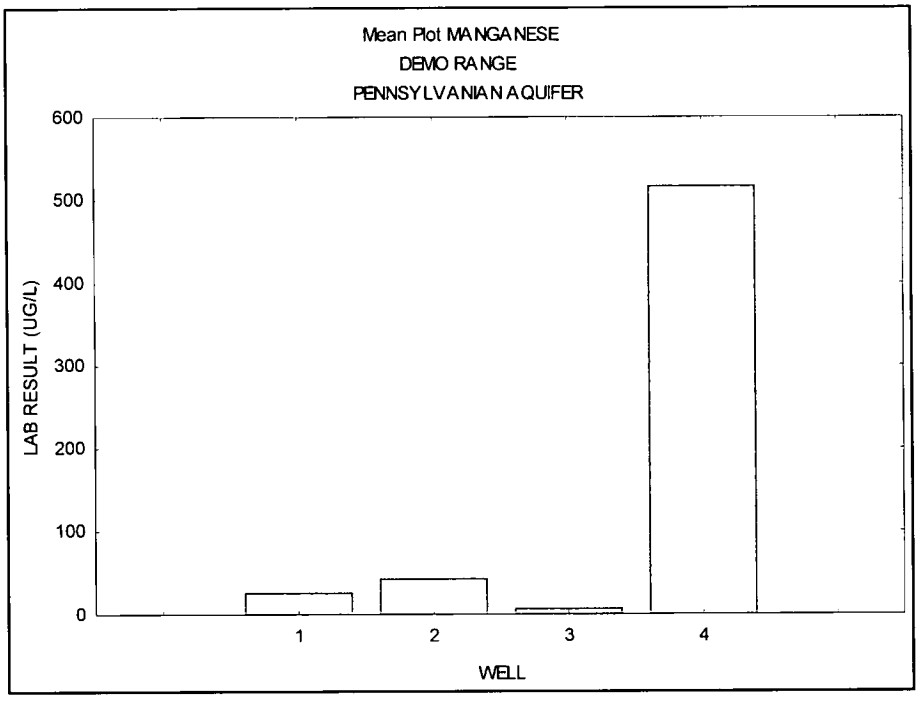


MANGANESE (UG/L)
DEMO RANGE
PENNSYLVANIAN AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C03P2	26.6900	10	38.3579	7.5000	110.0000
2	C04P2	43.6000	8	16.2698	24.9000	73.1000
3	C06P2	7.5000	8	0.0000	7.5000	7.5000
4*	C08P2*	517.2500	8	61.6343	465.0000	613.0000
	All Grps	141.5794	34	214.8521	7.5000	613.0000

Table 7.170.

* Denotes Upgradient Well

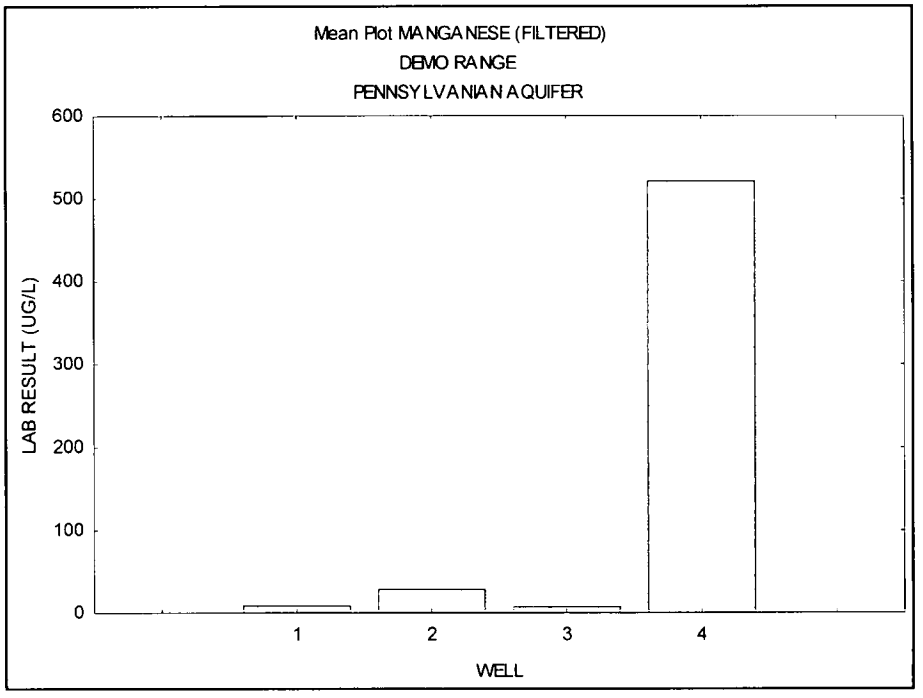


MANGANESE (FILTERED) (UG/L)
DEMO RANGE
PENNSYLVANIAN AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C03P2	9.0700	10	3.3119	7.5000	15.6000
2	C04P2	29.0750	8	6.9522	20.6000	40.8000
3	C06P2	7.5000	8	0.0000	7.5000	7.5000
4*	C08P2*	522.0000	8	85.4902	435.0000	664.0000
	All Grps	134.0971	34	222.1190	7.5000	664.0000

Table 7.171.

* Denotes Upgradient Well

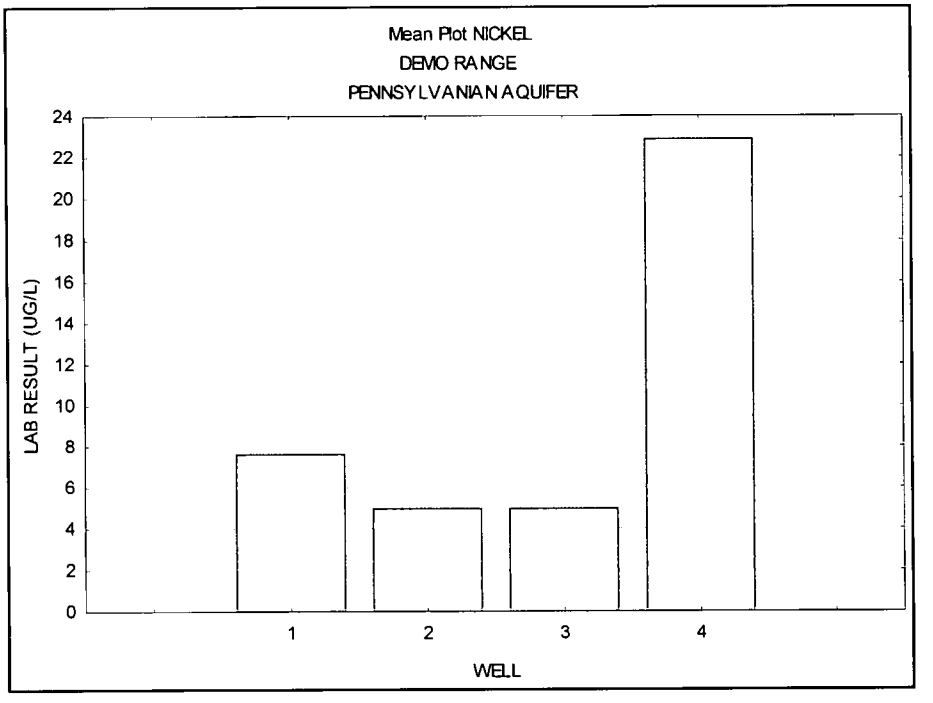


NICKEL (UG/L)
DEMO RANGE
PENNSYLVANIAN AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C03P2	7.67000	10	5.821426	5.00000	21.50000
2	C04P2	5.00000	8	0.000000	5.00000	5.00000
3	C06P2	5.00000	8	0.000000	5.00000	5.00000
4*	C08P2*	22.90000	8	1.788854	20.90000	25.40000
	All Grps	9.99706	34	8.001836	5.00000	25.40000

Table 7.172.

* Denotes Upgradient Well

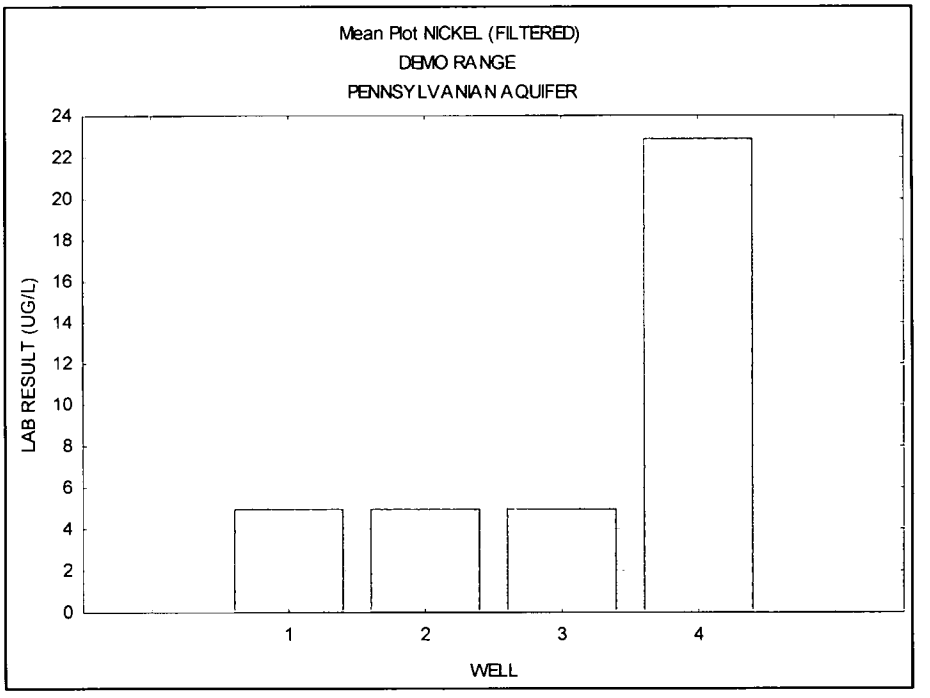


NICKEL (FILTERED) (UG/L)
DEMO RANGE
PENNSYLVANIAN AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C03P2	5.00000	10	0.000000	5.00000	5.00000
2	C04P2	5.00000	8	0.000000	5.00000	5.00000
3	C06P2	5.00000	8	0.000000	5.00000	5.00000
4*	C08P2*	22.91250	8	1.640068	20.80000	25.40000
	All Grps	9.21471	34	7.749336	5.00000	25.40000

Table 7.173.

* Denotes Upgradient Well

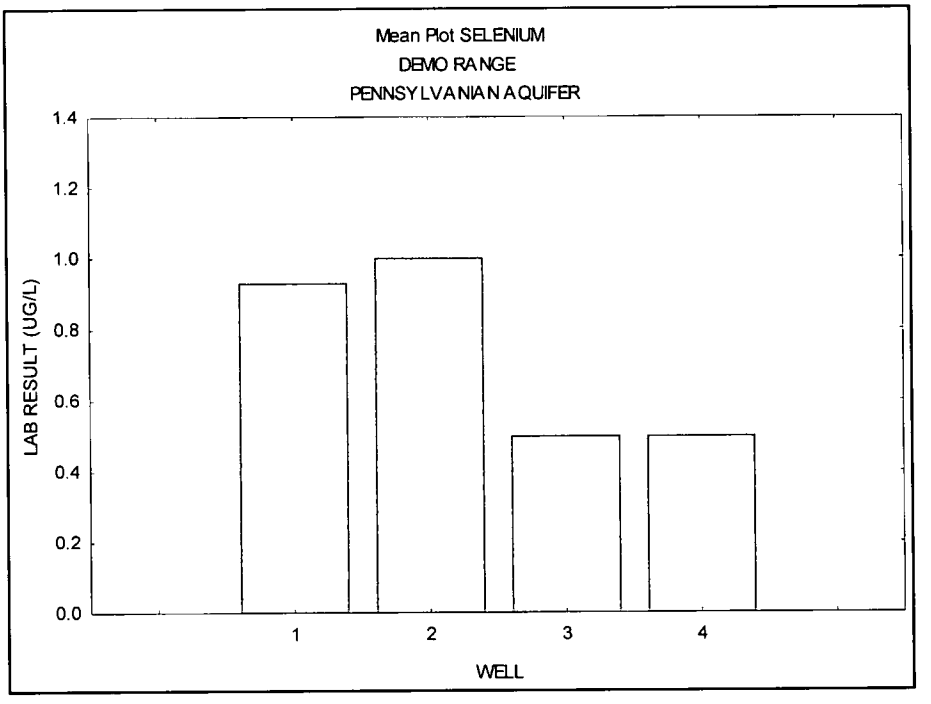


SELENIUM (UG/L)
DEMO RANGE
PENNSYLVANIAN AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C03P2	0.930000	10	0.478539	0.500000	1.600000
2	C04P2	1.000000	8	0.573212	0.500000	1.900000
3	C06P2	0.500000	8	0.000000	0.500000	0.500000
4*	C08P2*	0.500000	8	0.000000	0.500000	0.500000
	All Grps	0.744118	34	0.432884	0.500000	1.900000

Table 7.174.

* Denotes Upgradient Well

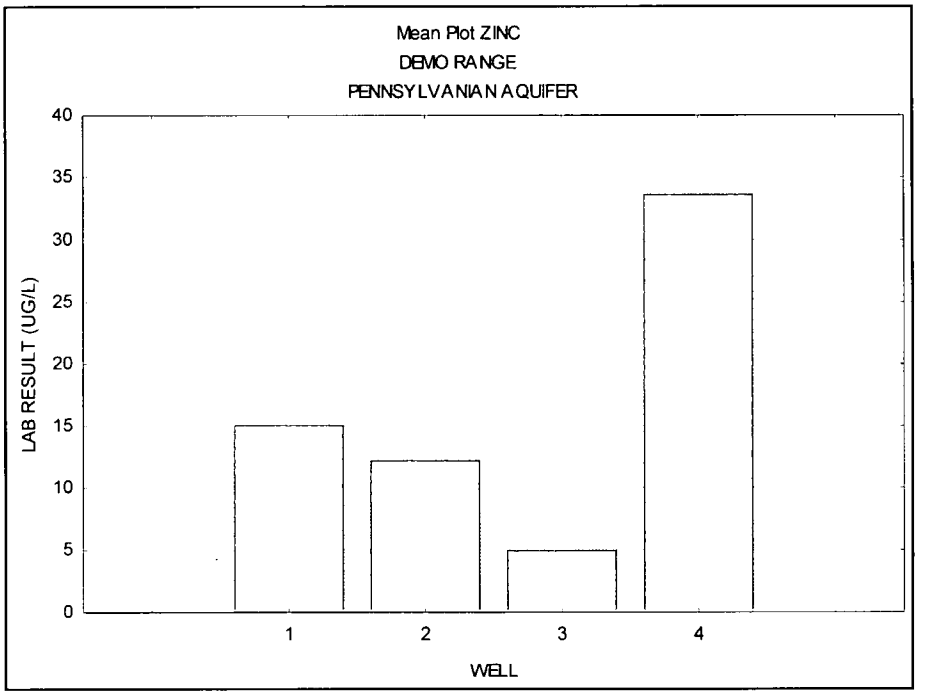


ZINC (UG/L)
DEMO RANGE
PENNSYLVANIAN AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C03P2	15.10000	10	17.78976	5.00000	55.30000
2	C04P2	12.21250	8	17.74151	5.00000	55.70000
3	C06P2	5.00000	8	0.00000	5.00000	5.00000
4*	C08P2*	33.61250	8	4.64464	26.10000	40.30000
	All Grps	16.40000	34	16.30174	5.00000	55.70000

Table 7.175.

* Denotes Upgradient Well

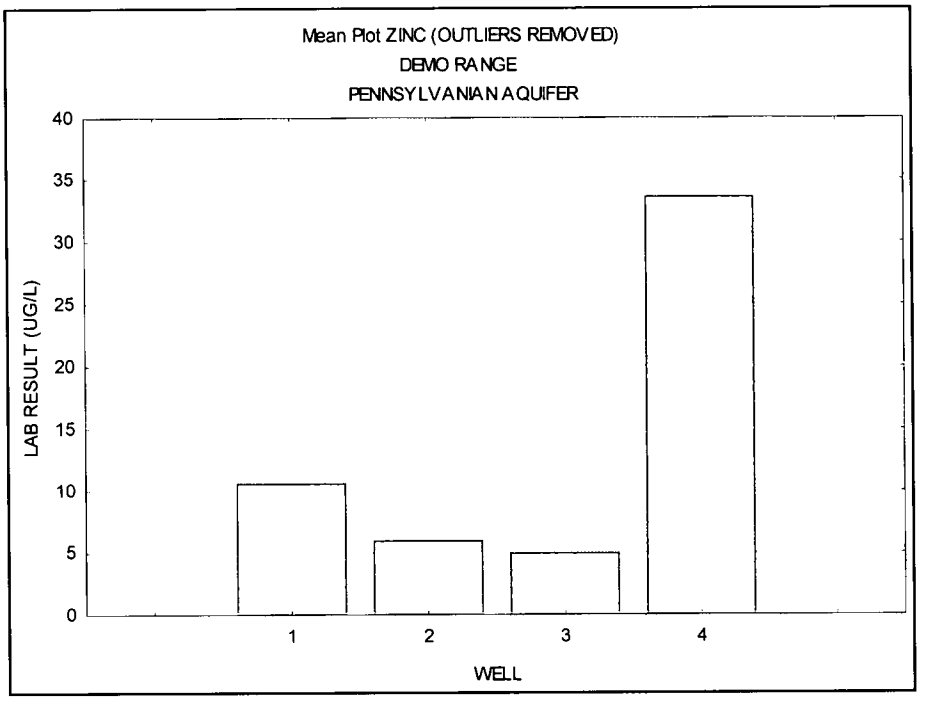


ZINC (OUTLIERS REMOVED) (UG/L)
DEMO RANGE
PENNSYLVANIAN AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C03P2	10.63333	9	11.47105	5.00000	35.50000
2	C04P2	6.00000	7	2.64575	5.00000	12.00000
3	C06P2	5.00000	8	0.00000	5.00000	5.00000
4*	C08P2*	33.61250	8	4.64464	26.10000	40.30000
	All Grps	13.95625	32	13.34510	5.00000	40.30000

Table 7.176.

* Denotes Upgradient Well

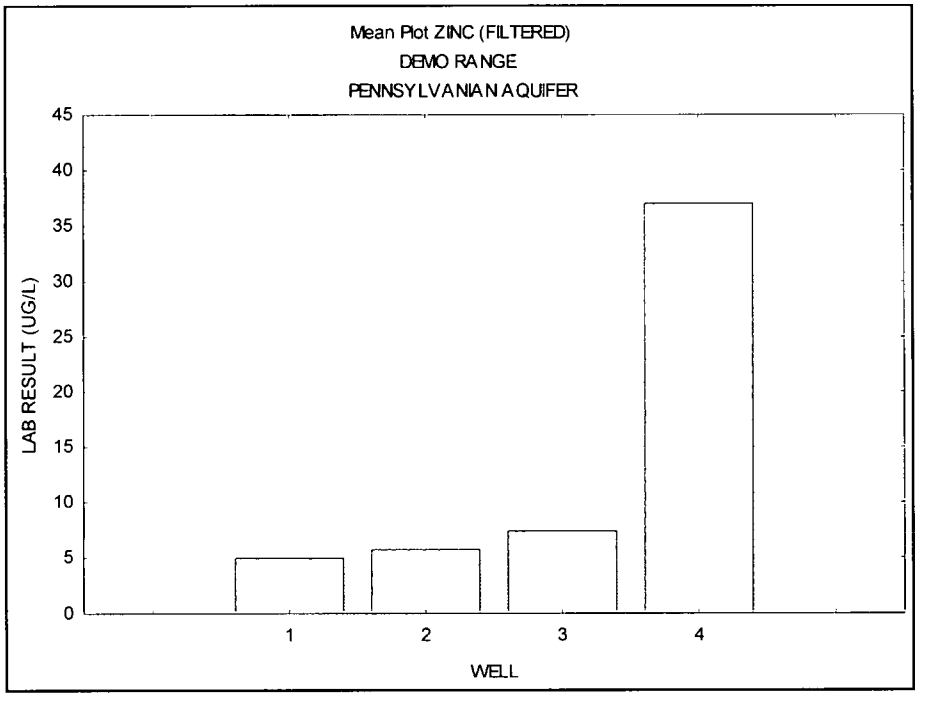


ZINC (FILTERED) (UG/L)
DEMO RANGE
PENNSYLVANIAN AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C03P2	5.00000	10	0.00000	5.00000	5.00000
2	C04P2	5.76250	8	2.15668	5.00000	11.10000
3	C06P2	7.41250	8	4.85340	5.00000	18.20000
4*	C08P2*	37.01250	8	3.54459	32.60000	41.60000
	All Grps	13.27941	34	13.71170	5.00000	41.60000

Table 7.177.

* Denotes Upgradient Well

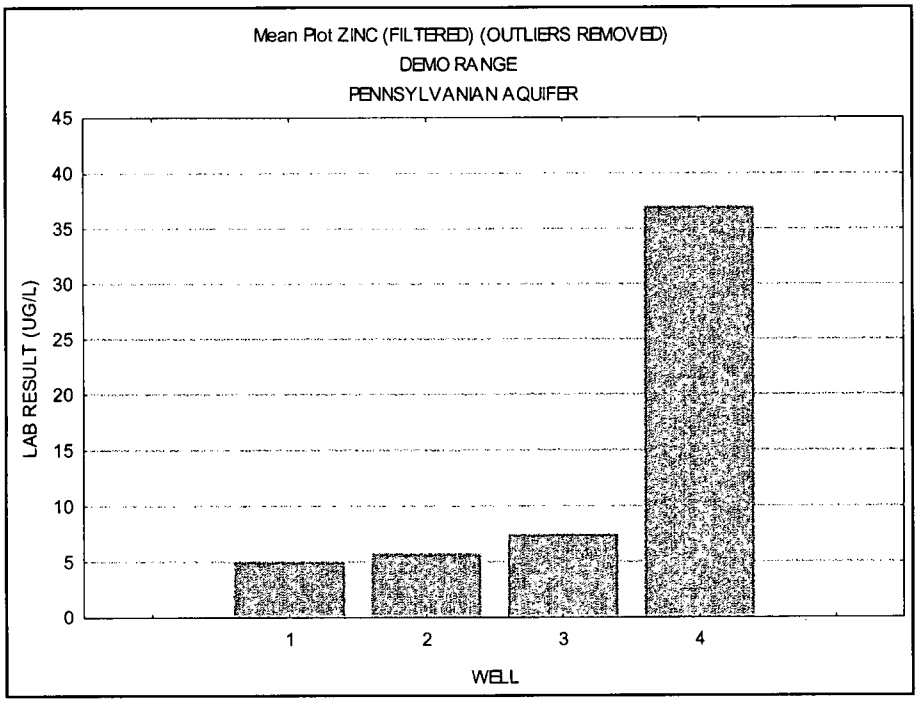


ZINC (FILTERED) (OUTLIERS REMOVED) (UG/L)
DEMO RANGE
PENNSYLVANIAN AQUIFER

WELL NO	WELL	MEANS	N	STD.DEV.	MINIMUM	MAXIMUM
1	C03P2	5.00000	10	0.00000	5.00000	5.00000
2	C04P2	5.76250	8	2.15668	5.00000	11.10000
3	C06P2	7.41250	8	4.85340	5.00000	18.20000
4*	C08P2*	37.01250	8	3.54459	32.60000	41.60000
	All Grps	13.27941	34	13.71170	5.00000	41.60000

Table 7.178.

* Denotes Upgradient Well



DOWNGRADIENT VS. UPGRADIENT WELLS

The following tables show which downgradient wells are significantly different from the upgradient wells for each parameter. The well number and the mean amount detected are listed. If the upgradient well had no detections, it is listed, but indicated by ** that there were no detections. Downgradient wells that had no detections are not listed. Tables include all data from 2000 to 2003. Table 7.179 shows the Ammunition Burning Grounds, Table 7.180 shows the Old Rifle Range, Beech Creek Aquifer, Table 7.181 shows the Old Rifle Range, Big Clifty Aquifer, Table 7.182 shows the Demo Range, Big Clifty/Beech Creek Aquifer, and Table 7.183 shows the Demo Range, Pennsylvanian Aquifer. Well C17 is the upgradient well for the Ammunition Burning Grounds, well C08 is the upgradient well for the Old Rifle Range, Beech Creek Aquifer, well C14P2 is the upgradient well for the Old Rifle Range, Big Clifty Aquifer, well C08 is the upgradient well for the Demo Range, Big Clifty/Beech Creek Aquifer, and well C08P2 is the upgradient well for the Demo Range, Pennsylvanian Aquifer. The main interest is the wells that are significantly higher than the upgradient wells, but for added information the wells that are significantly lower, or not significantly different, are included. These differences are at the .05 level of significance based on all of the tests that were run.

For the parameters where outliers were removed, an analysis was performed using all the data and a second analysis was performed with the outliers removed. The results of both analyses are presented in the following tables with the latter labeled (outliers removed). It should be noted that in the second analysis (outliers removed), a downgradient well may be shown to be significantly higher than the upgradient well even though it wasn't significantly higher in the analysis using all the data and no outliers were removed from this well. This is caused by the reduction in variances in the wells where outliers were removed. In an analysis of variance there are three factors that determine significant differences. These are the difference in means, the number of samples and the variances.

Ammunition Burning Grounds.

	SIGNIFICANTLY HIGHER		NO SIGNIFICANT DIFFERENCE		SIGNIFICANTLY LOWER	
PARAMETER	WELL	AMOUNT	WELL	AMOUNT	WELL	AMOUNT
EXPLOSIVES						
1,3,5-Trinitrobenzene (UG/L)	**C20**	7.25	C17*	.50**		
			C09P2	.86		
2,4,6-Trinitrotoluene (UG/L)	**SPA**	1.62	C17*	.80**		
2-Amino-4,6-Dinitrotoluene (UG/L)	**C20**	11.08	C17*	.45**		
	C08P2	2.45	SPA	.80		
4-Amino-2,6-Dinitrotoluene (UG/L)	**C20**	14.11	C17*	.80**		
	C08P2	3.39				
	SPA	1.60				
HMX (UG/L)	**C08P2**	30.31	C17*	1.00**		
	C20	29.56	SPC	1.42		
	C02P2	17.41				
	SPA	11.60				
	C07	9.53				
	C09P2	4.79				
Nitrocellulose (UG/L)			C17*	674		
			C03	744		
			C30	675		
			C15	600		
			C02P2	588		
			C04	581		
			SPC	545		
RDX (UG/L)	**C20**	195.6	C17*	.305**		
	C09P2	179.5	C02P2	7.10		
	C08P2	86.5	SPC	2.96		
	C07	33.4	C26	.99		
	SPA	26.2				
METALS						
Antimony (Filtered) (UG/L)			C17*	.50**		
			C04	.58		
			SPA	.58		
			C27	.56		
			C25	.56		
			C08P2	.54		
			SPC	.54		
Arsenic (UG/L)			C17*	2.25	C09P2	1.03
					C30	.58
Arsenic (Filtered) (UG/L)			C17*	1.96	C30	.55

Table 7.179.

Ammunition Burning Grounds. (Continued)

	SIGNIFICANTLY HIGHER		NO SIGNIFICANT DIFFERENCE		SIGNIFICANTLY LOWER	
PARAMETER	WELL	AMOUNT	WELL	AMOUNT	WELL	AMOUNT
Barium (UG/L)	**C02P2**	86.4	C17*	12.4		
	SPA	84.6	C25	17.0		
	C08P2	59.0	C09P2	15.6		
	C30	53.2				
	SPC	51.0				
	C26	39.7				
	C03	38.2				
	C27	31.9				
	C20	31.1				
	C07	30.4				
	C15	25.8				
	C04	25.7				
Barium (Filtered) (UG/L)	**C02P2**	86.3	C17*	11.3		
	SPA	79.3	C25	16.1		
	C08P2	58.3	C09P2	13.2		
	SPC	49.6				
	C30	46.3				
	C26	39.4				
	C03	39.4				
	C27	32.5				
	C20	31.9				
	C07	31.0				
	C15	25.9				
	C04	19.7				
Calcium (Filtered) (UG/L)			C17*	187364	C04	136800
					C08P2	114793
					C25	94262
					C07	92893
					C15	92796
					C26	92313
					C20	88447
					C02P2	70000
					C09P2	67388
					C27	52821
					C30	48293
					SPA	32910
					SPC	31100
					C03	1215
Chromium (Filtered) (UG/L)			C17*	5.113	C02P2	3.381
			C08P2	4.819	C15	3.207
			C25	4.314	C03	3.144
			C04	4.000	C30	3.069
			C26	3.925	C20	2.962
			C07	3.675	C09P2	2.700
					SPA	2.700
					C27	2.667

Table 7.179.

Ammunition Burning Grounds. (Continued)

	SIGNIFICANTLY HIGHER		NO SIGNIFICANT DIFFERENCE		SIGNIFICANTLY LOWER	
PARAMETER	WELL	AMOUNT	WELL	AMOUNT	WELL	AMOUNT
Copper (UG/L)	**C03**	1.76	C17*	1.05		
			C04	1.46		
			C15	1.35		
			C07	1.13		
			SPC	1.08		
			C02P2	1.08		
Copper (Filtered) (UG/L)	**C03**	1.86	C17*	1.10		
			C09P2	1.26		
			C08P2	1.19		
			C04	1.09		
			C20	1.08		
Lead (UG/L)	**C09P2**	.763	C17*	.500**		
			SPA	.570		
			C04	.538		
			C15	.530		
Lead (Filtered) (UG/L)	**SPA**	1.080	C17*	.500**		
			C02P2	.538		
			C15	.526		
Magnesium (Filtered) (UG/L)			C17*	186046	C25	57169
			C04	186133	C26	49527
					C07	45033
					C08P2	41947
					C15	37246
					C20	31247
					C30	29820
					C09P2	13924
					C02P2	12455
					SPA	8554
					SPC	6376
					C27	3069
Potassium (Filtered) (UG/L)	**C08P2**	12150	C17*	3740	C20	2123
			C04	3169	C26	1875
			C02P2	2945	C15	1735
			C07	2695	C09P2	1214
			C25	2683	SPC	1122
			C30	2629	C03	1113
			SPA	2492	C27	1041

Table 7.179.

	SIGNIFICANTLY HIGHER		NO SIGNIFICANT DIFFERENCE		SIGNIFICANTLY LOWER	
PARAMETER	WELL	AMOUNT	WELL	AMOUNT	WELL	AMOUNT
Selenium (UG/L)	**C04**	1.762	C17*	1.230	SPA	.535
	C07	1.606	C09P2	1.226		
			C08P2	1.225		
			C15	1.015		
			C02P2	.956		
			C26	.844		
			C30	.800		
			C20	.756		
			C27	.720		
Selenium (Filtered) (UG/L)	**C04**	1.919	C17*	1.143	C30	.719
	C07	1.562	C02P2	.875	C27	.573
			C09P2	.874	C25	.557
					C08P2	.550
Sodium (Filtered) (UG/L)	**C03**	213333	C17*	122009	C30	71393
					C25	64231
					C04	48727
					C02P2	32620
					C07	22947
					C15	16205
					C08P2	14820
					C26	14700
					C20	12567
					C27	5395
					SPA	5236
					C09P2	4542
					SPC	3626
Sodium (Filtered) (Outliers Removed) (UG/L)	**C03**	213333	C17*	110962	C30	71393
					C25	64231
					C04	48727
					C02P2	32620
					C07	22947
					C15	16205
					C08P2	14820
					C26	14700
					C20	12567
					C27	5395
					SPA	5236
					C09P2	4542
					SPC	3626
Vanadium (UG/L)	**C09P2**	1.44	C17*	1.00**		

Table 7.179.

Ammunition Burning Grounds. (Continued)

	SIGNIFICANTLY HIGHER		NO SIGNIFICANT DIFFERENCE		SIGNIFICANTLY LOWER	
PARAMETER	WELL	AMOUNT	WELL	AMOUNT	WELL	AMOUNT
Zinc (UG/L)			C17*	9.75		
			C25	23.91		
			C03	17.19		
			C04	16.29		
			C08P2	14.59		
			C15	12.48		
			C20	11.71		
			C09P2	11.17		
			SPC	10.80		
			C27	10.69		
			C07	10.35		
			SPA	8.85		
			C26	7.44		
			C30	7.23		
			C02P2	6.39		
Zinc (Filtered) (UG/L)	**C09P2**	37.78	C17*	5.94		
	C03	33.46	C04	14.94		
	SPA	27.15	C27	11.54		
	C20	23.39	C26	9.36		
	C07	23.09	C08P2	8.01		
	C02P2	22.71	C30	7.76		
	C15	20.78	SPC	7.48		
Zinc (Outliers Removed) (UG/L)	**C04**	13.29	C17*	6.90		
			SPA	7.47		
			C08P2	7.36		
			C03	7.21		
			C07	6.75		
			C02P2	6.39		
			C27	6.26		
			C09P2	6.24		
			C26	5.41		
			SPC	5.41		
Zinc (Filtered) (Outliers Removed) (UG/L)	**C09P2**	11.37	C17*	5.94		
			C27	6.99		
			SPC	6.28		
			C03	5.96		
			C04	5.89		
			C08P2	5.75		
			C20	5.66		
			SPA	5.58		
			C07	5.49		
			C15	5.49		

Table 7.179.

Ammunition Burning Grounds. (Continued)

	SIGNIFICANTLY HIGHER		NO SIGNIFICANT DIFFERENCE		SIGNIFICANTLY LOWER	
PARAMETER	WELL	AMOUNT	WELL	AMOUNT	WELL	AMOUNT
VOLATILE ORGANIC COMPOUNDS						
1,2-Dichloroethane (UG/L)	**C09P2**	8.76	C17*	.25**		
	C20	.67				
Carbon Tetrachloride (UG/L)	**C09P2**	.70	C17*	.15**		
Chloroform (UG/L)	**C20**	.750	C17*	.150**		
	C09P2	.725				
cis-1,2-Dichloroethene (UG/L)	**C20**	77.08	C17*	.25**		
	C08P2	17.06	C09P2	.45		
			C02P2	.40		
			C26	.38		
Tetrachloroethene (UG/L)	**C20**	1.08	C17*	.25**		
Trans-1,2-Dichloroethene (UG/L)	**C20**	7.44	C17*	.25**		
			C08P2	.34		
Trichloroethene (UG/L)	**C20**	2843.8	C17*	.27		
	C09P2	136.2	C04	.38		
	C08P2	62.0	C15	.26		
	C26	11.2				
	C02P2	6.8				
	C07	5.6				
	C27	4.5				
MISCELLANEOUS PARAMETERS						
Chloride (MG/L)	**C02P2**	64.50	C17*	3.20		
	C08P2	11.50	SPA	5.34		
	C07	8.08	C09P2	5.02		
	C04	6.51	C26	3.66		
	C20	6.16	SPC	3.43		
	C15	5.66	C27	3.15		
			C30	1.99		
			C25	1.97		
			C03	1.27		
Total Phosphorus (Filtered) (MG/L)			C17*	.055		
			C27	.110		
			C20	.101		
			C30	.084		
			C02P2	.069		
			C09P2	.065		
			C15	.063		
			C08P2	.059		
			C26	.059		
			SPC	.058		
			SPA	.056		
			C04	.054		
			C25	.054		

Table 7.179.

Ammunition Burning Grounds. (Continued)

	SIGNIFICANTLY HIGHER		NO SIGNIFICANT DIFFERENCE		SIGNIFICANTLY LOWER	
PARAMETER	WELL	AMOUNT	WELL	AMOUNT	WELL	AMOUNT
Total Phosphorus (MG/L)	**C30**	.267	C17*	.055		
			C26	.114		
			C03	.101		
			C27	.100		
			C15	.094		
			SPA	.093		
			C20	.085		
			C09P2	.081		
			C04	.072		
			C25	.071		
			SPC	.069		
			C08P2	.061		
			C07	.059		
			C02P2	.057		
Sulfate (MG/L)			C17*	983.3	C04	798.1
					C25	248.6
					C08P2	135.8
					C15	129.6
					C30	126.9
					C20	123.5
					C26	112.4
					C07	96.1
					C03	84.1
					C09P2	48.2
					C02P2	48.2
					SPA	38.4
					SPC	32.8
					C27	9.8
Total Organic Carbon (MG/L)	**SPA**	1.34	C17*	.62		
	SPC	1.28	C20	.92		
	C02P2	1.09	C26	.79		
			C07	.78		
			C04	.77		
			C08P2	.74		
			C09P2	.74		
			C03	.67		
			C25	.62		
			C30	.61		
			C27	.54		
Total Organic Halogens (MG/L)	**C20**	1.489	C17*	.025**		
	C09P2	.113	C08P2	.050		
			C15	.027		

Table 7.179.

*C17 is the upgradient well
**No detections

Old Rifle Range
Beech Creek Aquifer

	SIGNIFICANTLY HIGHER		NO SIGNIFICANT DIFFERENCE		SIGNIFICANTLY LOWER	
PARAMETER	WELL	AMOUNT	WELL	AMOUNT	WELL	AMOUNT
EXPLOSIVES						
2,4,6-Trinitrotoluene (UG/L)	**C15**	5.33	C08*	.80**		
2-Amino-4,6-Dinitrotoluene (UG/L)	**C15**	2.72	C08*	.45**		
4-Amino-2,6-Dinitrotoluene (UG/L)	**C15**	3.22	C08*	.80**		
METALS						
Antimony (Filtered) (UG/L)			C08*	2.00	C19	.88
			C11	2.02		
			C18	1.55		
			C13	1.52		
			C16	1.44		
			C14	1.43		
			C12	1.38		
			C15	1.33		
Arsenic (UG/L)	**C13**	43.59	C08*	.81		
			C18	2.14		
			C14	1.34		
			C11	1.28		
			C19	1.11		
Arsenic (Outliers Removed) (UG/L)	**C13**	39.19	C08*	.81		
			C18	2.14		
			C14	1.34		
			C11	1.28		
			C19	1.11		
Arsenic (Filtered) (UG/L)	**C13**	26.79	C08*	1.14		
			C18	2.24		
			C19	1.38		
			C11	1.09		
			C16	.54		
Barium (UG/L)	**C16**	114.1	C08*	42.2	C15	28.9
	C18	101.5	C19	43.4	C14	27.1
	C13	71.7	C12	38.9		
	C11	55.7				
Barium (Filtered) (UG/L)	**C16**	113.4	C08*	32.6		
	C18	98.9	C11	40.8		
	C13	57.3	C19	40.6		
			C12	38.4		
			C15	27.8		
			C14	22.1		

Table 7.180.

Old Rifle Range
Beech Creek Aquifer (Continued)

	SIGNIFICANTLY HIGHER		NO SIGNIFICANT DIFFERENCE		SIGNIFICANTLY LOWER	
PARAMETER	WELL	AMOUNT	WELL	AMOUNT	WELL	AMOUNT
Barium (Filtered) (Outliers Removed) (UG/L)	**C16**	102.2	C08*	32.6	C14	22.1
	C18	98.9	C15	27.8		
	C13	57.3				
	C11	40.8				
	C19	40.6				
	C12	38.4				
Cadmium (Filtered) (UG/L)			C08*	.54		
			C13	.58		
			C12	.54		
Chromium (UG/L)	**C14**	3.84	C08*	2.50**		
Chromium (Filtered) (UG/L)			C08*	5.71	C16	3.63
			C11	4.41	C12	3.34
					C19	3.21
					C15	2.92
					C18	2.89
					C14	2.74
Copper (UG/L)			C08*	2.09		
			C11	2.35		
			C13	1.60		
			C16	1.52		
Copper (Filtered) (UG/L)			C08*	2.04	C16	1.42
					C11	1.22
					C19	1.17
					C18	1.15
					C13	1.15
					C15	1.11
Lead (UG/L)	**C11**	2.02	C08*	.50**		
	C14	1.44				
Lead (Filtered) (UG/L)			C08*	.50**		
			C14	.76		
			C11	.61		
Manganese (UG/L)	**C13**	463	C08*	7.5**		
	C12	369	C11	29.8		
	C14	303	C15	14.0		
	C19	231				
	C18	129				

Table 7.180.

Old Rifle Range
Beech Creek Aquifer (Continued)

	SIGNIFICANTLY HIGHER		NO SIGNIFICANT DIFFERENCE		SIGNIFICANTLY LOWER	
PARAMETER	WELL	AMOUNT	WELL	AMOUNT	WELL	AMOUNT
Manganese (Filtered) (UG/L)	**C13**	446	C08*	7.5**		
	C12	375	C11	29		
	C14	283				
	C19	224				
	C18	129				
Selenium (UG/L)	**C13**	1.31	C08*	.50**		
	C14	.84	C15	.58		
			C11	.56		
			C18	.54		
			C12	.54		
Selenium (Filtered) (UG/L)	**C13**	.71	C08*	.50**		
Silver (UG/L)			C08*	1.50**		
			C15	1.80		
			C11	1.64		
Vanadium (UG/L)	**C14**	2.29	C08*	1.18		
Zinc (UG/L)			C08*	31.41		
			C14	45.54		
			C15	30.20		
			C18	17.06		
			C11	13.42		
			C13	14.41		
			C12	10.67		
			C16	7.74		
			C19	7.56		
Zinc (Filtered) (UG/L)	**C13**	62.39	C08*	13.59		
			C14	32.64		
			C16	31.58		
			C18	13.59		
			C11	8.99		
			C15	8.62		
			C19	6.34		
			C12	6.00		
Zinc (Outliers Removed) (UG/L)	**C14**	27.33	C08*	8.55		
			C11	10.97		
			C15	10.06		
			C19	7.56		
			C12	5.65		
			C13	5.62		
			C18	5.61		

Table 7.180.

Old Rifle Range
Beech Creek Aquifer (Continued)

	SIGNIFICANTLY HIGHER		NO SIGNIFICANT DIFFERENCE		SIGNIFICANTLY LOWER	
PARAMETER	WELL	AMOUNT	WELL	AMOUNT	WELL	AMOUNT
Zinc (Filtered) (Outliers Removed) (UG/L)			C08*	6.04		
			C16	7.08		
			C14	6.76		
			C11	6.16		
			C12	6.00		
			C13	5.42		
			C18	5.38		
MISCELLANEOUS PARAMETERS						
Ammonia (MG/L)	**C16**	.569	C08*	.042		
	C13	.311	C11	.137		
	C18	.171	C12	.111		
			C15	.051		
			C14	.037		
			C19	.029		
Ammonia (Outliers Removed) (MG/L)	**C13**	.311	C08*	.042		
	C16	.299	C15	.051		
	C18	.171	C14	.037		
	C11	.137	C19	.029		
	C12	.111				
Total Organic Carbon (MG/L)			C08*	1.52	C11	.88
			C13	1.42	C12	.63
					C19	.59
					C16	.56
					C18	.53
					C15	.52

Table 7.180.

*C08 is the upgradient well
**No detections

Old Rifle Range
Big Clifty Aquifer

	SIGNIFICANTLY HIGHER		NO SIGNIFICANT DIFFERENCE		SIGNIFICANTLY LOWER	
PARAMETER	WELL	AMOUNT	WELL	AMOUNT	WELL	AMOUNT
EXPLOSIVES						
Nitrocellulose (UG/L)			C14P2*	500**		
			C18P2	818		
			C13P2	611		
			C11P2	605		
METALS						
Antimony (Filtered) (UG/L)			C14P2*	1.48		
			C11P2	1.71		
			C19P2	1.58		
			C18P2	1.46		
			C13P2	1.46		
Arsenic (UG/L)	**C13P2**	32.5	C14P2*	.50**		
	C18P2	16.9	C11P2	1.29		
	C19P2	2.8				
Arsenic (Filtered) (UG/L)	**C13P2**	35.1	C14P2*	.50**		
	C18P2	17.8	C11P2	.56		
	C19P2	2.2				
Barium (UG/L)	**C18P2**	146.6	C14P2*	39.6		
	C13P2	60.6	C19P2	37.2		
			C11P2	35.3		
Barium (Filtered) (UG/L)	**C18P2**	166.3	C14P2*	39.3		
			C13P2	57.8		
			C11P2	36.8		
			C19P2	35.7		
Barium (Outliers Removed) (Filtered) (UG/L)	**C18P2**	137.6	C14P2*	39.3		
	C13P2	57.8	C11P2	36.8		
			C19P2	35.7		
Cadmium (Filtered) (UG/L)			C14P2*	.50**		
			C13P2	.57		
			C18P2	.57		
Chromium (Filtered) (UG/L)			C14P2*	2.91		
			C11P2	4.11		
			C18P2	3.76		
			C19P2	3.56		
			C13P2	2.86		
Copper (UG/L)	**C18P2**	1.60	C14P2*	1.00**		
			C19P2	1.32		

Table 7.181.

Old Rifle Range
Big Clifty Aquifer (Continued)

	SIGNIFICANTLY HIGHER		NO SIGNIFICANT DIFFERENCE		SIGNIFICANTLY LOWER	
PARAMETER	WELL	AMOUNT	WELL	AMOUNT	WELL	AMOUNT
Copper (Filtered) (UG/L)			C14P2*	1.11		
			C13P2	1.23		
			C18P2	1.18		
			C11P2	1.16		
Manganese (UG/L)	**C13P2**	532	C14P2*	7.5**		
	C18P2	479				
	C11P2	127				
	C19P2	122				
Manganese (Filtered) (UG/L)	**C13P2**	533	C14P2*	7.5**		
	C18P2	472				
	C19P2	119				
	C11P2	114				
Selenium (UG/L)	**C18P2**	1.80	C14P2*	.50**		
	C13P2	1.03	C11P2	.54		
Selenium (Filtered) (UG/L)	**C18P2**	1.09	C14P2*	.50**		
			C13P2	.70		
Zinc (UG/L)			C14P2*	9.98		
			C18P2	11.24		
			C11P2	10.59		
			C19P2	10.08		
			C13P2	6.00		
Zinc (Outliers Removed) (UG/L)			C14P2*	6.56		
			C11P2	6.38		
			C13P2	6.00		
			C19P2	5.42		
Zinc (Filtered) (UG/L)			C14P2*	38.46		
			C18P2	47.04		
			C13P2	40.19		
			C19P2	13.20		
Zinc (Filtered) (Outliers Removed) (UG/L)			C14P2*	5.97		
			C13P2	5.57		
MISCELLANEOUS PARAMETERS						
Ammonia (MG/L)	**C18P2**	.923	C14P2*	.019		
	C13P2	.323	C11P2	.031		
	C19P2	.071				
Total Organic Carbon (MG/L)	**C18P2**	2.87	C14P2*	.50**		
	C13P2	1.30	C11P2	.76		
			C19P2	.61		

Table 7.181.

Old Rifle Range
Big Clifty Aquifer (Continued)

	SIGNIFICANTLY HIGHER		NO SIGNIFICANT DIFFERENCE		SIGNIFICANTLY LOWER	
PARAMETER	WELL	AMOUNT	WELL	AMOUNT	WELL	AMOUNT
Total Organic Halogens (MG/L)	**C18P2**	.064	C14P2*	.025**		
			C19P2	.027		

Table 7.181.

*C14P2 is the upgradient well
**No detections

Demo Range
Big Clifty/Beech Creek Aquifer

	SIGNIFICANTLY HIGHER		NO SIGNIFICANT DIFFERENCE		SIGNIFICANTLY LOWER	
PARAMETER	WELL	AMOUNT	WELL	AMOUNT	WELL	AMOUNT
METALS						
Aluminum (UG/L)			C08*	1183		
Antimony (Filtered) (UG/L)			C08*	1.77		
			C05	1.48		
			C07	1.42		
			C03	1.25		
			C06	1.24		
			C04	1.23		
			C02	1.12		
Arsenic (UG/L)	**C03**	13.9	C08*	.92		
Arsenic (Filtered) (UG/L)	**C03**	17.6	C08*	1.21		
Barium (UG/L)	**C07**	233.5	C08*	53.2	C06	31.7
	C04	152.9				
	C02	93.5				
	C03	79.9				
	C05	68.5				
Barium (Filtered) (UG/L)	**C07**	243.6	C08*	34.3		
	C04	157.9	C06	30.9		
	C02	96.1				
	C03	80.2				
	C05	69.3				
Cadmium (UG/L)	**C02**	.75	C08*	.50**		
Chromium (Filtered) (UG/L)			C08*	6.81	C04	3.62
			C02	5.82	C06	3.46
			C03	4.93		
			C05	4.79		

Table 7.182.

Demo Range
Big Clifty/Beech Creek Aquifer (Continued)

	SIGNIFICANTLY HIGHER		NO SIGNIFICANT DIFFERENCE		SIGNIFICANTLY LOWER	
PARAMETER	WELL	AMOUNT	WELL	AMOUNT	WELL	AMOUNT
Copper (UG/L)	**C07**	8.25	C08*	3.04		
			C06	2.28		
			C05	2.14		
Copper (Outliers Removed) (UG/L)			C08*	3.04		
			C07	2.69		
			C06	2.28		
			C05	2.14		
Copper (Filtered) (UG/L)			C08*	2.71	C05	1.84
					C06	1.83
					C07	1.79
					C04	1.18
Manganese (UG/L)	**C03**	465	C08*	12		
	C04	185				
	C02	87				
	C06	32				
Manganese (Filtered) (UG/L)	**C03**	464	C08*	7.5**		
	C04	184				
	C02	89				
	C06	27				
Selenium (UG/L)	**C04**	.91	C08*	.50**		
			C03	.66		
Vanadium (UG/L)			C08*	1.64		
Vanadium (Filtered) (UG/L)			C08*	1.28		
			C02	1.16		
			C06	1.10		
Zinc (UG/L)			C08*	56.6	C07	13.0
					C06	11.8
					C02	9.3
					C05	6.3
					C04	5.9
Zinc (Outliers Removed) (UG/L)			C08*	13.4	C07	7.8
					C02	6.4
					C05	6.3
					C04	5.9
Zinc (Filtered) (UG/L)			C08*	5.0**		
			C02	12.3		
			C05	6.6		

Table 7.182.

Demo Range
Big Clifty/Beech Creek Aquifer (Continued)

	SIGNIFICANTLY HIGHER		NO SIGNIFICANT DIFFERENCE		SIGNIFICANTLY LOWER	
PARAMETER	WELL	AMOUNT	WELL	AMOUNT	WELL	AMOUNT
MISCELLANEOUS PARAMETERS						
Total Organic Carbon (MG/L)	**C03**	2.04	C08*	.62		
	C04	1.39	C07	.81		
			C06	.66		
			C02	.55		
			C05	.55		

Table 7.182.

*C08 is the upgradient well
**No detections

Demo Range
Pennsylvanian Aquifer

	SIGNIFICANTLY HIGHER		NO SIGNIFICANT DIFFERENCE		SIGNIFICANTLY LOWER	
PARAMETER	WELL	AMOUNT	WELL	AMOUNT	WELL	AMOUNT
METALS						
Aluminum (UG/L)			C08P2*	315		
			C03P2	8333		
Aluminum (Filtered) (UG/L)			C08P2*	283		
Antimony (Filtered) (UG/L)			C08P2*	1.34		
			C04P2	1.62		
			C06P2	1.52		
			C03P2	1.33		
Arsenic (UG/L)			C08P2*	1.52	C03P2	.95
Arsenic (Filtered) (UG/L)			C08P2*	1.71		
Barium (UG/L)	**C03P2**	111.4	C08P2*	11.1		
	C04P2	32.3	C06P2	14.3		
Barium (Filtered) (UG/L)	**C03P2**	91.8	C08P2*	11.2		
	C04P2	31.5	C06P2	14.4		
Chromium (Filtered) (UG/L)	**C04P2**	5.72	C08P2*	2.50**		
			C03P2	3.96		
Cobalt (UG/L)			C08P2*	5.98	C03P2	2.03
Cobalt (Filtered) (UG/L)			C08P2*	5.98		
Lead (UG/L)			C08P2*	.64		
			C03P2	1.69		
			C04P2	.69		
Nickel (UG/L)			C08P2*	22.9	C03P2	7.67
Nickel (Filtered) (UG/L)			C08P2*	22.9		
Manganese (UG/L)			C08P2*	517	C04P2	43.6
					C03P2	26.7
Manganese (Filtered) (UG/L)			C08P2*	522	C04P2	29.1
					C03P2	9.1
Selenium (UG/L)	**C04P2**	1.00	C08P2*	.50**		
	C03P2	.93				
Zinc (UG/L)			C08P2*	33.6	C03P2	15.1
					C04P2	12.2
Zinc (Filtered) (UG/L)			C08P2*	37.0	C06P2	7.4
					C04P2	5.8

Table 7.183.

Demo Range
Pennsylvanian Aquifer (Continued)

	SIGNIFICANTLY HIGHER		NO SIGNIFICANT DIFFERENCE		SIGNIFICANTLY LOWER	
PARAMETER	WELL	AMOUNT	WELL	AMOUNT	WELL	AMOUNT
Zinc (Outliers Removed) (UG/L)			C08P2*	33.6	C03P2	10.6
					C04P2	6.0
Zinc (Filtered) (Outliers Removed) (UG/L)			C08P2	37.0	C06P2	7.4
					C04P2	5.8

Table 7.183.

*C08P2 is the upgradient well
**No detections

Non-Detects and Percent Non-Detects

Tables 7.184 thru 7.188 show the number of non-detects, total samples, and percent non-detects for upgradient and downgradient wells for all parameters that had any detections. Tables include all data from 2000 to 2003.

Ammunition Burning Grounds

	UPGRADIENT			DOWNGRADIENT		
PARAMETER	NON-DETECTS	TOTAL SAMPLES	PERCENT	NON-DETECTS	TOTAL SAMPLES	PERCENT
EXPLOSIVES						
1,3,5-Trinitrobenzene (UG/L)	23	23	100.0%	225	243	92.6%
2,4,6-Trinitrotoluene (UG/L)	23	23	100.0%	238	243	97.9%
2-Amino-4,6-Dinitrotoluene (UG/L)	23	23	100.0%	205	243	84.4%
4-Amino-2,6-Dinitrotoluene (UG/L)	23	23	100.0%	205	243	84.4%
HMX (UG/L)	23	23	100.0%	135	243	55.6%
Nitrocellulose (UG/L)	23	23	100.0%	235	243	96.7%
RDX (UG/L)	23	23	100.0%	113	243	46.5%
METALS						
Antimony (Filtered) (UG/L)	23	23	100.0%	236	243	97.1%
Arsenic (UG/L)	0	23	0.0%	236	243	97.1%
Arsenic (Filtered) (UG/L)	1	23	4.3%	242	243	99.6%
Barium (UG/L)	0	23	0.0%	0	243	0.0%
Barium (Filtered) (UG/L)	0	23	0.0%	0	243	0.0%
Calcium (Filtered) (UG/L)	0	22	0.0%	0	228	0.0%
Chromium (Filtered) (UG/L)	14	23	60.9%	207	243	85.2%
Copper (UG/L)	16	17	94.1%	171	183	93.4%
Copper (Filtered) (UG/L)	15	17	88.2%	173	183	94.5%
Lead (UG/L)	23	23	100.0%	234	243	96.3%
Lead (Filtered) (UG/L)	23	23	100.0%	240	243	98.8%
Magnesium (Filtered) (UG/L)	0	22	0.0%	15	228	6.6%
Potassium (Filtered) (UG/L)	0	22	0.0%	10	228	4.4%
Selenium (UG/L)	11	23	47.8%	165	243	67.9%
Selenium (Filtered) (UG/L)	10	23	43.5%	195	243	80.2%
Sodium (Filtered) (UG/L)	0	22	0.0%	3	228	1.3%
Sodium (Filtered) (Outliers Removed) (UG/L)	0	21	0.0%	3	228	1.3%
Vanadium (UG/L)	23	23	100.0%	238	243	97.9%
Zinc (UG/L)	17	23	73.9%	193	242	79.8%
Zinc (Filtered) (UG/L)	21	23	91.3%	201	243	82.7%
Zinc (Outliers Removed) (UG/L)	17	21	81.0%	193	220	87.7%
Zinc (Outliers Removed) (Filtered) (UG/L)	21	23	91.3%	201	217	92.6%
VOLATILE ORGANIC COMPOUNDS						
1,2-Dichloroethane (UG/L)	7	7	100.0%	85	94	90.4%
Carbon Tetrachloride (UG/L)	5	5	100.0%	75	79	94.9%
Chloroform (UG/L)	5	5	100.0%	71	79	89.9%
cis-1,2-Dichloroethene (UG/L)	23	23	100.0%	206	242	85.1%
Tetrachloroethene (UG/L)	7	7	100.0%	89	94	94.7%
trans-1,2-Dichloroethene (UG/L)	23	23	100.0%	224	242	92.6%
Trichloroethene (UG/L)	22	23	95.7%	123	241	51.0%

Table 7.184.

PARAMETER	UPGRADIENT			DOWNGRADIENT		
	NON-DETECTS	TOTAL SAMPLES	PERCENT	NON-DETECTS	TOTAL SAMPLES	PERCENT
MISCELLANEOUS PARAMETERS						
Chloride (MG/L)	0	23	0.0%	1	243	0.4%
Total Phosphorus (Filtered) (MG/L)	21	23	91.3%	218	243	89.7%
Total Phosphorus (MG/L)	22	23	95.7%	203	243	83.5%
Sulfate (MG/L)	0	23	0.0%	0	249	0.0%
Total Organic Carbon (MG/L)	19	23	82.6%	170	242	70.2%
Total Organic Halogens (MG/L)	23	23	100.0%	198	243	81.5%

Table 7.184.

Old Rifle Range
Beech Creek Aquifer

PARAMETER	UPGRADIENT			DOWNGRADIENT		
	NON-DETECTS	TOTAL SAMPLES	PERCENT	NON-DETECTS	TOTAL SAMPLES	PERCENT
EXPLOSIVES						
2,4,6-Trinitrotoluene (UG/L)	16	16	100.0%	127	149	85.2%
2-Amino-4,6-Dinitrotoluene (UG/L)	16	16	100.0%	125	149	83.9%
4-Amino-2,6-Dinitrotoluene (UG/L)	16	16	100.0%	125	149	83.9%
METALS						
Antimony (Filtered) (UG/L)	4	16	25.0%	67	149	45.0%
Arsenic (UG/L)	11	16	68.8%	83	149	55.7%
Arsenic (Outliers Removed) (UG/L)	11	16	68.8%	83	148	56.1%
Arsenic (Filtered) (UG/L)	6	16	37.5%	87	149	58.4%
Barium (UG/L)	0	16	0.0%	0	149	0.0%
Barium (Filtered) (UG/L)	0	16	0.0%	0	149	0.0%
Barium (Filtered) (Outliers Removed) (UG/L)	0	16	0.0%	0	148	0.0%
Cadmium (Filtered) (UG/L)	15	16	93.8%	146	149	98.0%
Chromium (UG/L)	16	16	100.0%	162	165	98.2%
Chromium (Filtered) (UG/L)	10	16	62.5%	131	149	87.9%
Copper (UG/L)	9	16	56.3%	135	149	90.6%
Copper (Filtered) (UG/L)	8	16	50.0%	138	148	93.2%
Lead (UG/L)	16	16	100.0%	131	149	87.9%
Lead (Filtered) (UG/L)	16	16	100.0%	146	149	98.0%
Manganese (UG/L)	16	16	100.0%	38	149	25.5%
Manganese (Filtered) (UG/L)	16	16	100.0%	54	149	36.2%
Silver (UG/L)	16	16	100.0%	146	149	98.0%
Selenium (UG/L)	16	16	100.0%	126	149	84.6%
Selenium (Filtered) (UG/L)	16	16	100.0%	146	149	98.0%
Vanadium (UG/L)	14	16	87.5%	144	149	96.6%
Zinc (UG/L)	9	16	56.3%	103	149	69.1%
Zinc (Filtered) (UG/L)	13	16	81.3%	123	149	82.6%
Zinc (Outliers Removed) (UG/L)	9	13	69.2%	103	135	76.3%
Zinc (Outliers Removed) (Filtered) (UG/L)	13	14	92.9%	123	133	92.5%
MISCELLANEOUS PARAMETERS						
Ammonia (MG/L)	2	16	12.5%	28	149	18.8%
Ammonia (Outliers Removed) (MG/L)	2	16	12.5%	28	148	18.9%
Total Organic Carbon (MG/L)	10	16	62.5%	120	149	80.5%

Table 7.185.

Old Rifle Range
Big Clifty Aquifer

PARAMETER	UPGRADIENT			DOWNGRADIENT		
	NON-DETECTS	TOTAL SAMPLES	PERCENT	NON-DETECTS	TOTAL SAMPLES	PERCENT
EXPLOSIVES						
Nitrocellulose (UG/L)	17	17	100.0%	71	74	95.9%
METALS						
Antimony (Filtered) (UG/L)	6	17	35.3%	30	74	40.5%
Arsenic (UG/L)	17	17	100.0%	6	74	8.1%
Arsenic (Filtered) (UG/L)	17	17	100.0%	19	74	25.7%
Barium (UG/L)	0	17	0.0%	0	74	0.0%
Barium (Filtered) (UG/L)	0	17	0.0%	0	74	0.0%
Barium (Filtered) (Outliers Removed) (UG/L)	0	17	0.0%	0	73	0.0%
Cadmium (Filtered) (UG/L)	17	17	100.0%	71	74	95.9%
Chromium (Filtered) (UG/L)	15	17	88.2%	61	74	82.4%
Copper (UG/L)	17	17	100.0%	66	74	89.2%
Copper (Filtered) (UG/L)	16	17	94.1%	69	74	93.2%
Manganese (UG/L)	17	17	100.0%	0	74	0.0%
Manganese (Filtered) (UG/L)	17	17	100.0%	0	74	0.0%
Selenium (UG/L)	17	17	100.0%	55	74	74.3%
Selenium (Filtered) (UG/L)	17	17	100.0%	63	74	85.1%
Zinc (UG/L)	14	17	82.4%	66	74	89.2%
Zinc (Filtered) (UG/L)	13	17	76.5%	62	74	83.8%
Zinc (Outliers Removed) (UG/L)	14	16	87.5%	66	69	95.7%
MISCELLANEOUS PARAMETERS						
Ammonia (MG/L)	13	17	76.5%	8	74	10.8%
Total Organic Carbon (MG/L)	17	17	100.0%	36	74	48.6%
Total Organic Halogens (MG/L)	17	17	100.0%	67	74	90.5%

Table 7.186.

Demo Range
Big Clifty/Beech Creek Aquifer

PARAMETER	UPGRADIENT			DOWNGRADIENT		
	NON-DETECTS	TOTAL SAMPLES	PERCENT	NON-DETECTS	TOTAL SAMPLES	PERCENT
METALS						
Aluminum (UG/L)	0	6	0.0%	40	40	100.0%
Antimony (Filtered) (UG/L)	4	9	44.4%	33	60	55.0%
Arsenic (UG/L)	5	9	55.6%	50	60	83.3%
Arsenic (Filtered) (UG/L)	2	9	22.2%	50	60	83.3%
Barium (UG/L)	0	9	0.0%	0	60	0.0%
Barium (Filtered) (UG/L)	0	9	0.0%	0	60	0.0%
Cadmium (UG/L)	9	9	100.0%	57	60	95.0%
Chromium (Filtered) (UG/L)	2	9	22.2%	33	60	55.0%
Copper (UG/L)	1	9	11.1%	44	60	73.3%
Copper (Filtered) (UG/L)	2	9	22.2%	45	60	75.0%
Manganese (UG/L)	8	9	88.9%	22	60	36.7%
Manganese (Filtered) (UG/L)	9	9	100.0%	23	60	38.3%
Selenium (UG/L)	9	9	100.0%	55	60	91.7%
Vanadium (UG/L)	6	9	66.7%	60	60	100.0%
Vanadium (Filtered) (UG/L)	8	9	88.9%	58	60	96.7%
Zinc (UG/L)	4	9	44.4%	52	60	86.7%
Zinc (Filtered) (UG/L)	9	9	100.0%	57	60	95.0%
Zinc (Outliers Removed) (UG/L)	4	6	66.7%	52	57	91.2%
MISCELLANEOUS PARAMETERS						
Total Organic Carbon (MG/L)	8	9	88.9%	33	60	55.0%

Table 7.187.

Demo Range
Pennsylvanian Aquifer

	UPGRADIENT			DOWNGRADIENT		
PARAMETER	NON-DETECTS	TOTAL SAMPLES	PERCENT	NON-DETECTS	TOTAL SAMPLES	PERCENT
METALS						
Aluminum (UG/L)	0	5	0.0%	15	17	88.2%
Aluminum (Filtered) (UG/L)	0	5	0.0%	17	17	100.0%
Antimony (Filtered) (UG/L)	4	8	50.0%	8	26	30.8%
Arsenic (UG/L)	0	8	0.0%	24	26	92.3%
Arsenic (Filtered) (UG/L)	0	8	0.0%	26	26	100.0%
Barium (UG/L)	0	8	0.0%	0	26	0.0%
Barium (Filtered) (UG/L)	0	8	0.0%	0	26	0.0%
Chromium (Filtered) (UG/L)	8	8	100.0%	17	26	65.4%
Cobalt (UG/L)	0	8	0.0%	24	26	92.3%
Cobalt (Filtered) (UG/L)	0	8	0.0%	26	26	100.0%
Copper (UG/L)	8	8	100.0%	23	26	88.5%
Nickel (UG/L)	0	8	0.0%	24	26	92.3%
Nickel (Filtered) (UG/L)	0	8	0.0%	26	26	100.0%
Manganese (UG/L)	0	8	0.0%	15	26	57.7%
Manganese (Filtered) (UG/L)	0	8	0.0%	16	26	61.5%
Selenium (UG/L)	8	8	100.0%	17	26	65.4%
Zinc (UG/L)	0	8	0.0%	21	26	80.8%
Zinc (Filtered) (UG/L)	0	8	0.0%	23	26	88.5%
Zinc (Outliers Removed) (UG/L)	0	8	0.0%	21	24	87.5%
Zinc (Outliers Removed) (Filtered) (UG/L)	0	8	0.0%	23	26	88.5%

Table 7.188.

Maximum Detections and Range of Detections

Tables 7.189 thru 7.193 show the location of the maximum detection for each parameter. Also shown is the range of detection when detections occurred, and the detection limit. The Maximum Detection Location shows the well where the highest value was found. The Maximum Detection Average shows the well that had the largest average over time. Tables include all data from 2000 to 2003.

Ammunition Burning Grounds

PARAMETER	MAX DETECTION LOCATION	MAX DETECTION AVERAGE	RANGE OF DETECTION MINIMUM	RANGE OF DETECTION MAXIMUM	NON-DETECTION LIMIT
EXPLOSIVES					
1,3,5-Trinitrobenzene (UG/L)	C20	C20	3.8	13	1
2,4,6-Trinitrotoluene (UG/L)	SPA	SPA	3	5.5	1.6
2-Amino-4,6-Dinitrotoluene (UG/L)	C20	C20	1.1	14	0.9
4-Amino-2,6-Dinitrotoluene (UG/L)	C20	C20	2.4	18	1.6
HMX (UG/L)	C20	C08P2	2	36	2
Nitrocellulose (UG/L)	C17	C03	1200	4500	1000
RDX (UG/L)	C20	C20	0.89	250	0.61
METALS					
Antimony (Filtered) (UG/L)	C04	C04	1	1.8	1
Arsenic (UG/L)	C17	C17	1.5	3.1	1
Arsenic (Filtered) (UG/L)	C17	C17	1.3	2.6	1
Barium (UG/L)	SPA	C02P2	10	134	1
Barium (Filtered) (UG/L)	SPA	C02P2	8.9	142	1
Calcium (Filtered) (UG/L)	C17	C17	1060	208000	1000
Chromium (Filtered) (UG/L)	C25	C17	5	19.7	5
Copper (UG/L)	C15	C03	2.2	10.4	2
Copper (Filtered) (UG/L)	C09P2	C03	2.1	6	2
Lead (UG/L)	C09P2	C09P2	1.1	1.8	1
Lead (Filtered) (UG/L)	SPA	SPA	1.1	12.1	1
Magnesium (Filtered) (UG/L)	C17	C04	2580	225000	1000
Potassium (Filtered) (UG/L)	C08P2	C08P2	1000	31100	1000
Selenium (UG/L)	C30	C04	1	5.3	1
Selenium (Filtered) (UG/L)	C30	C04	1	4	1
Sodium (Filtered) (UG/L)	C17	C03	1750	354000	1000
Sodium (Filtered) (Outliers Removed) (UG/L)	C03	C03	1750	303000	1000
Vanadium (UG/L)	C09P2	C09P2	2.2	3.2	2
Zinc (UG/L)	C25	C25	10.8	193	10
Zinc (Filtered) (UG/L)	C03	C09P2	11	349	10
Zinc (Outliers Removed) (UG/L)	C04	C04	10.8	29.4	10
Zinc (Outliers Removed) (Filtered) (UG/L)	C09P2	C09P2	11	47.1	10
VOLATILE ORGANIC COMPOUNDS					
1,2-Dichloroethane (UG/L)	C09P2	C09P2	0.6	9.6	0.5
Carbon Tetrachloride (UG/L)	C09P2	C09P2	0.6	0.8	0.3
Chloroform (UG/L)	C20	C20	0.6	0.9	0.3
cis-1,2-Dichloroethene (UG/L)	C20	C20	0.5	100	0.5
Tetrachloroethene (UG/L)	C20	C20	1	1.1	0.5
trans-1,2-Dichloroethene (UG/L)	C20	C20	0.7	9.4	0.5
Trichloroethene (UG/L)	C20	C20	0.5	4500	0.5

Table 7.189.

Ammunition Burning Grounds (Continued)

PARAMETER	MAX DETECTION LOCATION	AVERAGE	RANGE OF DETECTION MINIMUM	MAXIMUM	NON-DETECTION LIMIT
MISCELLANEOUS PARAMETERS					
Chloride (MG/L)	C02P2	C02P2	1	100	1
Total Phosphorus (Filtered) (MG/L)	C27	C27	0.1	0.9	0.1
Total Phosphorus (MG/L)	C30	C30	0.1	1.9	0.1
Sulfate (MG/L)	C17	C17	8	1300	1
Total Organic Carbon (MG/L)	C02P2	C02P2	1	3.9	1
Total Organic Halogens (MG/L)	C20	C20	0.05	2.7	0.05

Table 7.189.

Old Rifle Range
Beech Creek Aquifer

PARAMETER	MAX DETECTION LOCATION	AVERAGE	RANGE OF DETECTION MINIMUM	MAXIMUM	NON-DETECTION LIMIT
EXPLOSIVES					
2,4,6-Trinitrotoluene (UG/L)	C15	C15	4.1	7.8	1.6
2-Amino-4,6-Dinitrotoluene (UG/L)	C15	C15	2	3.7	0.9
4-Amino-2,6-Dinitrotoluene (UG/L)	C15	C15	2.2	4.4	1.6
METALS					
Antimony (Filtered) (UG/L)	C11	C11	1	3.5	1
Arsenic (UG/L)	C13	C13	1.1	114	1
Arsenic (Filtered) (UG/L)	C13	C13	1	33	1
Arsenic (Outliers Removed) (UG/L)	C13	C13	1.1	64.3	1
Barium (UG/L)	C16	C16	20.9	127	1
Barium (Filtered) (UG/L)	C16	C16	9.6	326	1
Barium (Filtered) (Outliers Removed) (UG/L)	C18	C16	9.6	121	1
Cadmium (Filtered) (UG/L)	C13	C13	1.1	1.3	1
Chromium (UG/L)	C14	C14	7.6	14.9	5
Chromium (Filtered) (UG/L)	C08	C08	5	18	5
Copper (UG/L)	C13	C11	2.3	8.1	2
Copper (Filtered) (UG/L)	C08	C08	2	4.6	2
Lead (UG/L)	C11	C11	1.1	8.4	1
Lead (Filtered) (UG/L)	C14	C14	1.2	5.1	1
Manganese (UG/L)	C13	C13	16.9	552	15
Manganese (Filtered) (UG/L)	C13	C13	23.9	553	15
Selenium (UG/L)	C13	C13	1.1	2.6	1
Selenium (Filtered) (UG/L)	C13	C13	1.1	2.1	1
Silver (UG/L)	C15	C15	3.8	5.2	3
Vanadium (UG/L)	C14	C14	2.2	11.3	2
Zinc (UG/L)	C08	C14	11.9	309	10
Zinc (Filtered) (UG/L)	C14	C13	10.1	385	10
Zinc (Outliers Removed) (UG/L)	C14	C14	11.9	46.9	10
Zinc (Outliers Removed) (Filtered) (UG/L)	C16	C16	10.1	32	10
MISCELLANEOUS PARAMETERS					
Ammonia (MG/L)	C16	C16	0.01	5.7	0.01
Ammonia (Outliers Removed) (MG/L)	C13	C13	0.01	0.45	0.01
Total Organic Carbon (MG/L)	C08	C08	1	8.8	1

Table 7.190.

Old Rifle Range
Big Clifty Aquifer

PARAMETER	MAX DETECTION LOCATION	MAX DETECTION AVERAGE	RANGE OF DETECTION MINIMUM	RANGE OF DETECTION MAXIMUM	NON-DETECTION LIMIT
METALS					
Antimony (Filtered) (UG/L)	C11P2	C11P2	1.1	3.2	1
Arsenic (UG/L)	C13P2	C13P2	1.1	37.1	1
Arsenic (Filtered) (UG/L)	C13P2	C13P2	1.1	41.4	1
Barium (UG/L)	C18P2	C18P2	29	183	1
Barium (Filtered) (UG/L)	C18P2	C18P2	26.9	625	1
Barium (Filtered) (Outliers Removed) (UG/L)	C18P2	C18P2	26.9	168	1
Cadmium (Filtered) (UG/L)	C18P2	C13P2	1.1	1.7	1
Chromium (Filtered) (UG/L)	C11P2	C11P2	5	18.9	5
Copper (UG/L)	C18P2	C18P2	2.2	5	2
Copper (Filtered) (UG/L)	C13P2	C13P2	2.1	4.1	2
Manganese (UG/L)	C18P2	C13P2	85.7	639	15
Manganese (Filtered) (UG/L)	C13P2	C13P2	76.2	672	15
Selenium (UG/L)	C18P2	C18P2	1.1	6.1	1
Selenium (Filtered) (UG/L)	C13P2	C18P2	1	2.6	1
Nitrocellulose (UG/L)	C18P2	C18P2	2500	5900	500
Zinc (UG/L)	C19P2	C18P2	12.1	98.7	10
Zinc (Filtered) (UG/L)	C18P2	C18P2	12.4	505	10
Zinc (Outliers Removed) (UG/L)	C11P2	C14P2	12.1	28.4	10
MISCELLANEOUS PARAMETERS					
Ammonia (MG/L)	C18P2	C18P2	0.02	1.2	0.01
Total Organic Carbon (MG/L)	C18P2	C18P2	1	4.5	1
Total Organic Halogens (MG/L)	C18P2	C18P2	0.06	0.33	0.05

Table 7.191.

Demo Range
Big Clifty/Beech Creek Aquifer

PARAMETER	MAX DETECTION LOCATION	MAX DETECTION AVERAGE	RANGE OF DETECTION MINIMUM	RANGE OF DETECTION MAXIMUM	NON-DETECTION LIMIT
METALS					
Aluminum (UG/L)	C08	C08	396	1670	200
Antimony (Filtered) (UG/L)	C05	C08	1	3.3	1
Arsenic (UG/L)	C03	C03	1.2	16.6	1
Arsenic (Filtered) (UG/L)	C03	C03	1.1	20.4	1
Barium (UG/L)	C07	C07	26.6	252	1
Barium (Filtered) (UG/L)	C07	C07	25.1	276	1
Cadmium (UG/L)	C02	C02	1.1	1.9	1
Chromium (Filtered) (UG/L)	C08	C08	5	12.3	5
Copper (UG/L)	C07	C07	2.2	47.2	2
Copper (Filtered) (UG/L)	C08	C08	2	5.1	2
Manganese (UG/L)	C03	C03	25.9	549	15
Manganese (Filtered) (UG/L)	C03	C03	20.6	518	15
Selenium (UG/L)	C03	C04	1.2	2.1	1
Vanadium (UG/L)	C08	C08	2.2	4.1	2
Vanadium (Filtered) (UG/L)	C08	C08	2.1	3.5	2
Zinc (UG/L)	C08	C08	11.1	179	10
Zinc (Filtered) (UG/L)	C02	C02	21.5	68.5	10
Zinc (Outliers Removed) (UG/L)	C08	C08	11.1	35.8	10
MISCELLANEOUS PARAMETERS					
Total Organic Carbon (MG/L)	C03	C03	1	2.4	1

Table 7.192.

Demo Range
Pennsylvanian Aquifer

PARAMETER	MAX DETECTION LOCATION	MAX DETECTION AVERAGE	RANGE OF DETECTION MINIMUM	RANGE OF DETECTION MAXIMUM	NON-DETECTION LIMIT
METALS					
Aluminum (UG/L)	C03P2	C03P2	273	28700	200
Aluminum (Filtered) (UG/L)	C08P2	C08P2	241	326	200
Antimony (Filtered) (UG/L)	C08P2	C04P2	1	3.1	1
Arsenic (UG/L)	C03P2	C08P2	1.1	3.2	1
Arsenic (Filtered) (UG/L)	C08P2	C08P2	1.4	2	1
Barium (UG/L)	C03P2	C03P2	10.3	190	1
Barium (Filtered) (UG/L)	C03P2	C03P2	10	109	1
Chromium (Filtered) (UG/L)	C04P2	C04P2	5.5	10.4	5
Cobalt (UG/L)	C08P2	C08P2	3.6	6.7	3
Cobalt (Filtered) (UG/L)	C08P2	C08P2	5.4	6.4	3
Copper (UG/L)	C03P2	C03P2	2.5	5.7	2
Lead (UG/L)	C03P2	C03P2	1.6	7.2	1
Nickel (UG/L)	C08P2	C08P2	15.2	25.4	10
Nickel (Filtered) (UG/L)	C08P2	C08P2	20.8	25.4	10
Selenium (UG/L)	C04P2	C04P2	1	1.9	1
Manganese (UG/L)	C08P2	C08P2	17.4	613	15
Manganese (Filtered) (UG/L)	C08P2	C08P2	15.1	664	15
Zinc (UG/L)	C04P2	C08P2	12	55.7	10
Zinc (Filtered) (UG/L)	C08P2	C08P2	11.1	41.6	10
Zinc (Outliers Removed) (UG/L)	C08P2	C08P2	12	40.3	10
Zinc (Filtered) (Outliers Removed) (UG/L)	C08P2	C08P2	11.1	41.6	10

Table 7.193.

Trend Analysis

The following graphs were made to analyze any trends over the different time periods. Graphs were made for all parameters and all locations where downgradient wells were significantly higher than the upgradient well and data was available for more than one quarter. There are cases where outliers being removed from a well caused a downgradient well to show a significant result, even though no outlier was removed from that particular well. This "masking effect" is seen when a large outlier is removed, lowering the variance of results, and allowing other wells to be seen as significant. A note is shown under these graphs (*No outliers removed from this well). On the time period scale, the periods are shown as quarters. If repeat samples were taken in a quarter then the time period scale will show repeat times. In some cases, these graphs show that the detection amount is very sporadic. Even the repeat samples sometimes were different. A regression line (red) is shown on the graph. This was tested for a significant increase or decrease. If there is a significant increase or decrease, then significant increase or significant decrease is printed under the well name in the title. Also, a bold line (black) is shown on the graphs to reflect the baseline value which is the mean value for the upgradient well. If there were no detections for the upgradient well, the mean value is one-half of the detection limit. A dash line is shown on the graphs to reflect the risk-based target level. If the risk-based target level is larger than the scale value on the graph, no line will appear. Also, some of the parameters do not have a risk-based target level. Figures 7.41 thru 7.130 are for the Ammunition Burning Grounds, Figures 7.131 thru 7.172 are for the Old Rifle Range Beech Creek Aquifer, Figures 7.173 thru 7.201 are for the Old Rifle Range Big Clifty Aquifer, Figures 7.202 thru 7.226 are for the Demo Range Big Clifty/Beech Creek Aquifer, and Figures 7.227 thru 7.233 are for the Demo Range Pennsylvanian Aquifer.

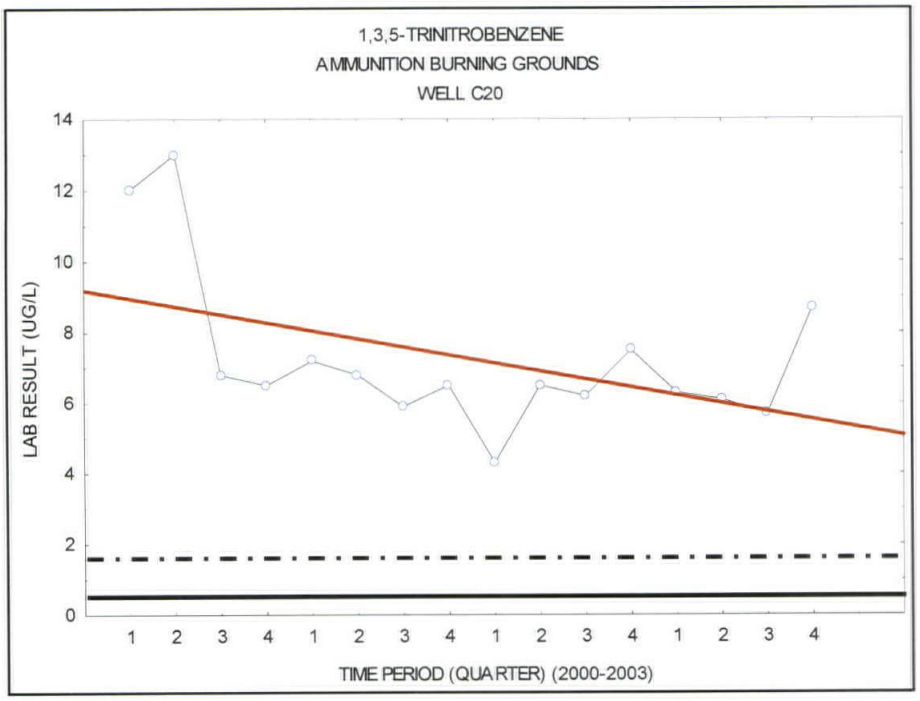


Figure 7.41.

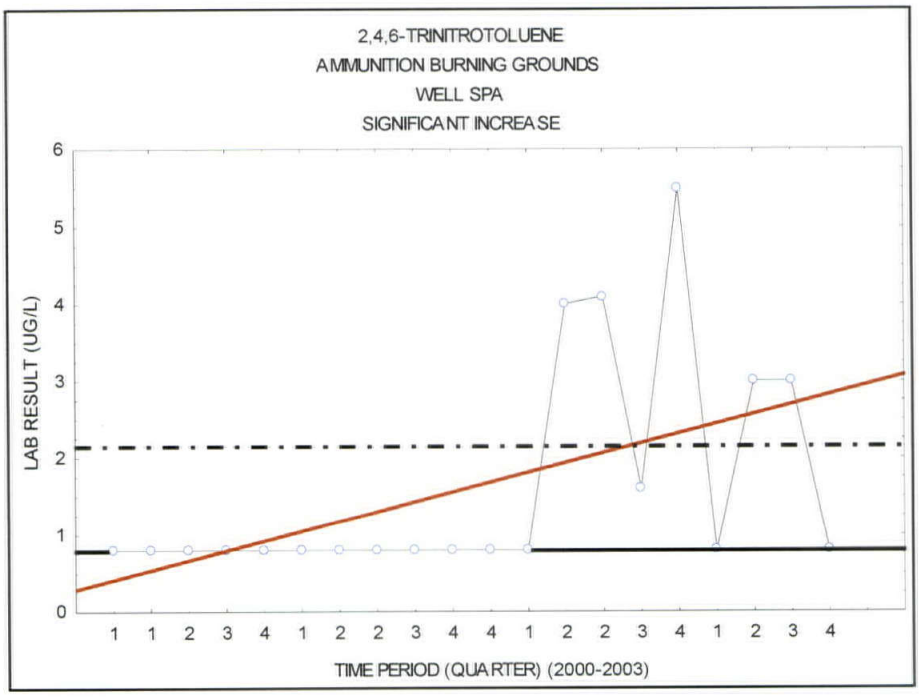


Figure 7.42.

= Regression Line
= Baseline Value
= Risk-Based Target Level

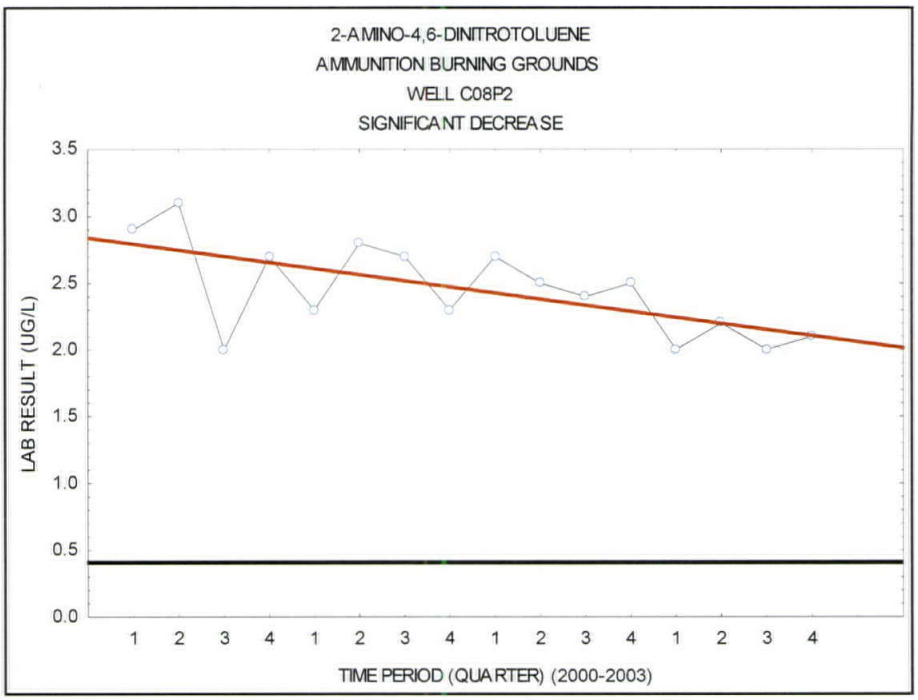


Figure 7.43.

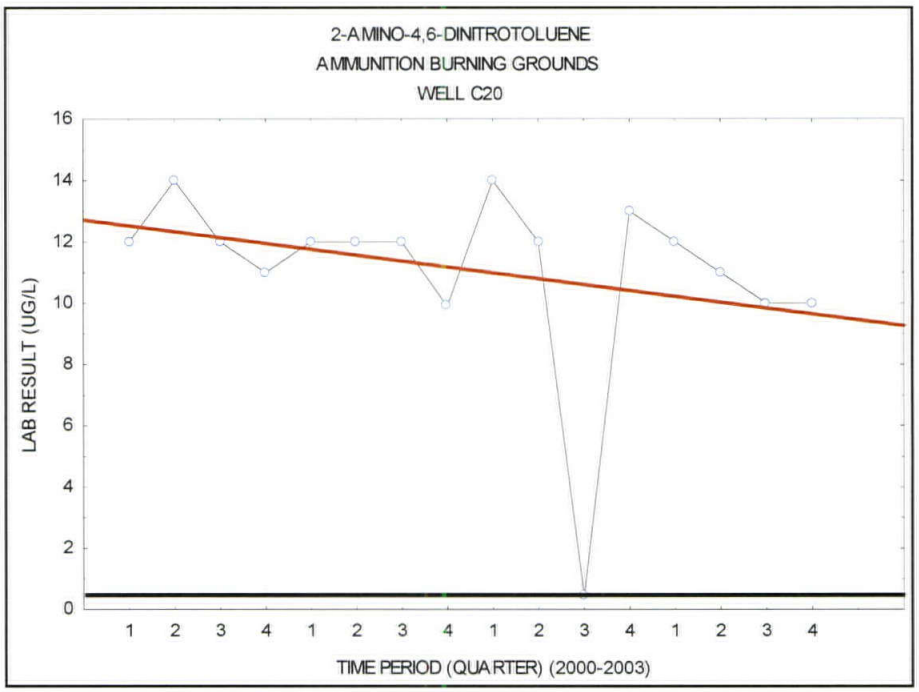


Figure 7.44.

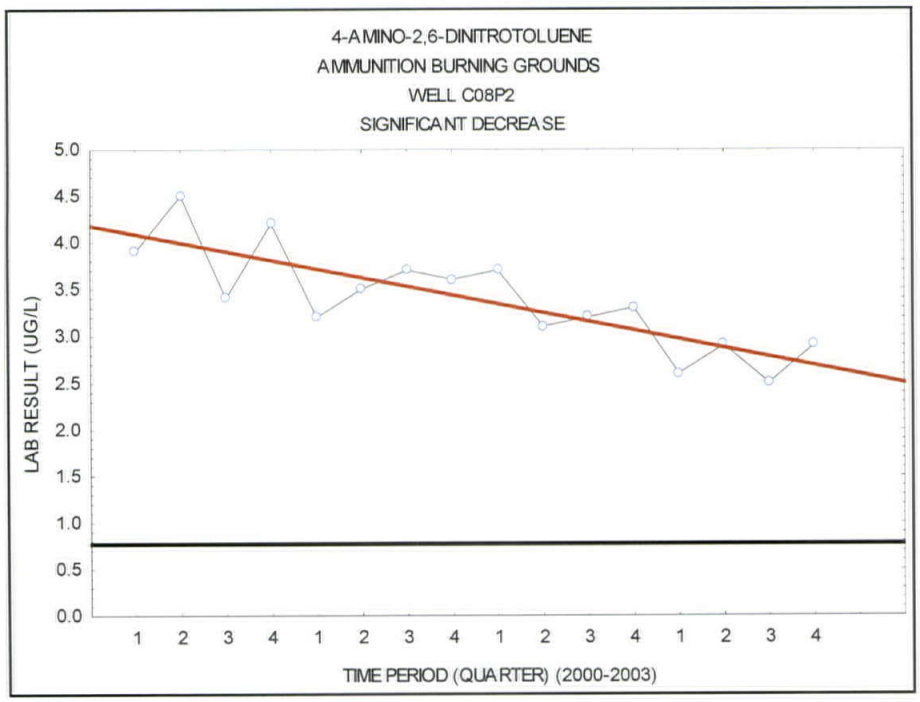


Figure 7.45.

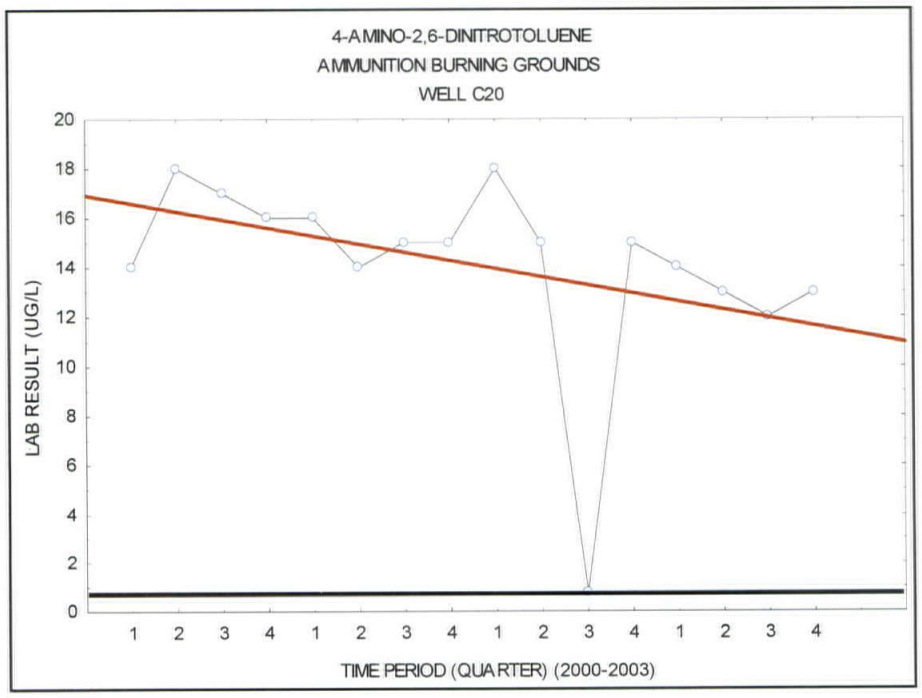


Figure 7.46.

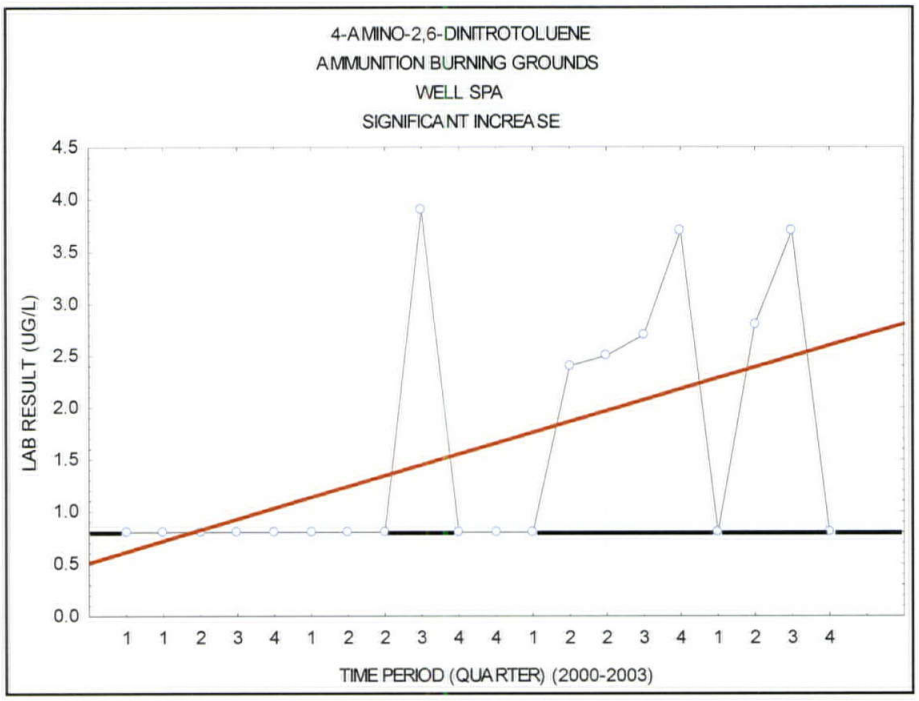


Figure 7.47.

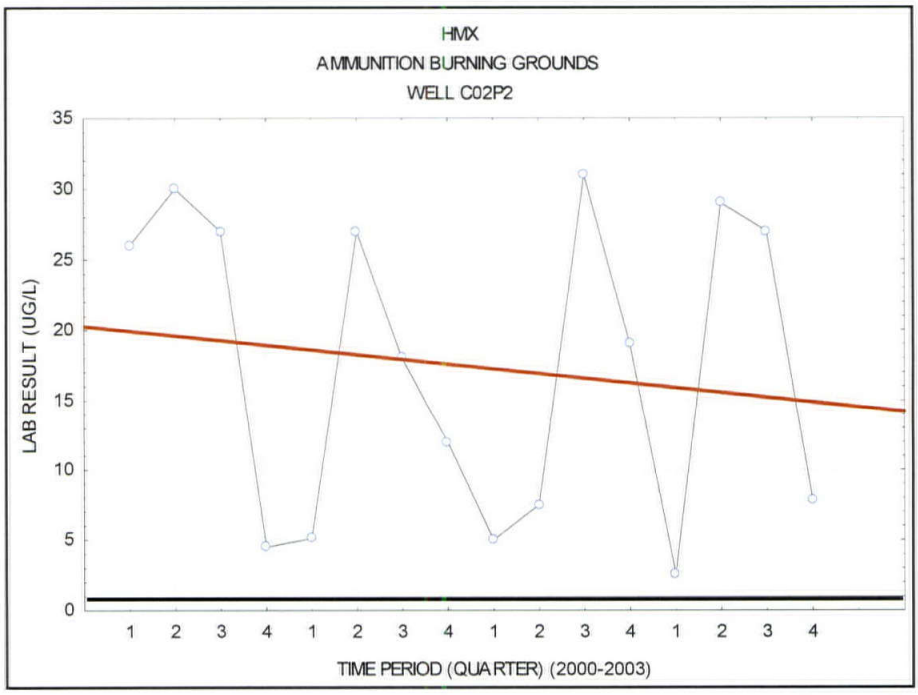


Figure 7.48.

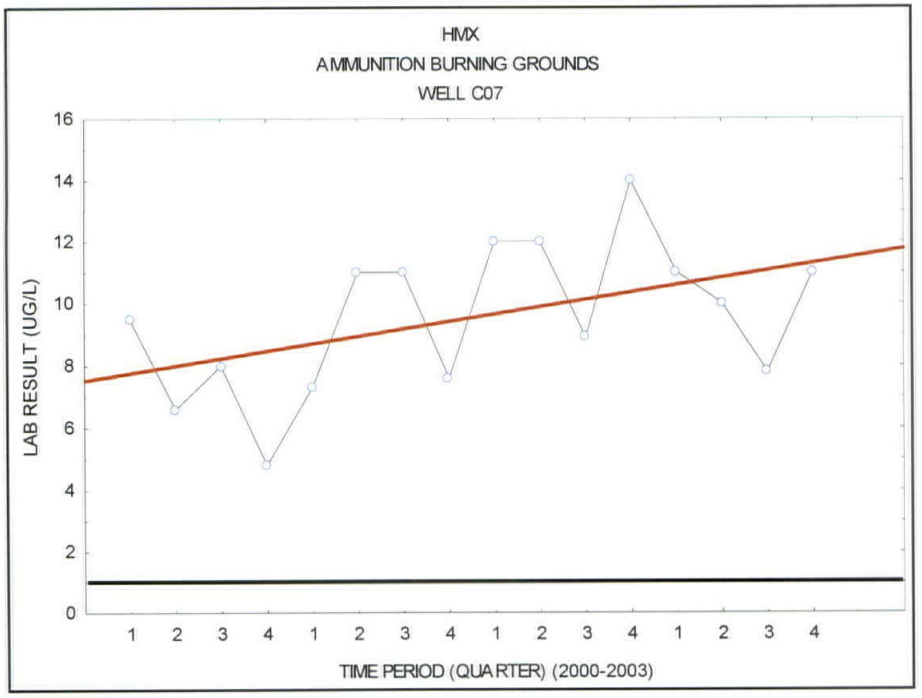


Figure 7.49.

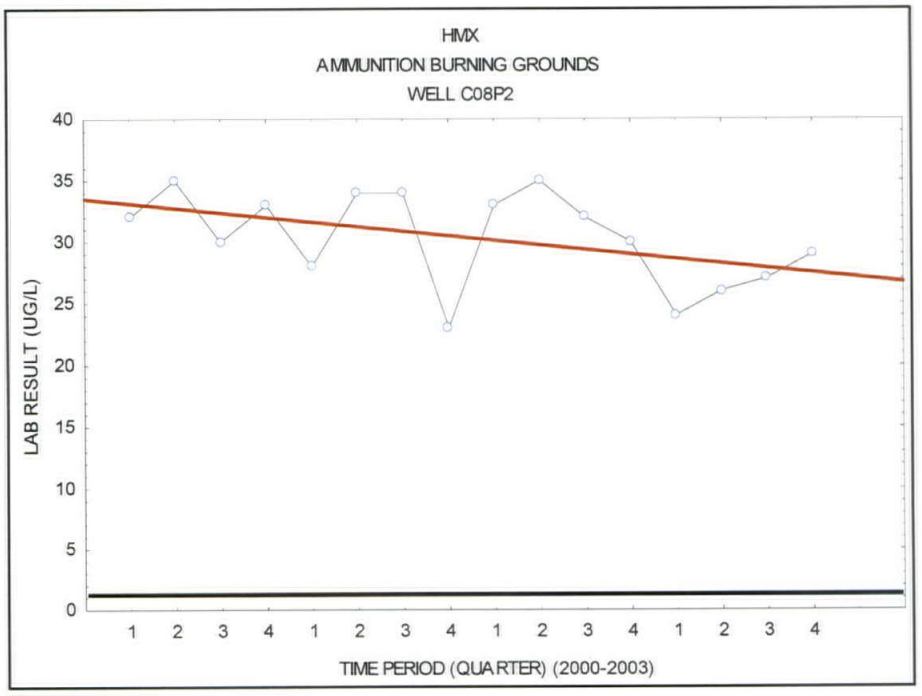


Figure 7.50.

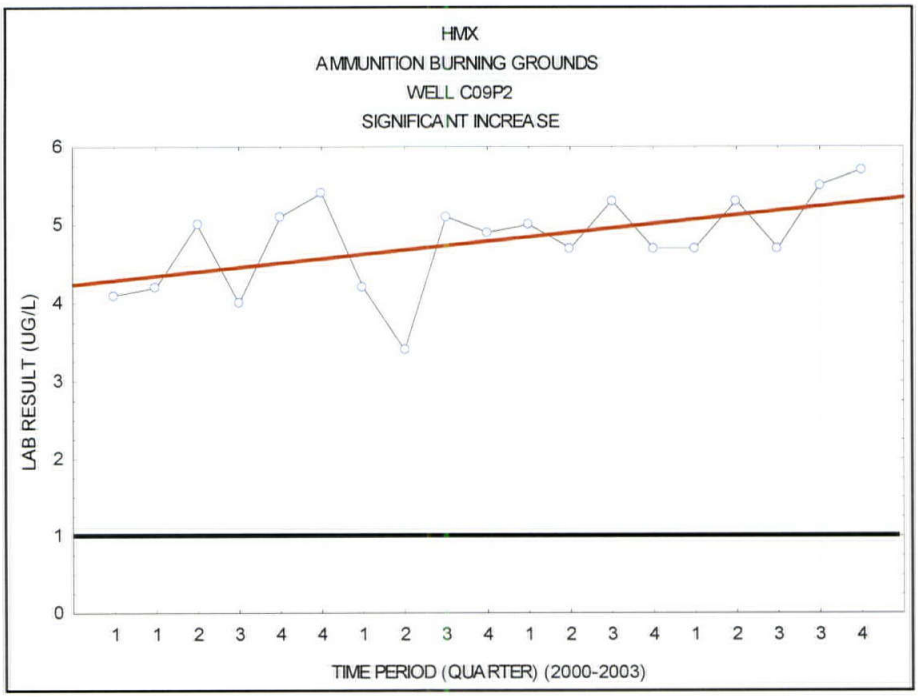


Figure 7.51.

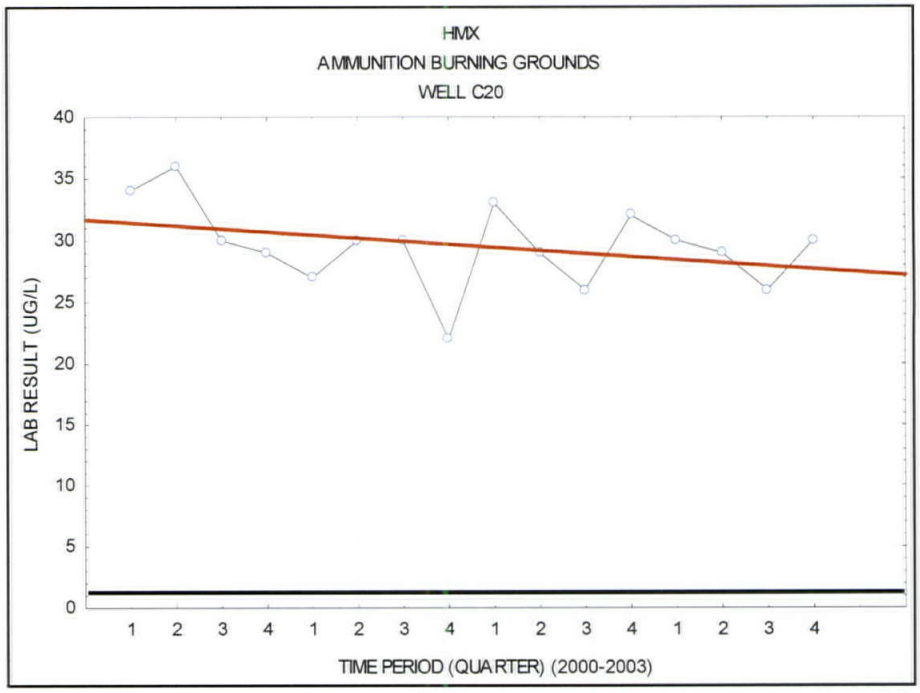


Figure 7.52.

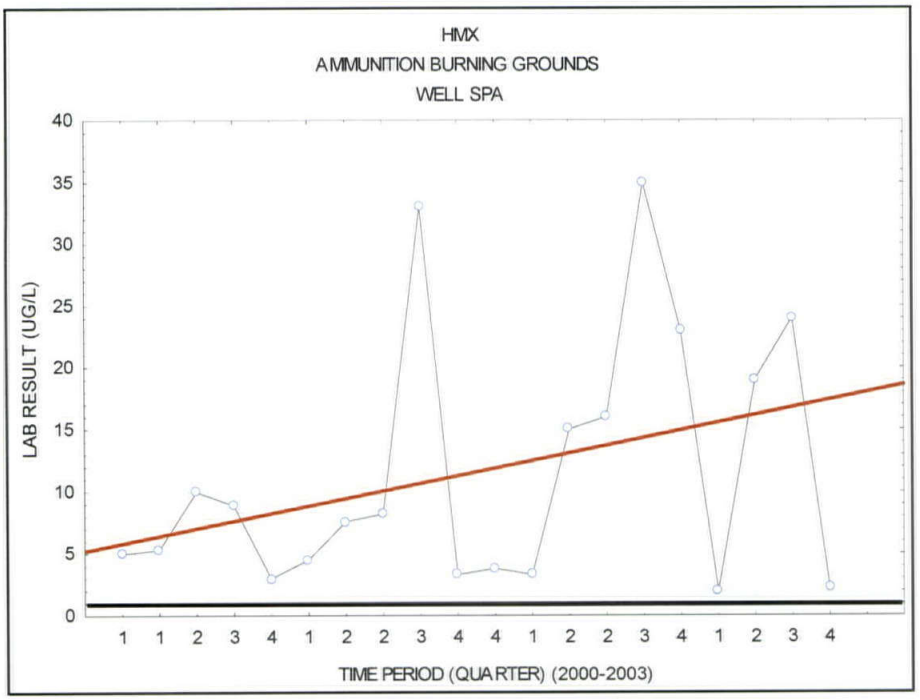


Figure 7.53.

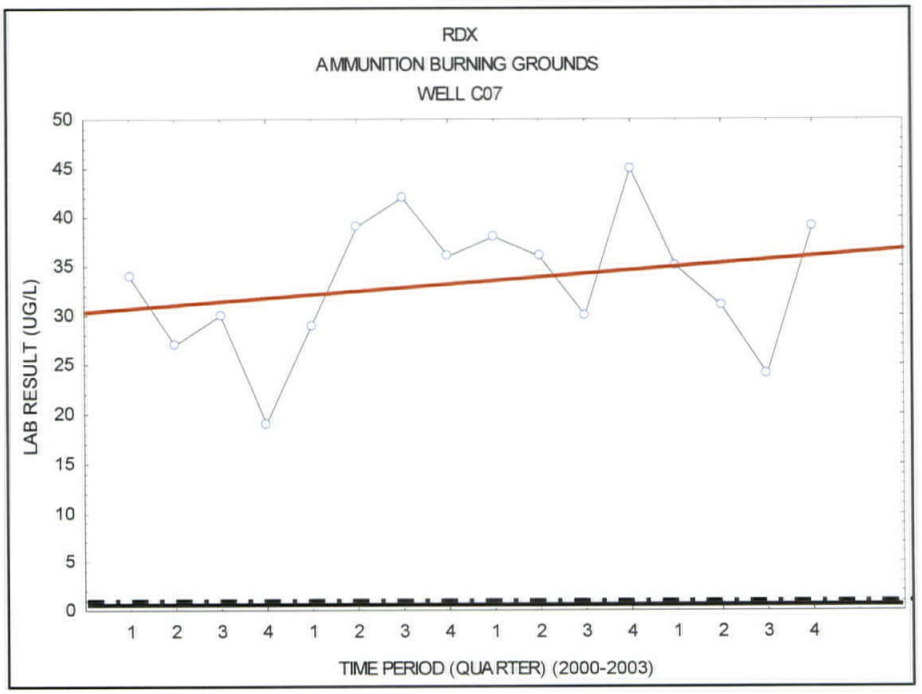


Figure 7.54.

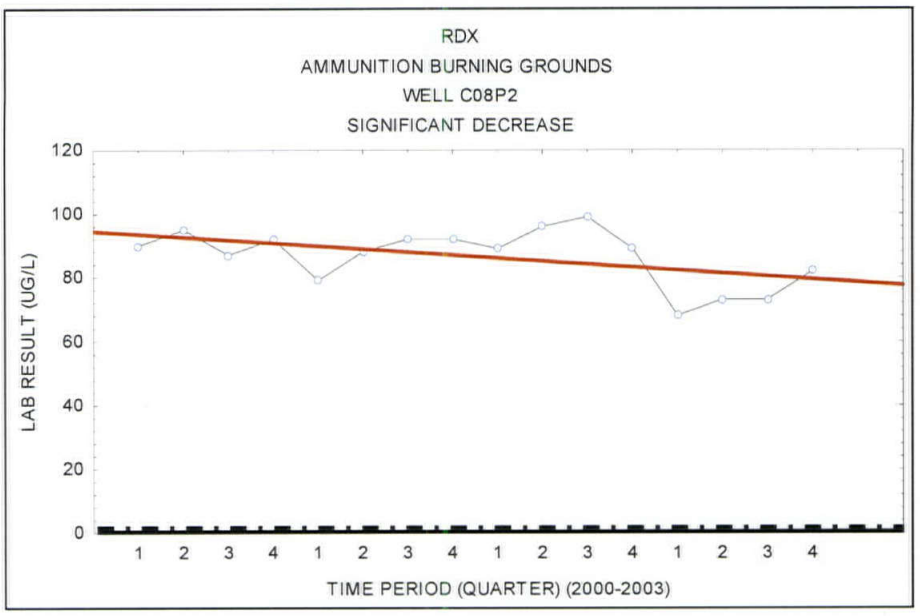


Figure 7.55.

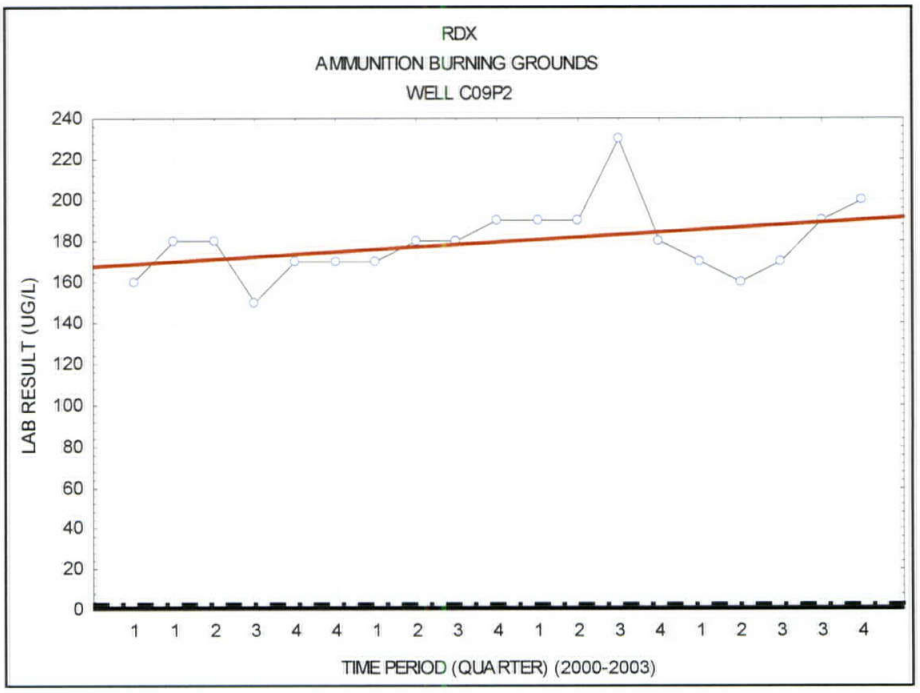


Figure 7.56.

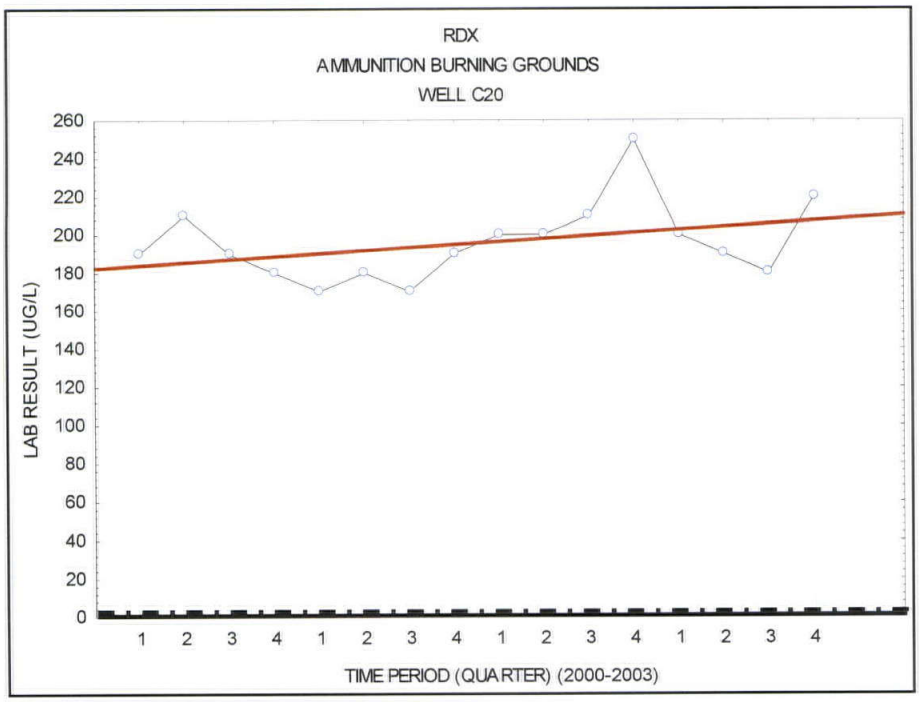


Figure 7.57.

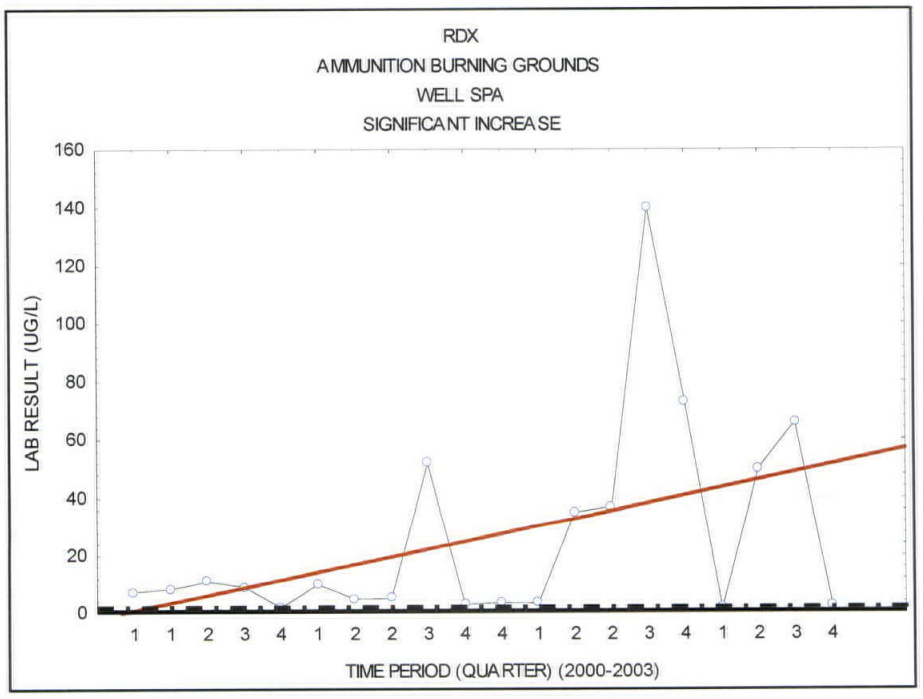


Figure 7.58.

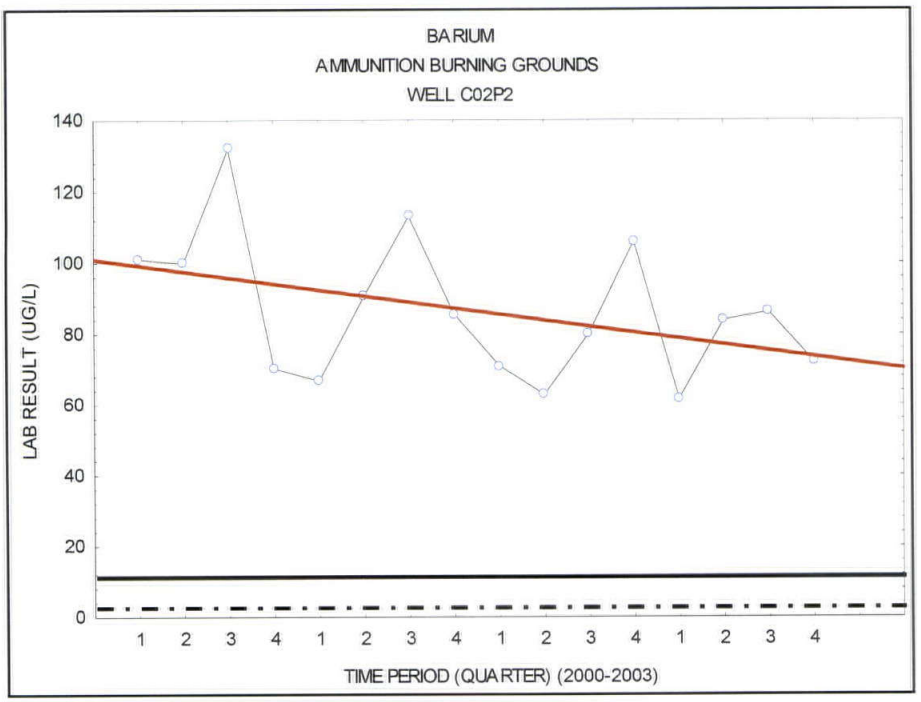


Figure 7.59.

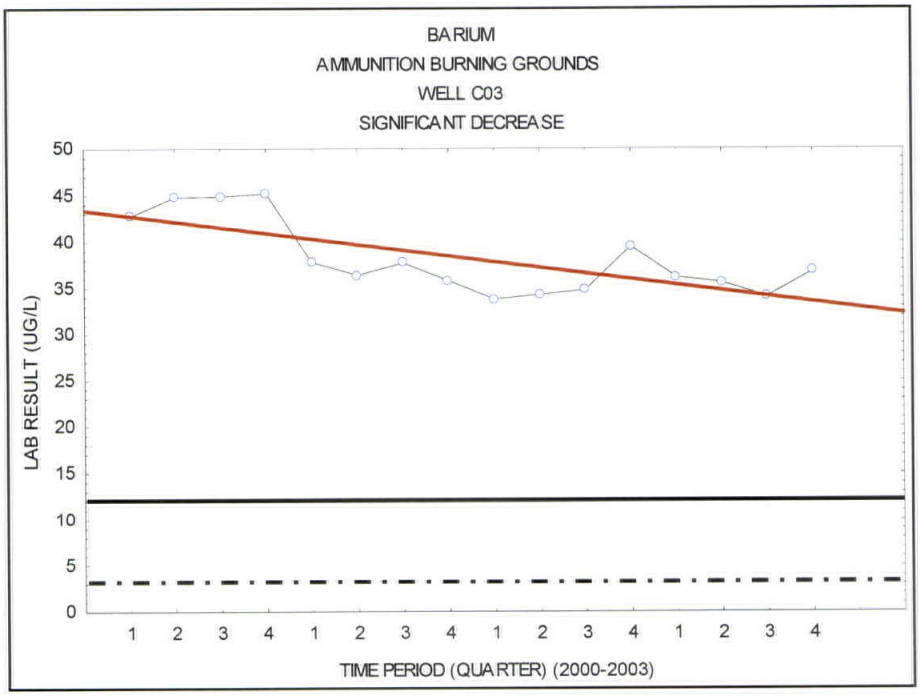


Figure 7.60.

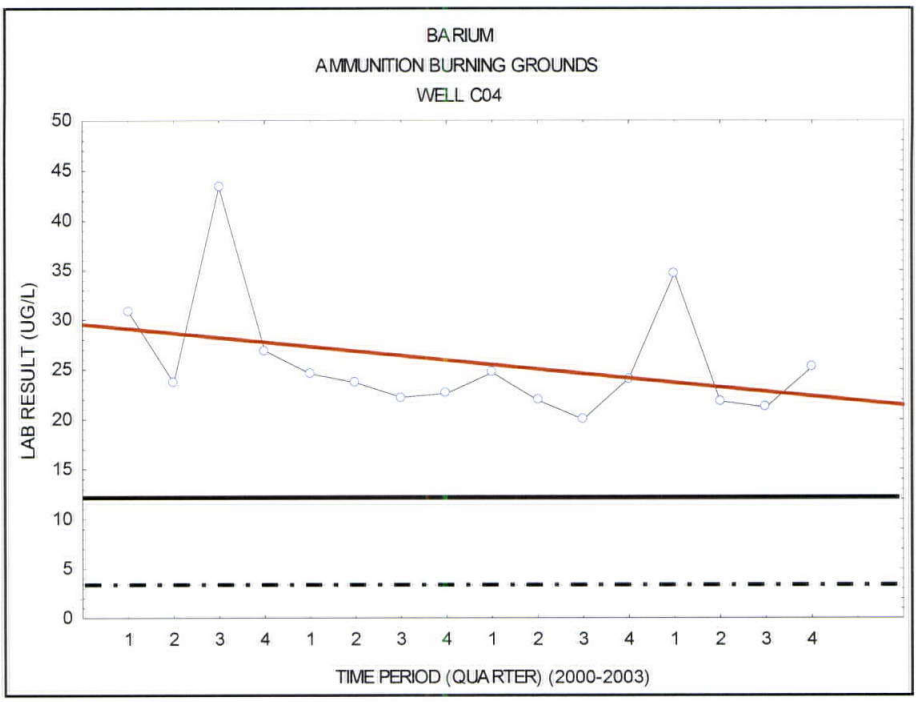


Figure 7.61.

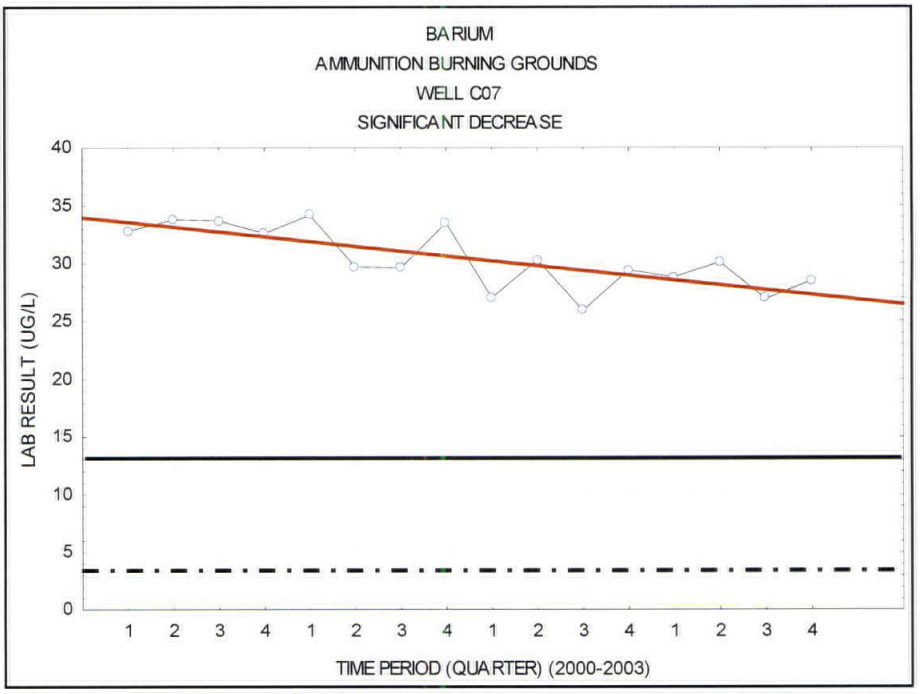


Figure 7.62.

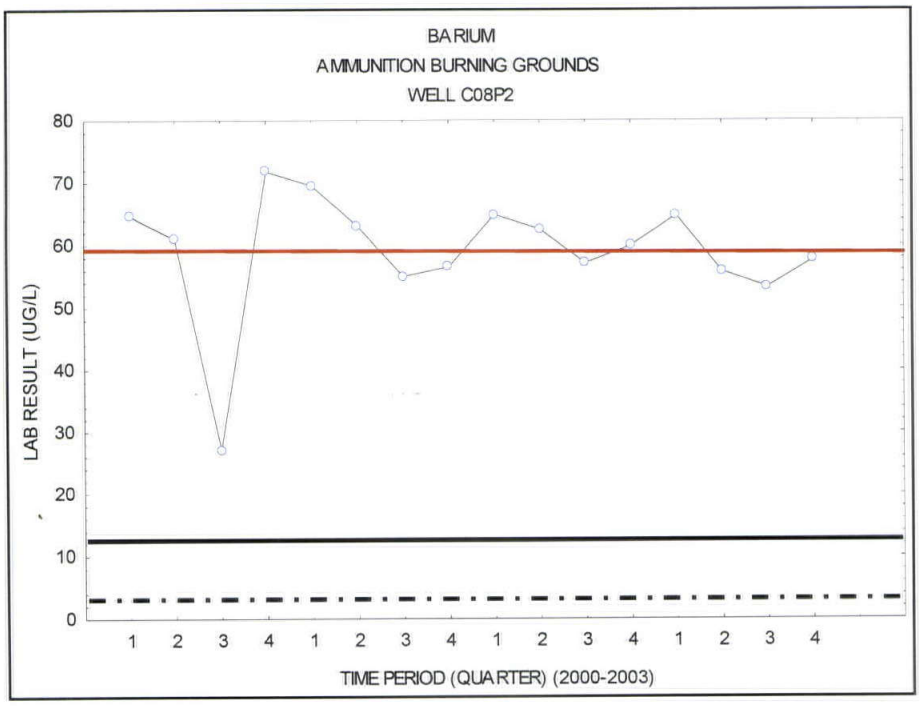


Figure 7.63.

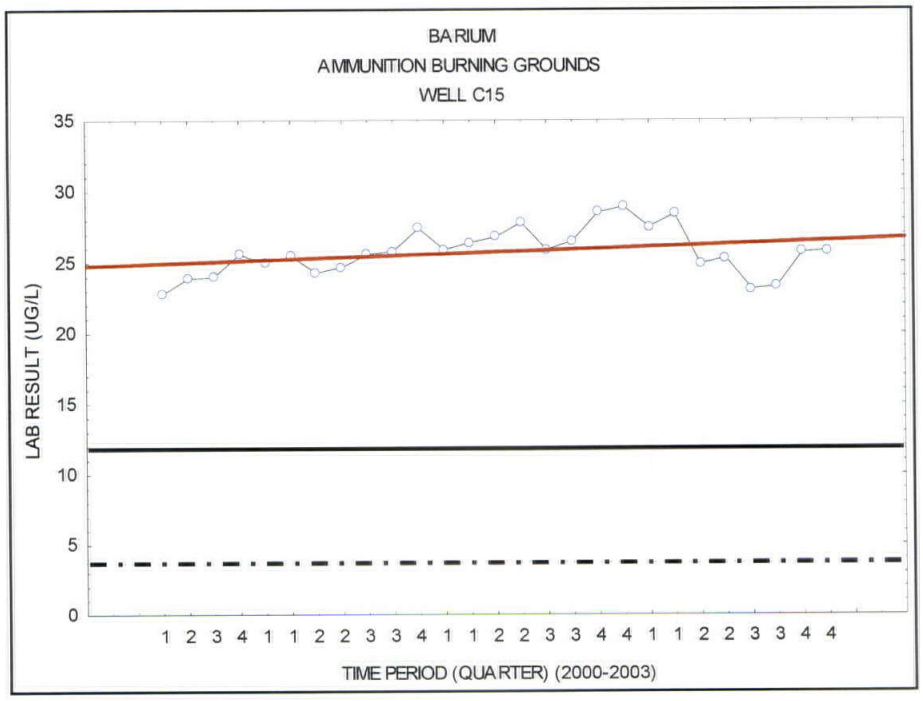


Figure 7.64.

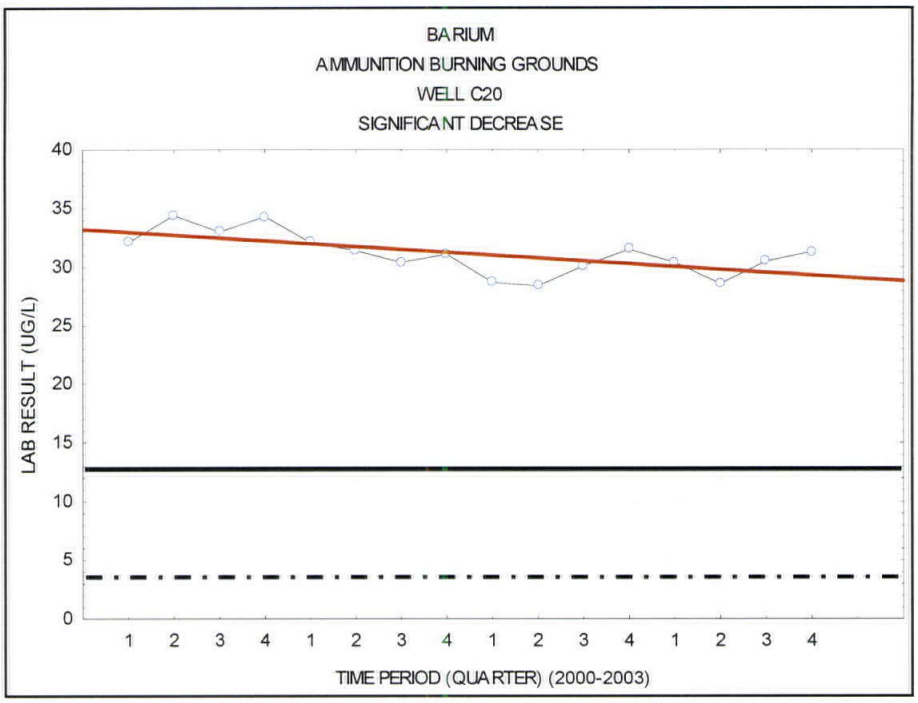


Figure 7.65.

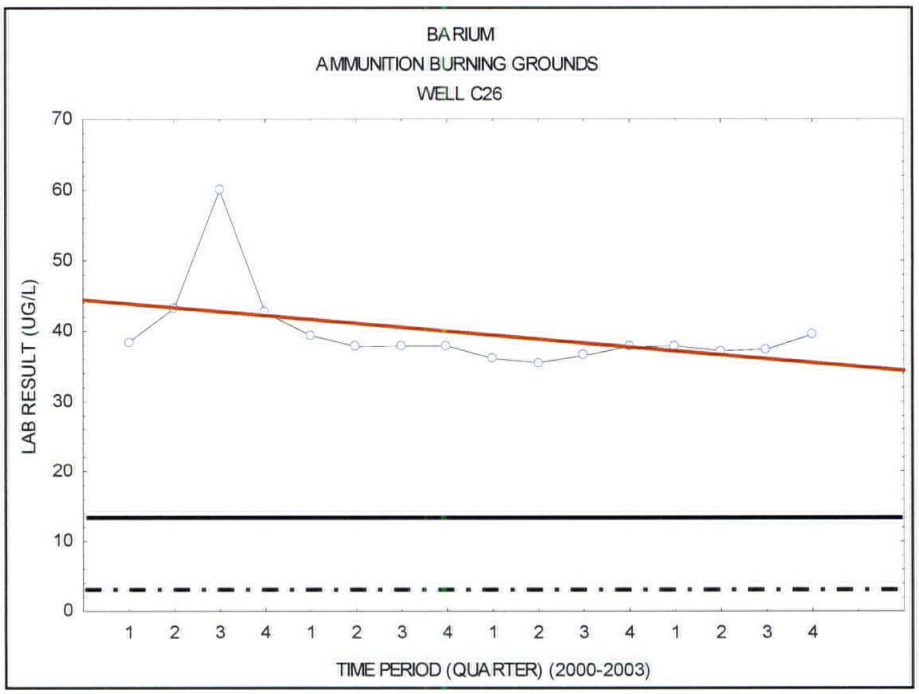


Figure 7.66.

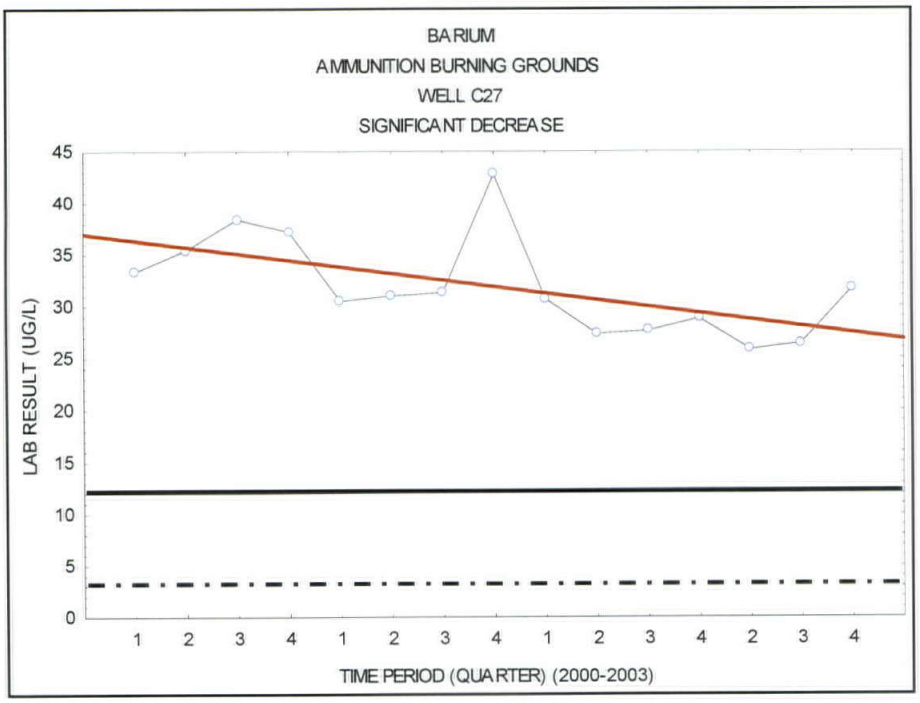


Figure 7.67.

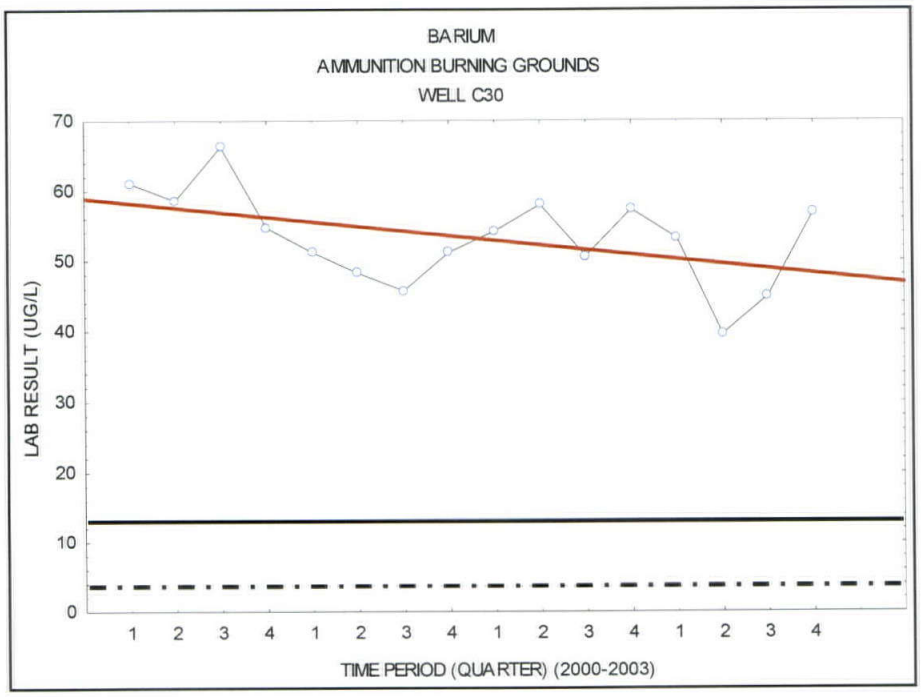


Figure 7.68.

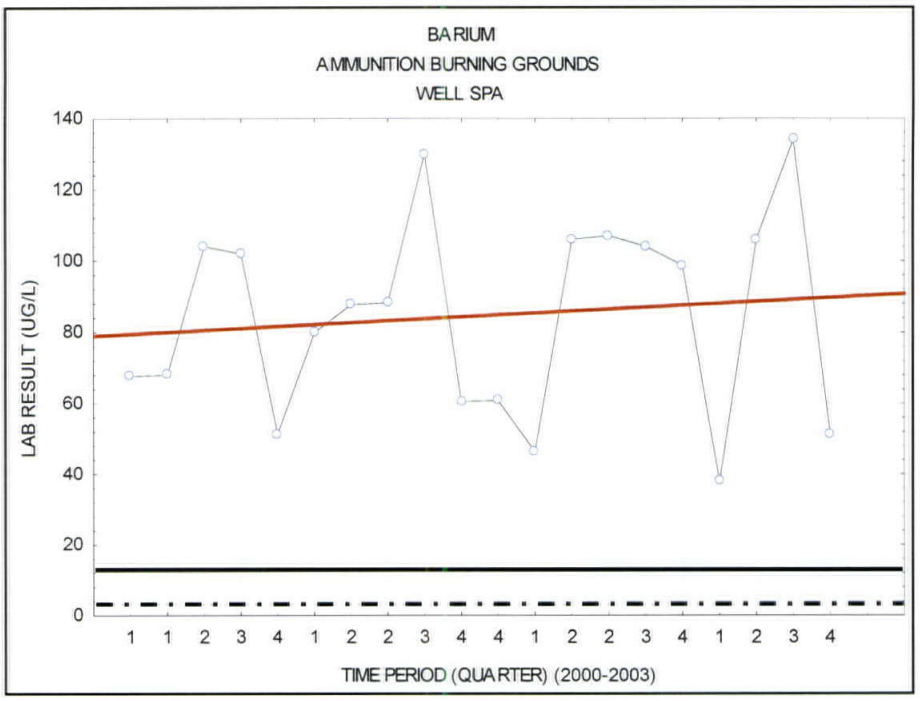


Figure 7.69.

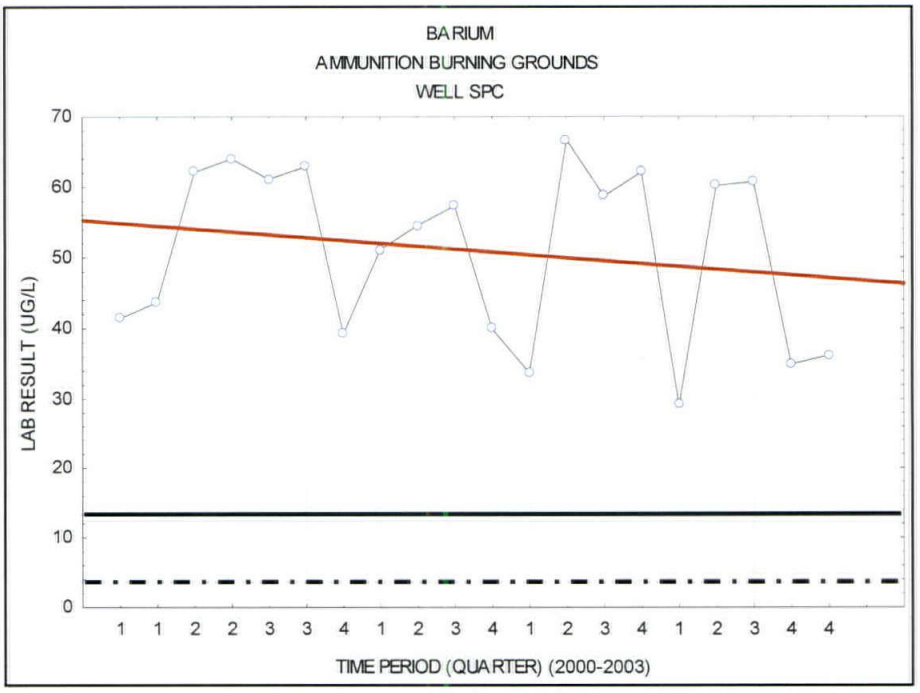


Figure 7.70.

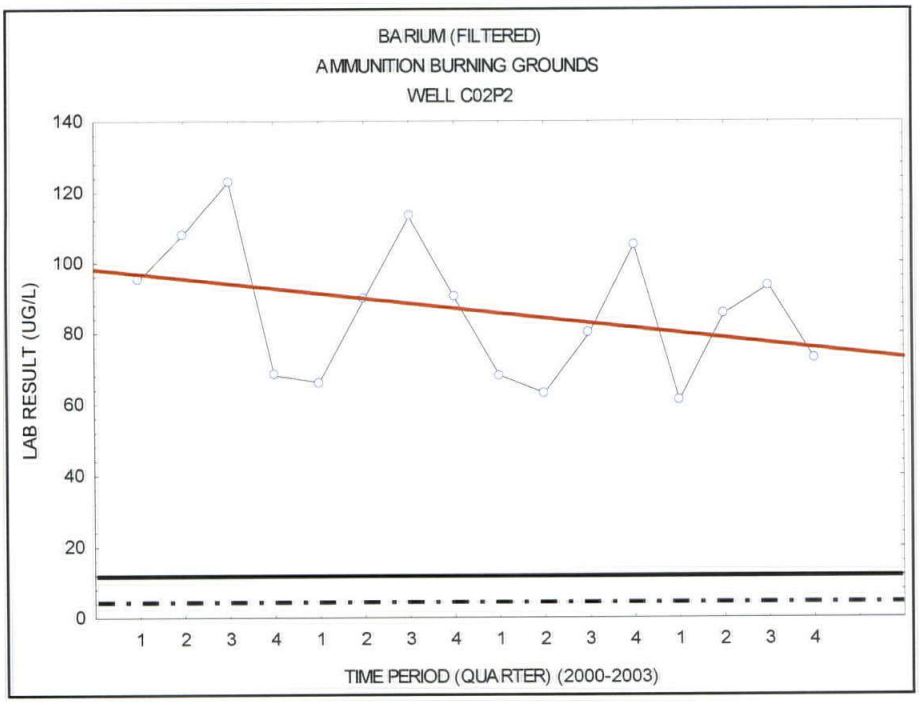


Figure 7.71.

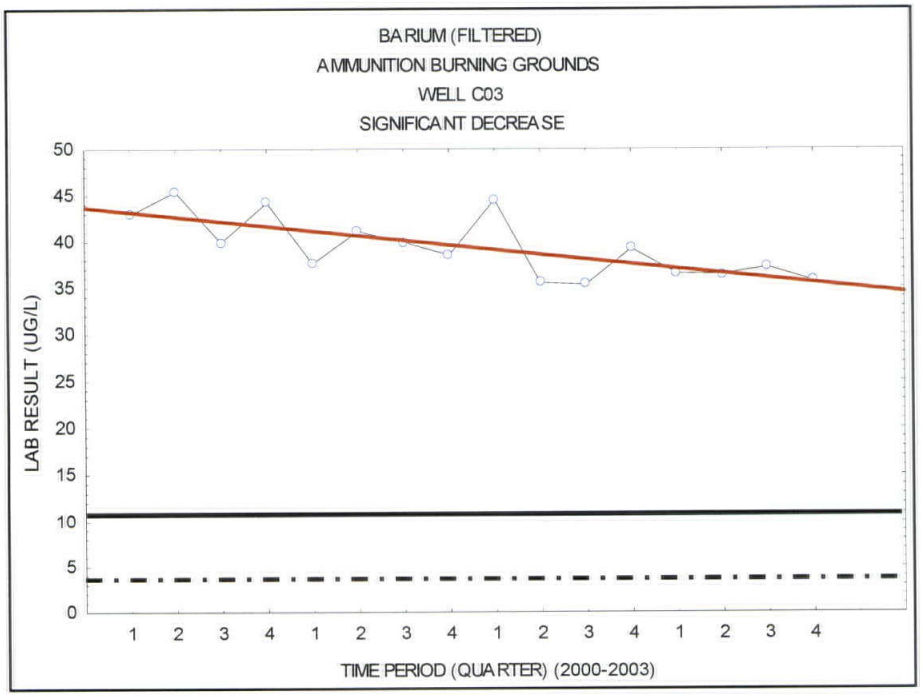


Figure 7.72.

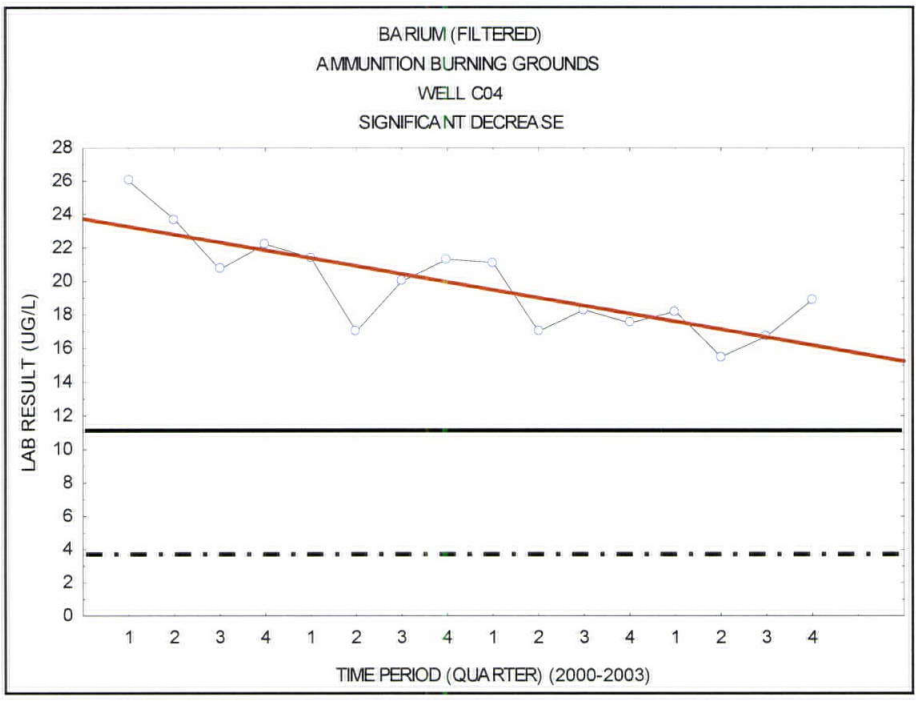


Figure 7.73.

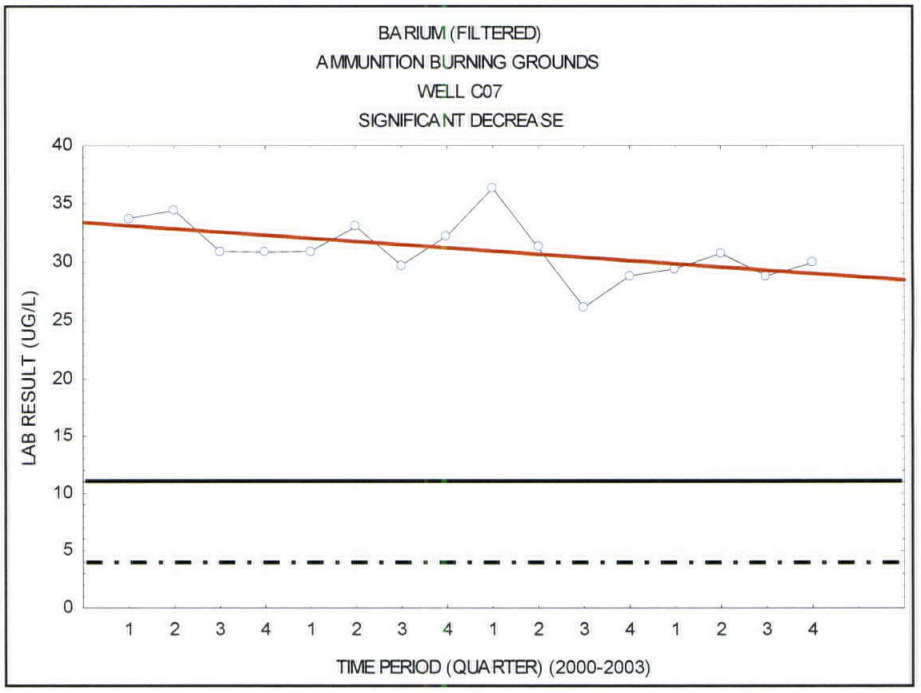


Figure 7.74.

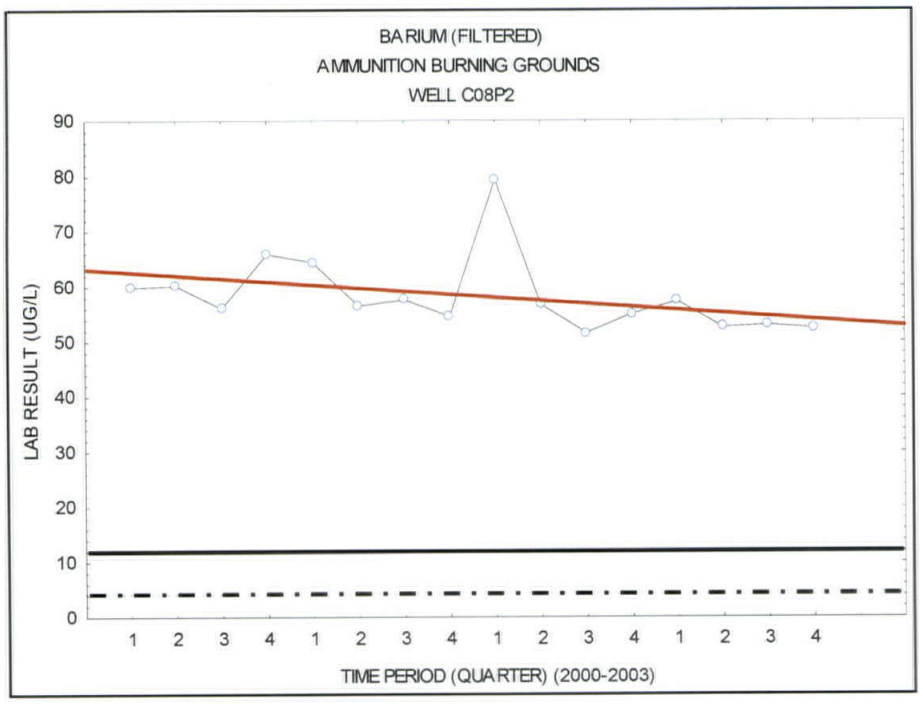


Figure 7.75.

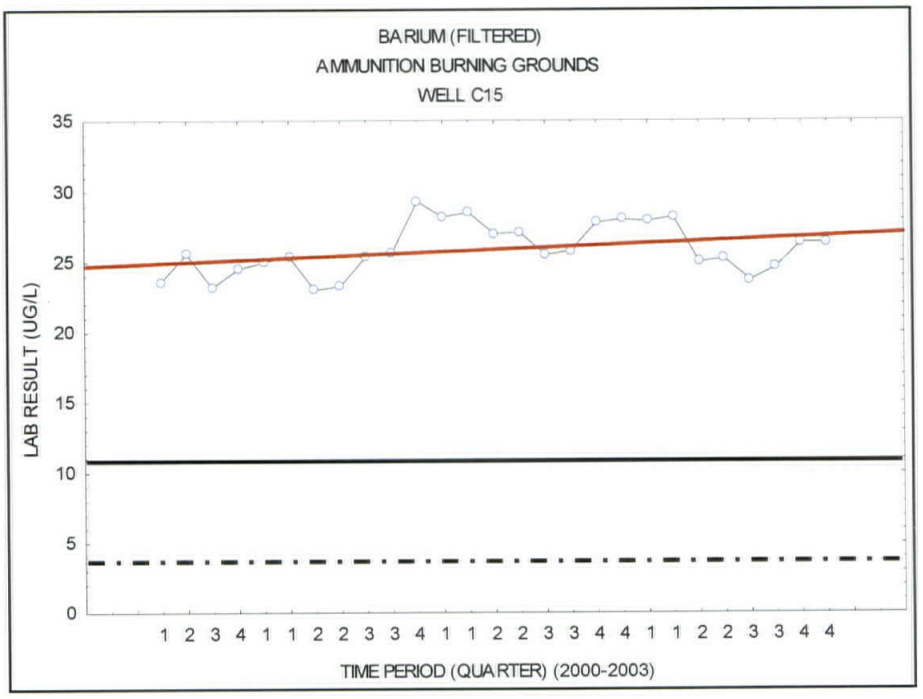


Figure 7.76.

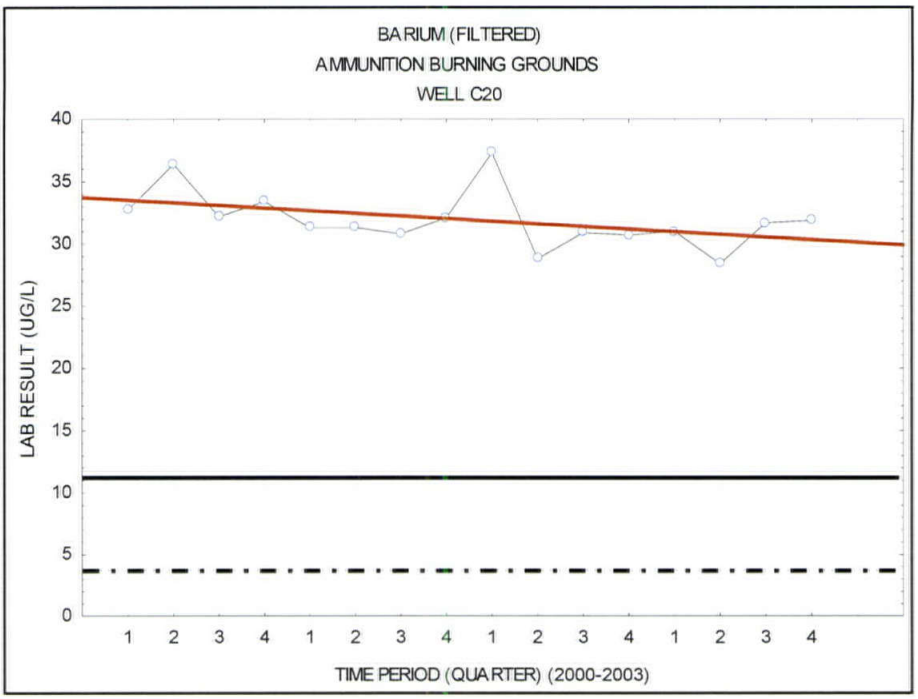


Figure 7.77.

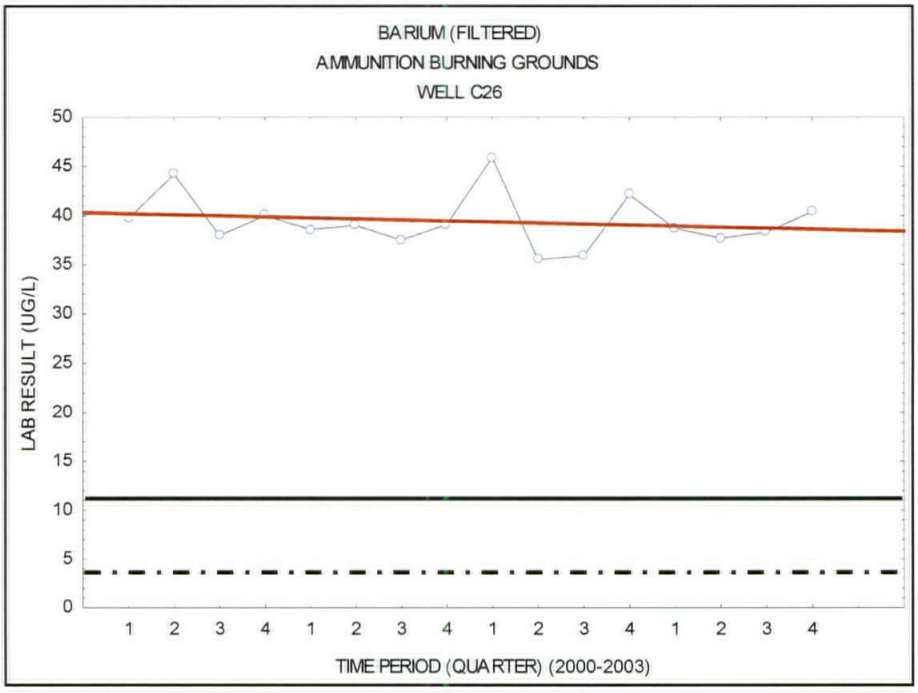


Figure 7.78.

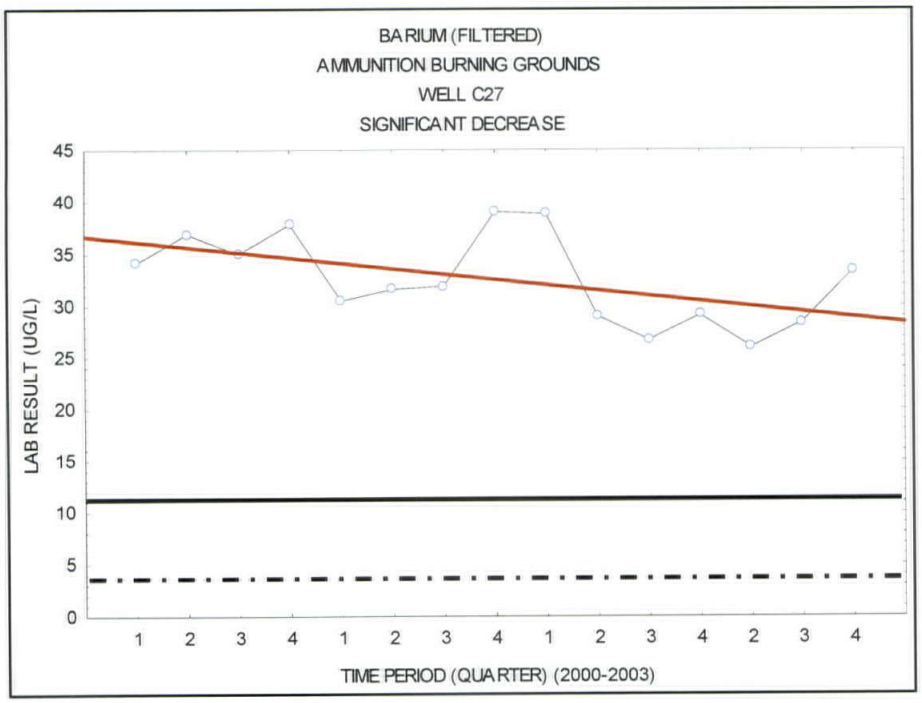


Figure 7.79.

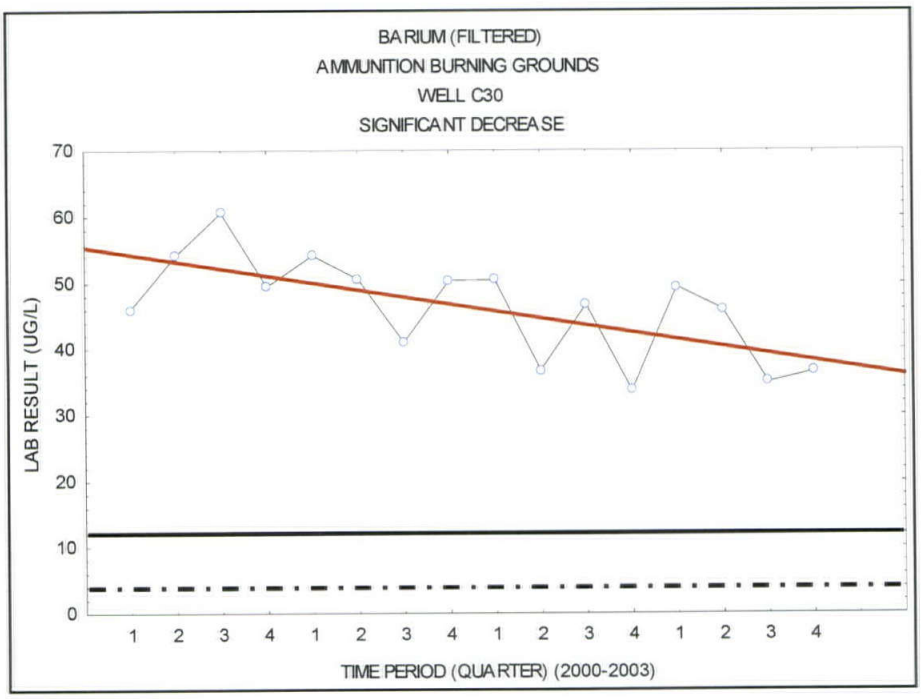


Figure 7.80.

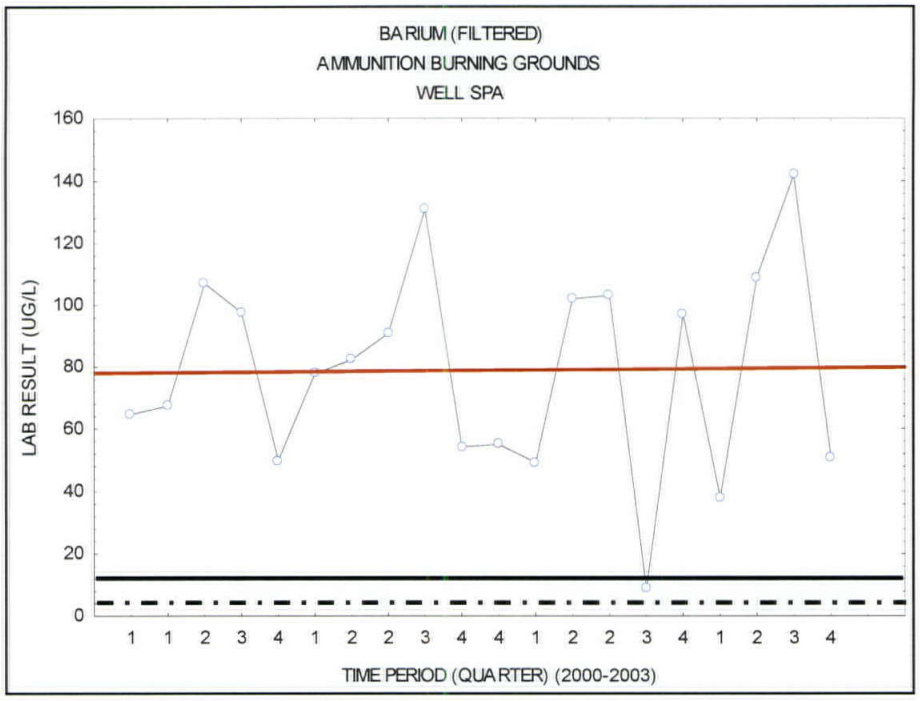


Figure 7.81.

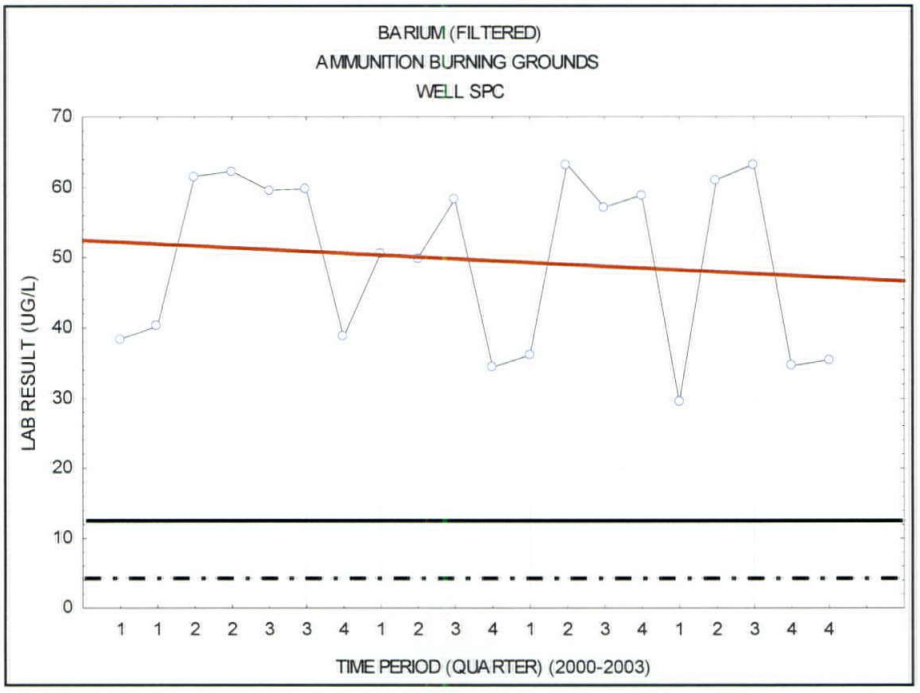


Figure 7.82.

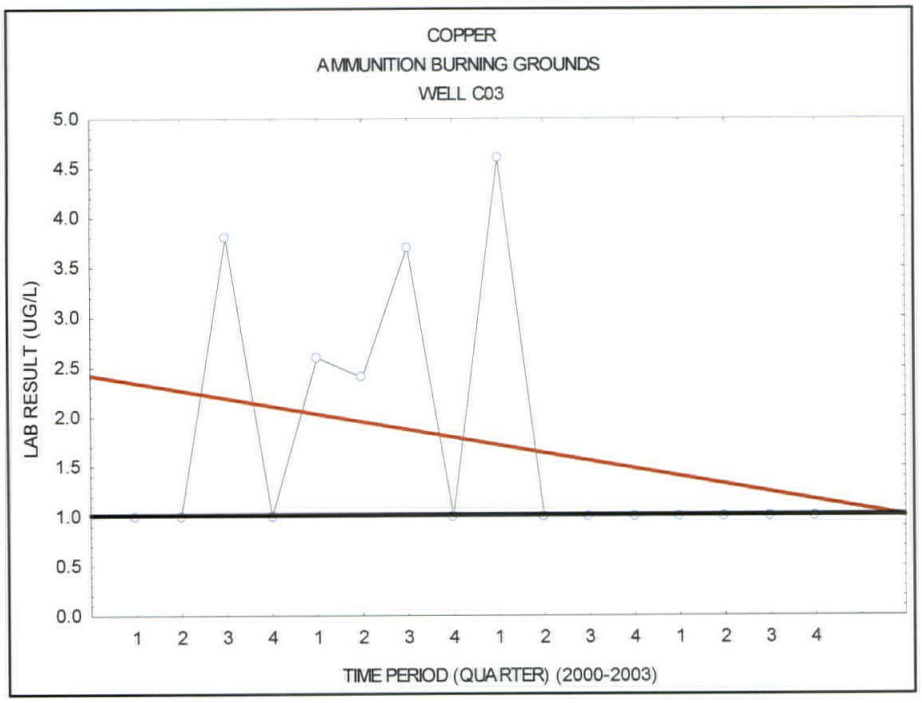


Figure 7.83.

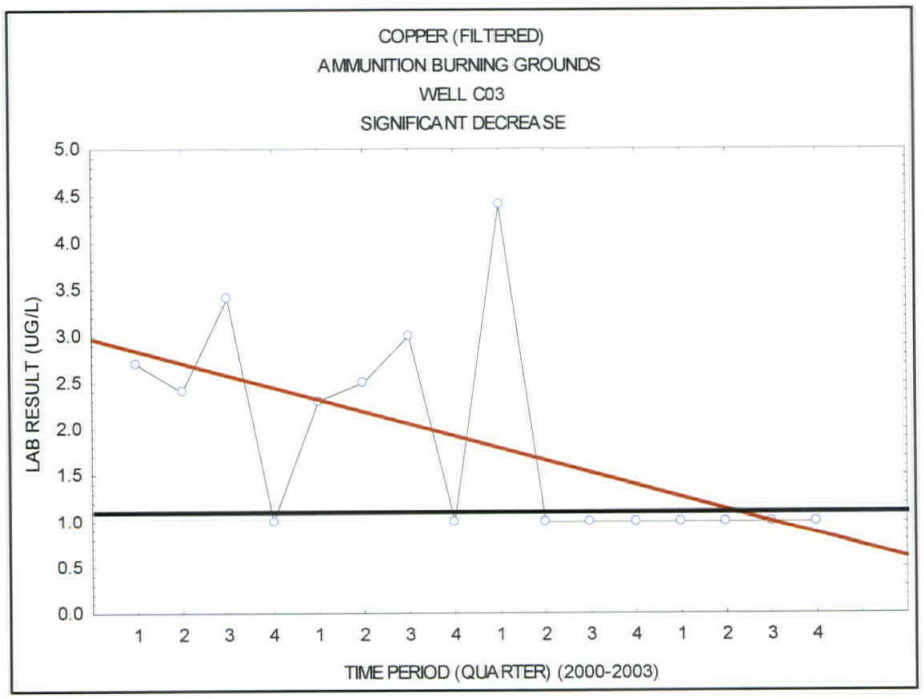


Figure 7.84.

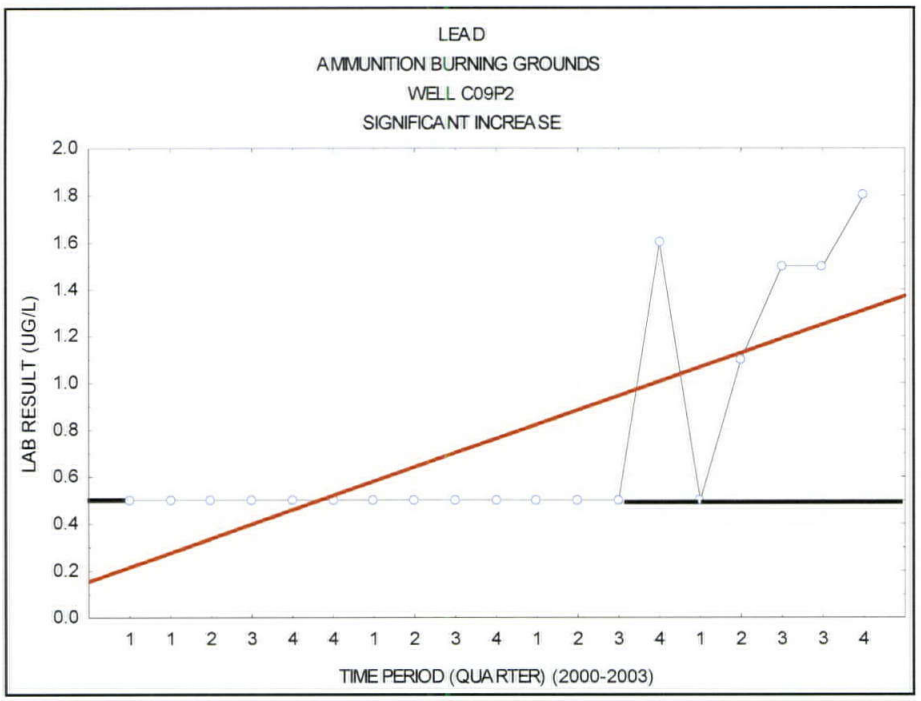


Figure 7.85.

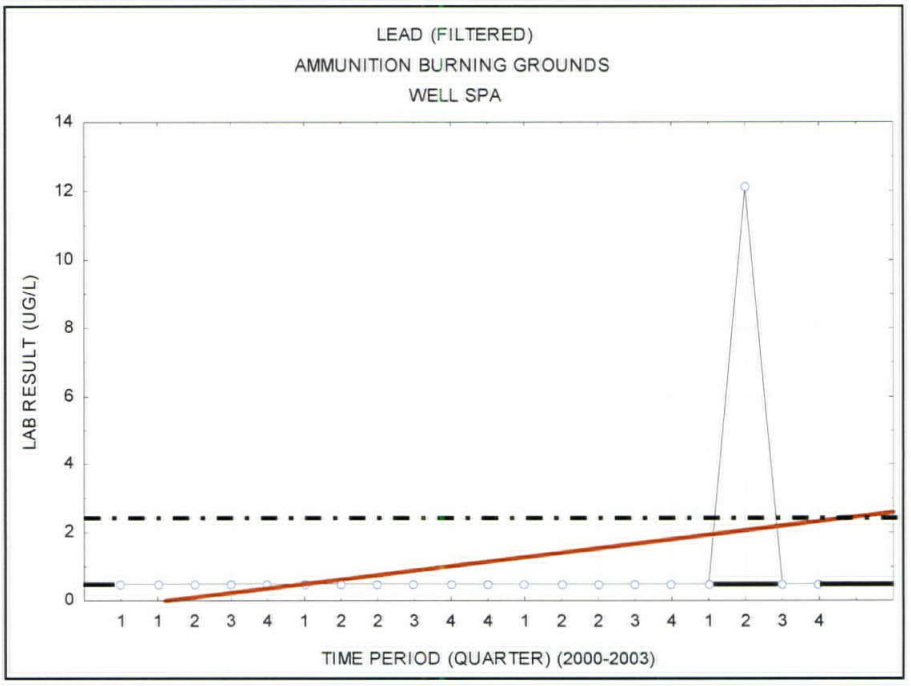


Figure 7.86.

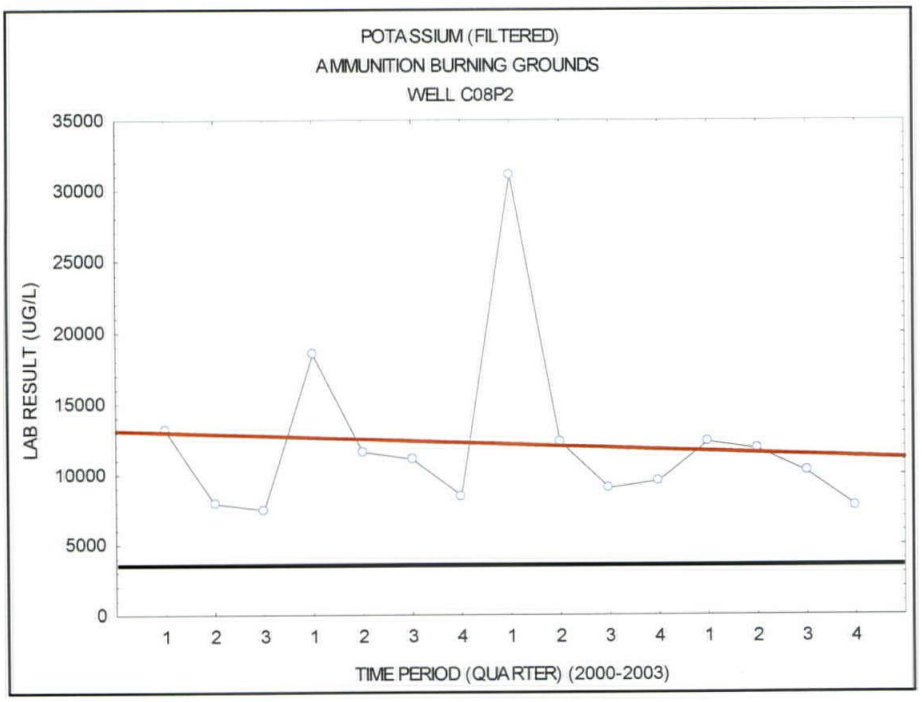


Figure 7.87.

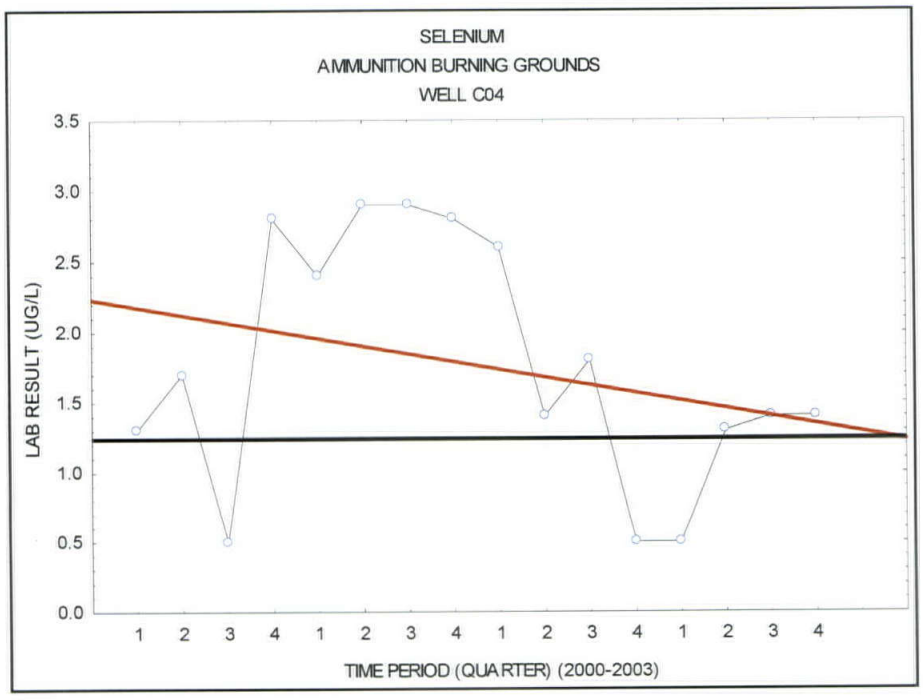


Figure 7.88.

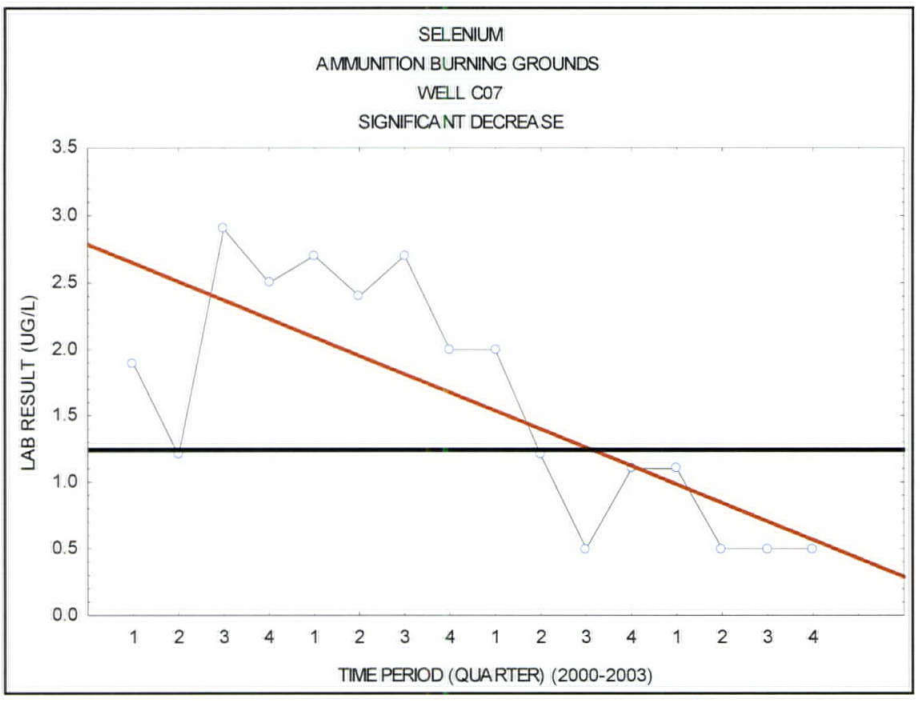


Figure 7.89.

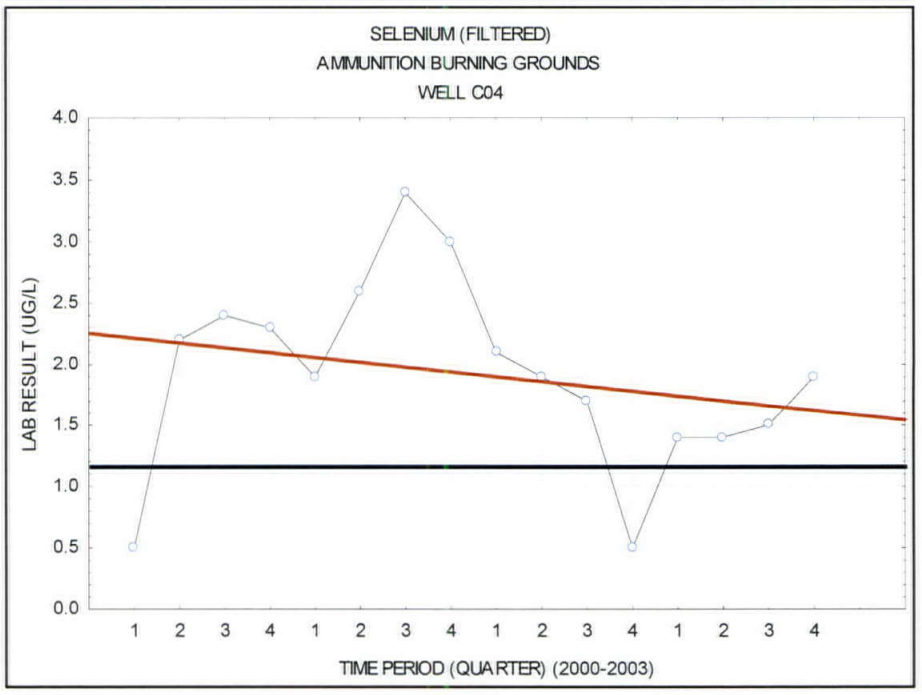


Figure 7.90.

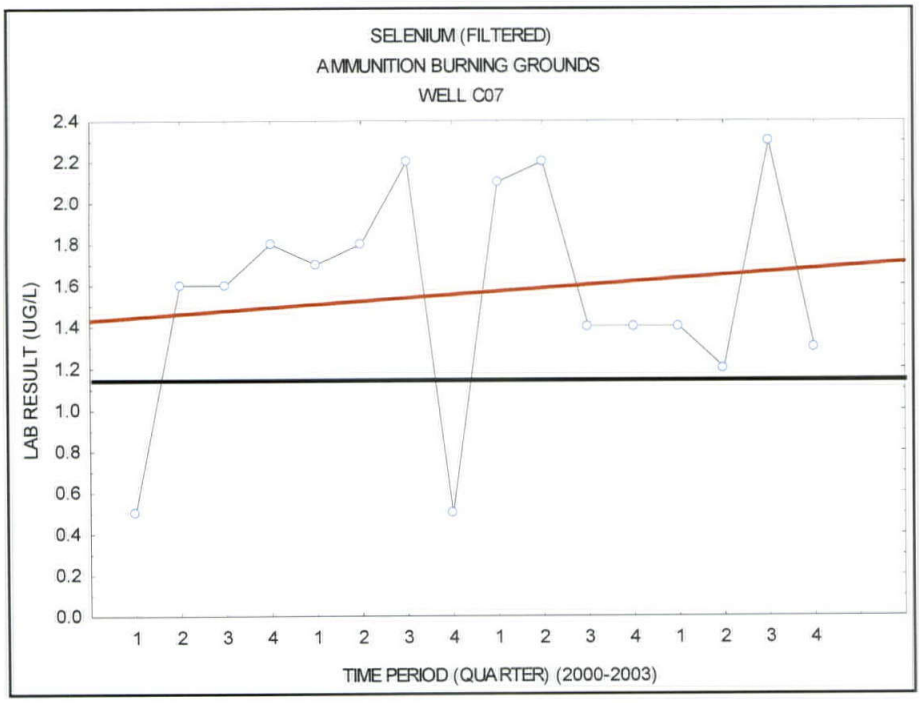


Figure 7.91.

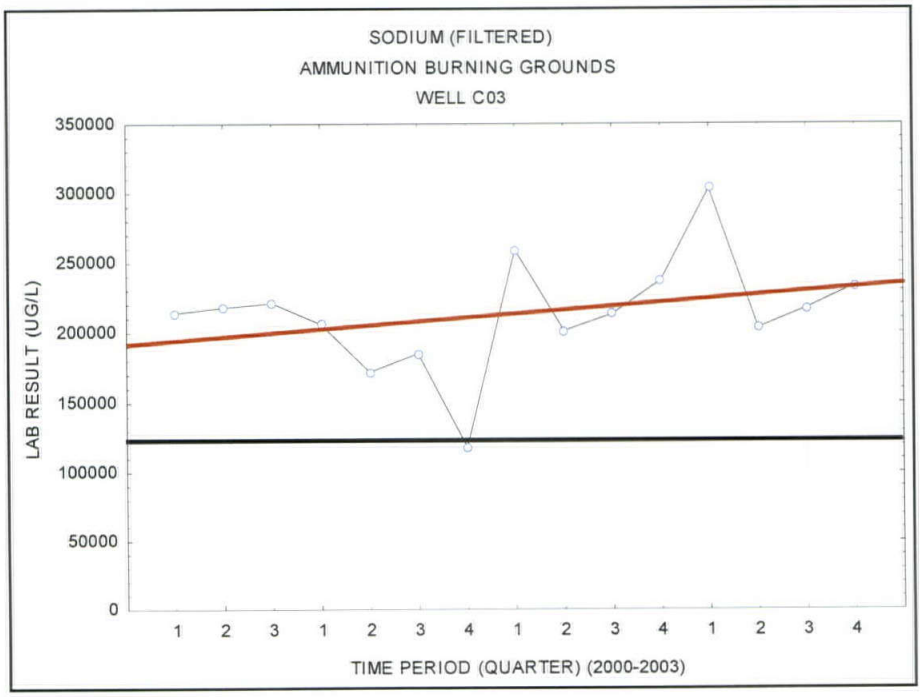


Figure 7.92.

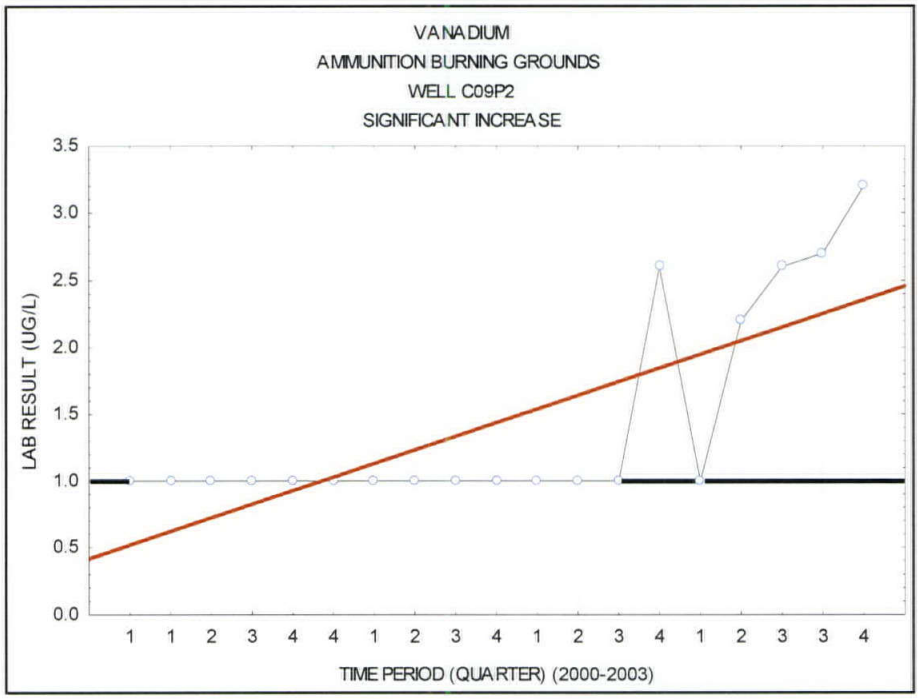


Figure 7.93.

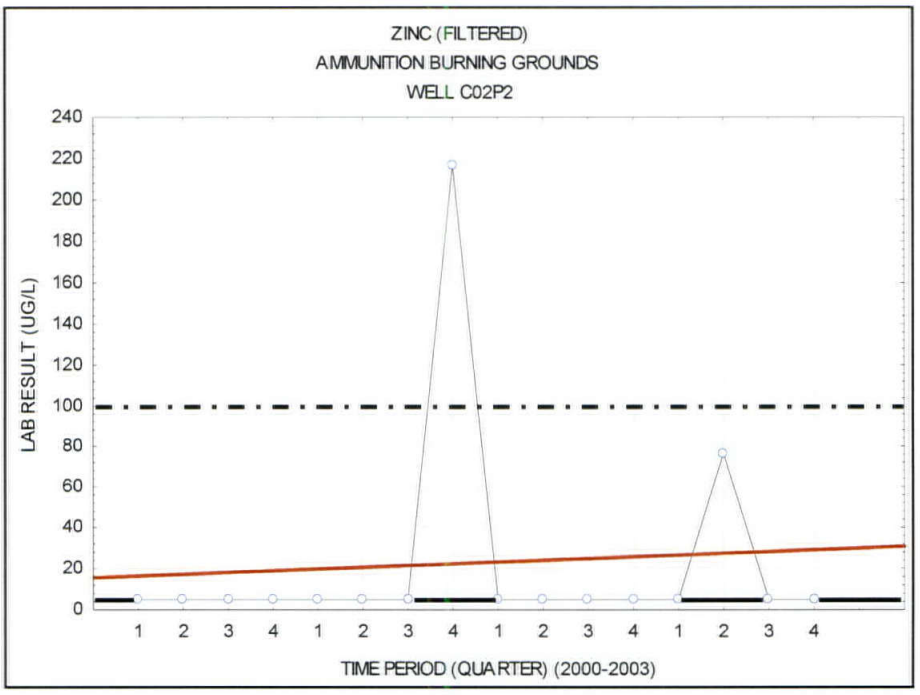


Figure 7.94.

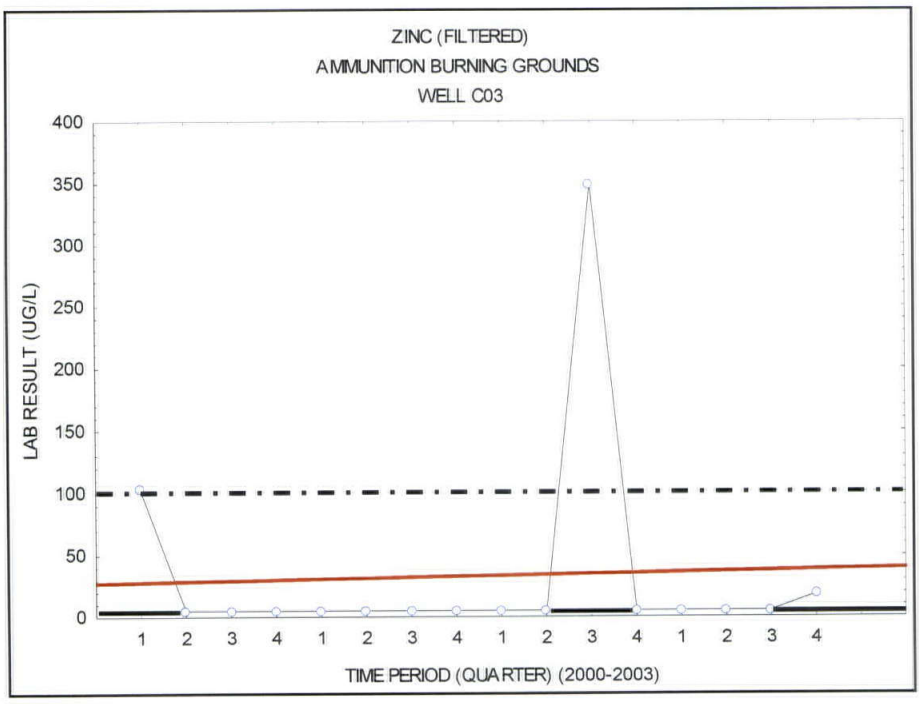


Figure 7.95.

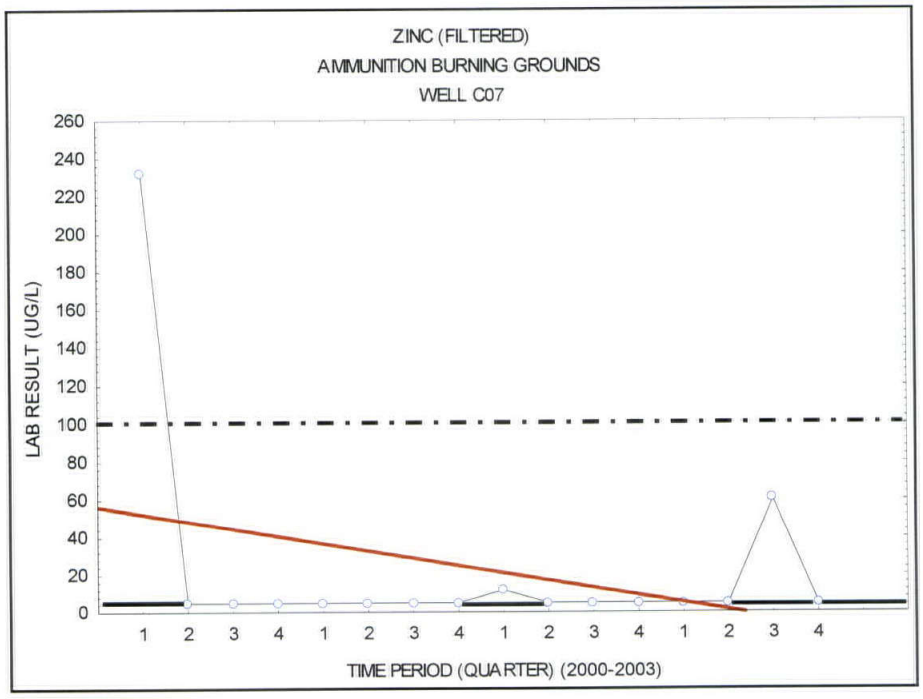


Figure 7.96.

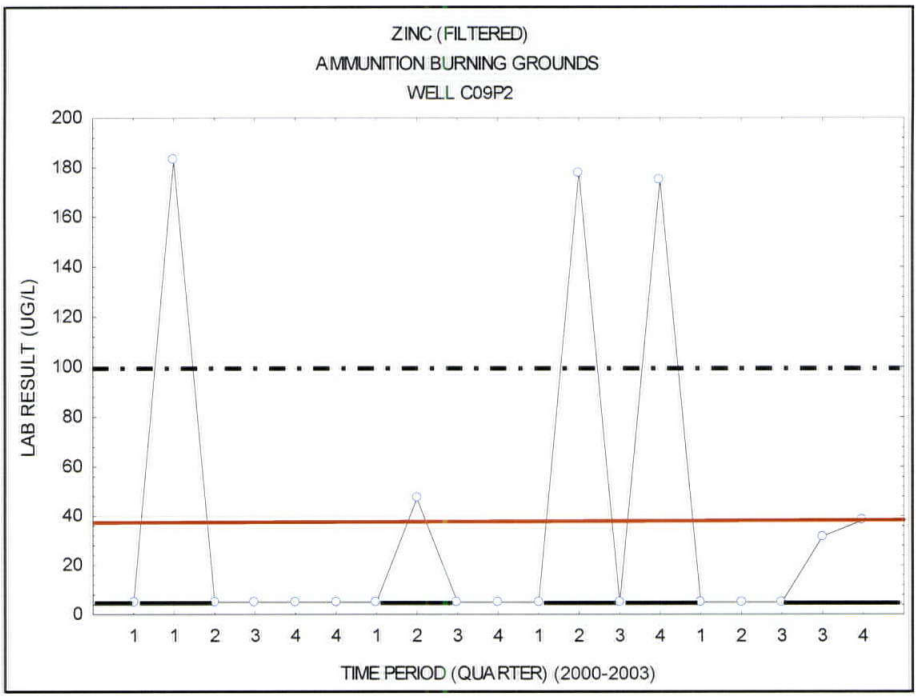


Figure 7.97.

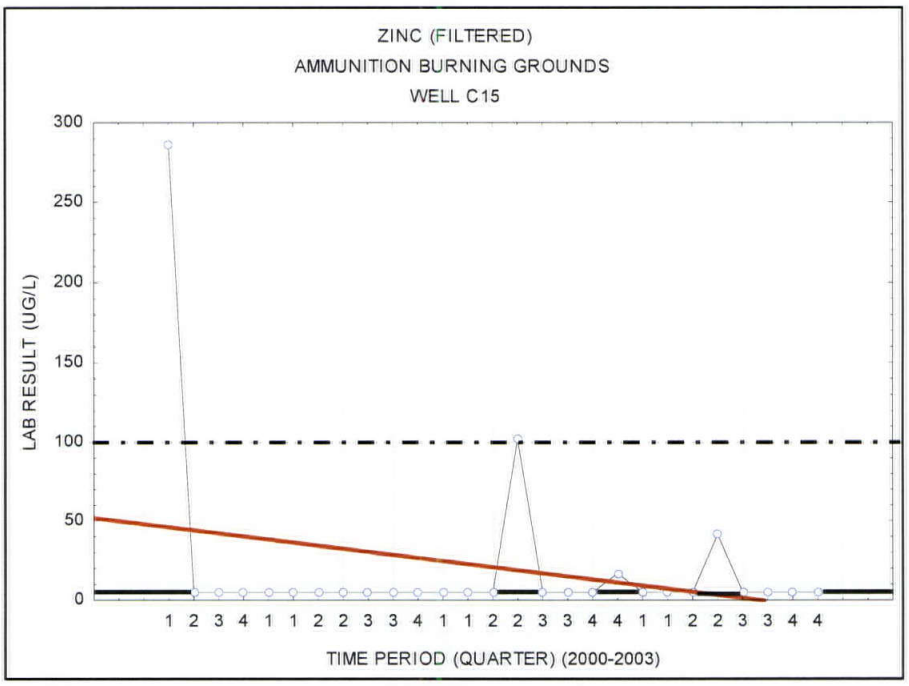


Figure 7.98.

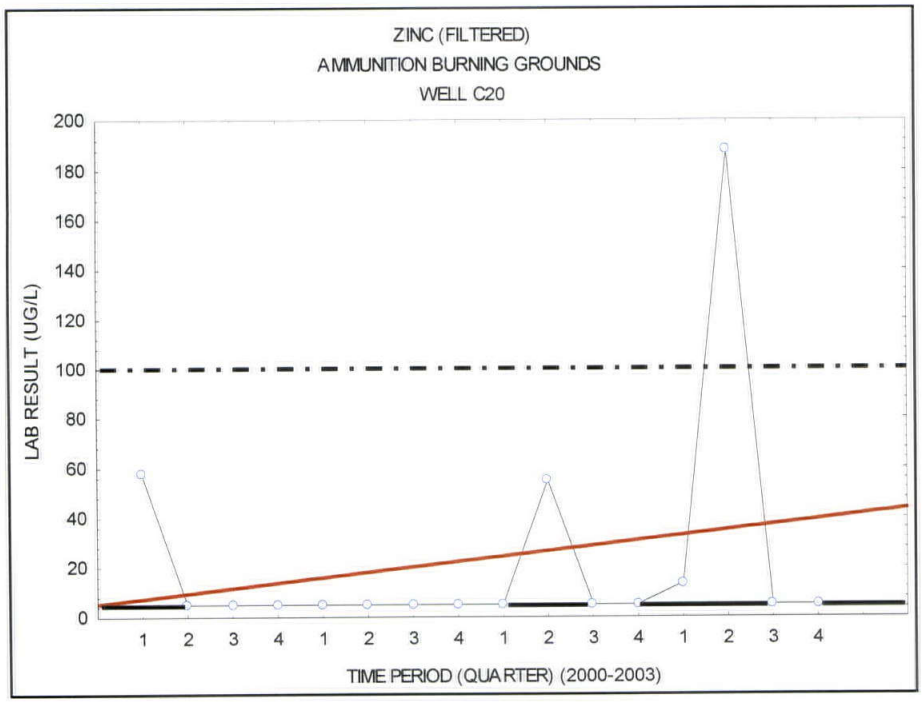


Figure 7.99.

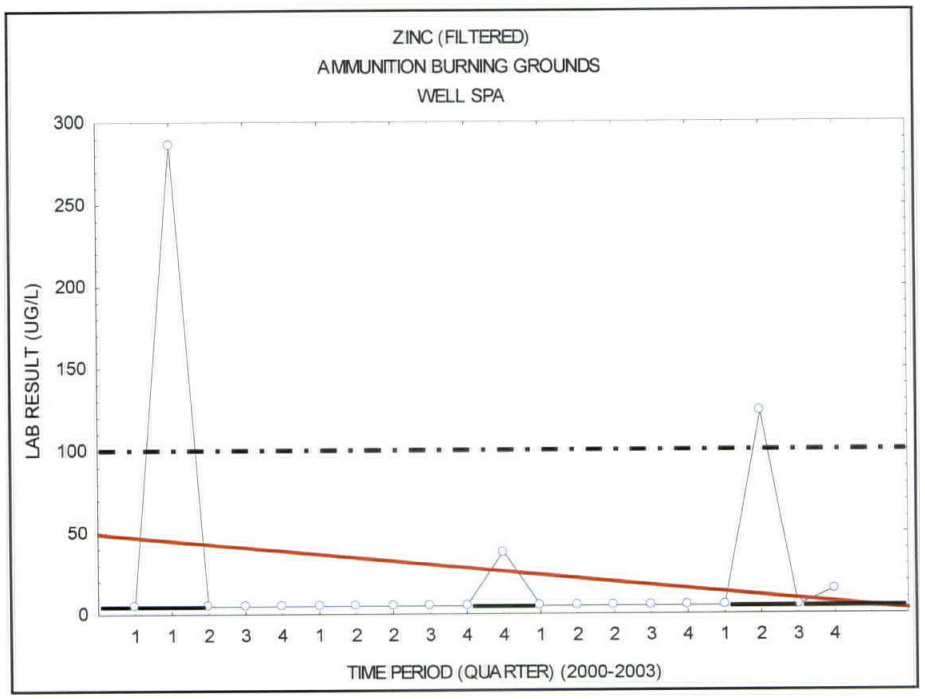


Figure 7.100.

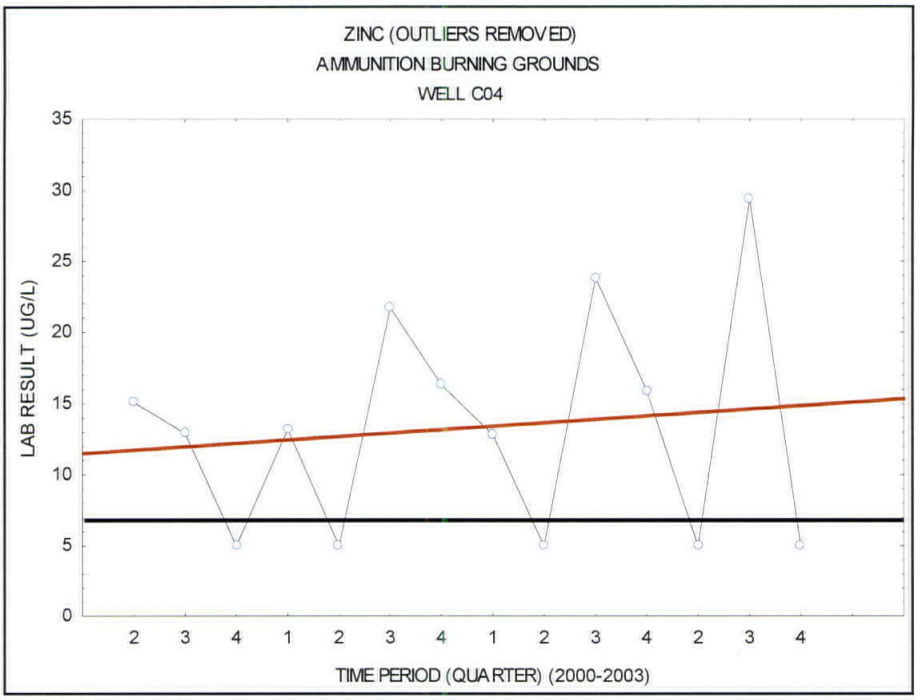


Figure 7.101.

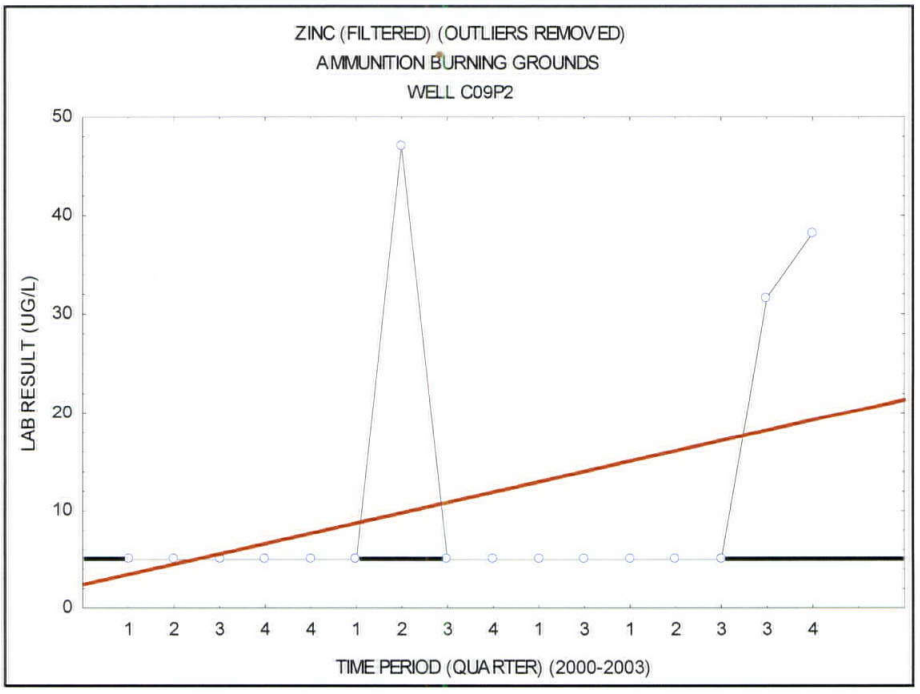


Figure 7.102.

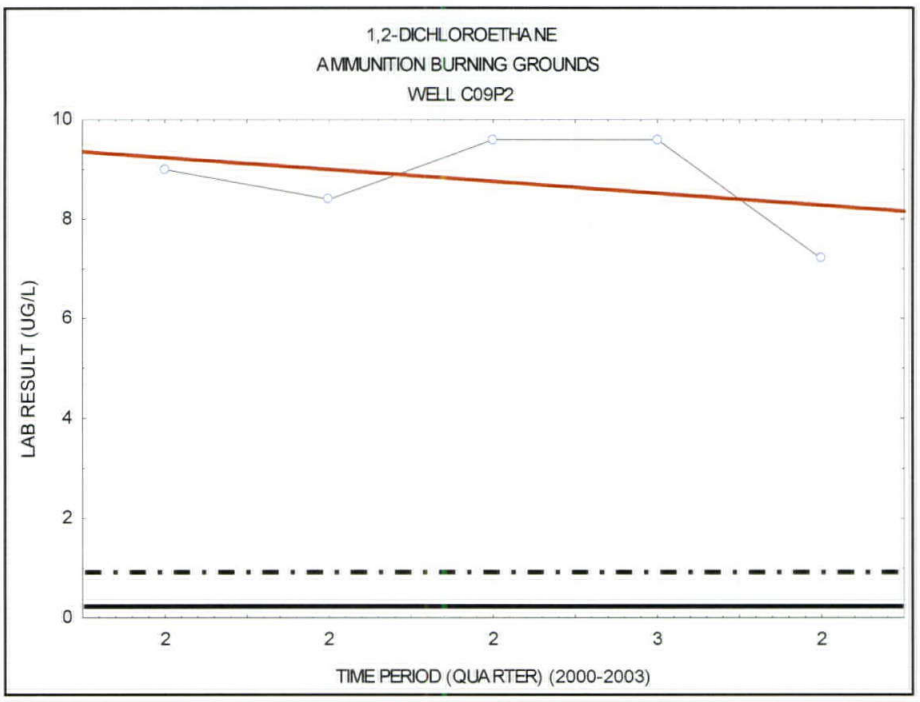


Figure 7.103.

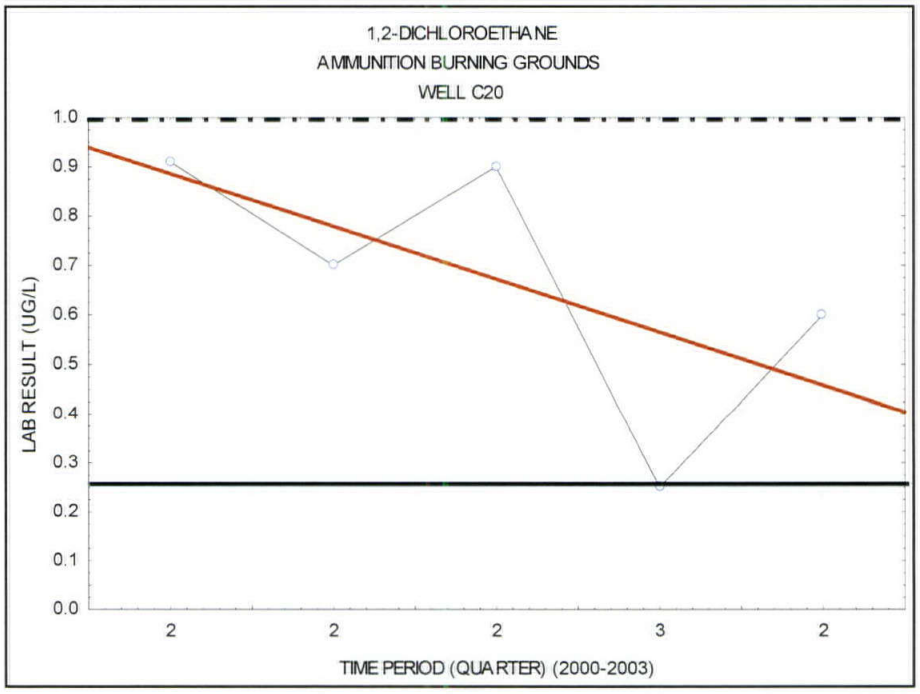


Figure 7.104.

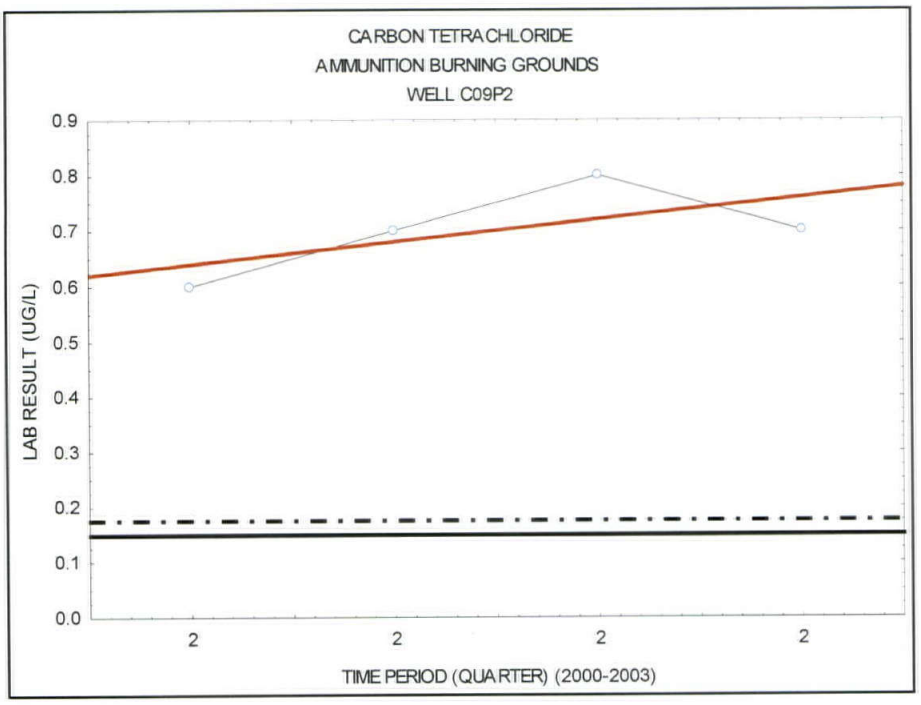


Figure 7.105.

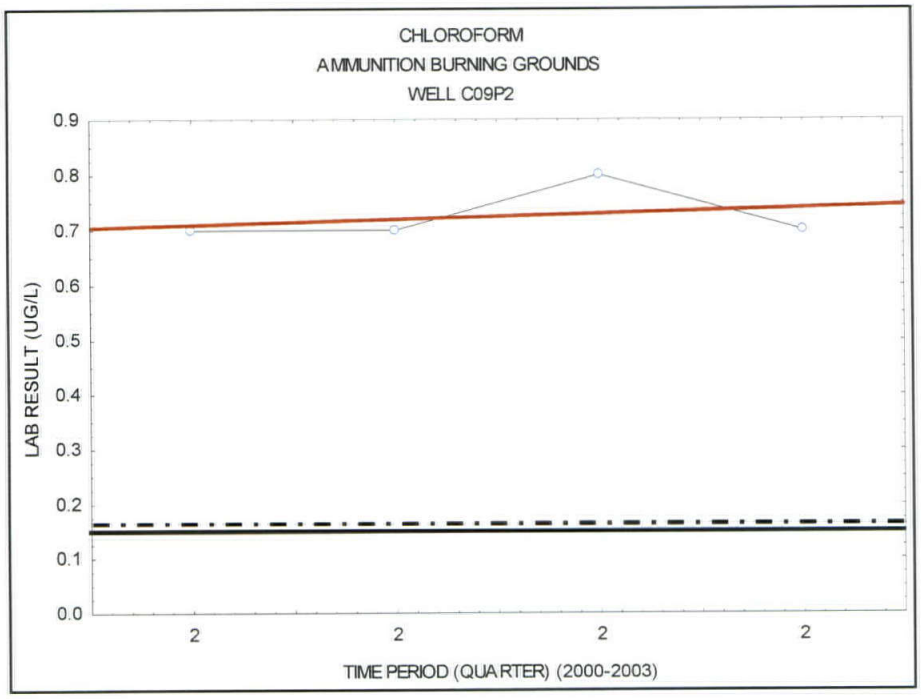


Figure 7.106.

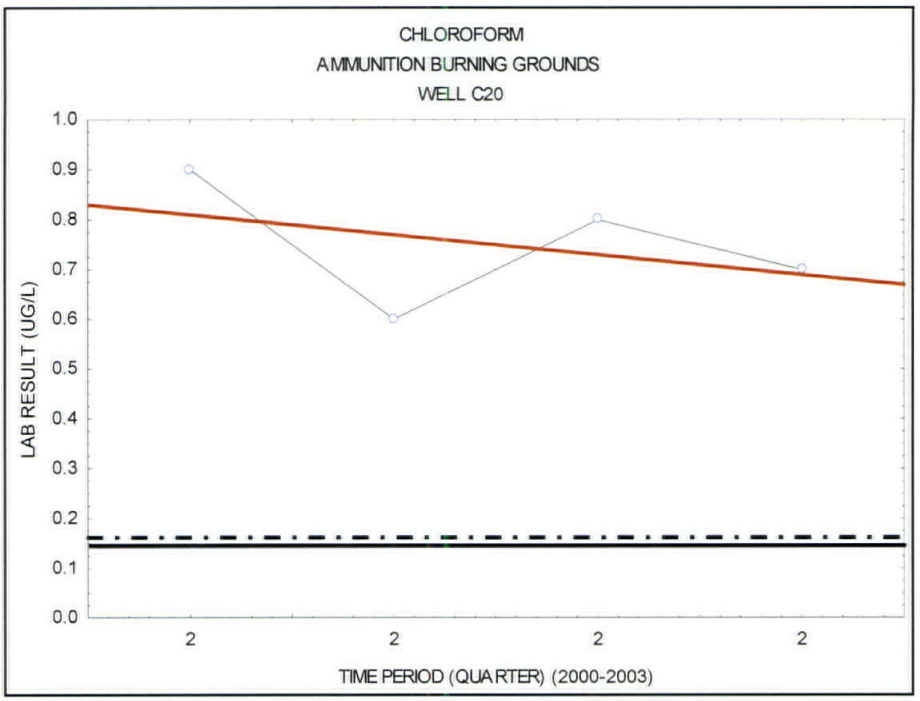


Figure 7.107.

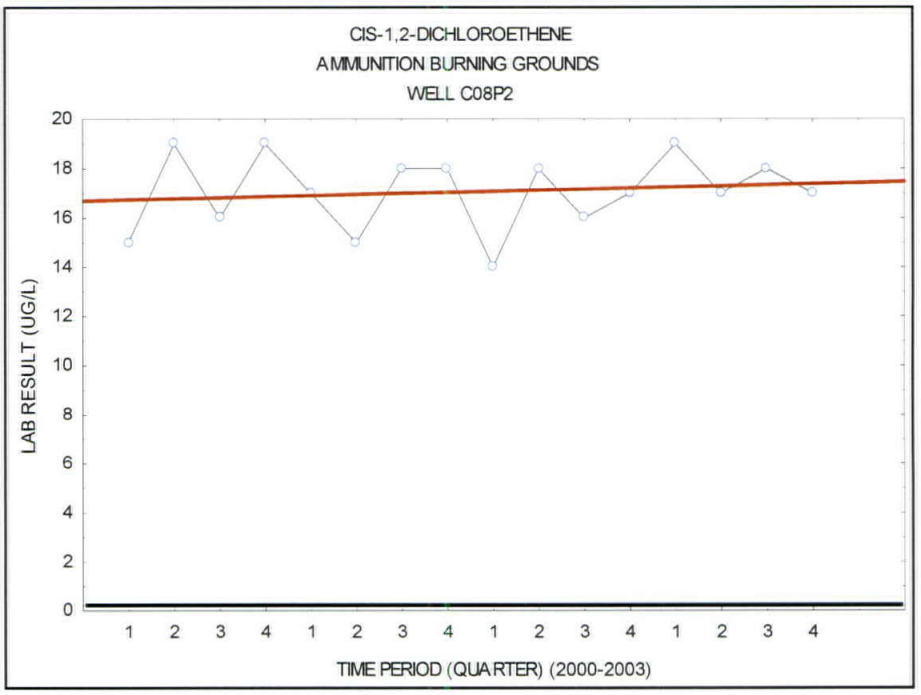


Figure 7.108.

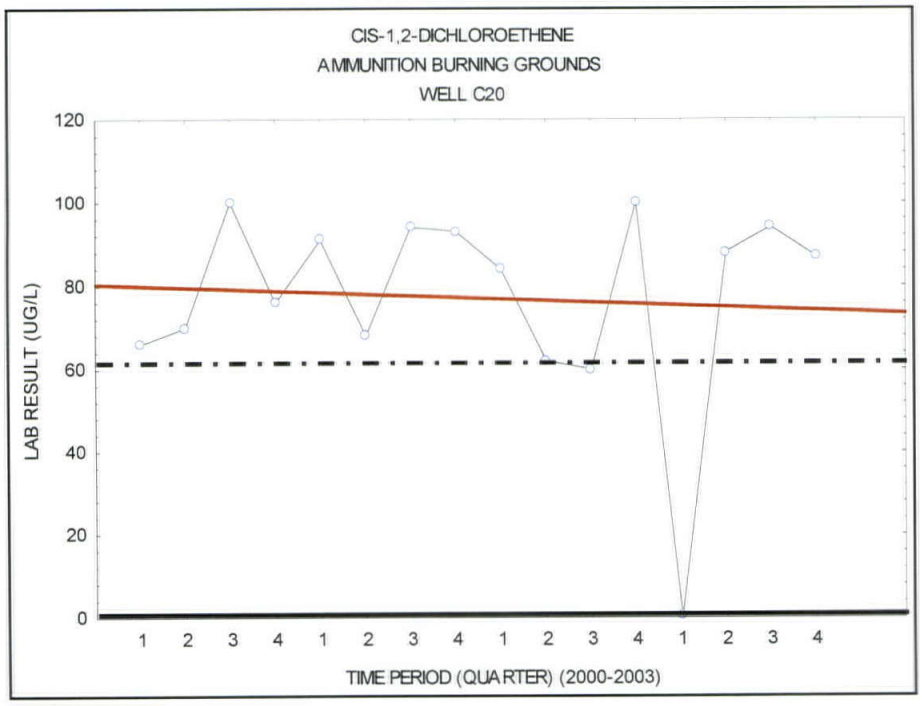


Figure 7.109.

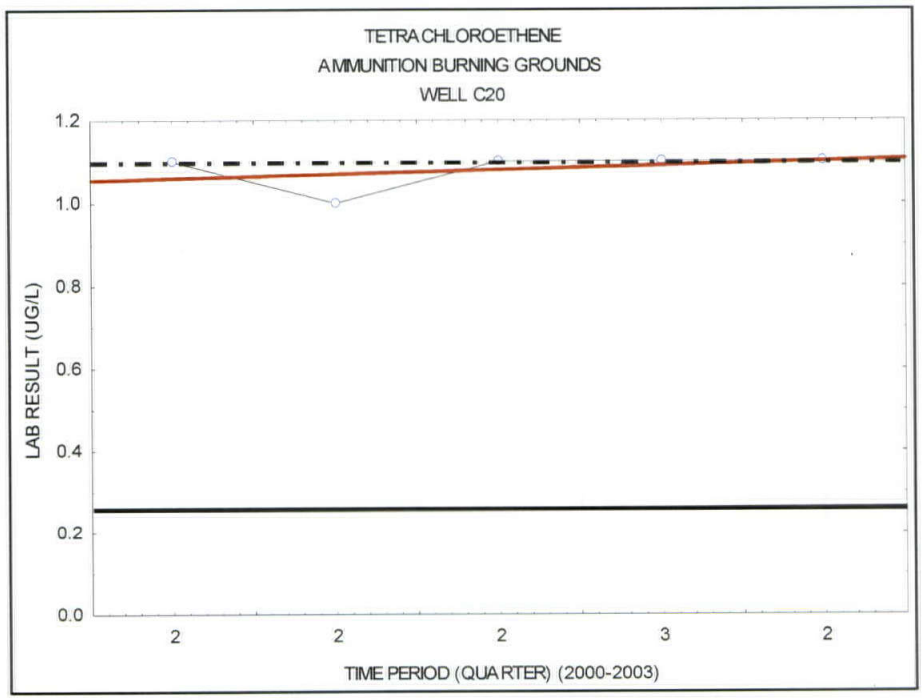


Figure 7.110.

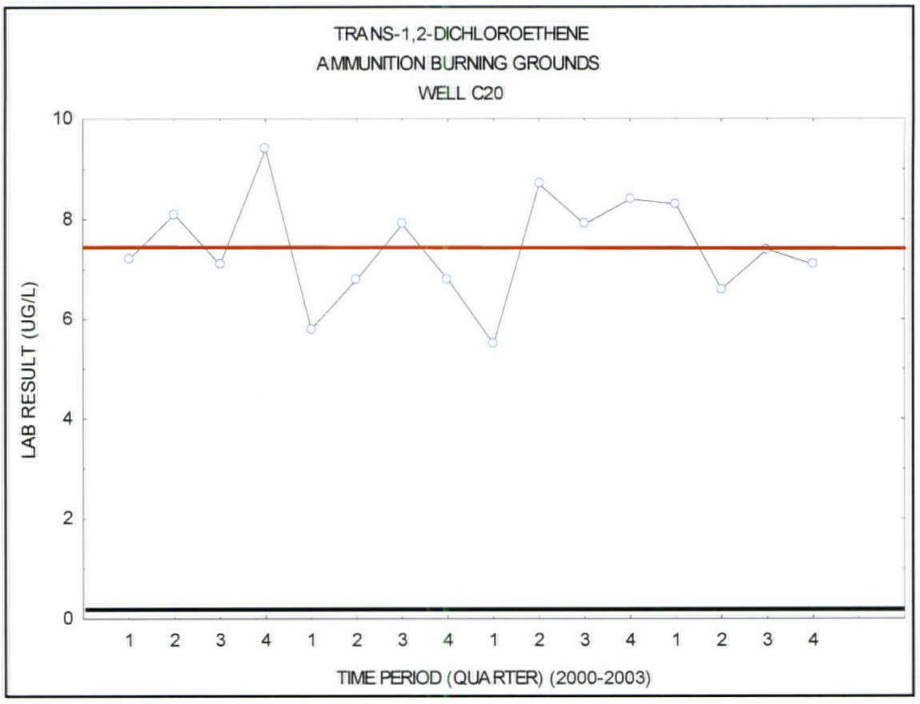


Figure 7.111.

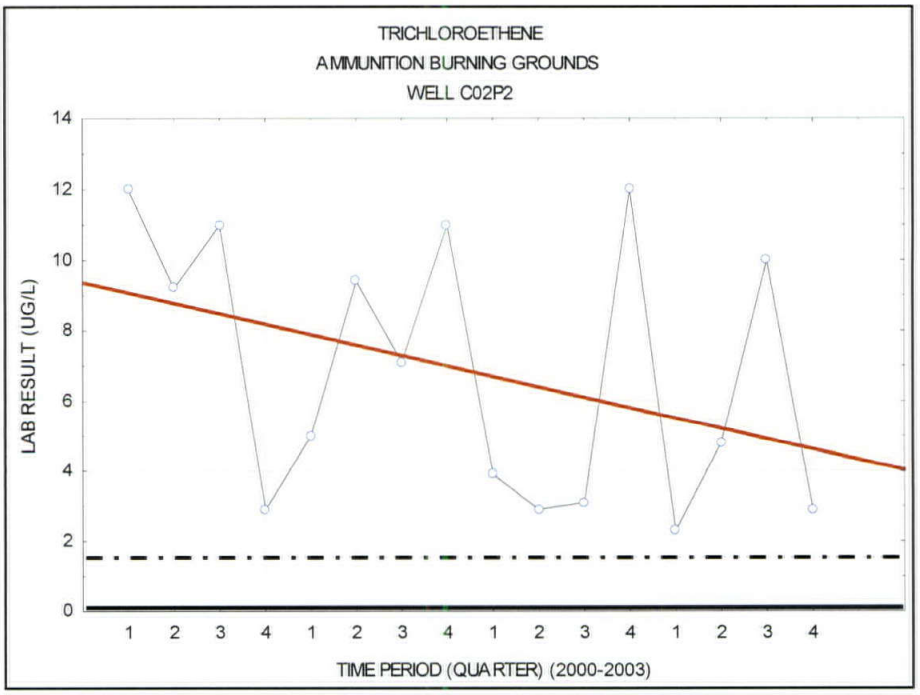


Figure 7.112.

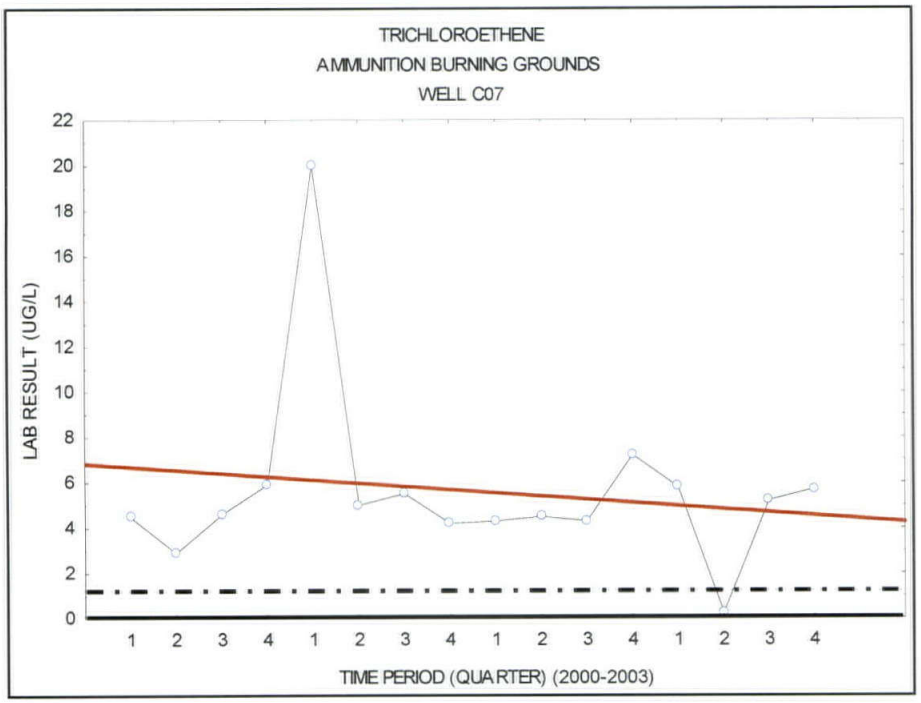


Figure 7.113.

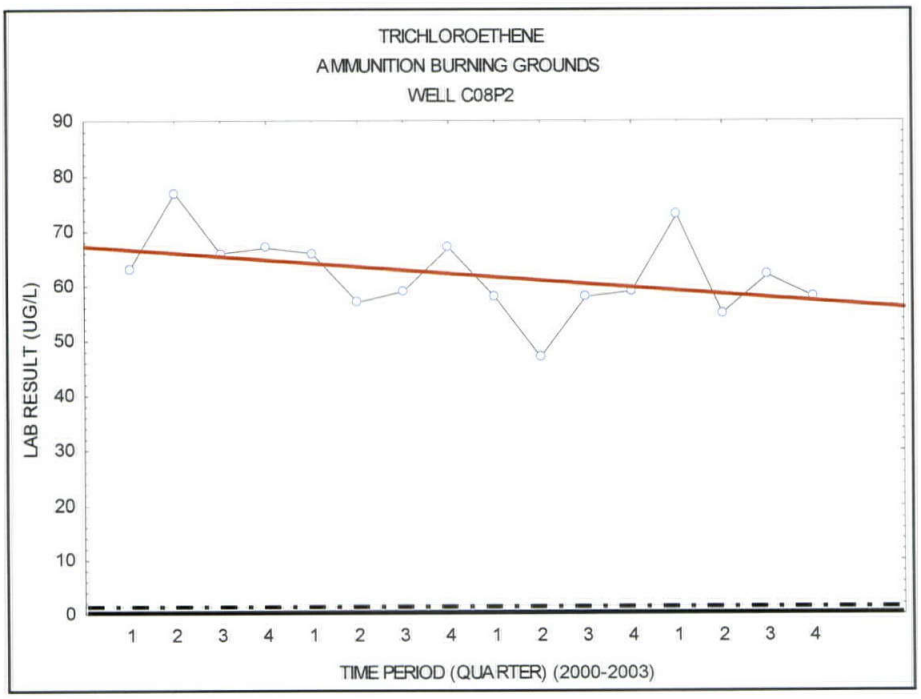


Figure 7.114.

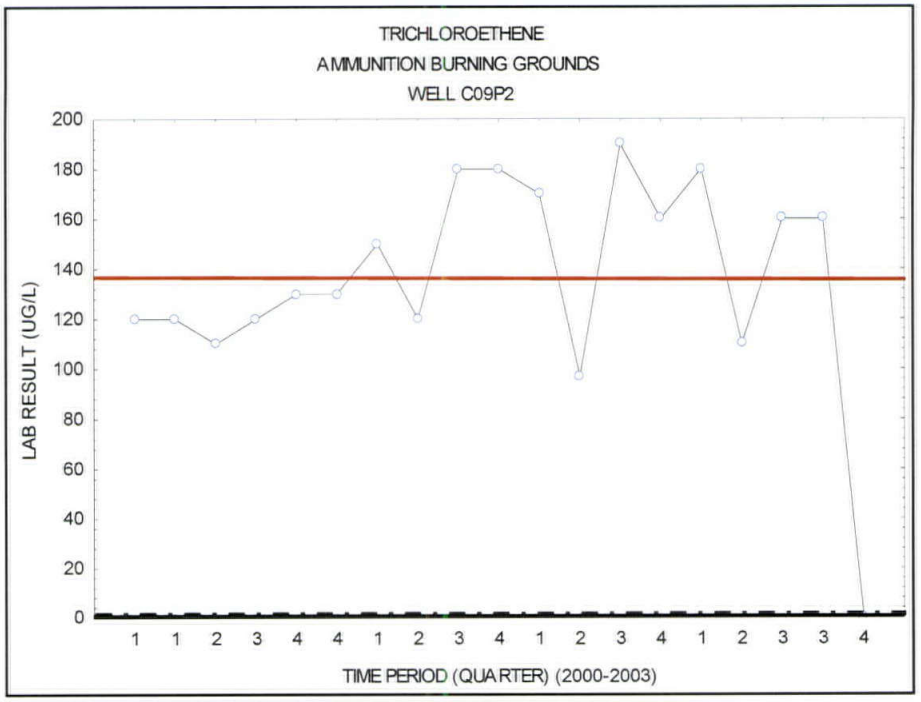


Figure 7.115.

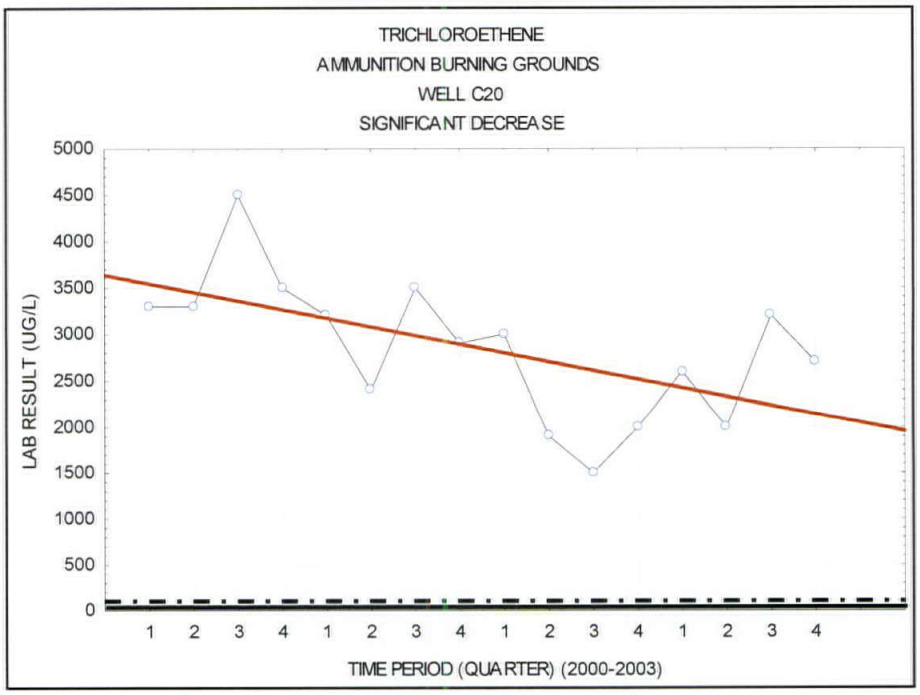


Figure 7.116.

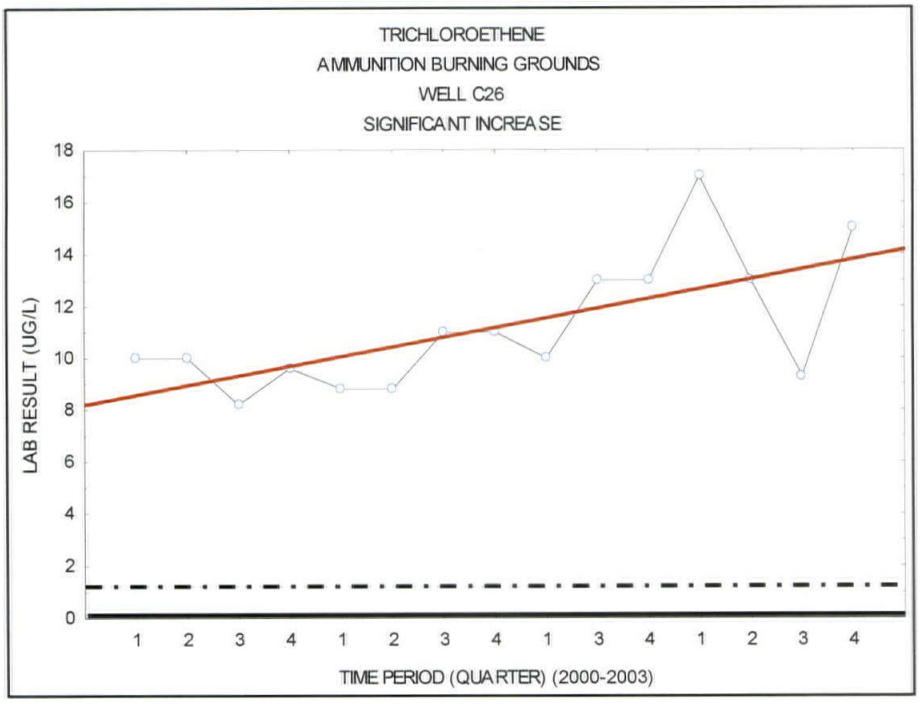


Figure 7.117.

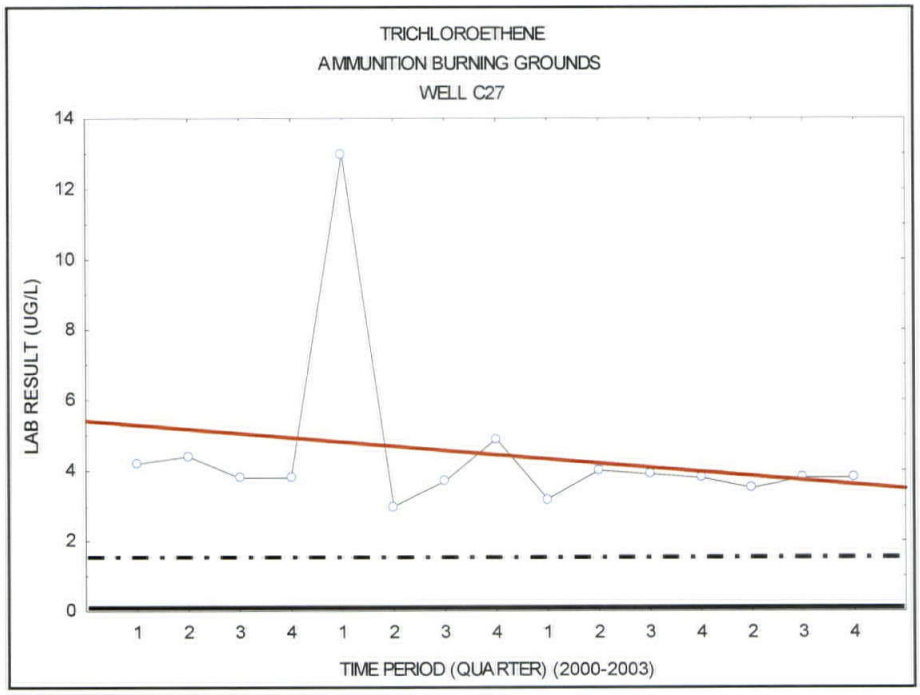


Figure 7.118.

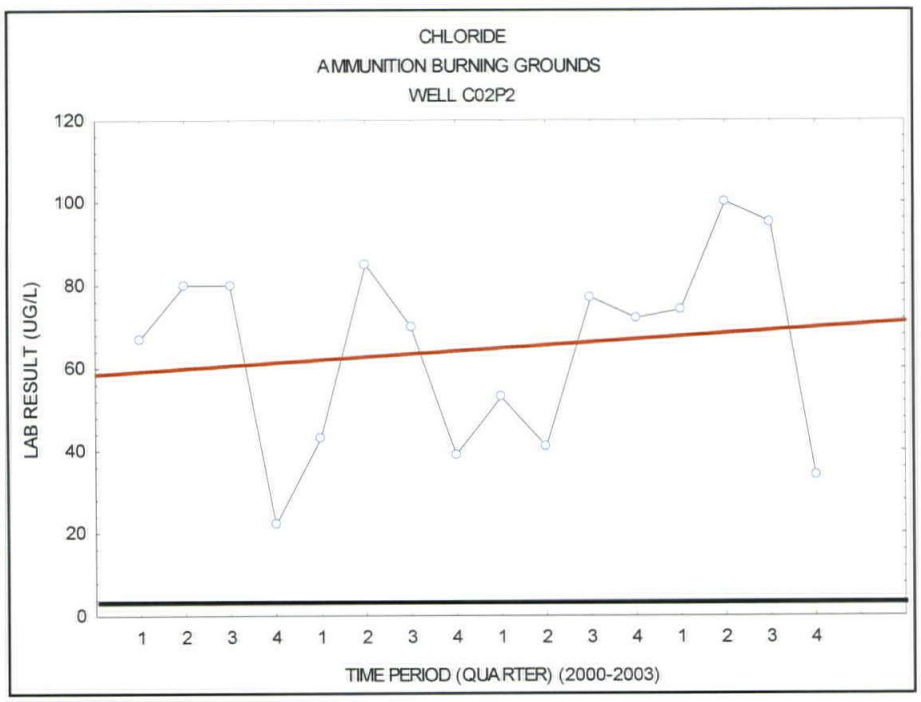


Figure 7.119.

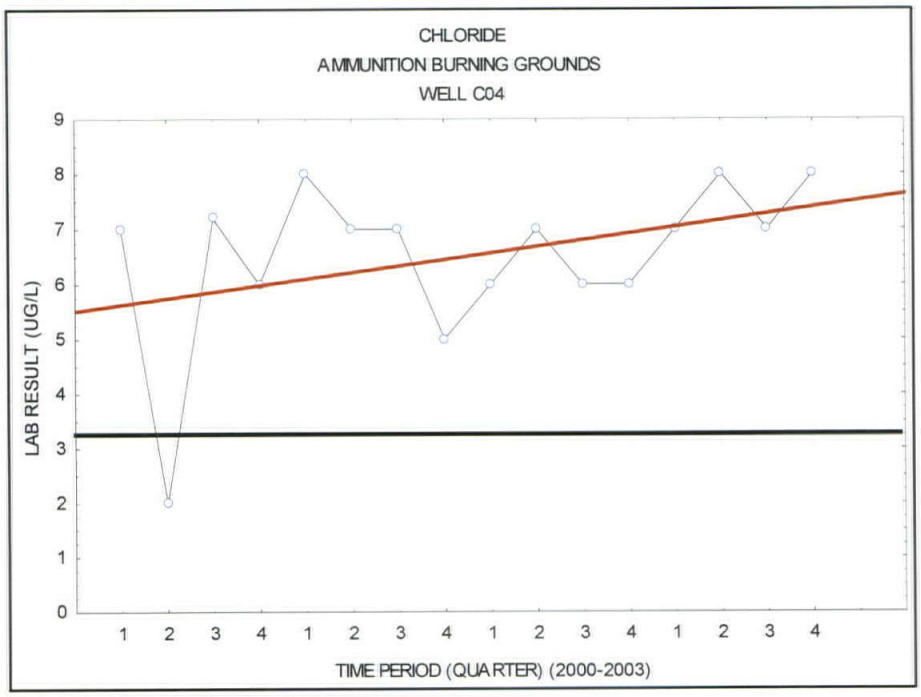


Figure 7.120.

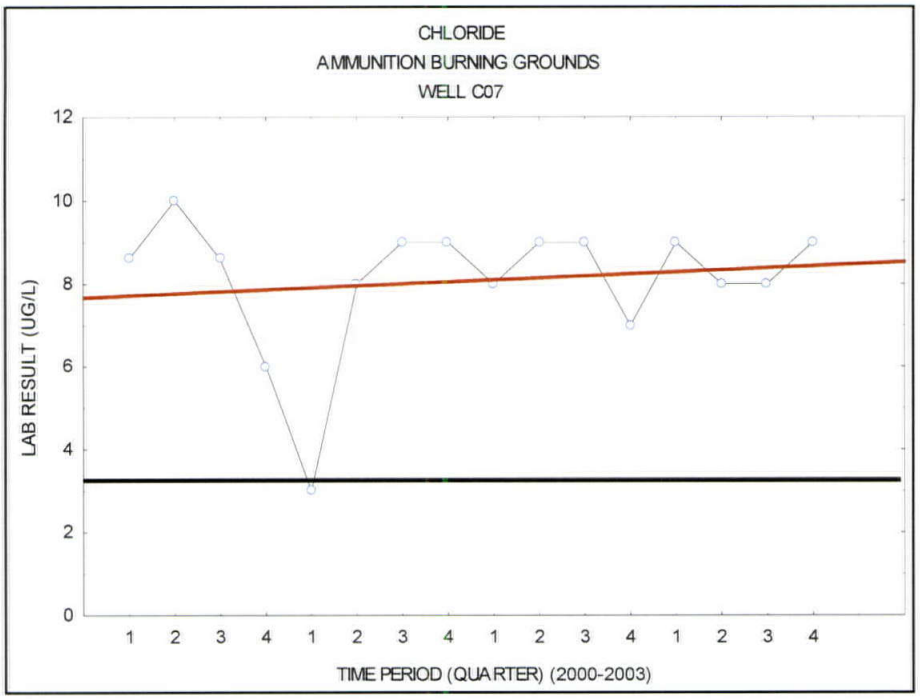


Figure 7.121.

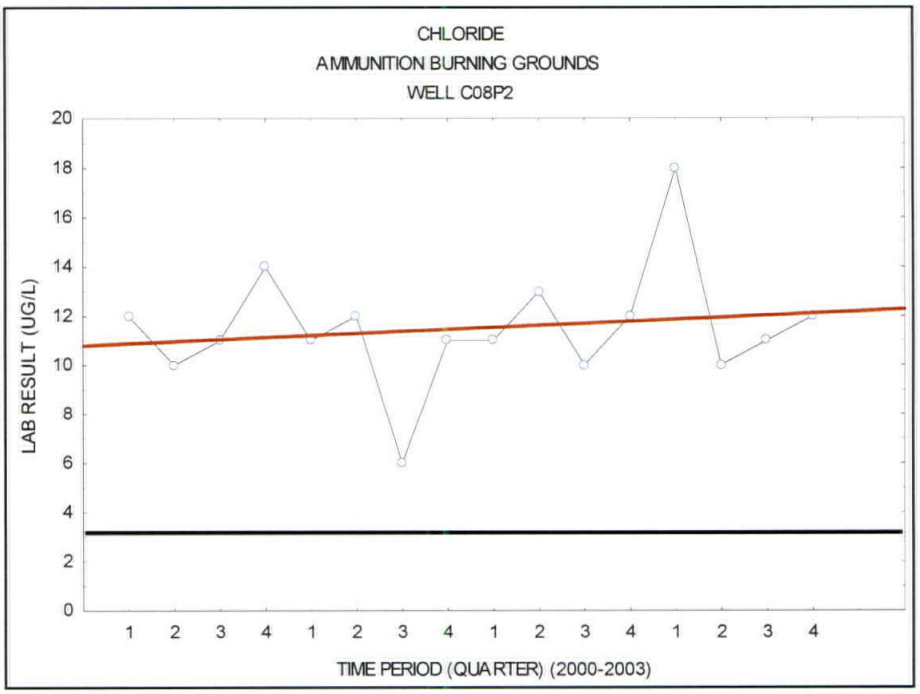


Figure 7.122.

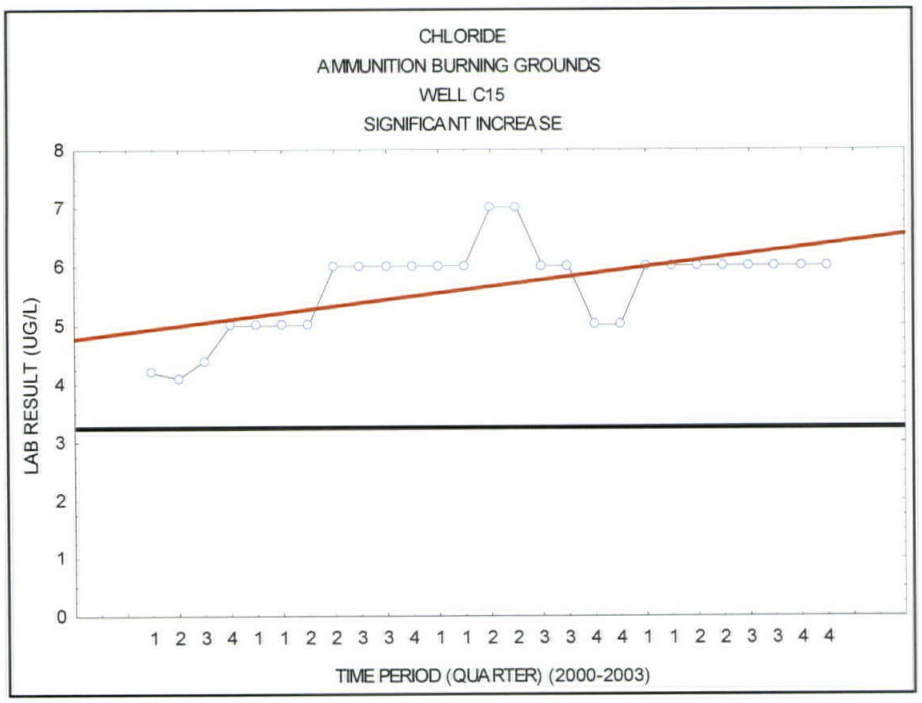


Figure 7.123.

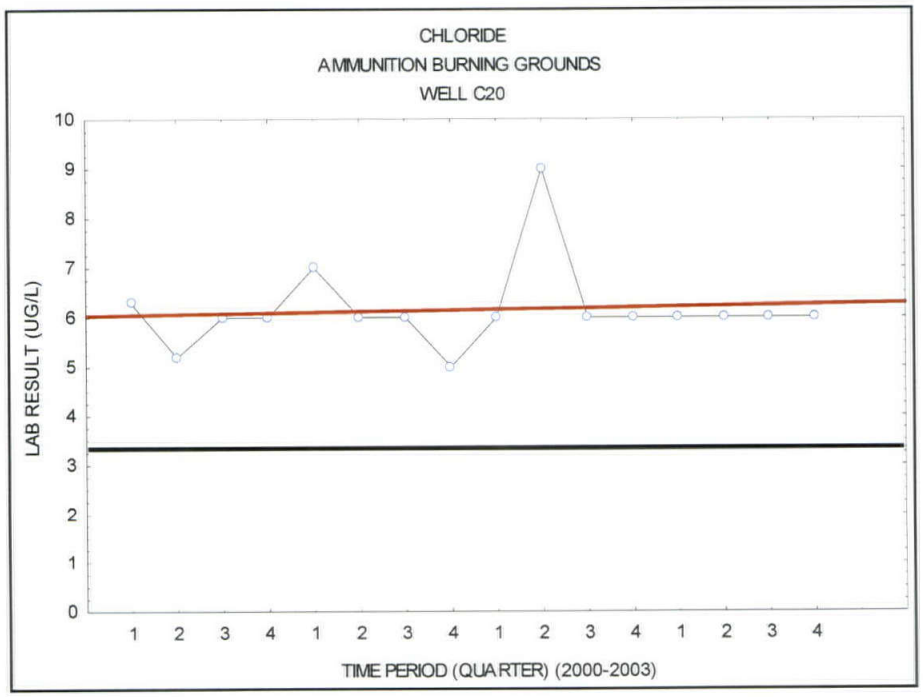


Figure 7.124.

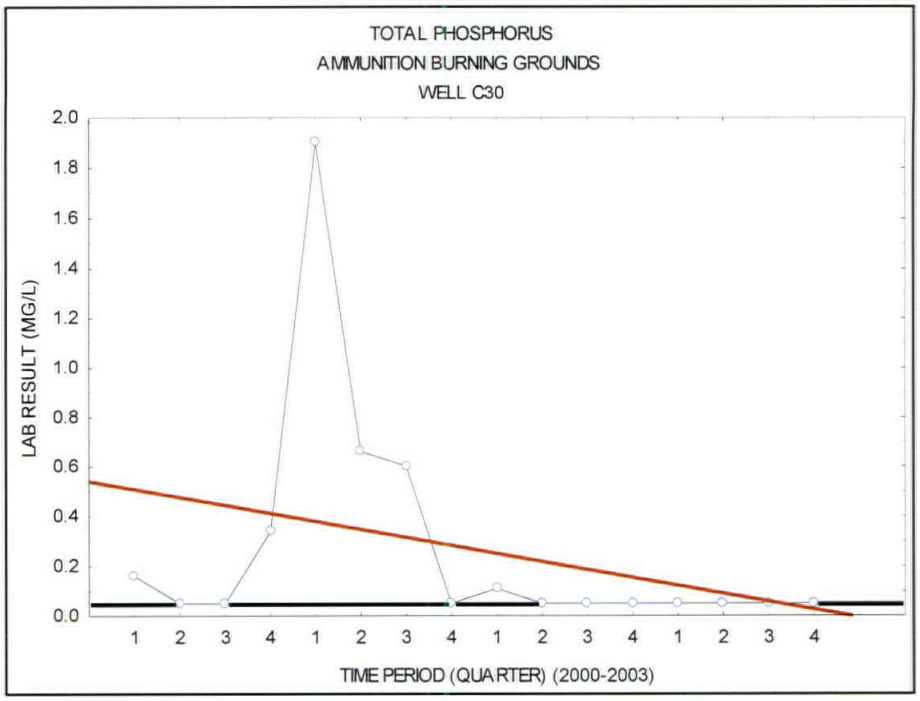


Figure 7.125.

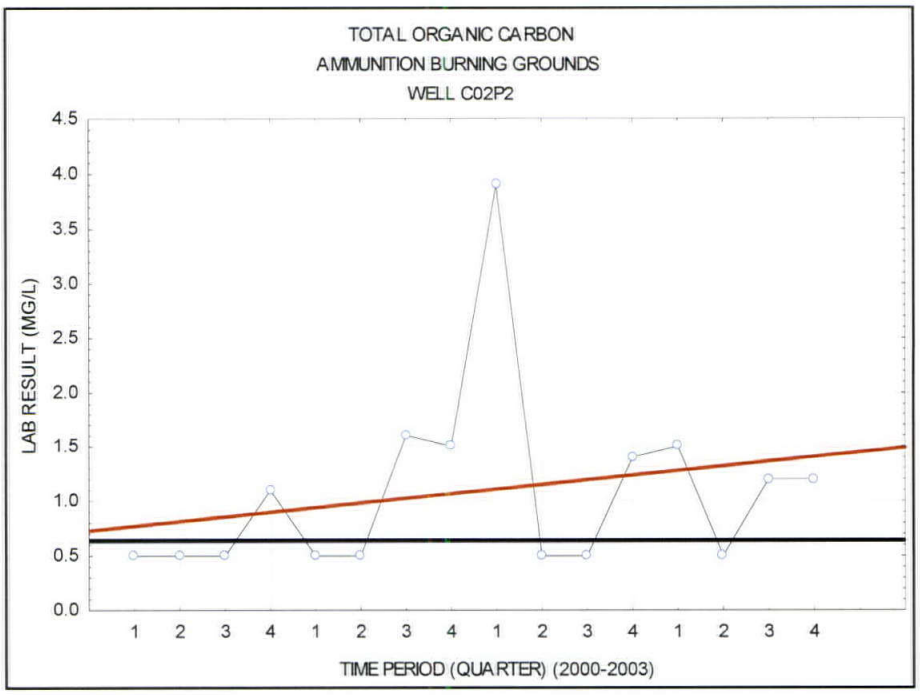


Figure 7.126.

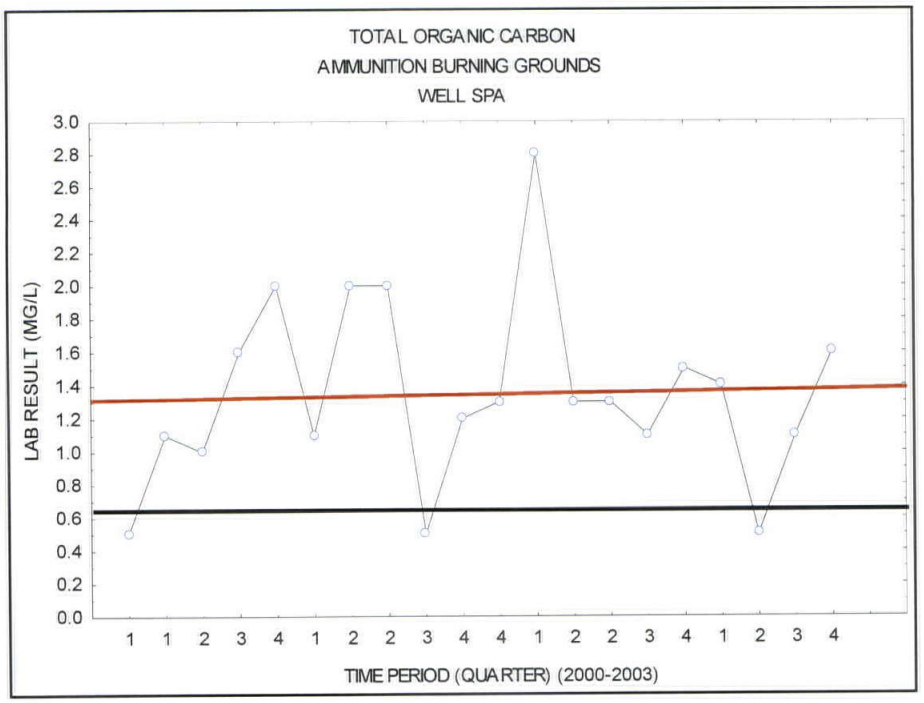


Figure 7.127.

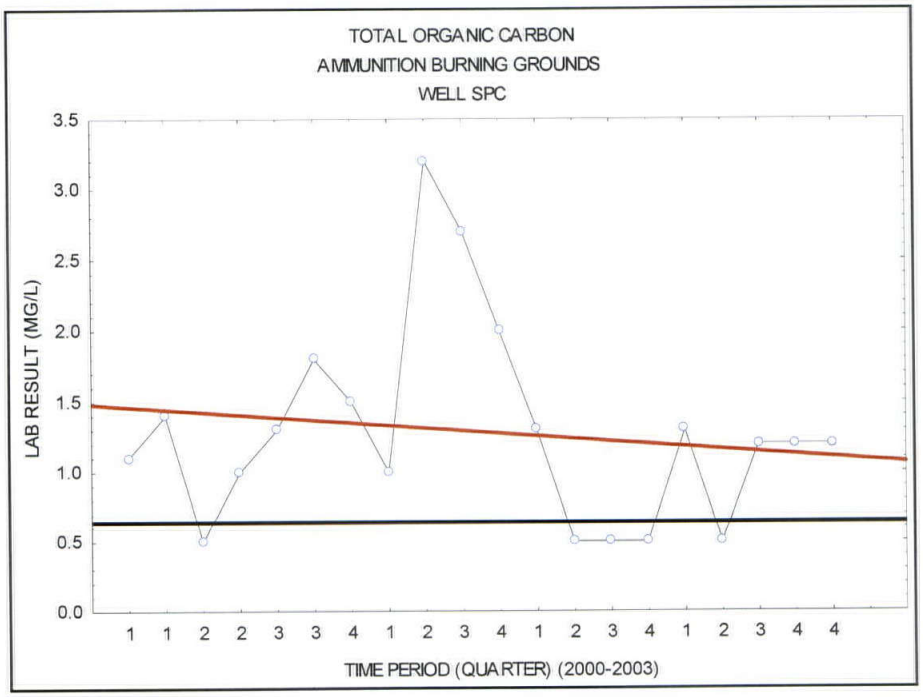


Figure 7.128.

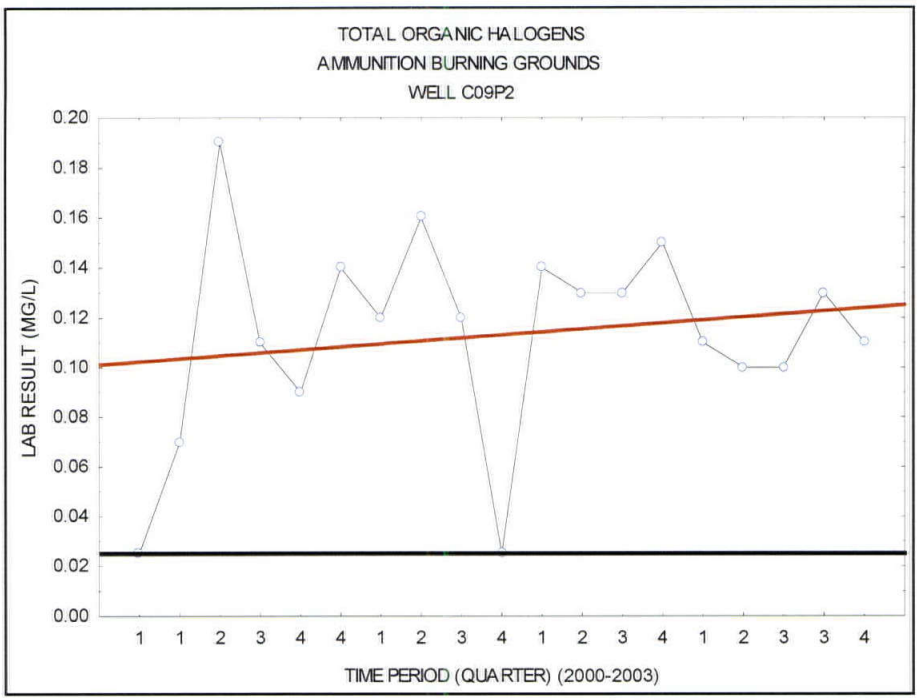


Figure 7.129.

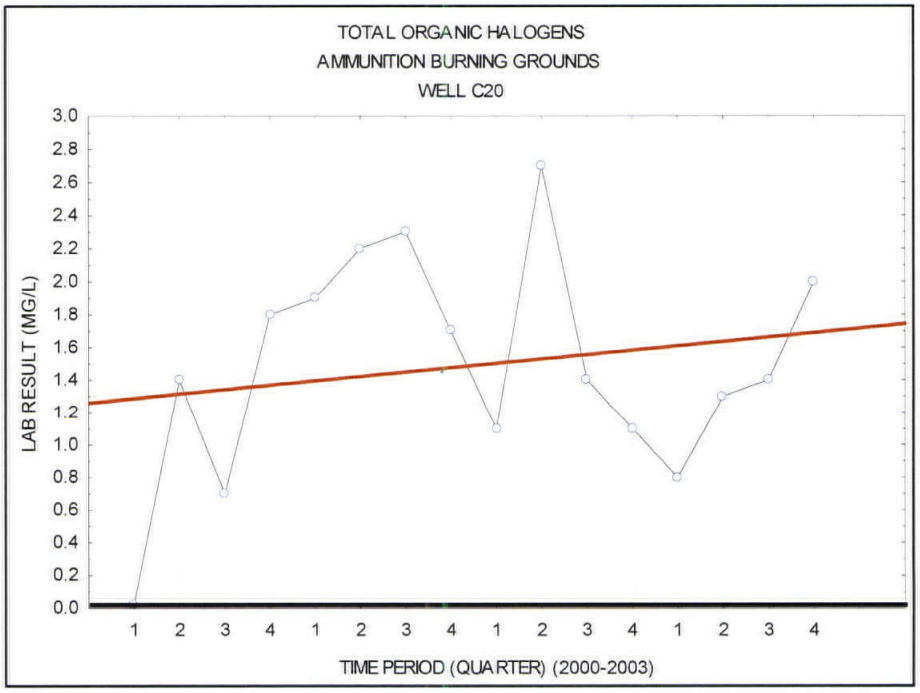


Figure 7.130.

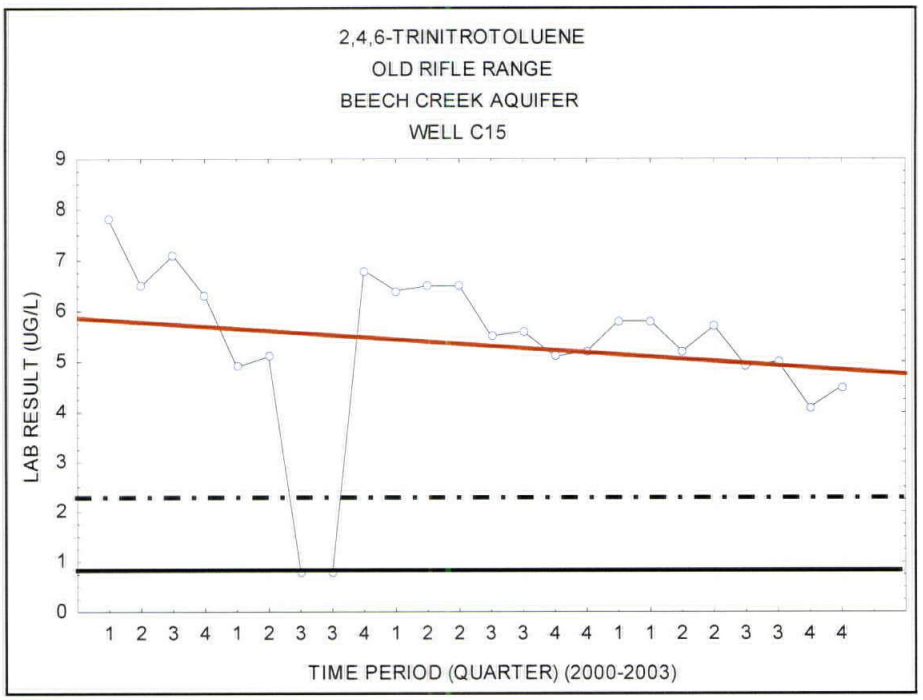


Figure 7.131.

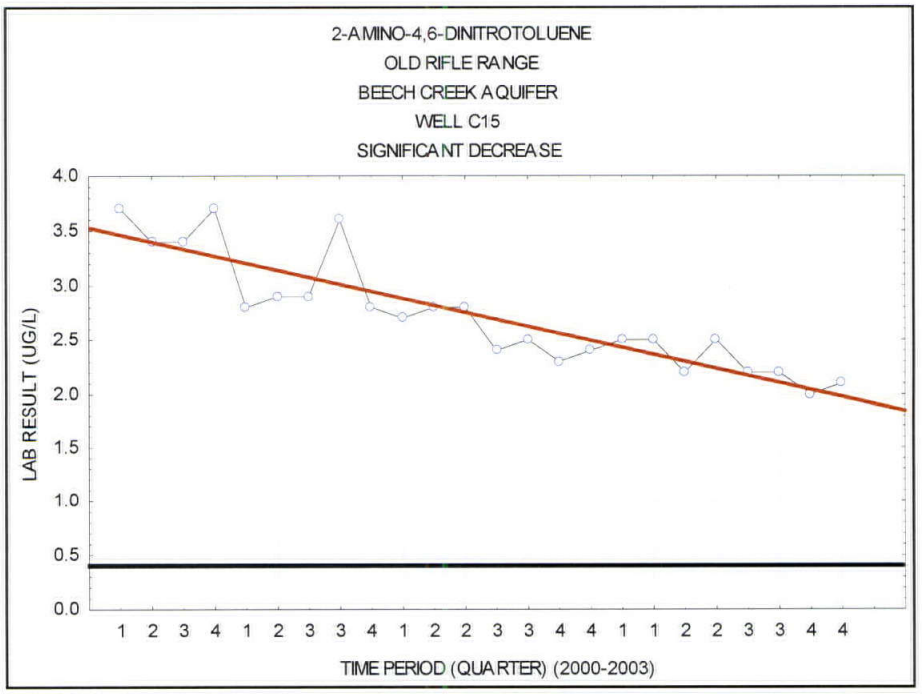


Figure 7.132.

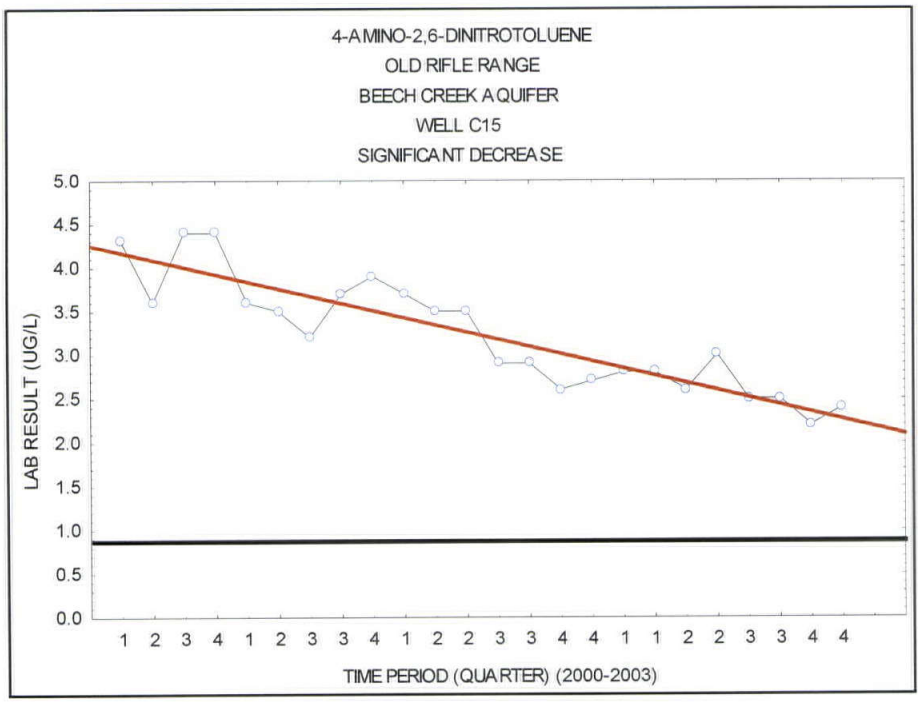

4-AMINO-2,6-DINITROTOLUENE
OLD RIFLE RANGE
BEECH CREEK AQUIFER
WELL C15
SIGNIFICANT DECREASE
LAB RESULT (UG/L)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1 2 3 4 1 2 3 3 4 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4
TIME PERIOD (QUARTER) (2000-2003)

Figure 7.133.

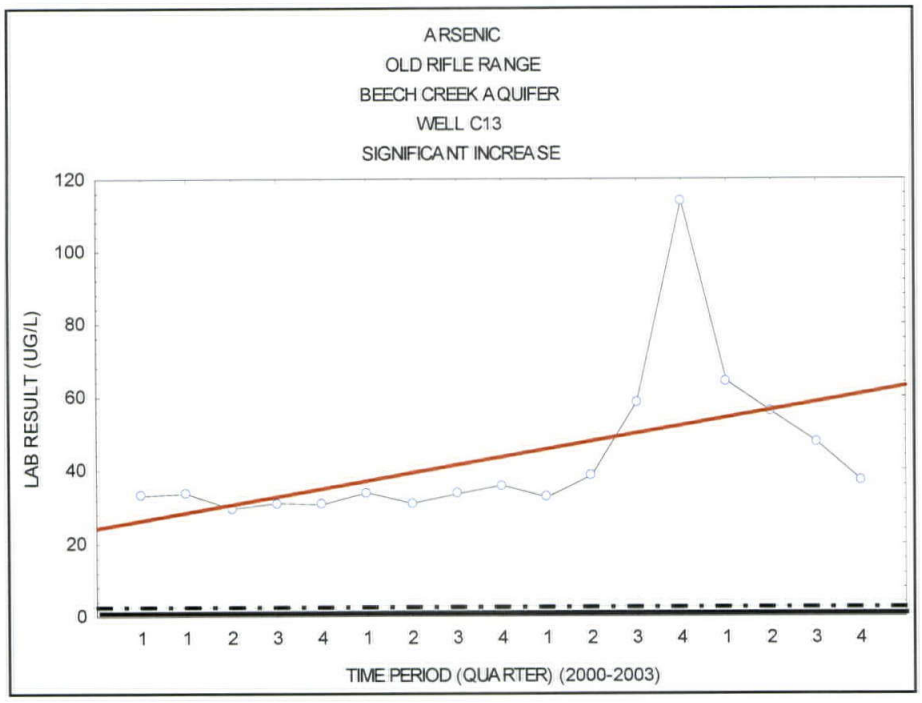


Figure 7.134.

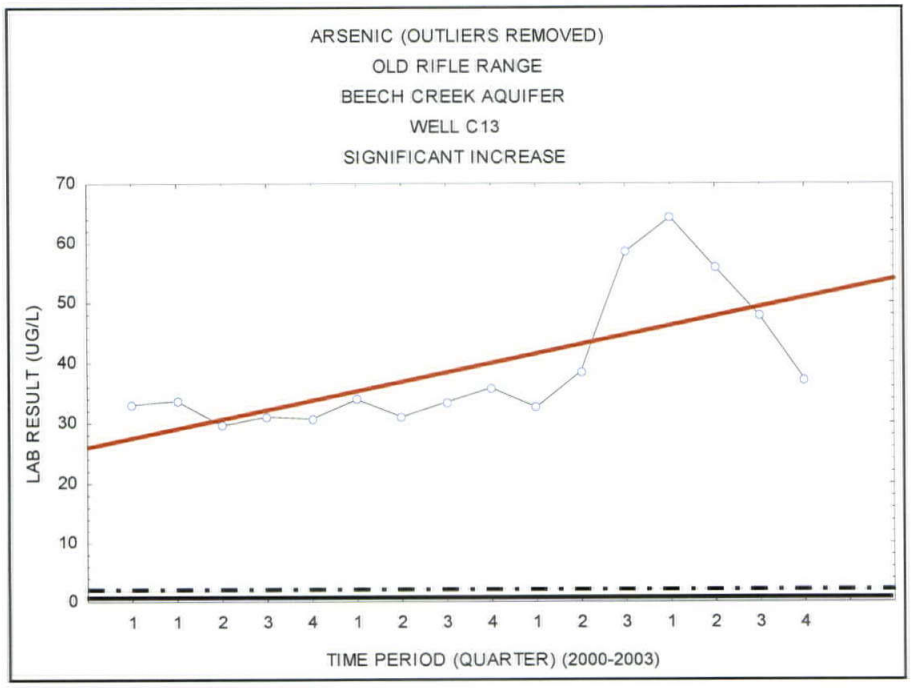


Figure 7.135.

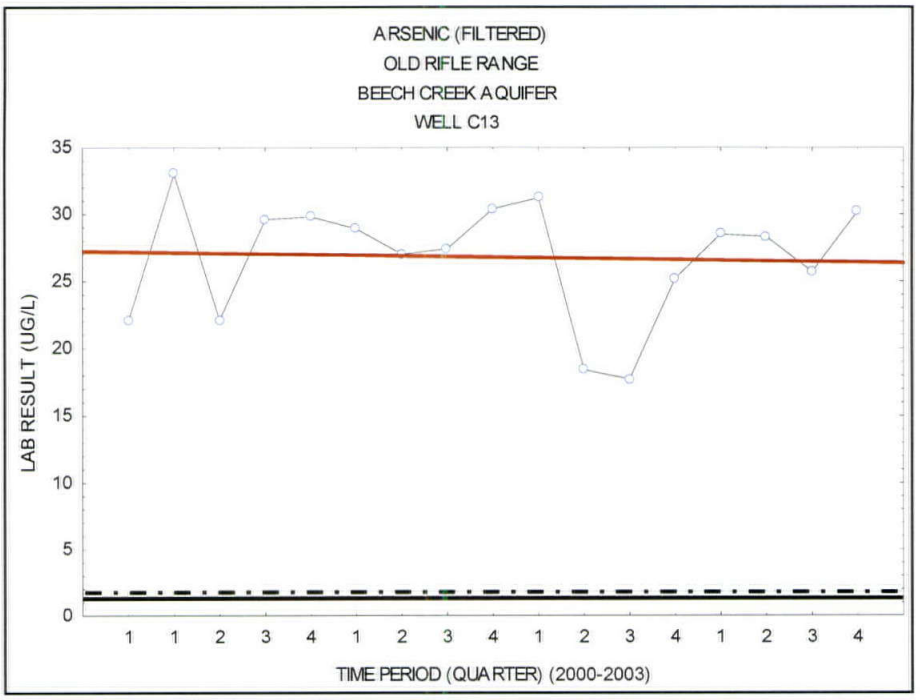


Figure 7.136.

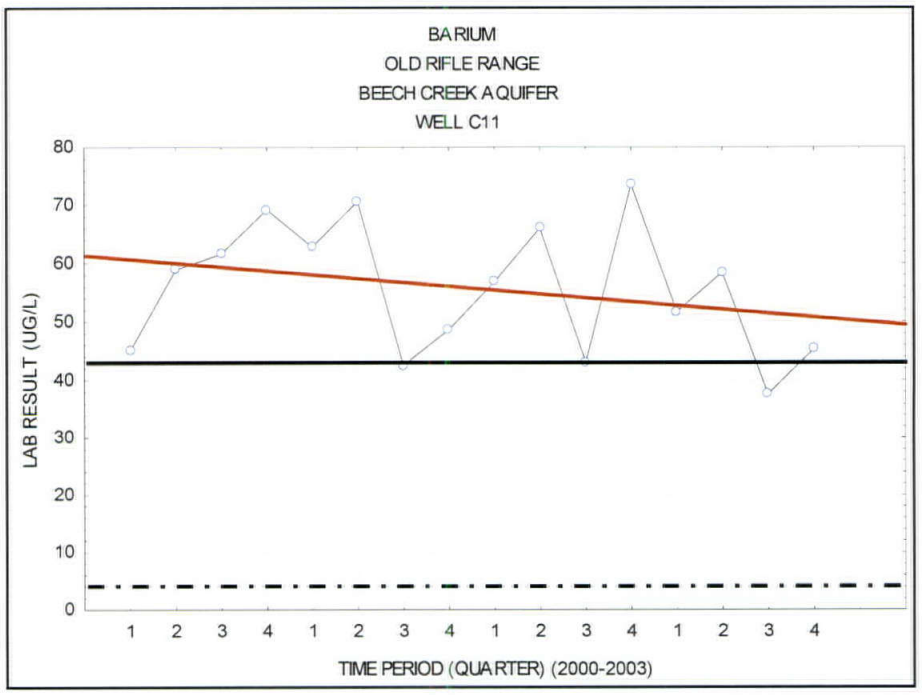


Figure 7.137.

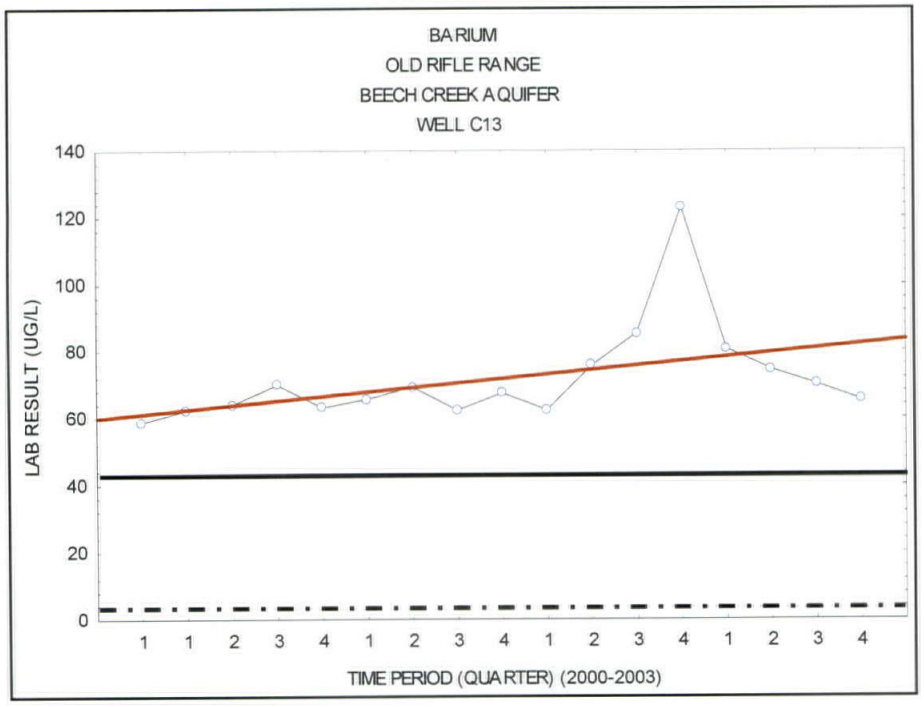


Figure 7.138.

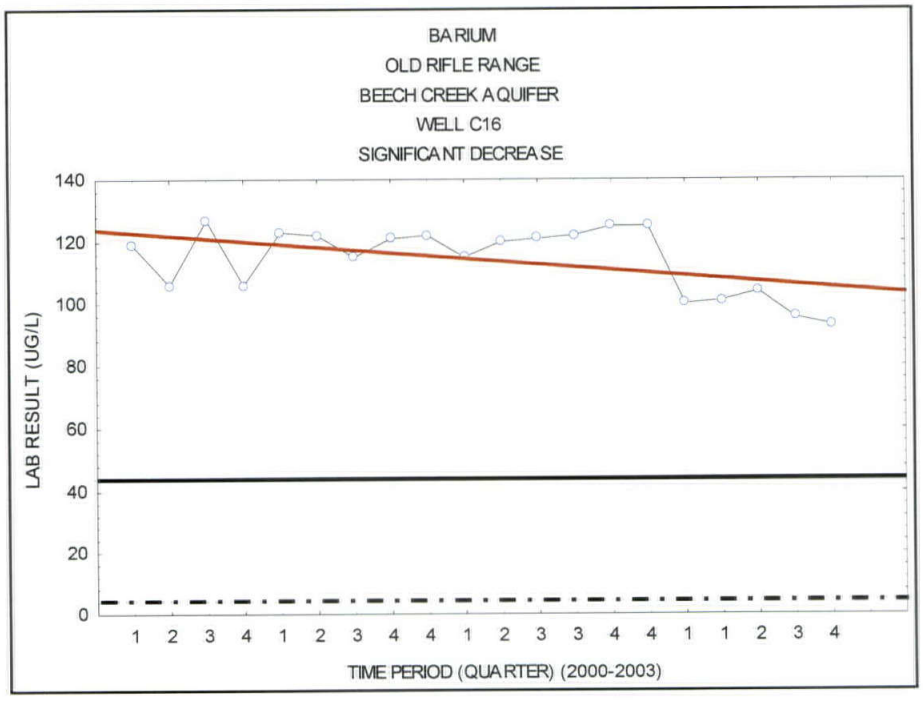


Figure 7.139.

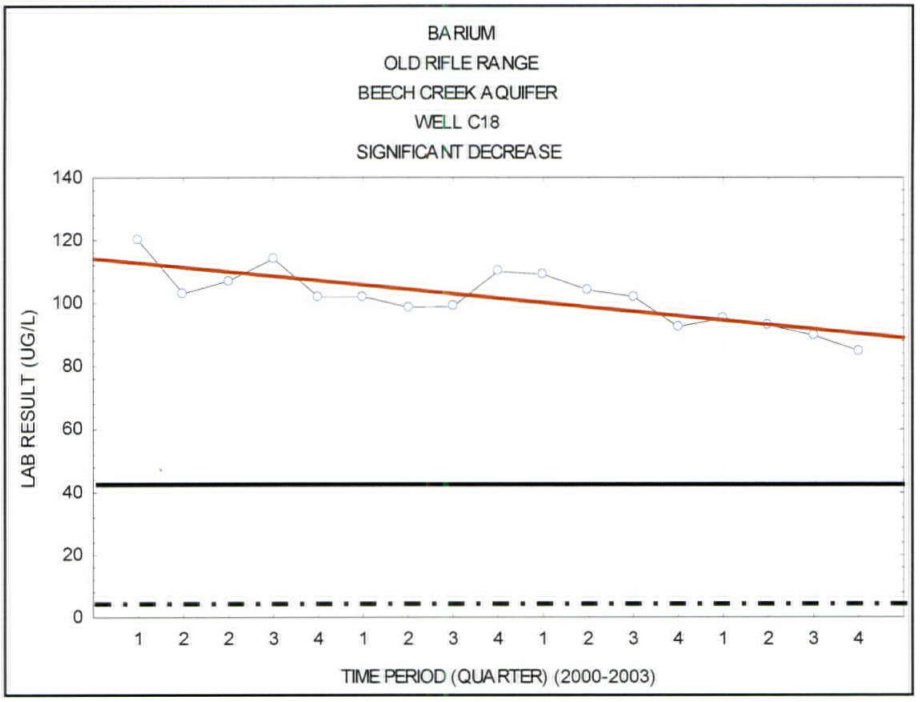


Figure 7.140.

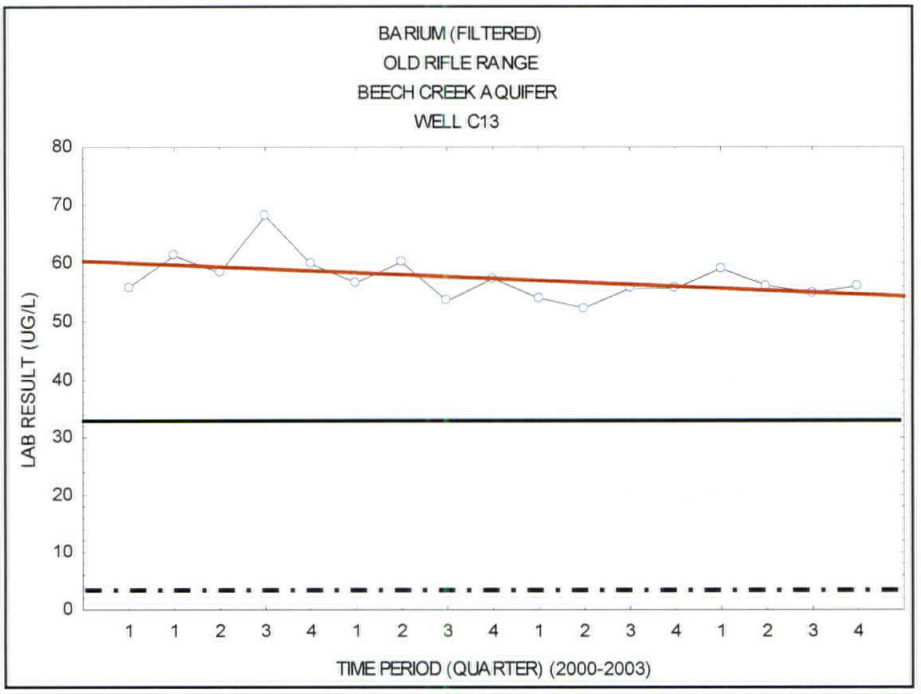


Figure 7.141.

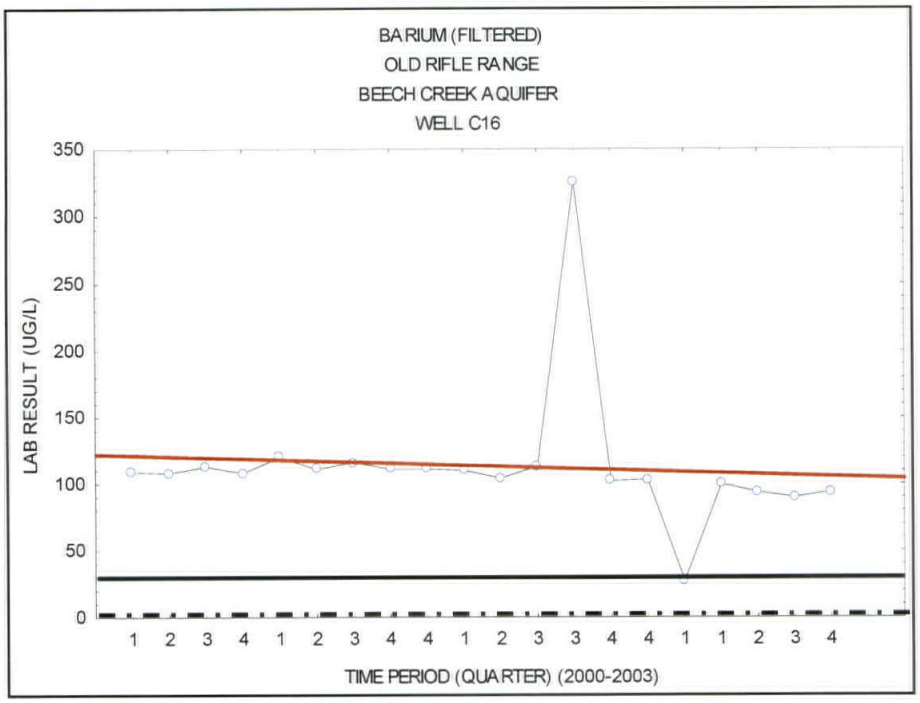


Figure 7.142.

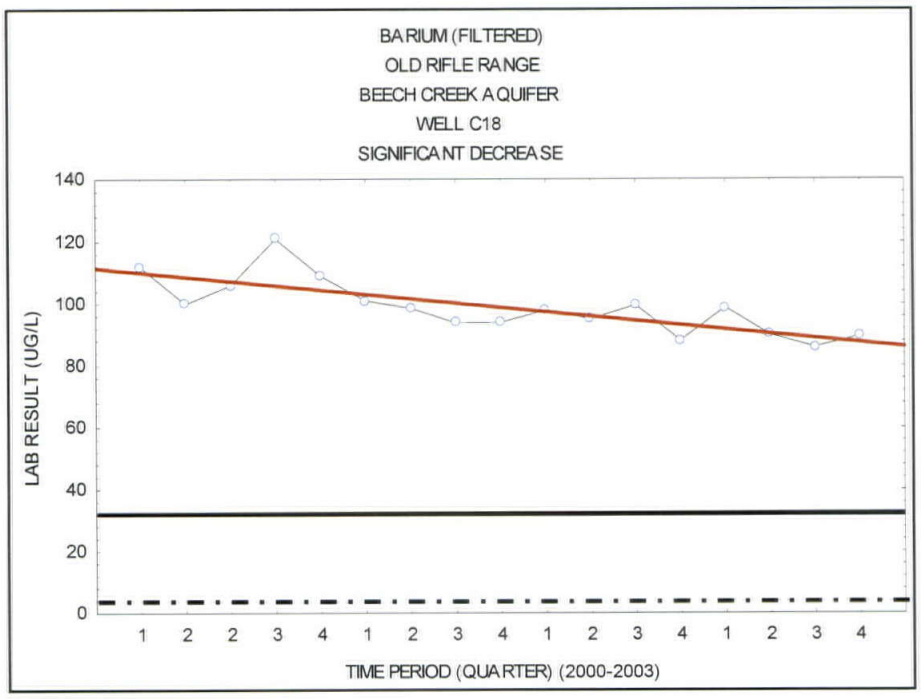
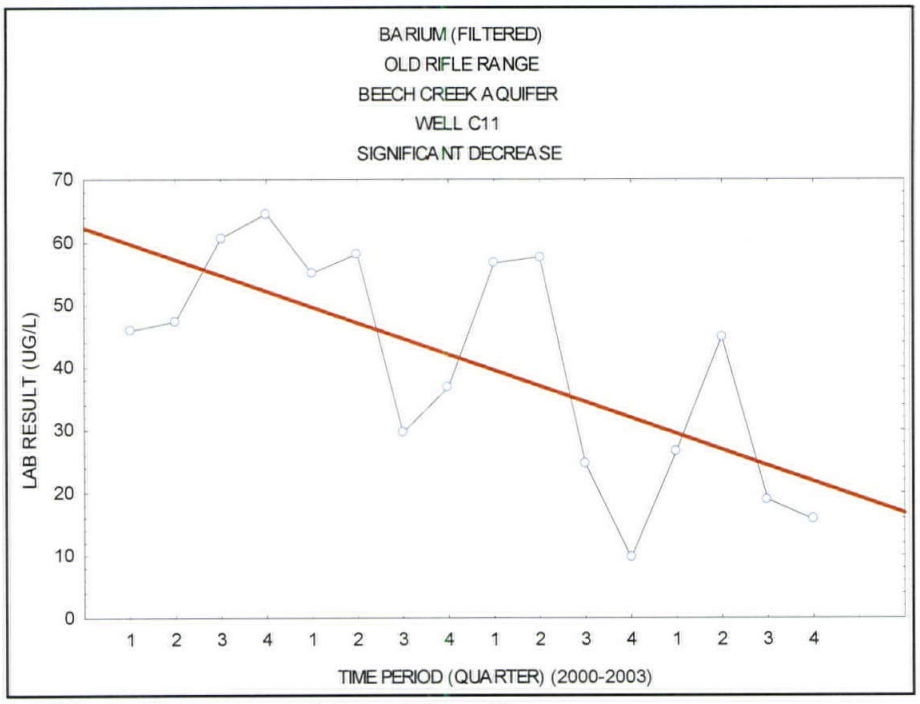
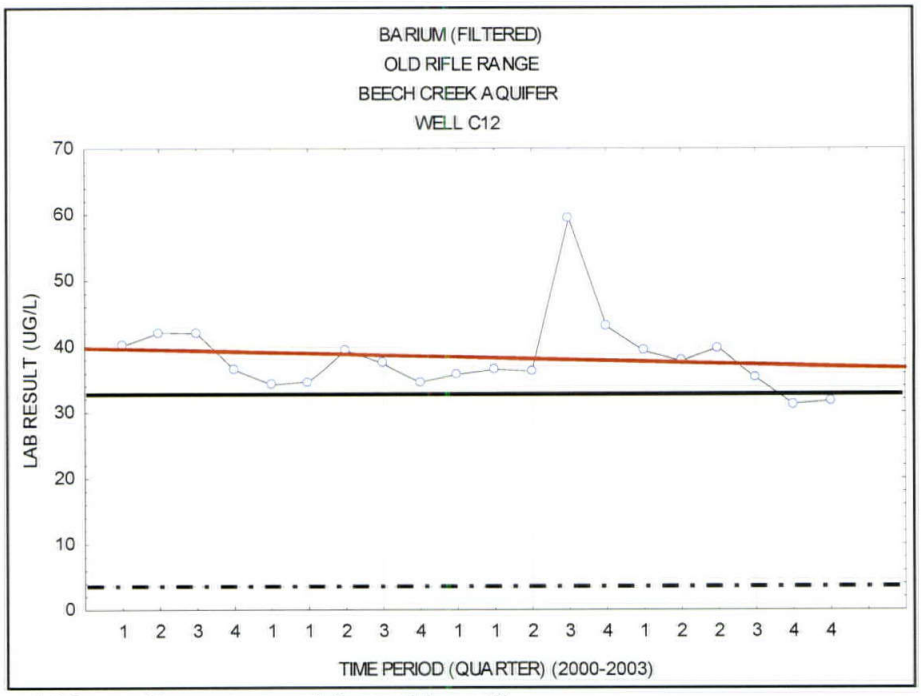


Figure 7.143.



* No outliers removed from this well.

Figure 7.144.



* No outliers removed from this well.

Figure 7.145.

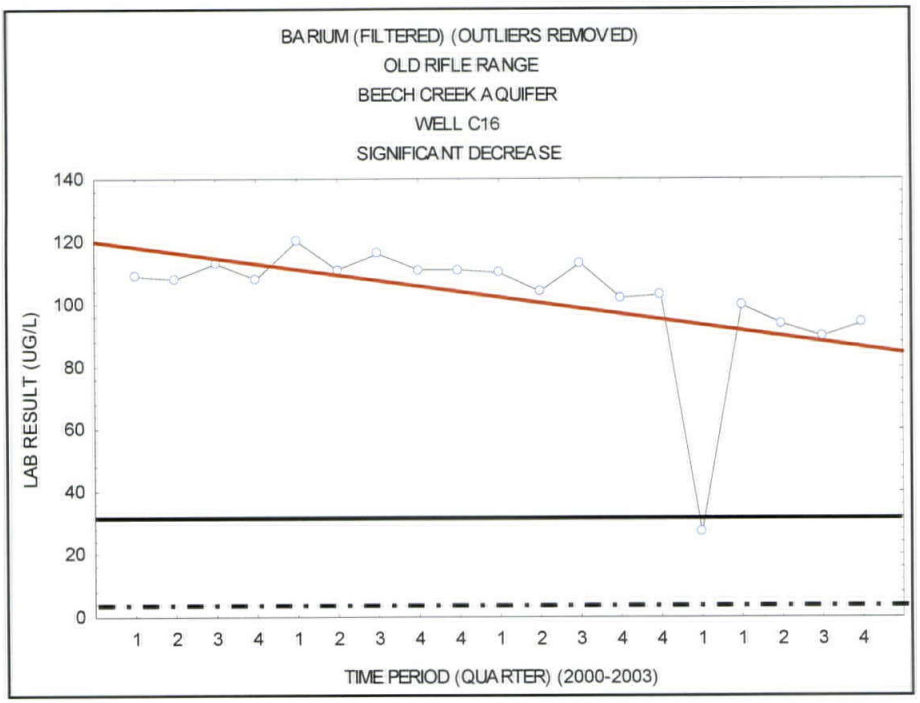
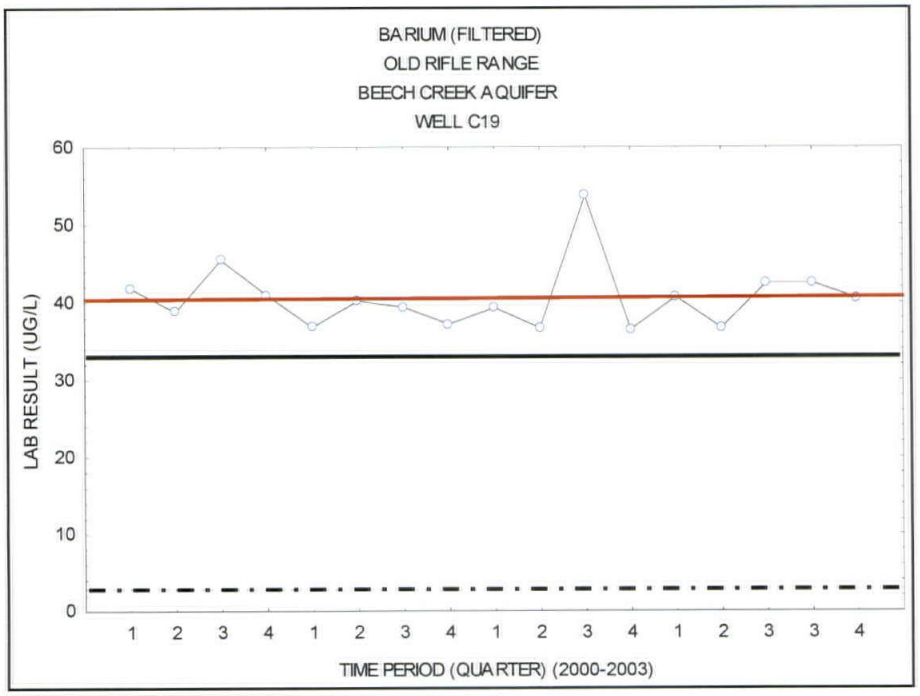


Figure 7.146.



* No outliers removed from this well.

Figure 7.147.

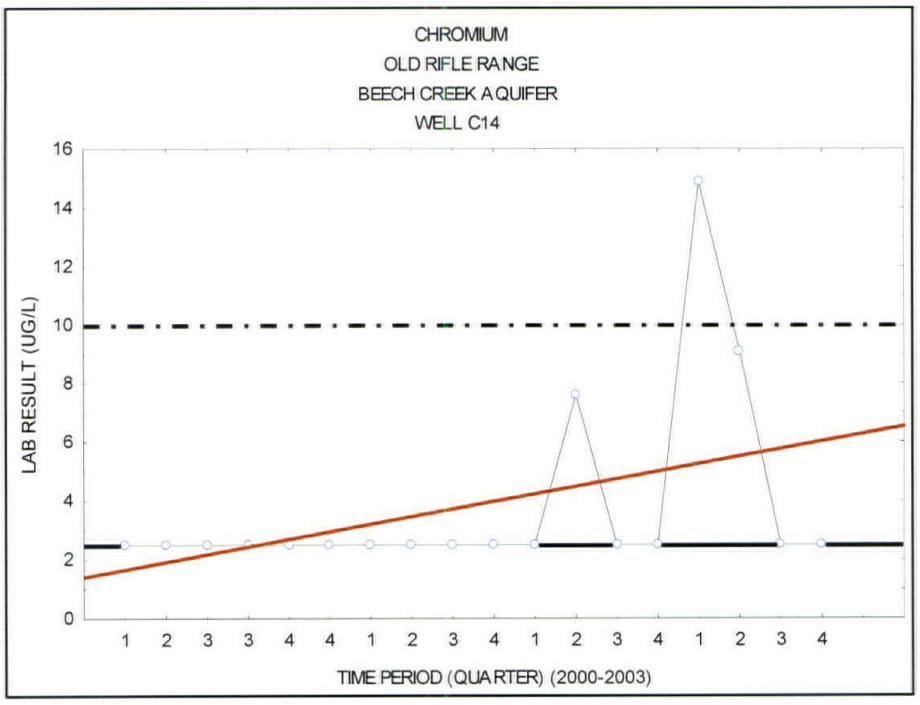


Figure 7.148.

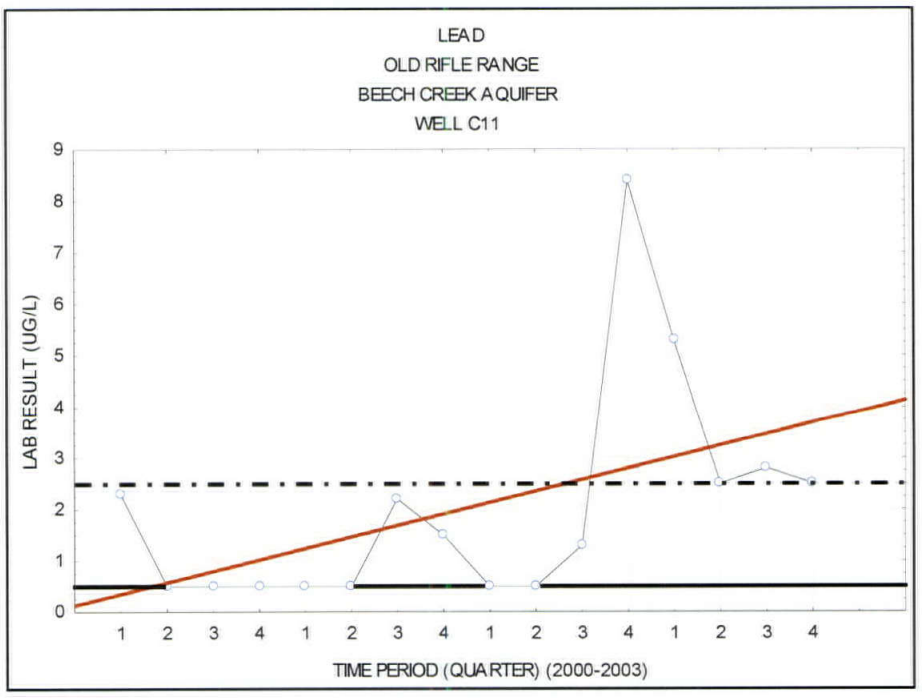


Figure 7.149.

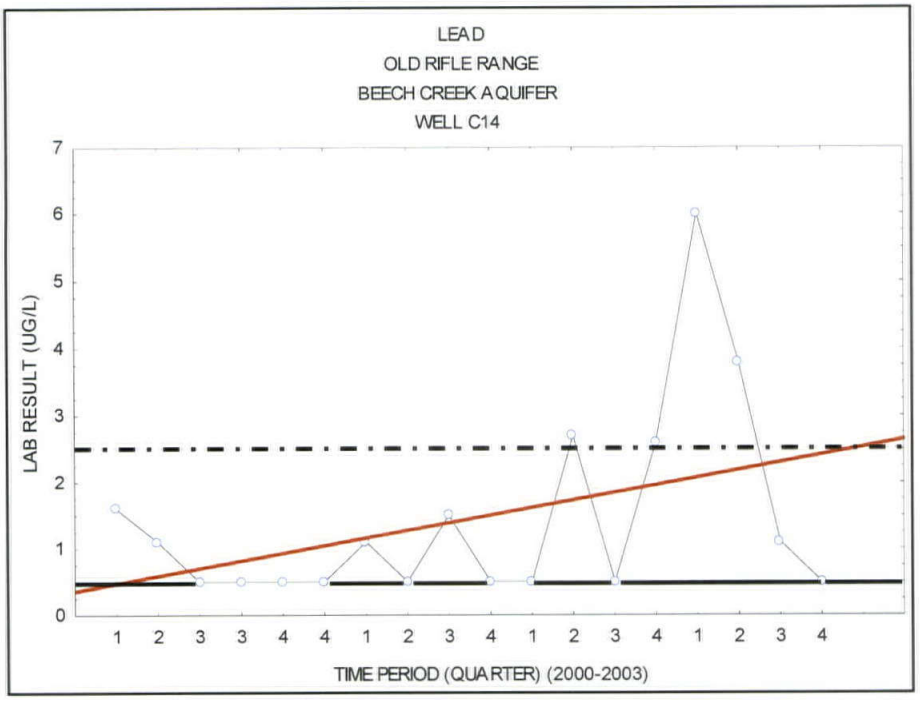


Figure 7.150.

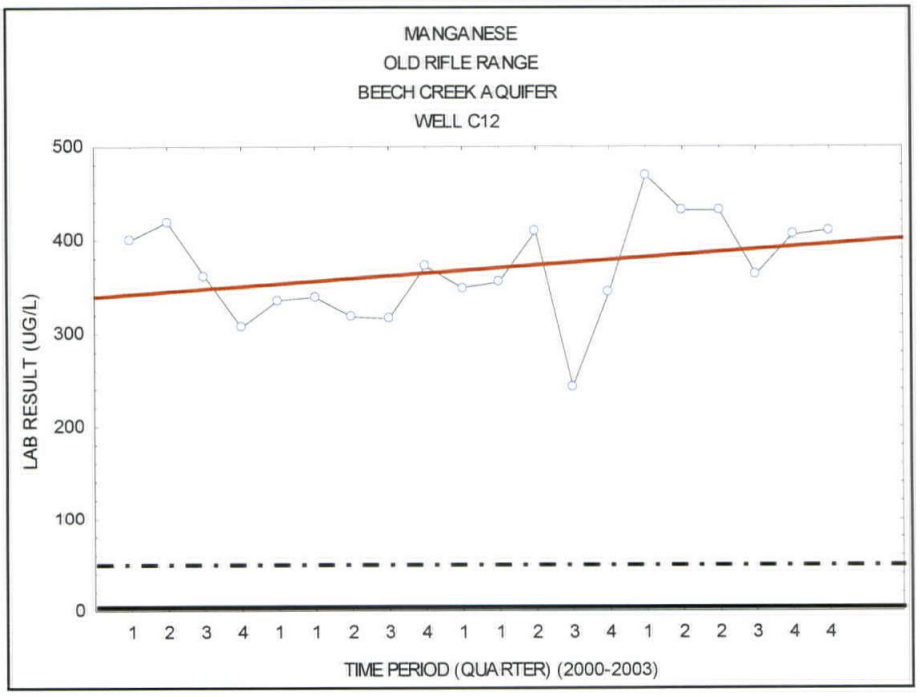


Figure 7.151.

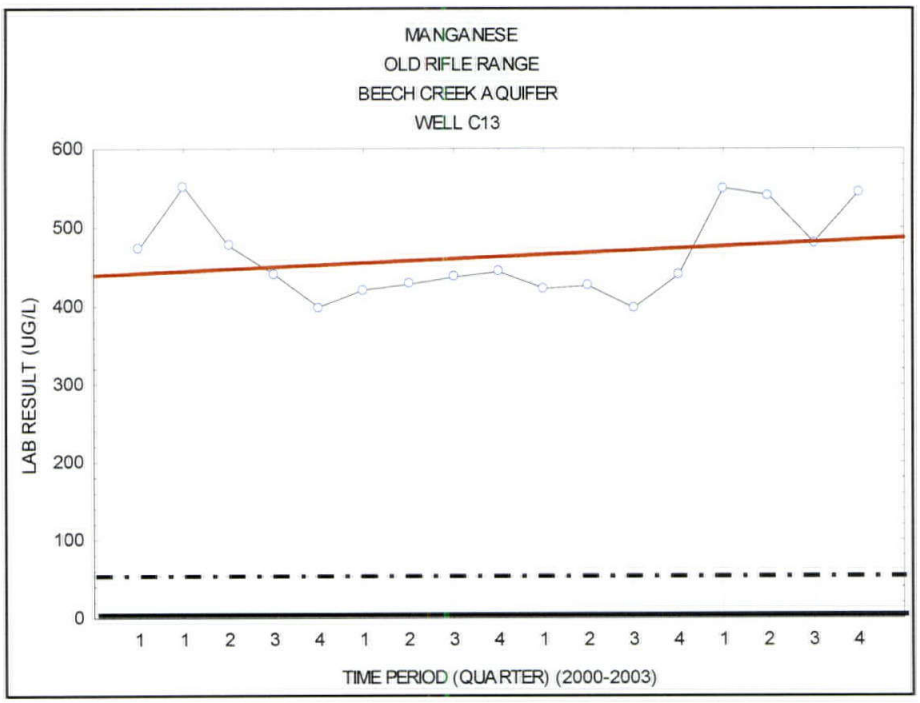


Figure 7.152.

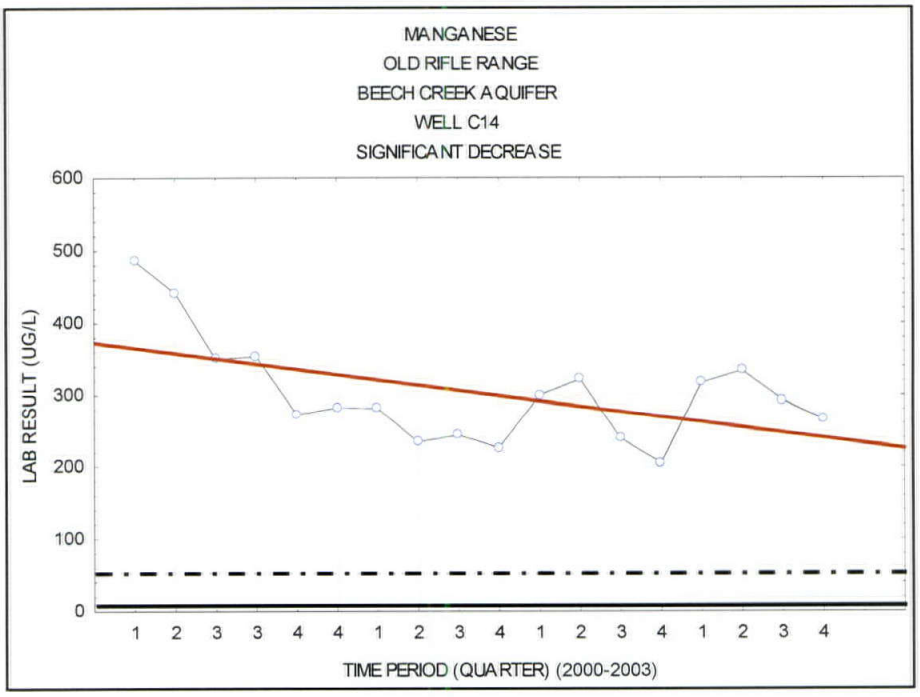


Figure 7.153.

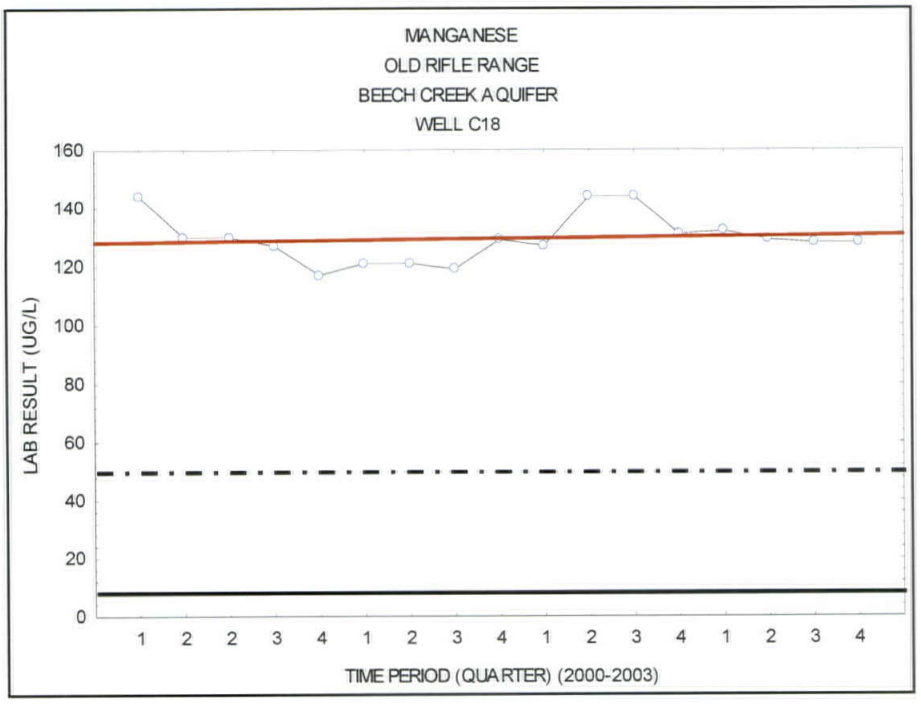


Figure 7.154.

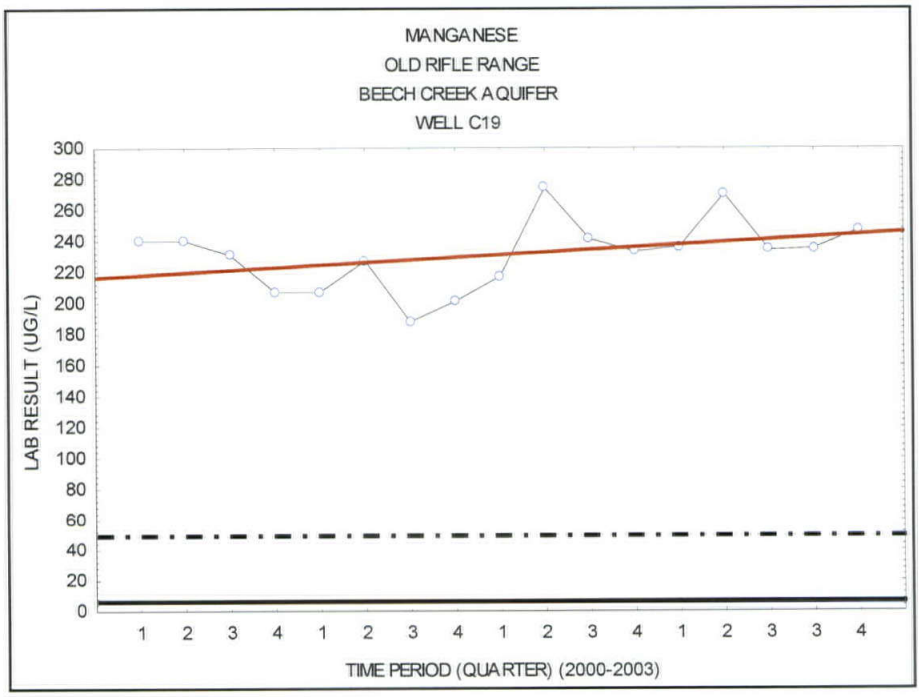


Figure 7.155.

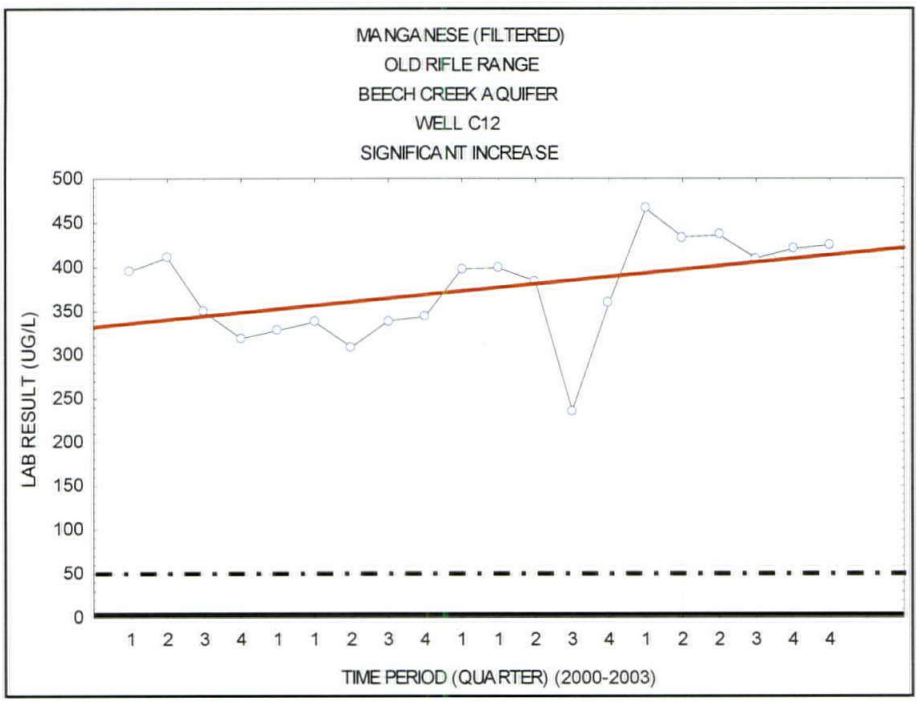


Figure 7.156.

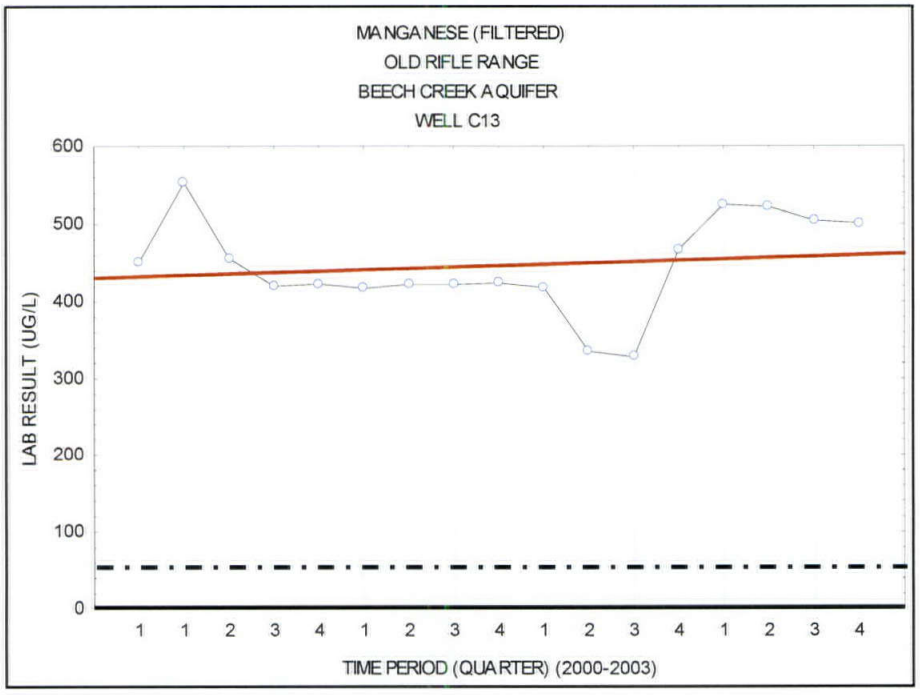


Figure 7.157.

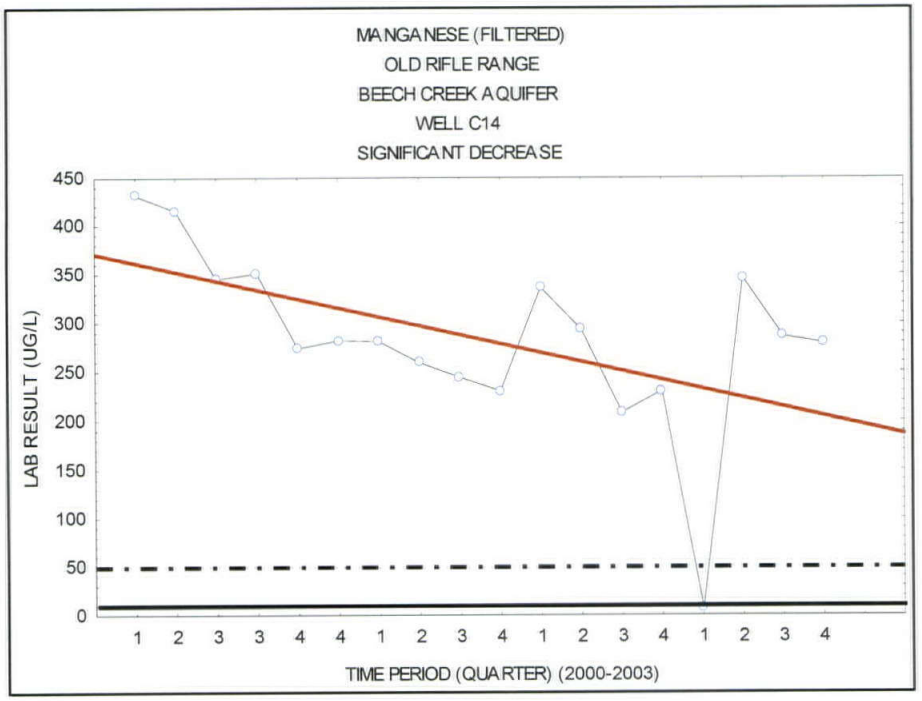


Figure 7.158.

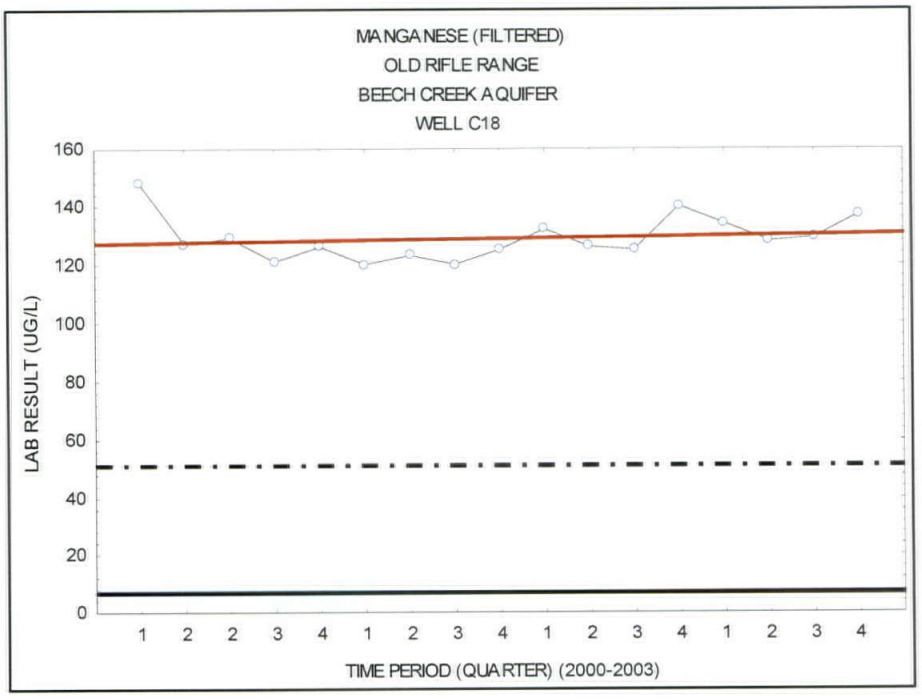


Figure 7.159.

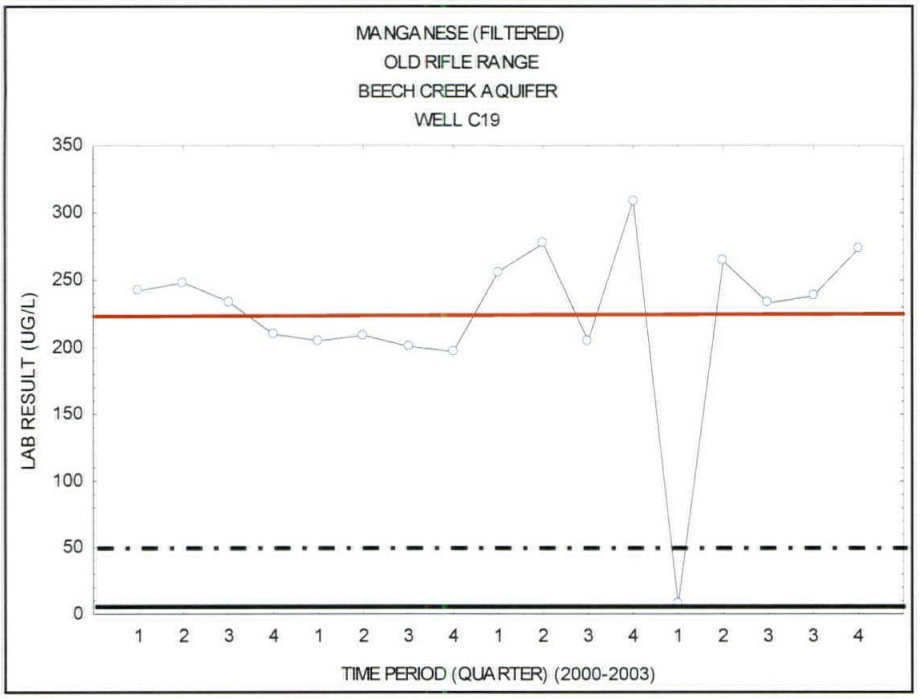


Figure 7.160.

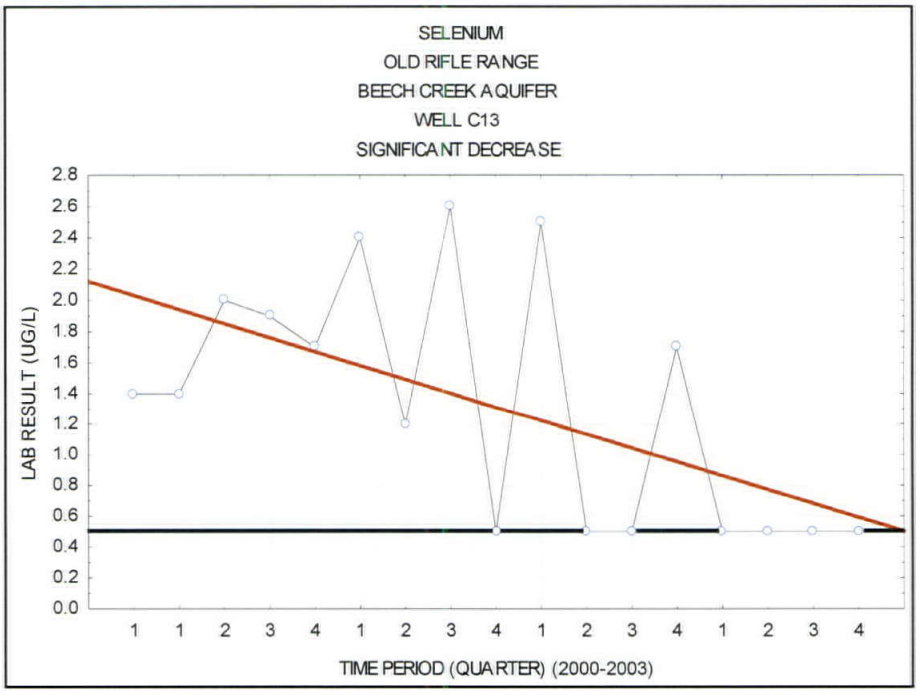


Figure 7.161.

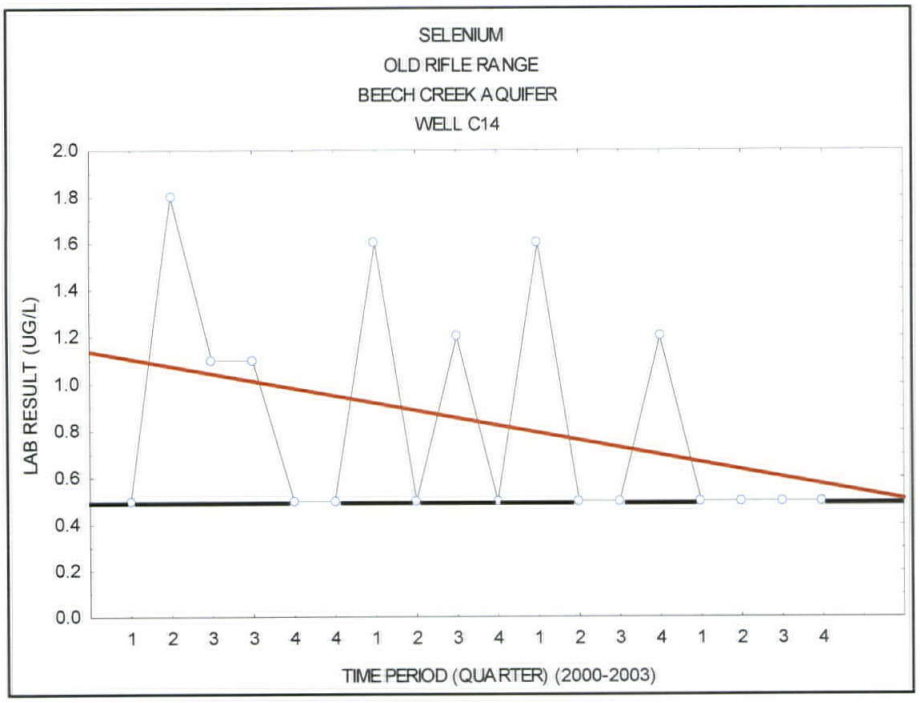


Figure 7.162.

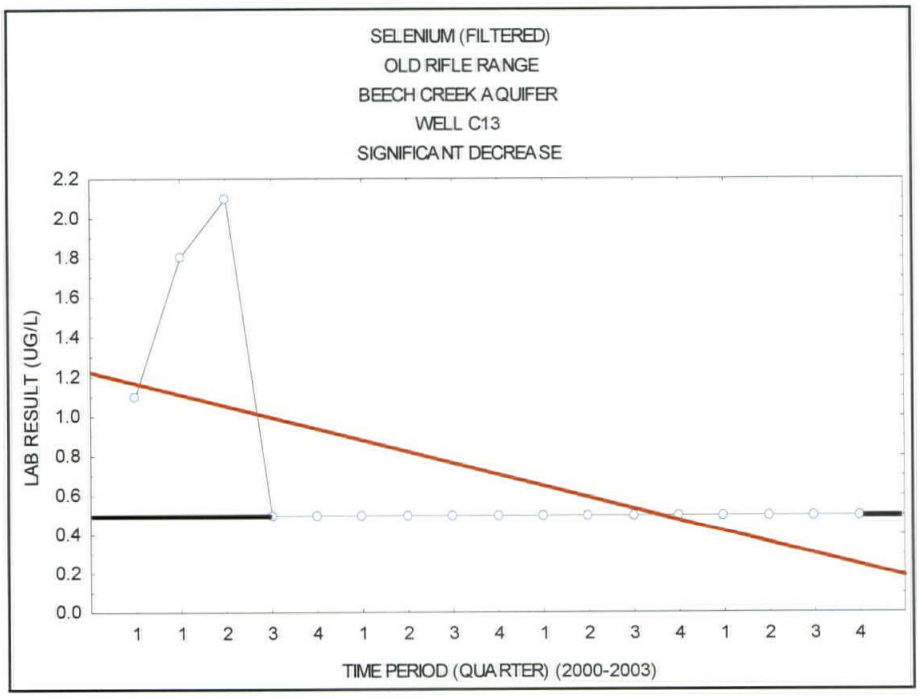


Figure 7.163.

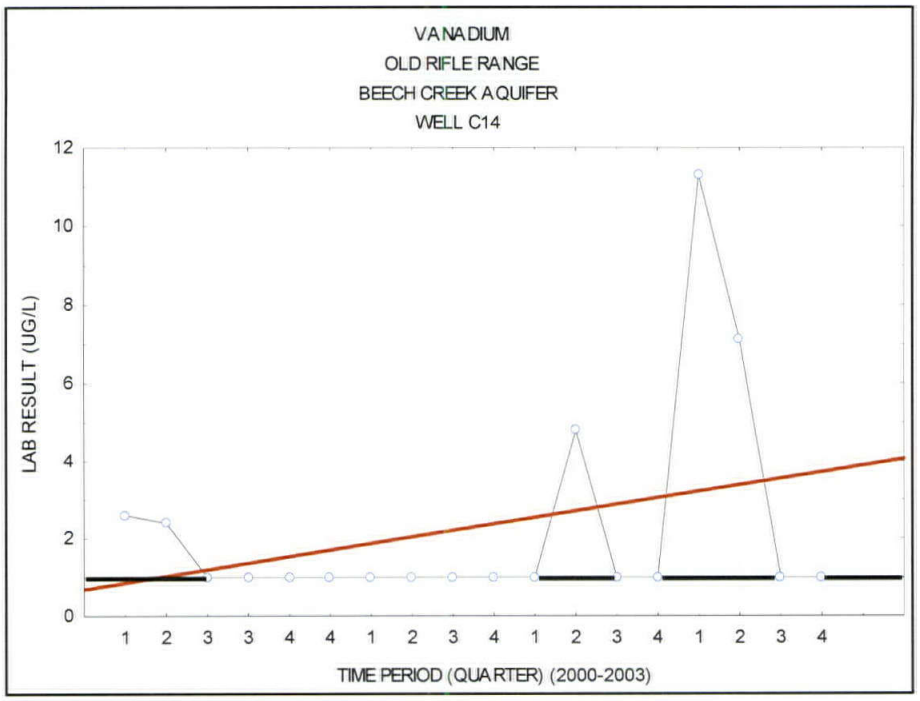


Figure 7.164.

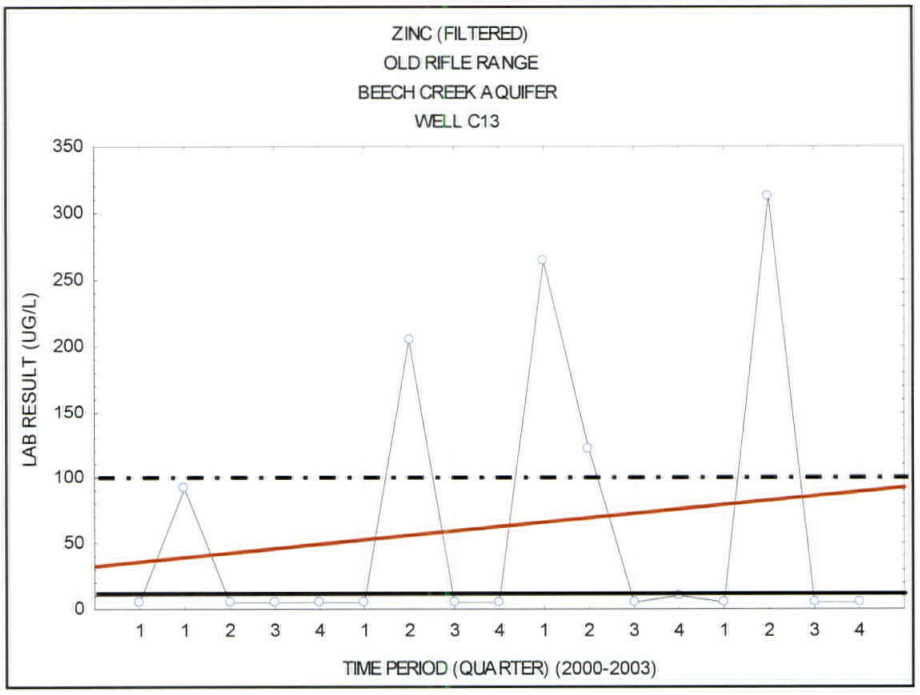


Figure 7.165.

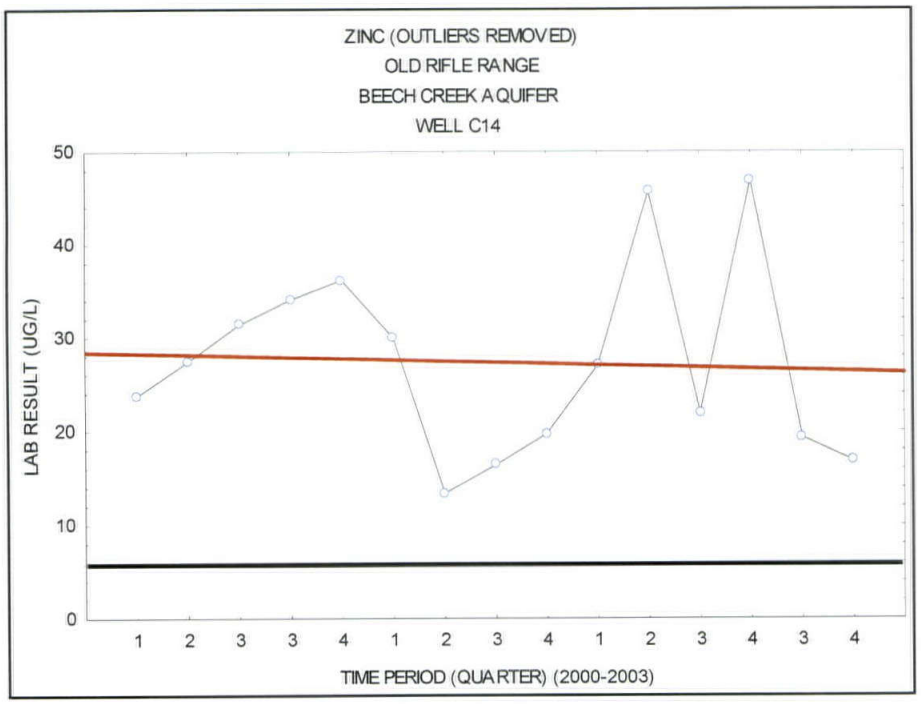

ZINC (OUTLIERS REMOVED)
OLD RIFLE RANGE
BEECH CREEK AQUIFER
WELL C14
LAB RESULT (UG/L)
50
40
30
20
10
0
1 2 3 3 4 1 2 3 4 1 2 3 4 3 4
TIME PERIOD (QUARTER) (2000-2003)

Figure 7.166.

MISCELLANEOUS PARAMETERS
OLD RIFLE RANGE BEECH CREEK AQUIFER

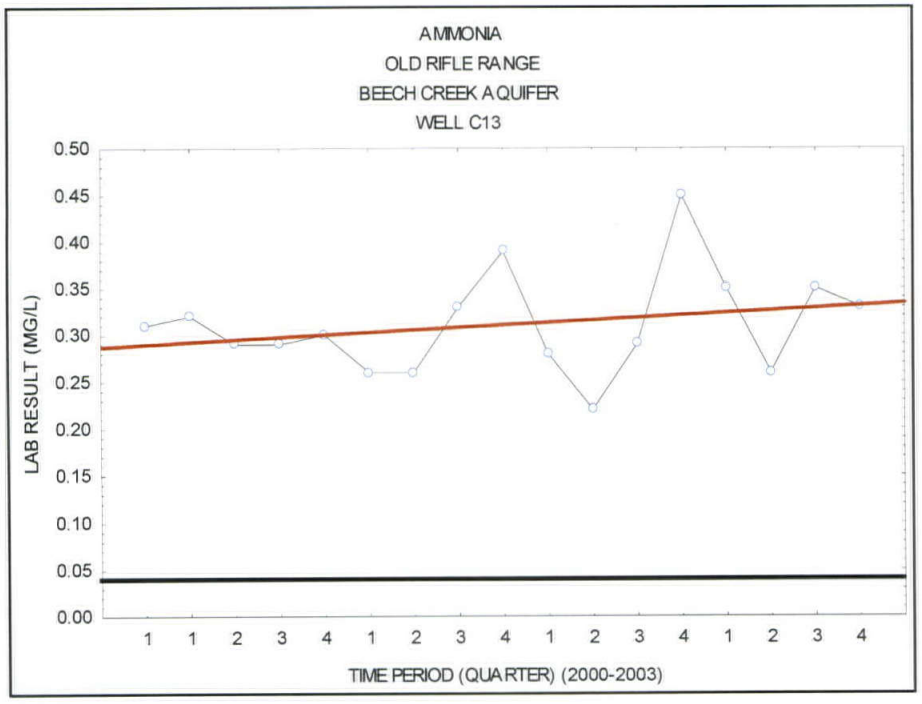


Figure 7.167.

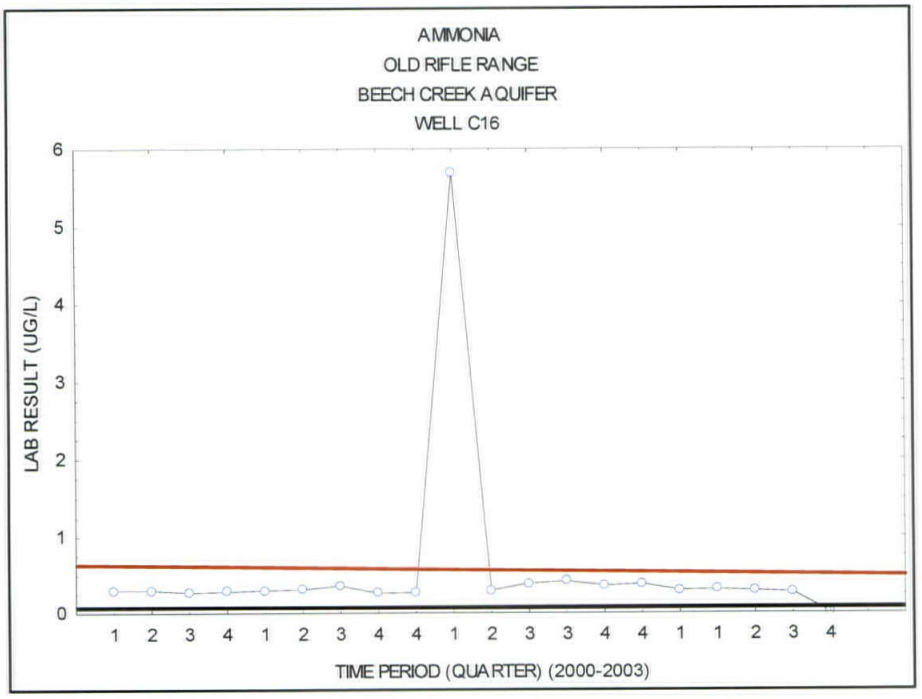


Figure 7.168.

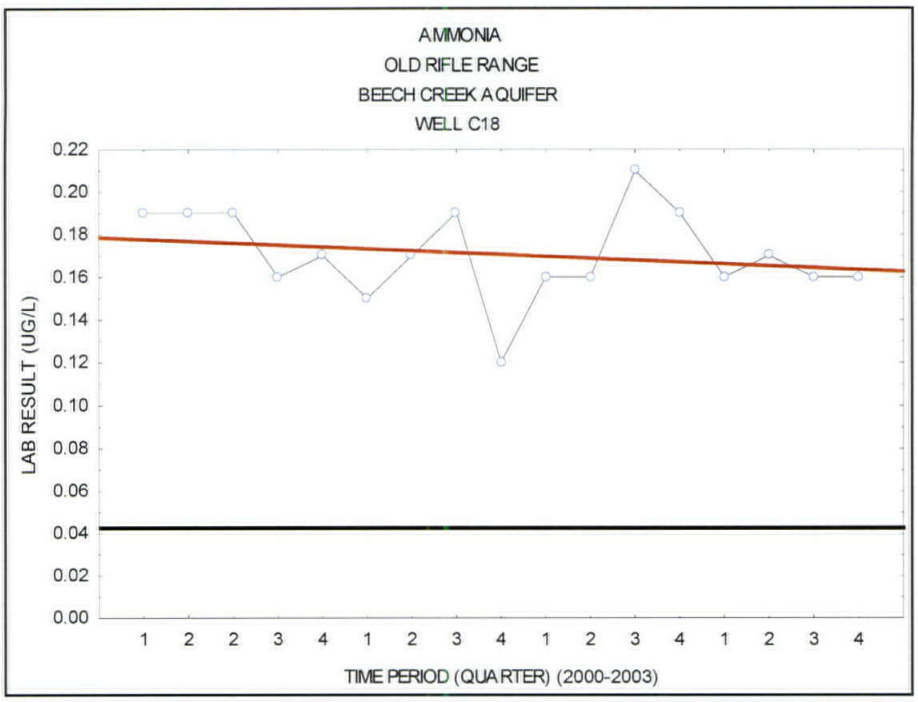
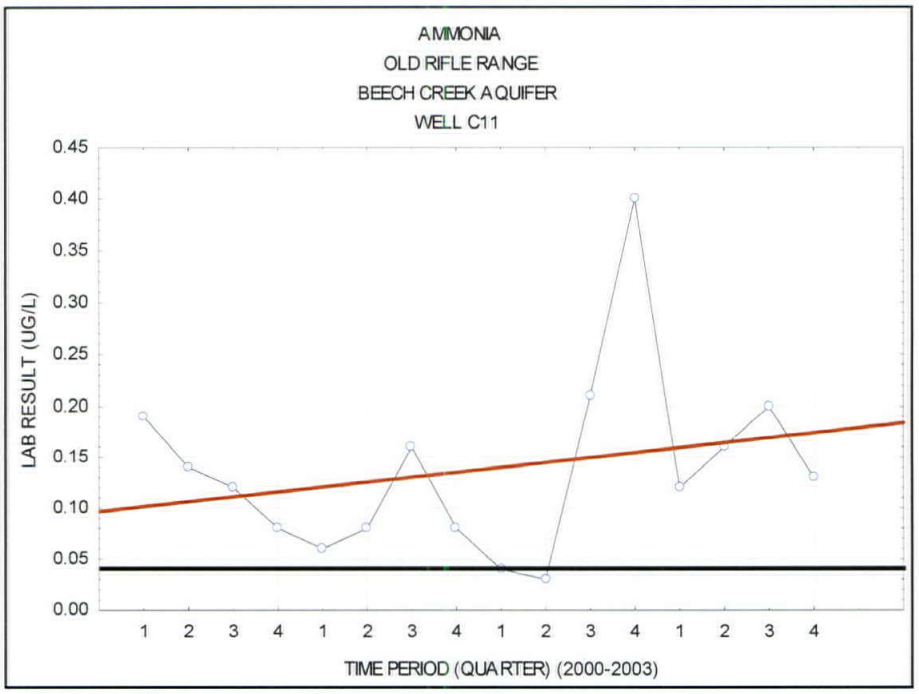
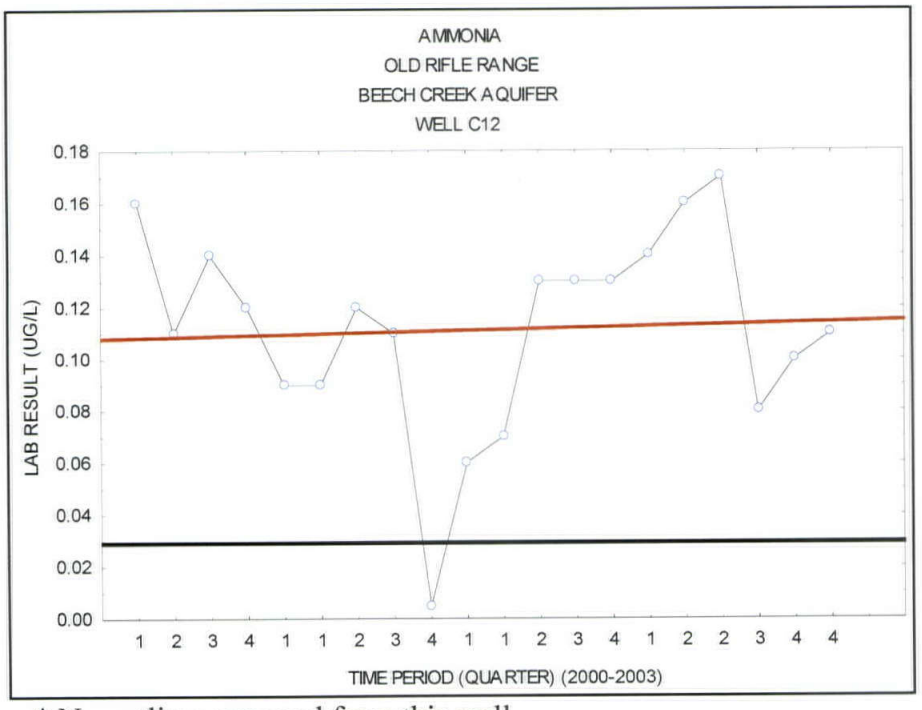


Figure 7.169.



* No outliers removed from this well.

Figure 7.170.



* No outliers removed from this well.

Figure 7.171.

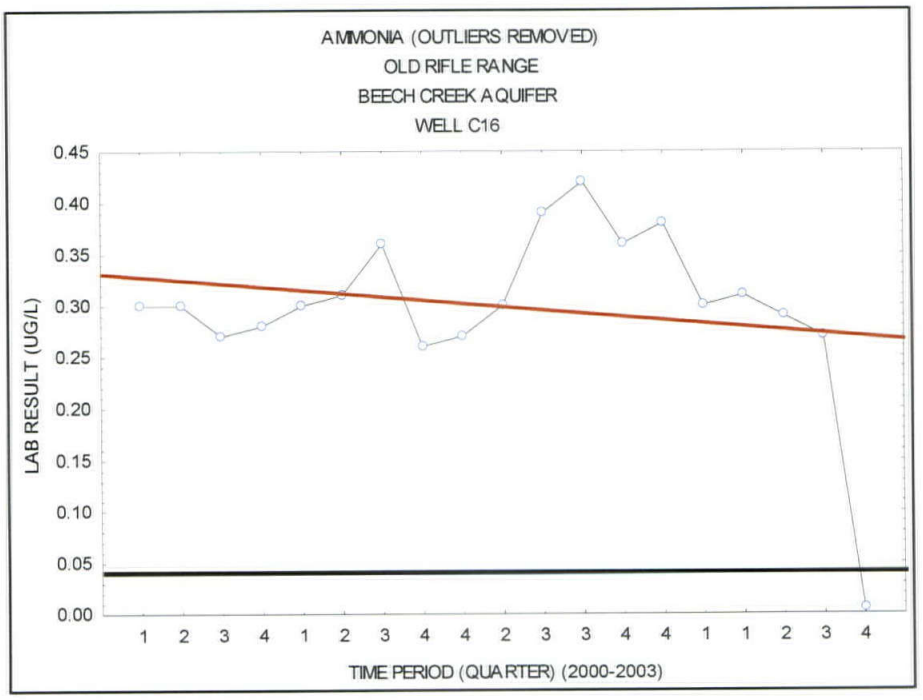


Figure 7.172.

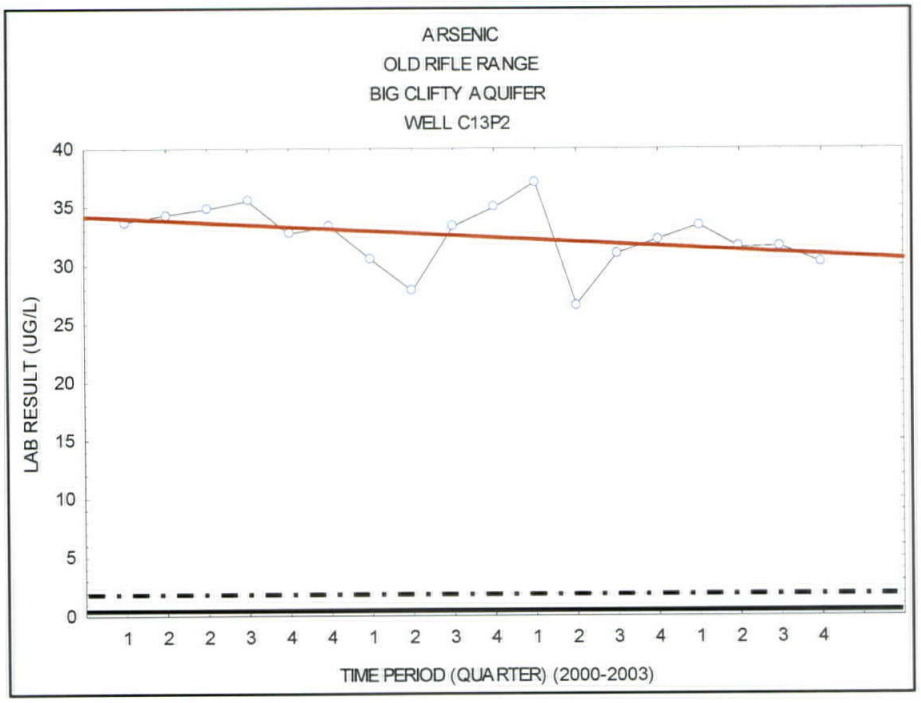


Figure 7.173.

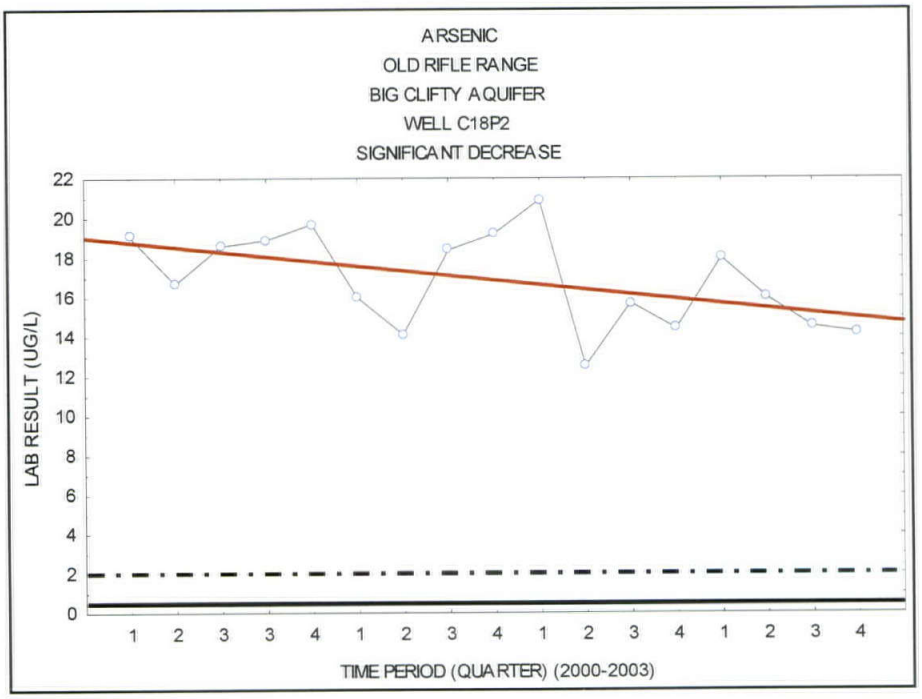


Figure 7.174.

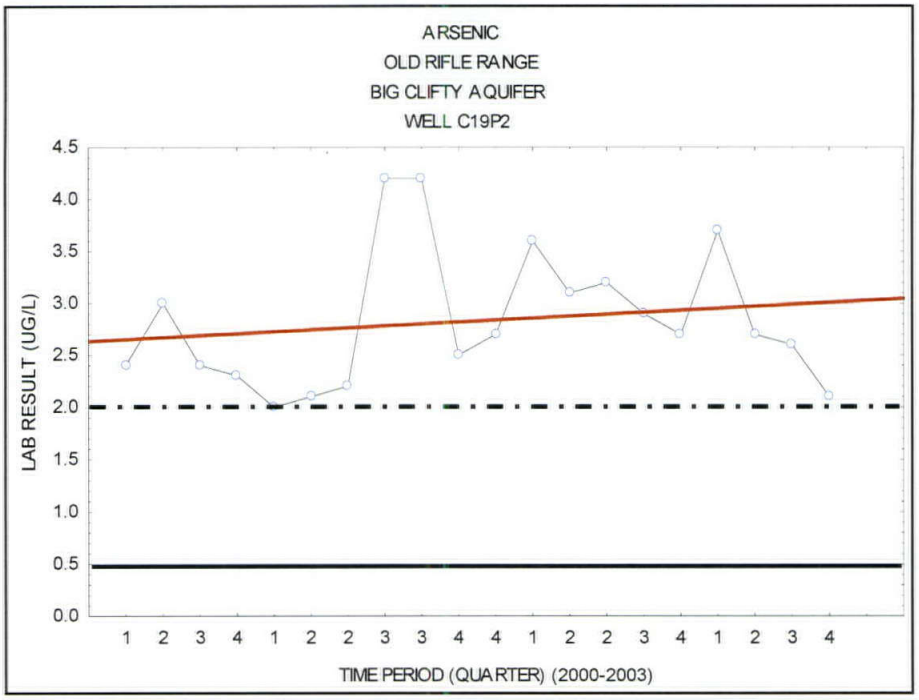


Figure 7.175.

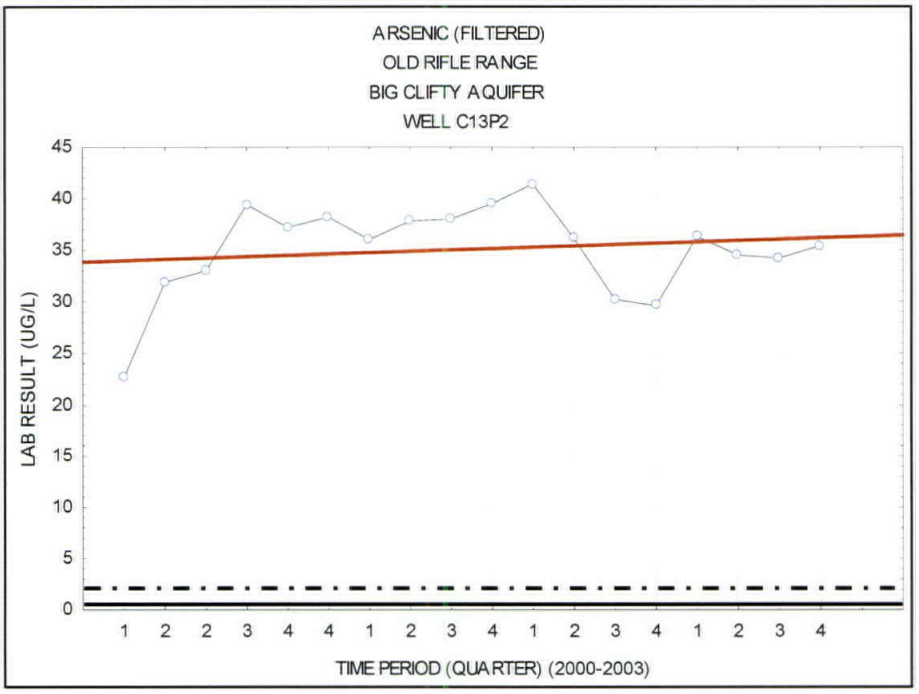


Figure 7.176.

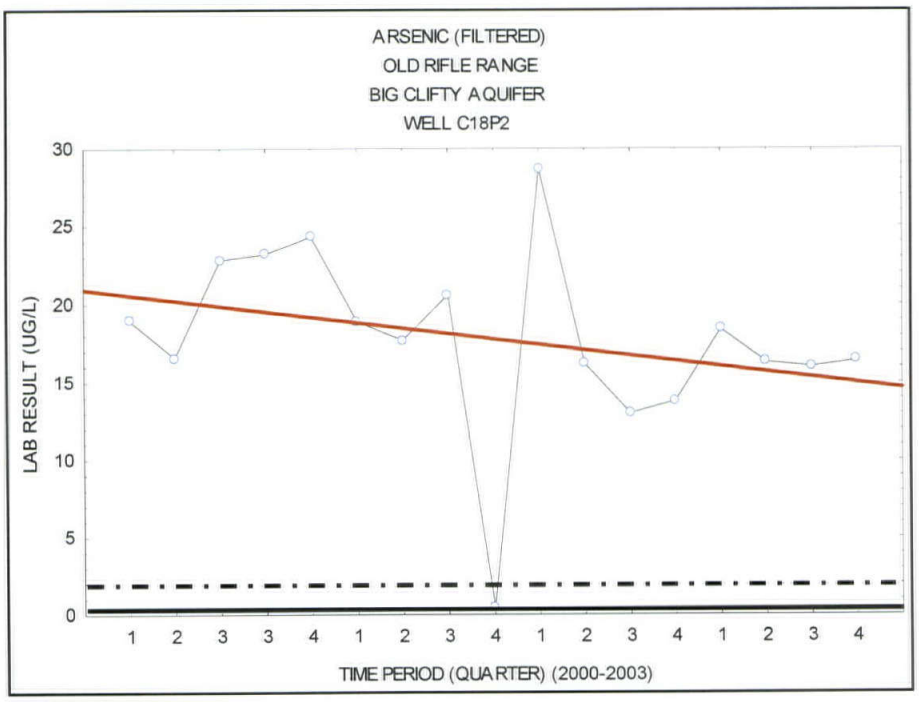


Figure 7.177.

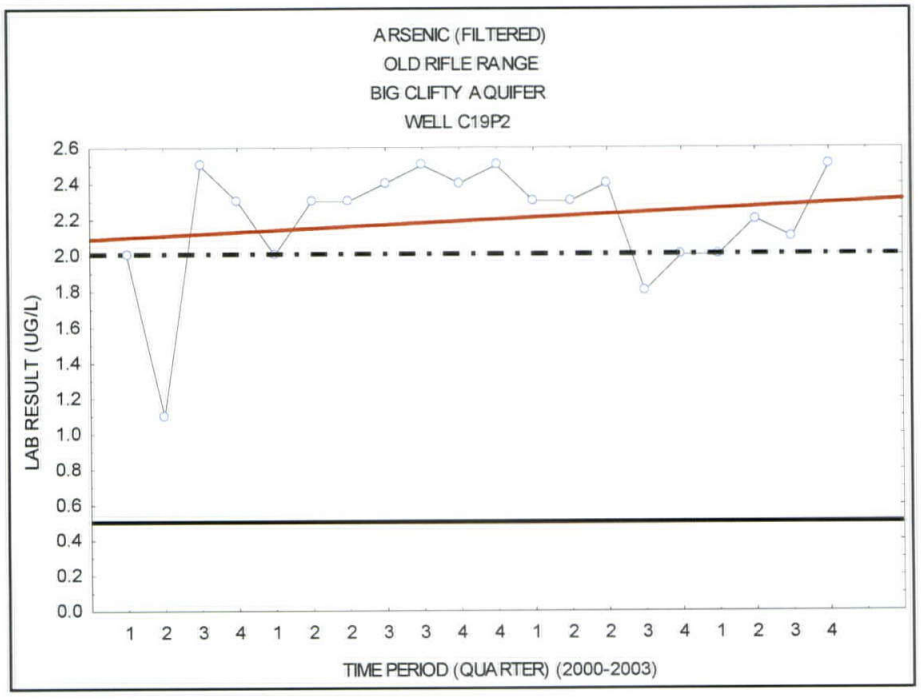


Figure 7.178.

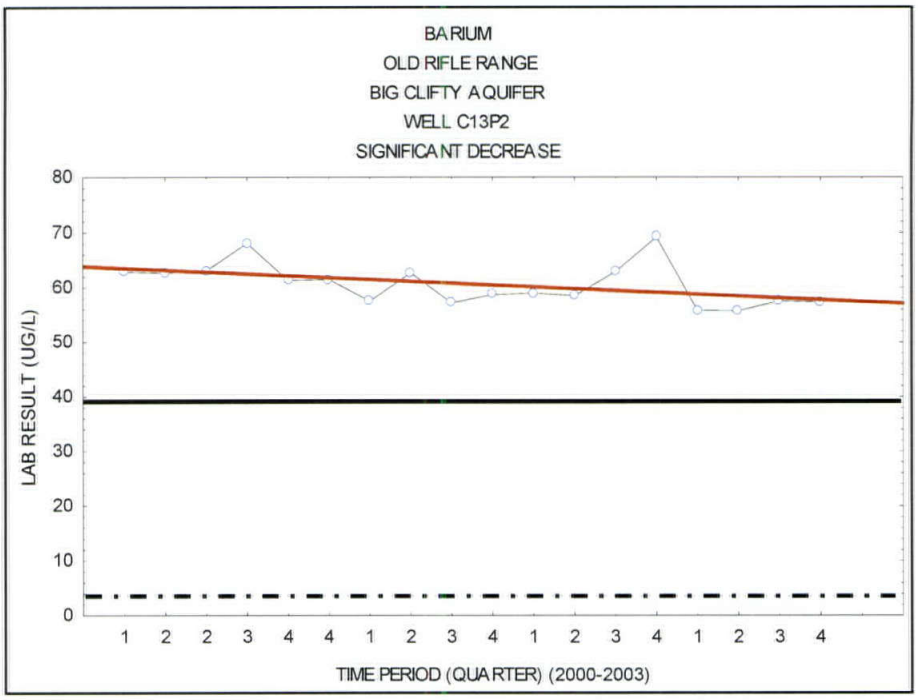


Figure 7.179.

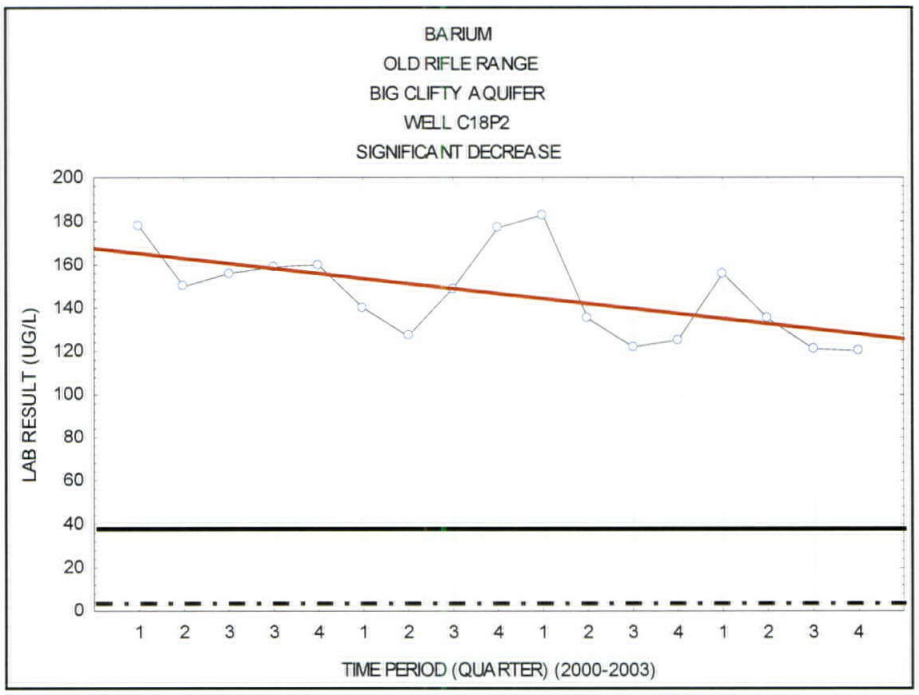


Figure 7.180.

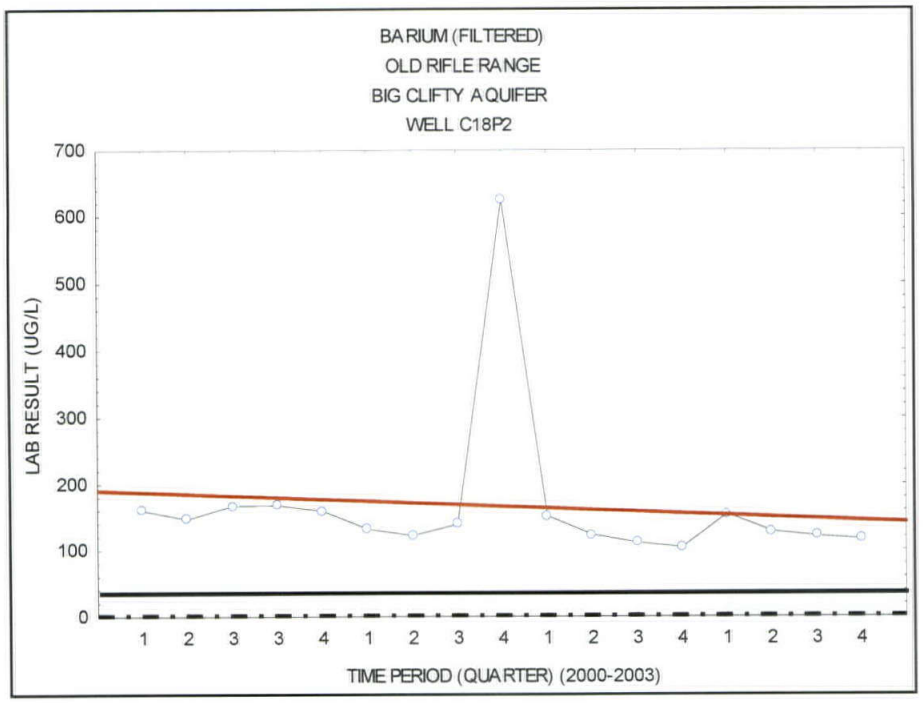
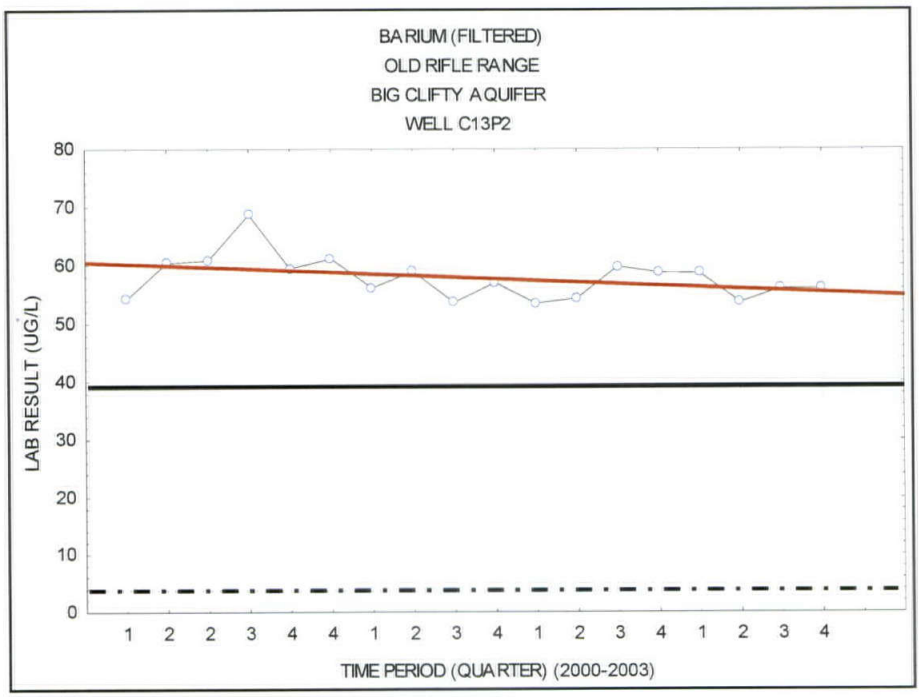


Figure 7.181.



* No outliers removed from this well.

Figure 7.182.

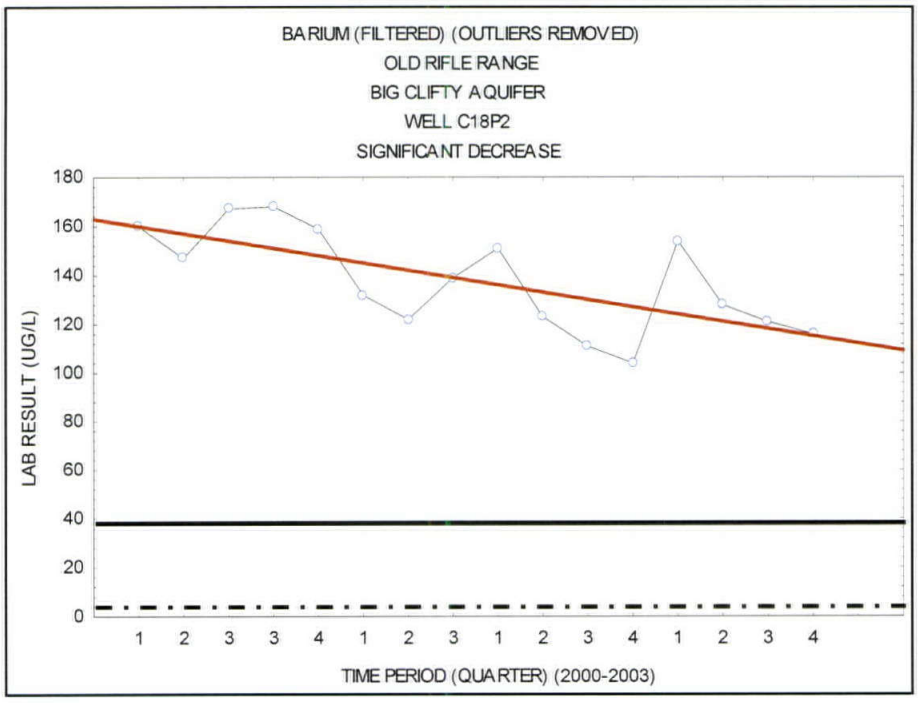


Figure 7.183.

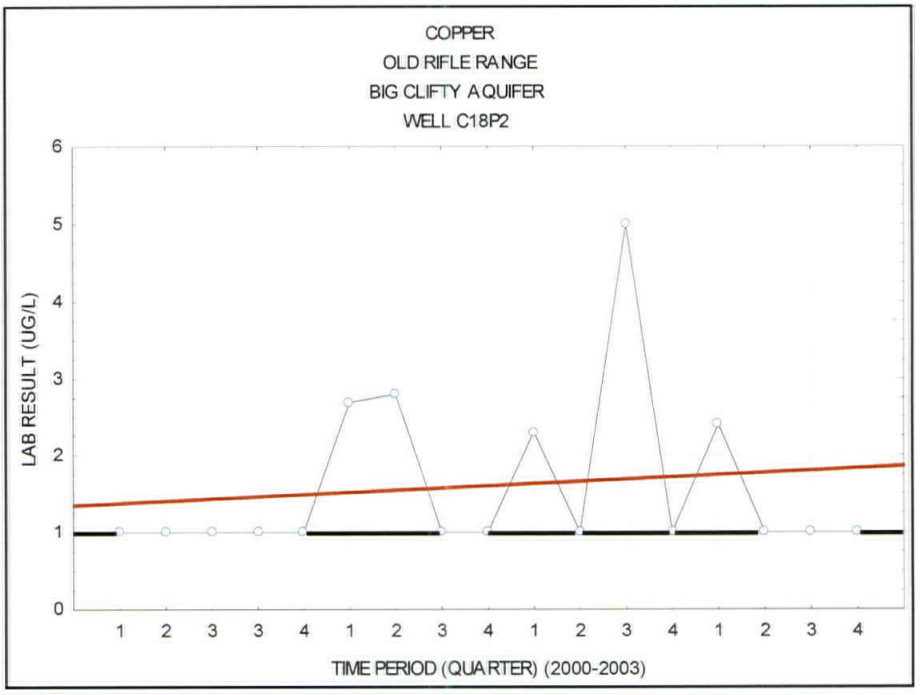


Figure 7.184.

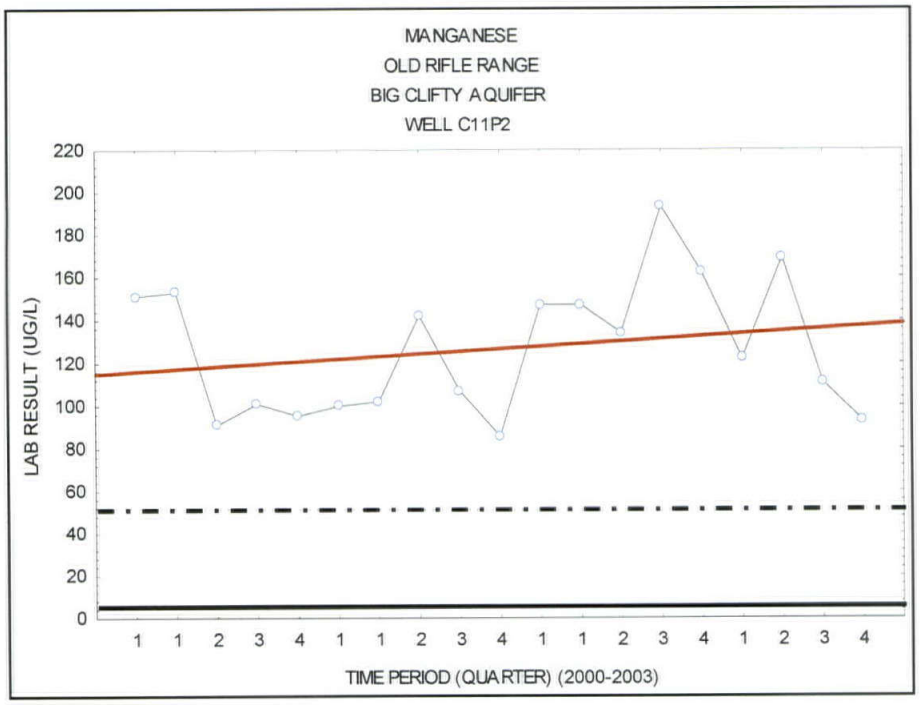


Figure 7.185.

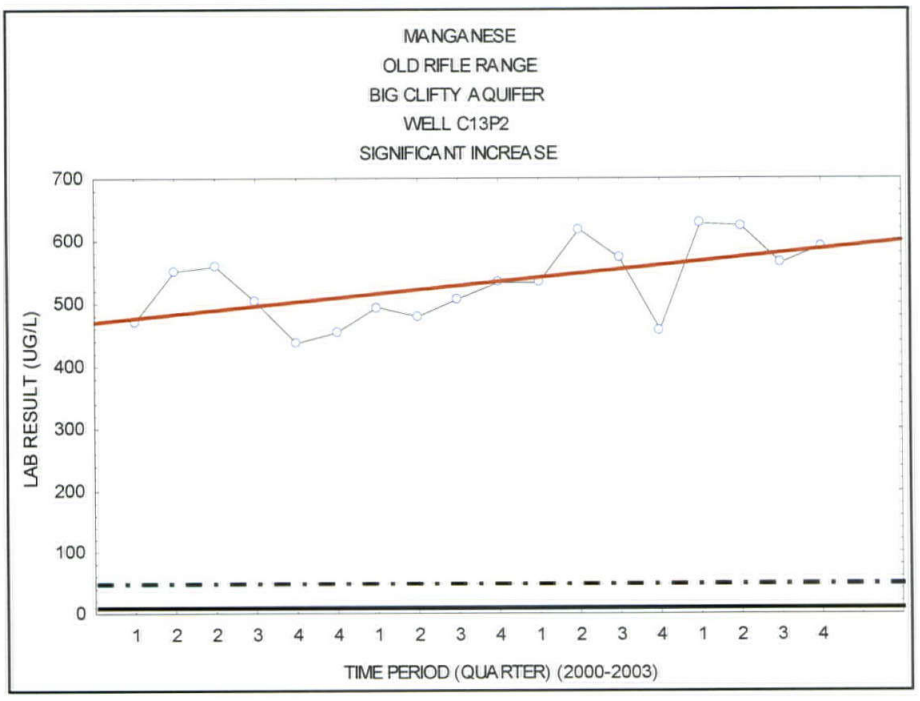


Figure 7.186.

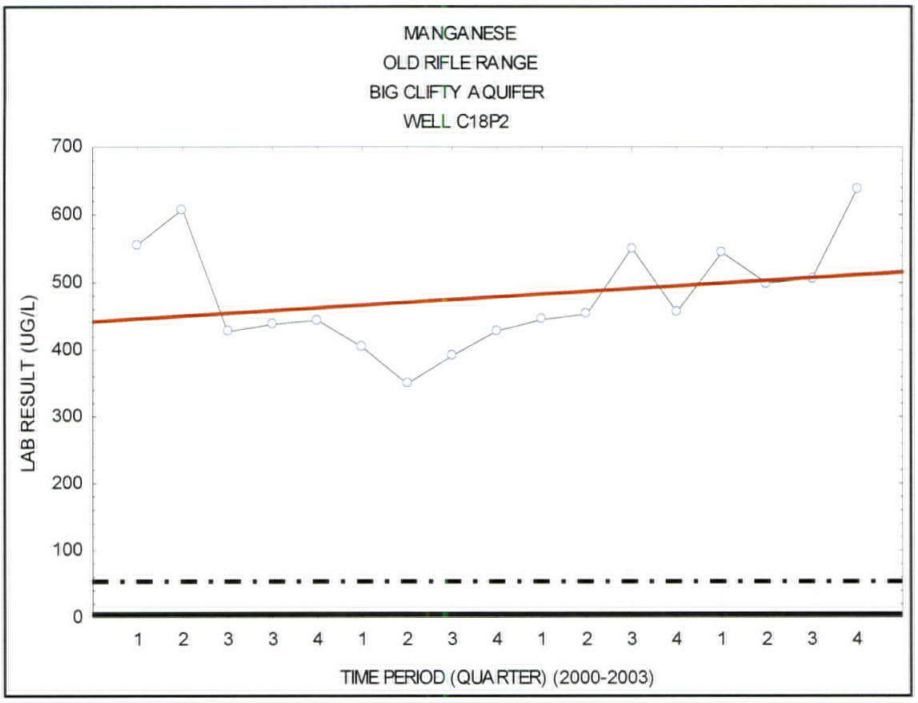


Figure 7.187.

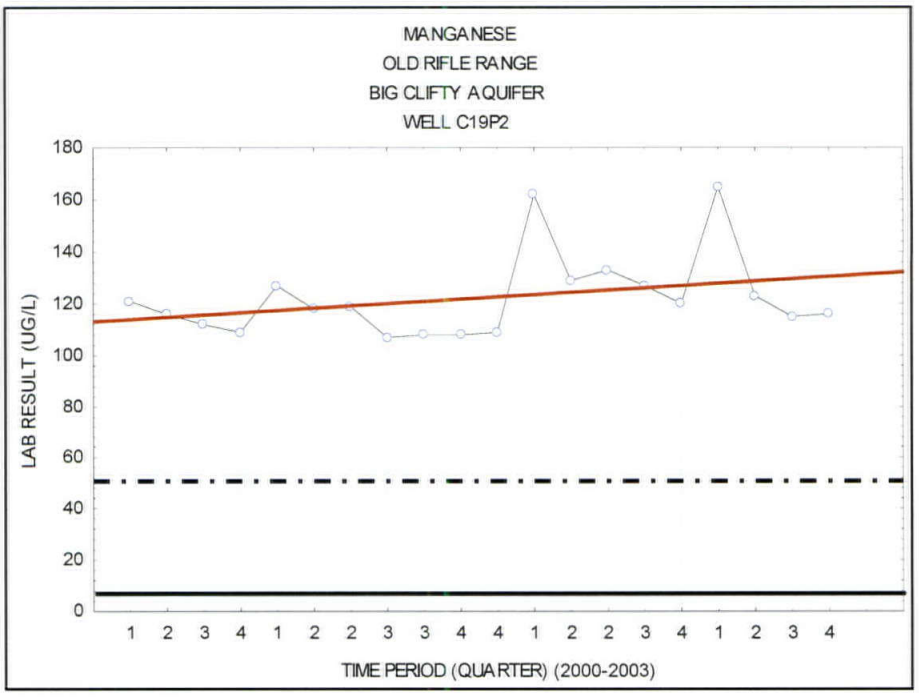


Figure 7.188.

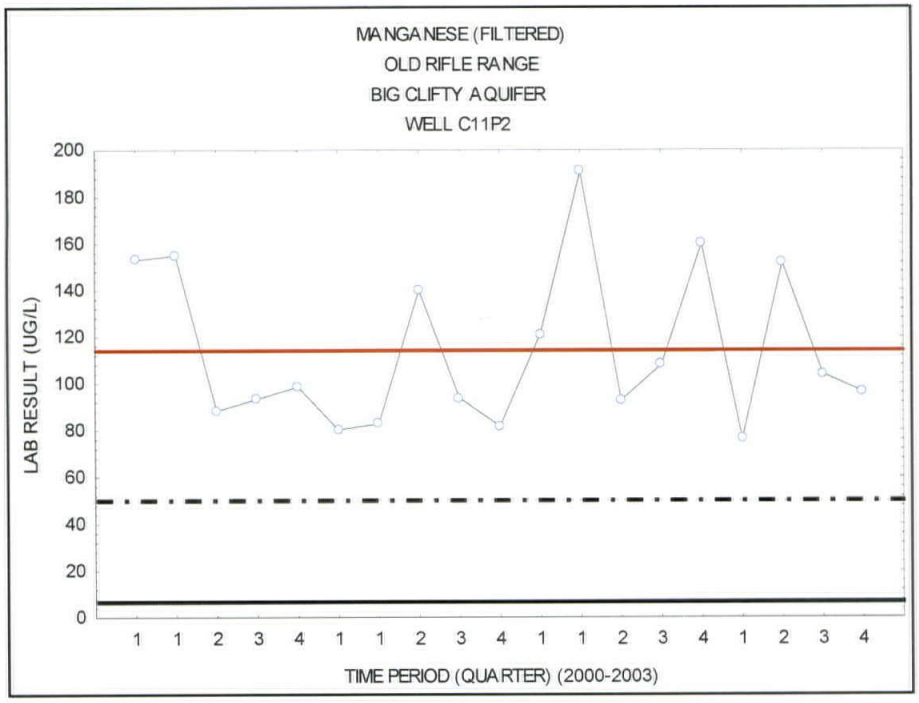


Figure 7.189.

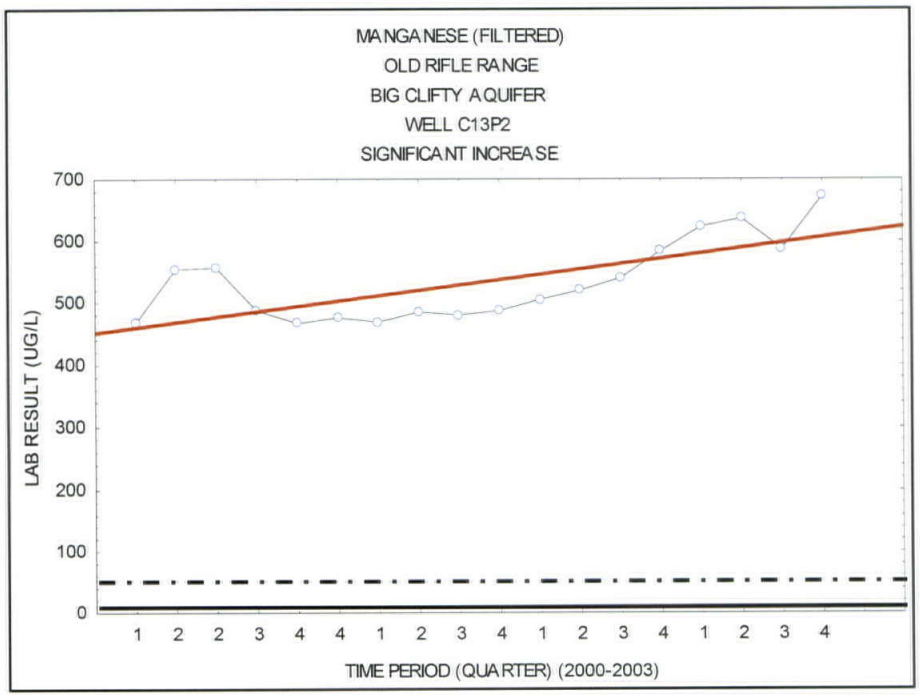


Figure 7.190.

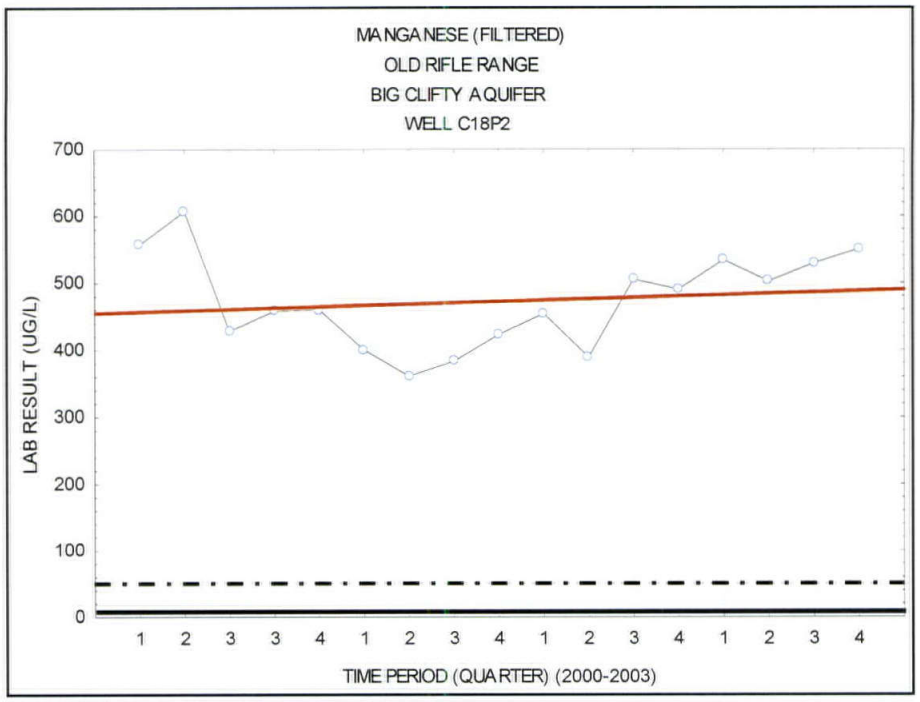


Figure 7.191.

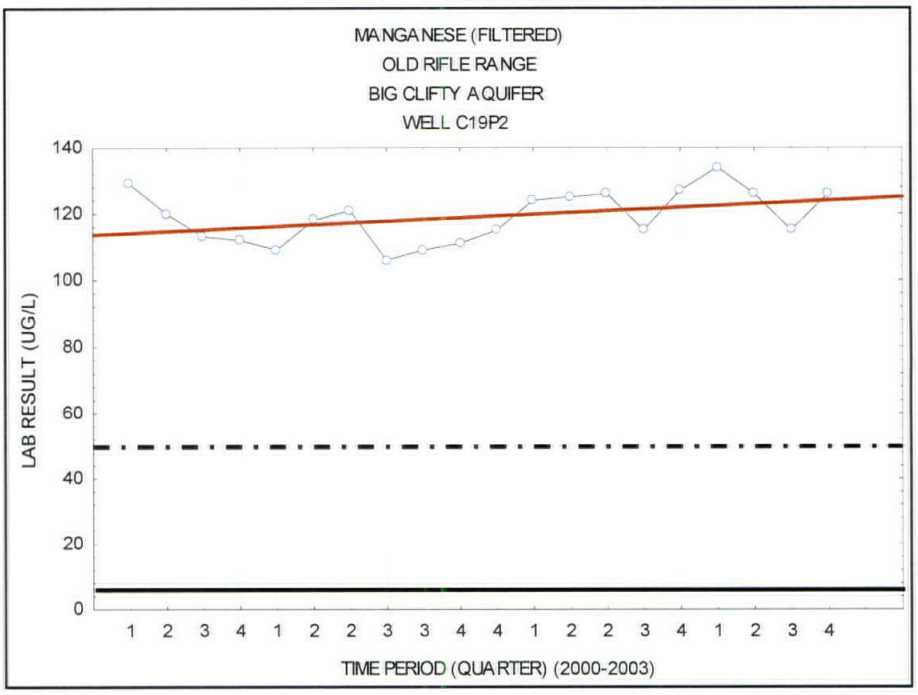


Figure 7.192.

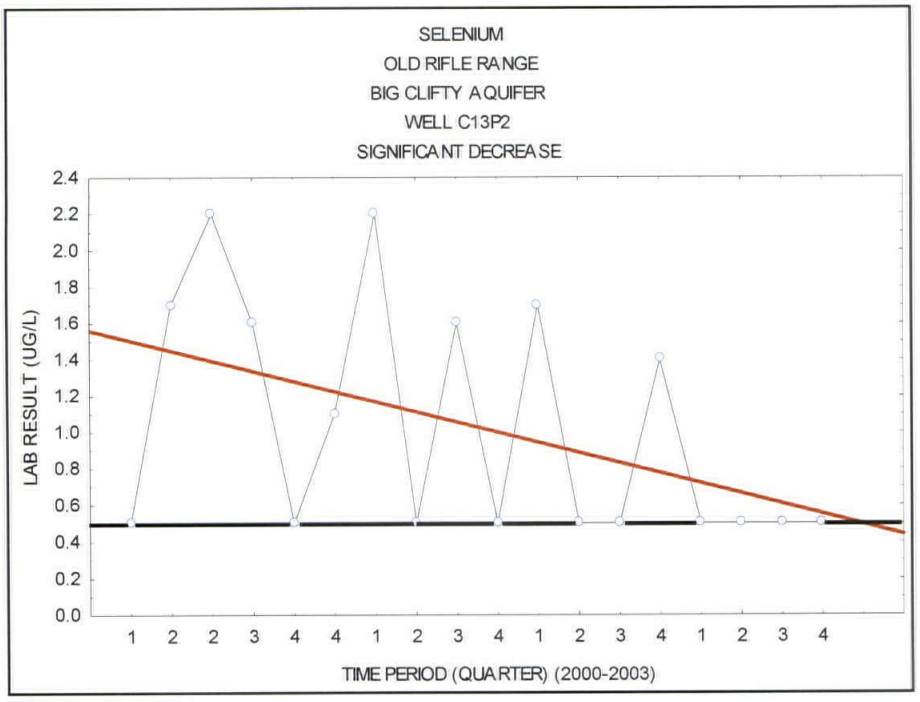


Figure 7.193.

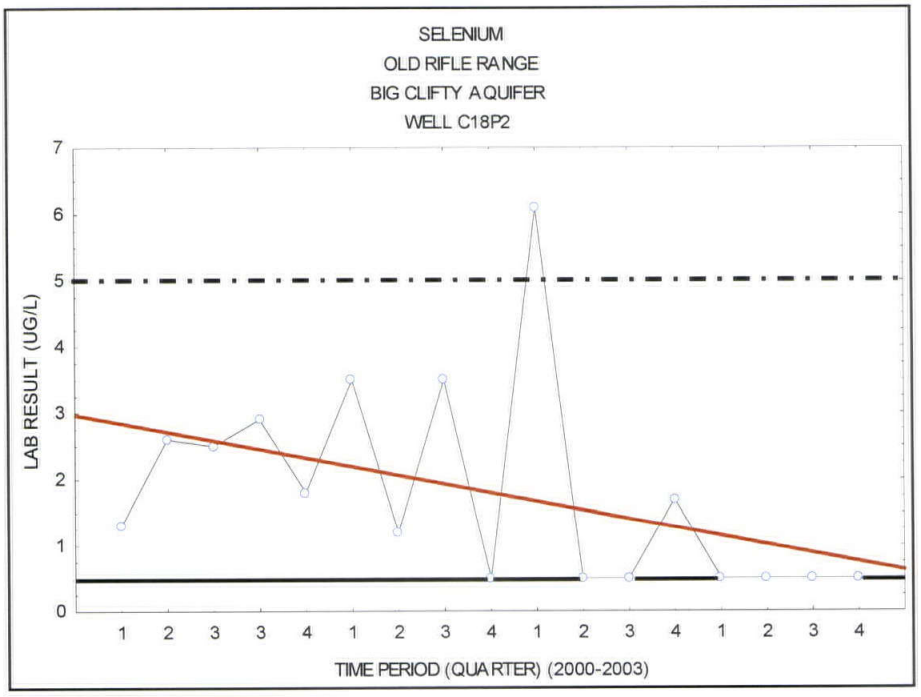


Figure 7.194.

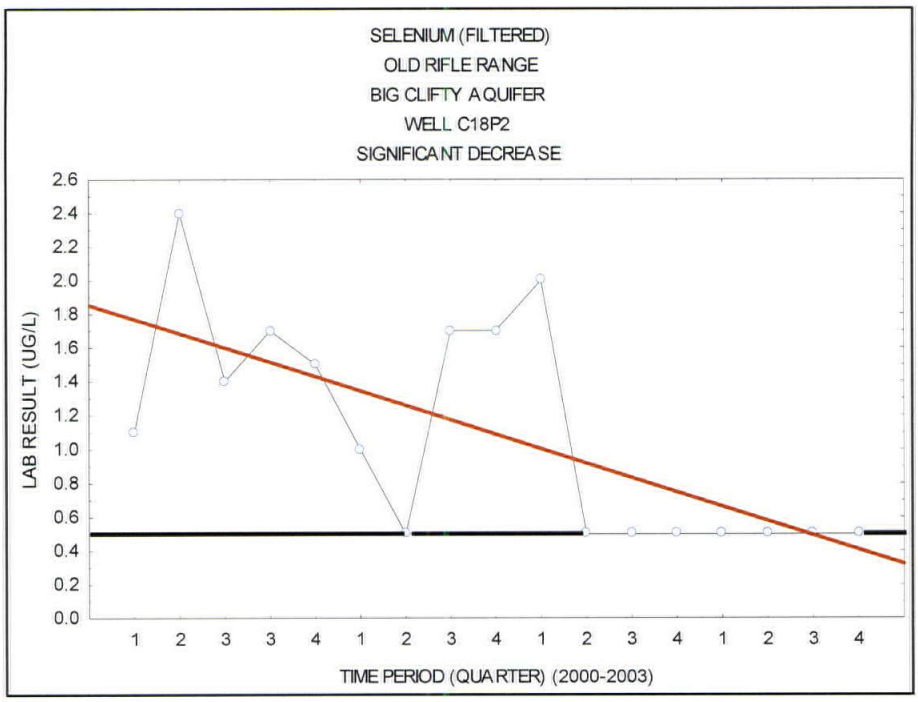

SELENIUM (FILTERED)
OLD RIFLE RANGE
BIG CLIFTY AQUIFER
WELL C18P2
SIGNIFICANT DECREASE
LAB RESULT (UG/L)
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
1 2 3 3 4 1 2 3 4 1 2 3 4 1 2 3 4
TIME PERIOD (QUARTER) (2000-2003)

Figure 7.195.

MISCELLANEOUS PARAMETERS
OLD RIFLE RANGE BIG CLIFTY AQUIFER

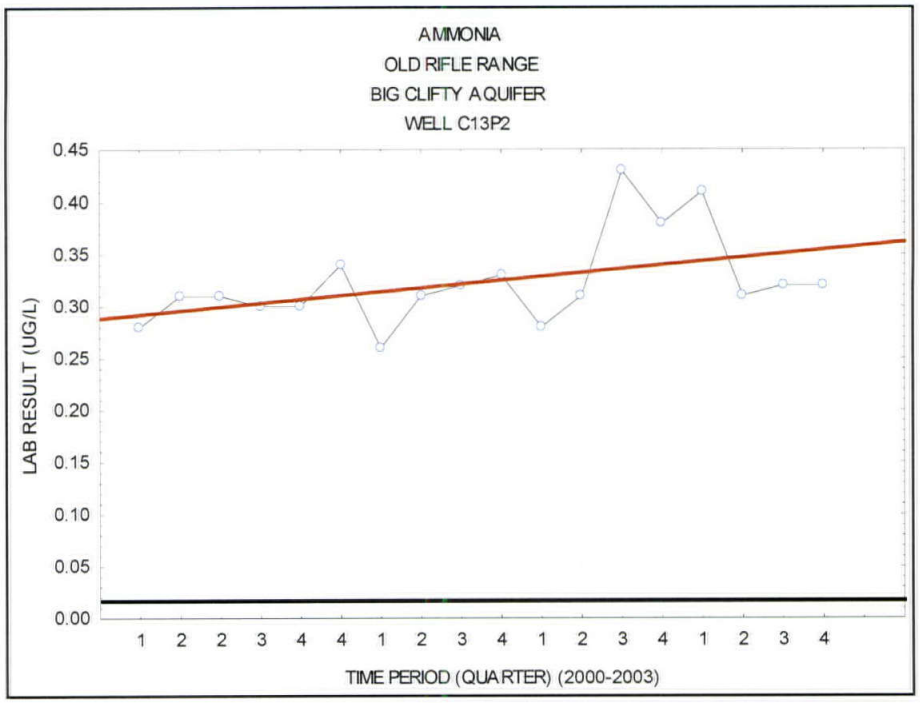


Figure 7.196.

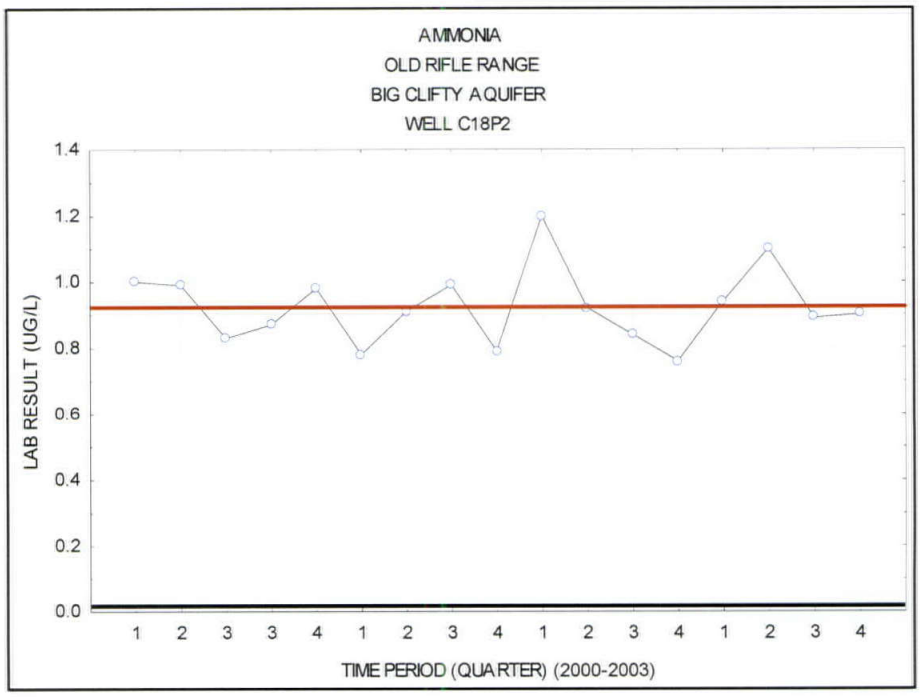


Figure 7.197.

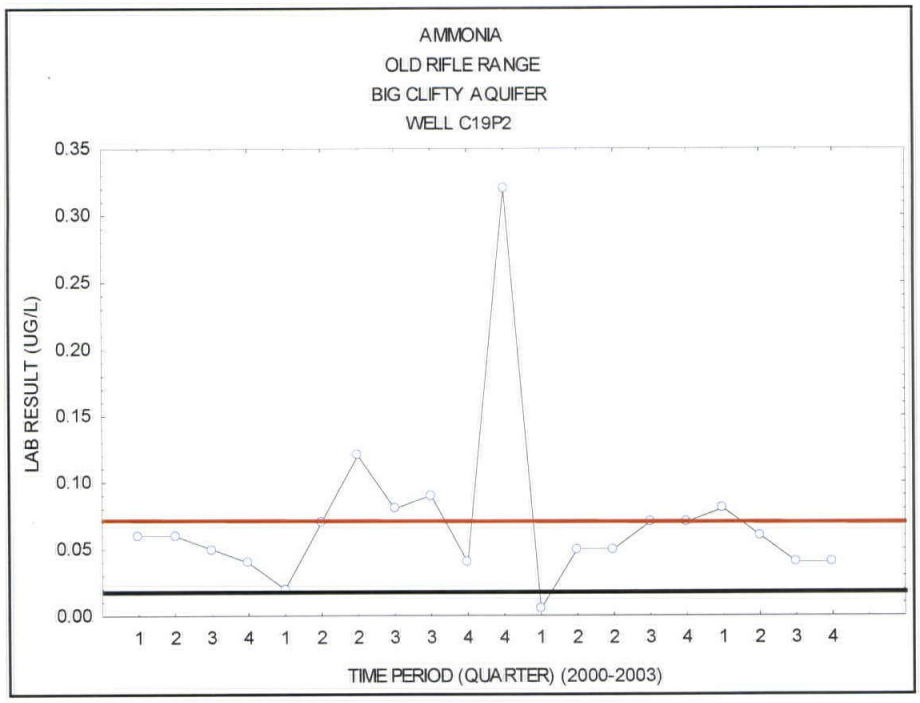


Figure 7.198.

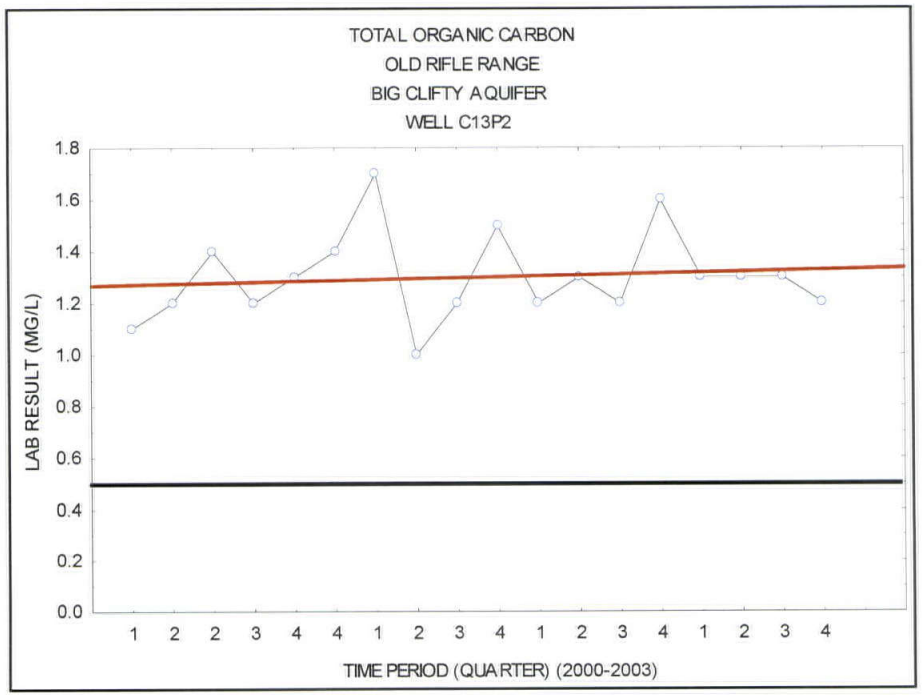


Figure 7.199.

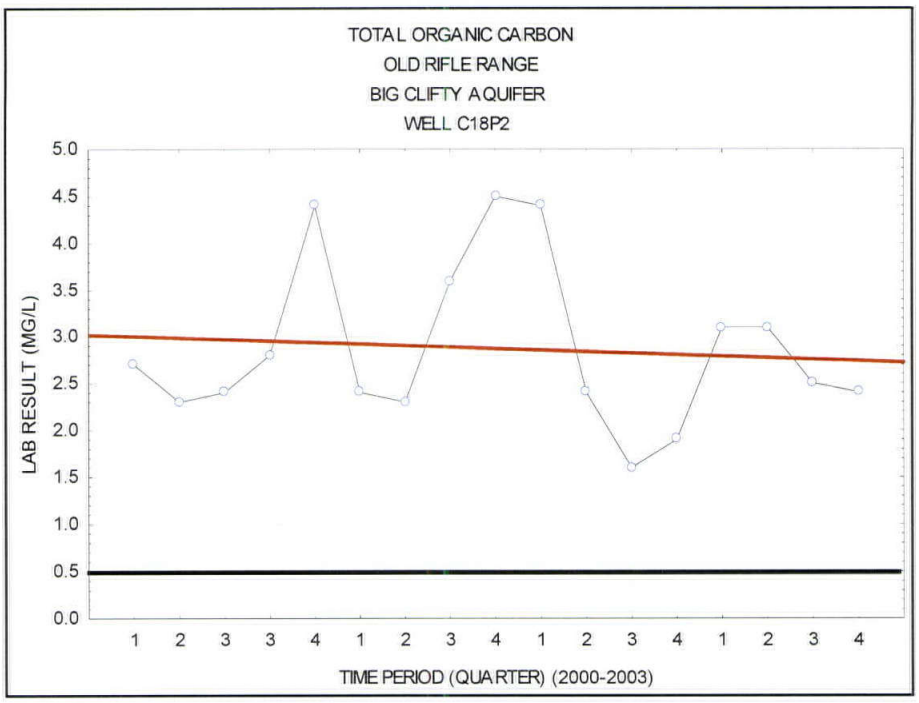


Figure 7.200.

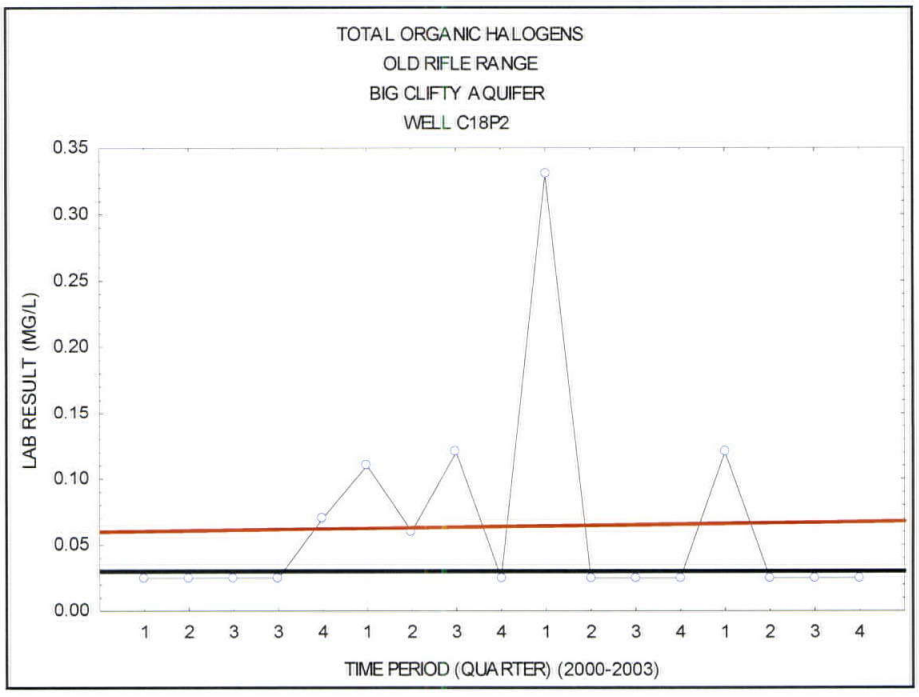


Figure 7.201.

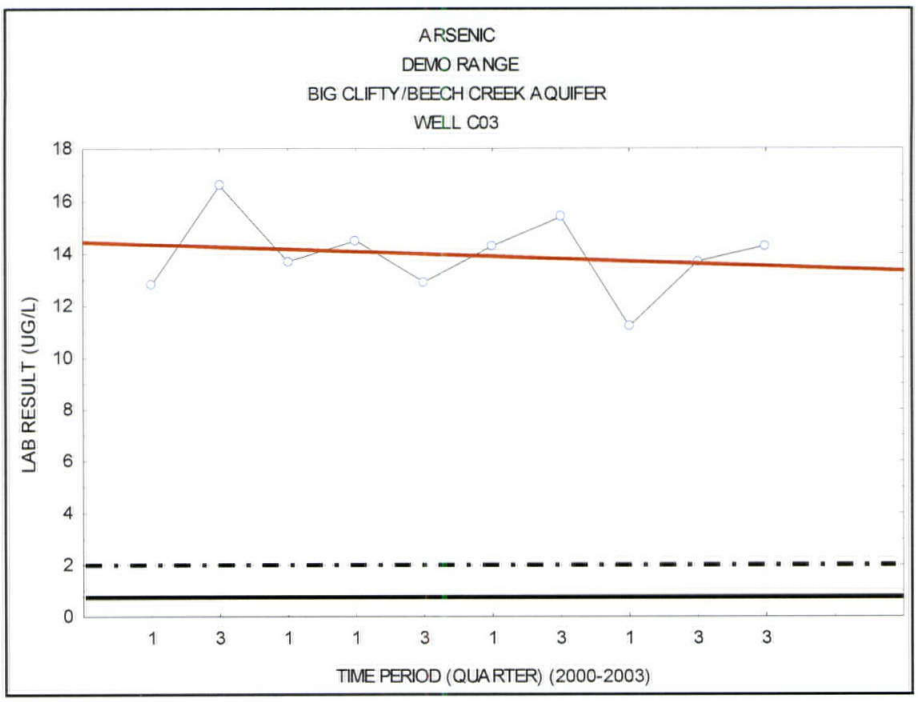


Figure 7.202.

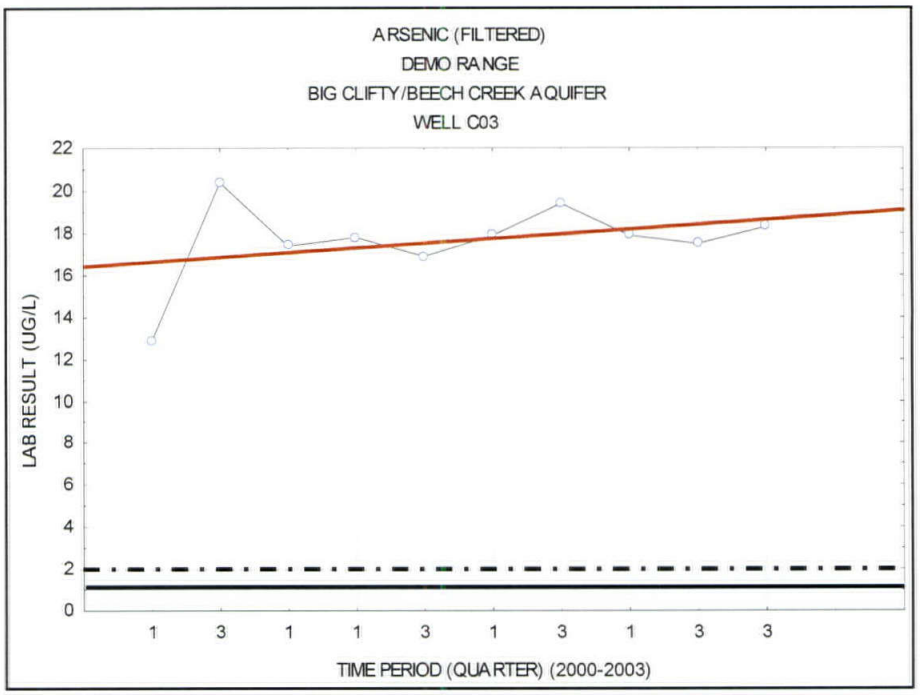


Figure 7.203.

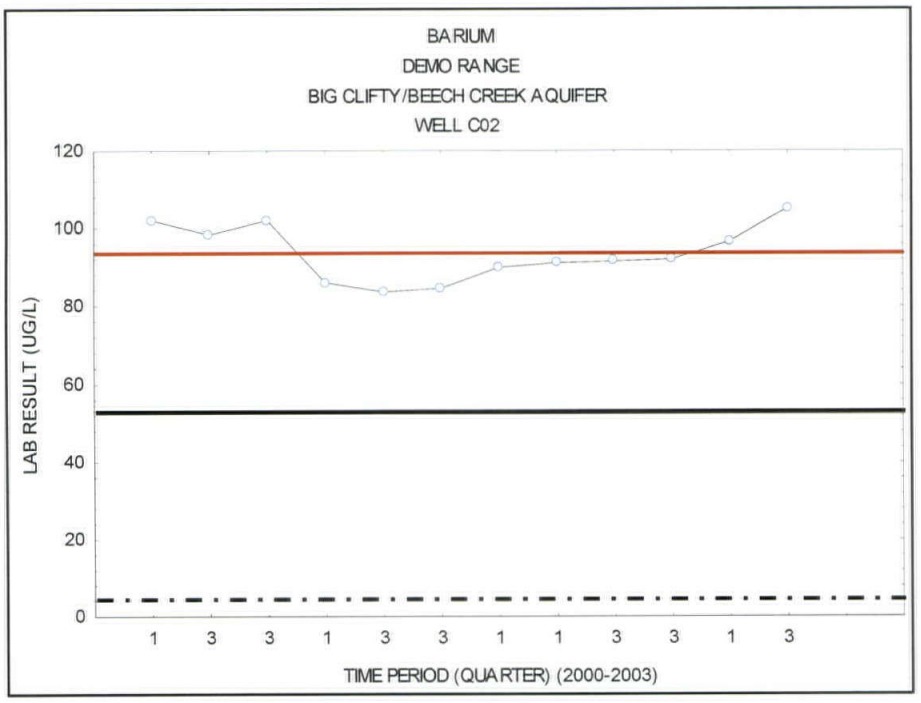


Figure 7.204.

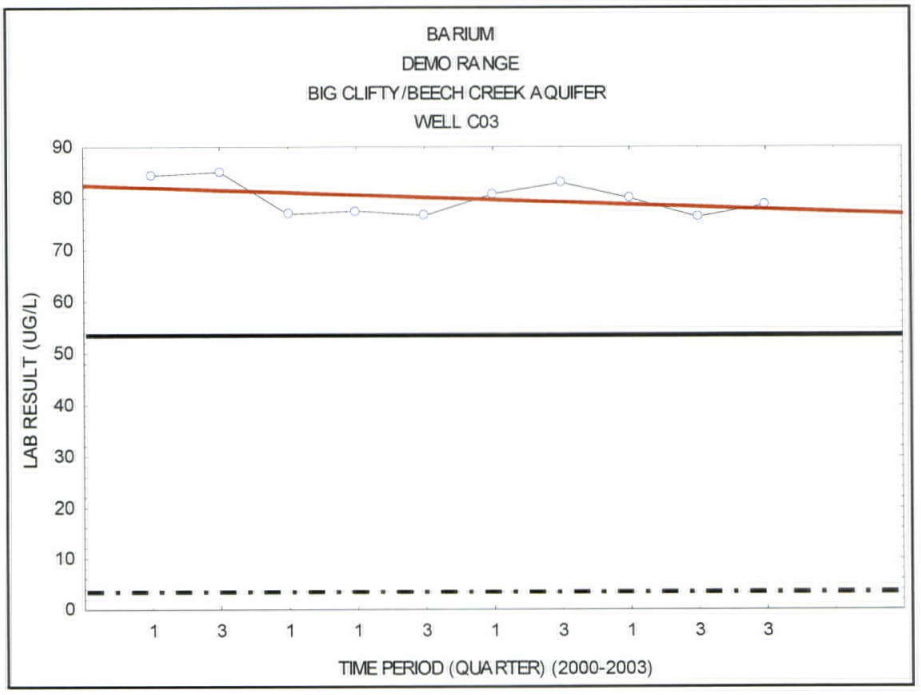


Figure 7.205.

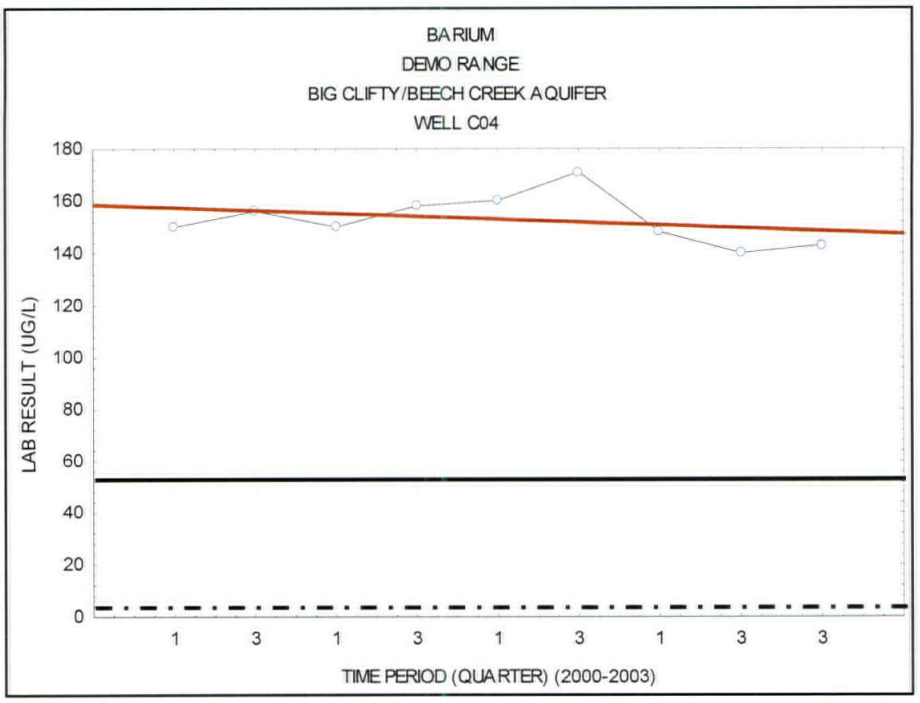


Figure 7.206.

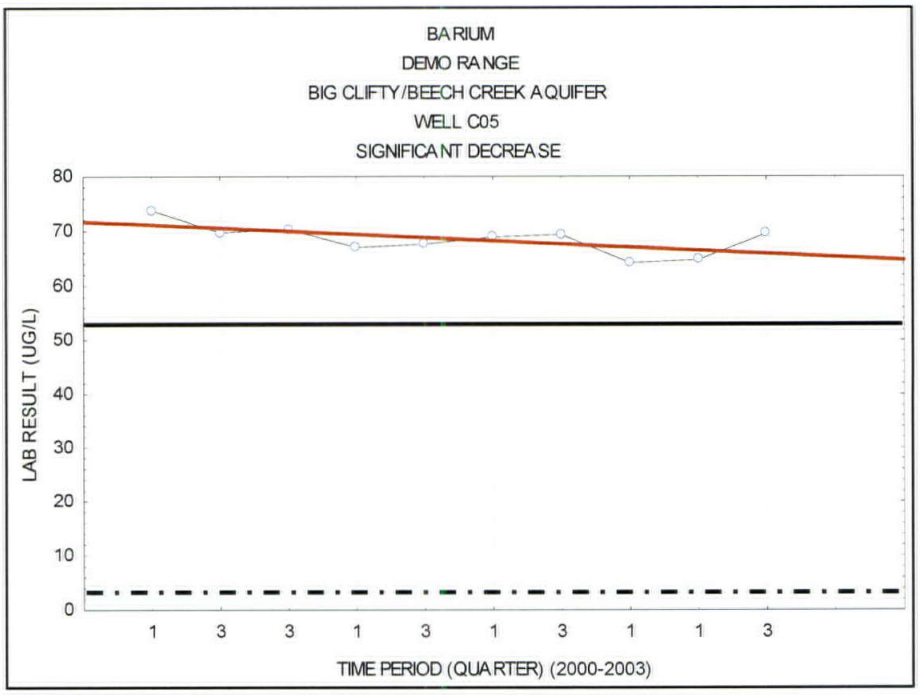


Figure 7.207.

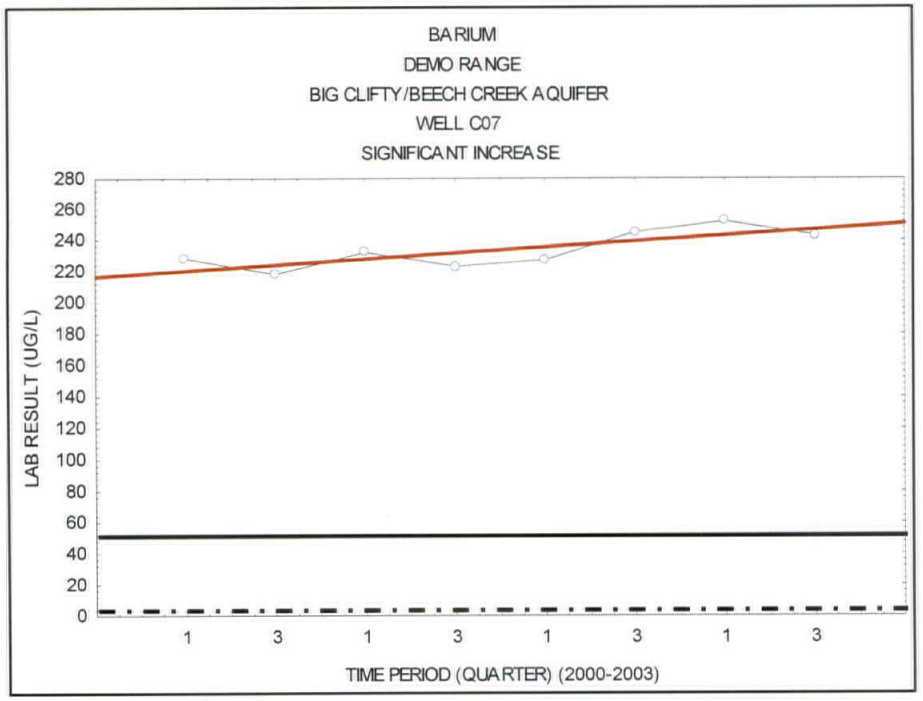


Figure 7.208.

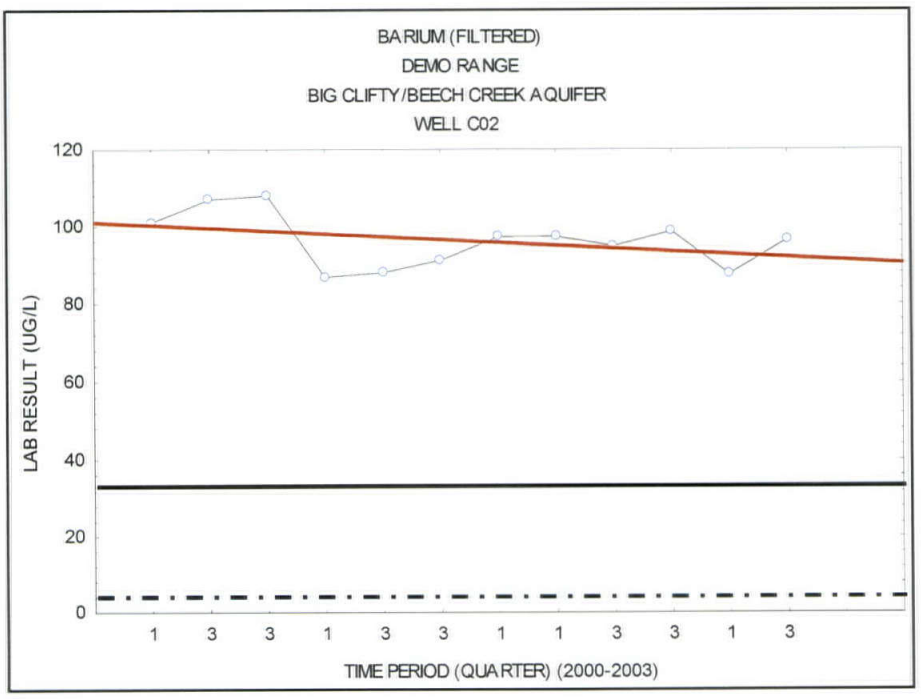


Figure 7.209.

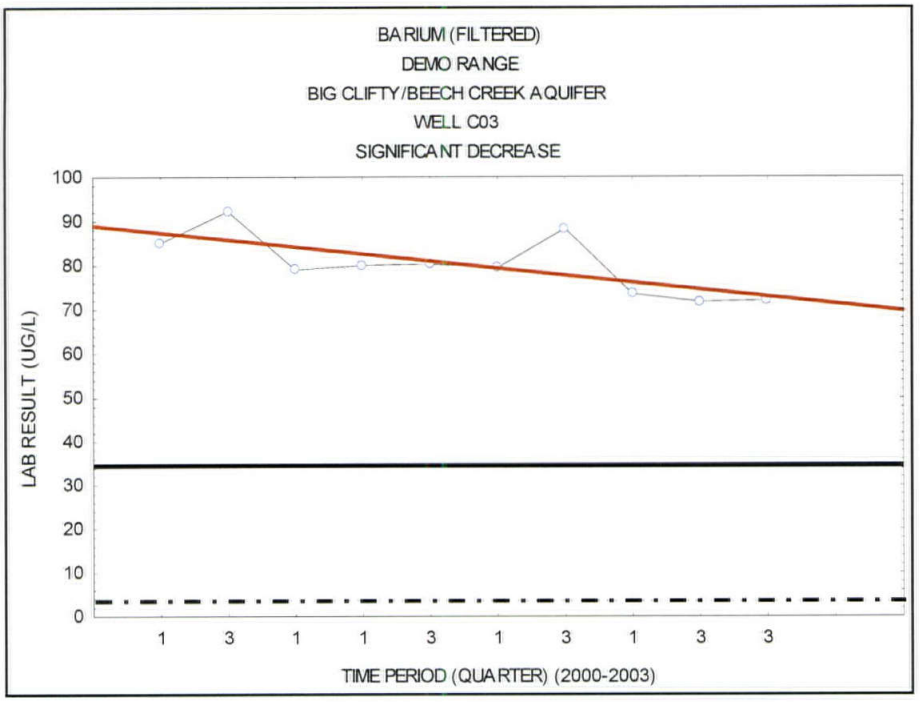


Figure 7.210.

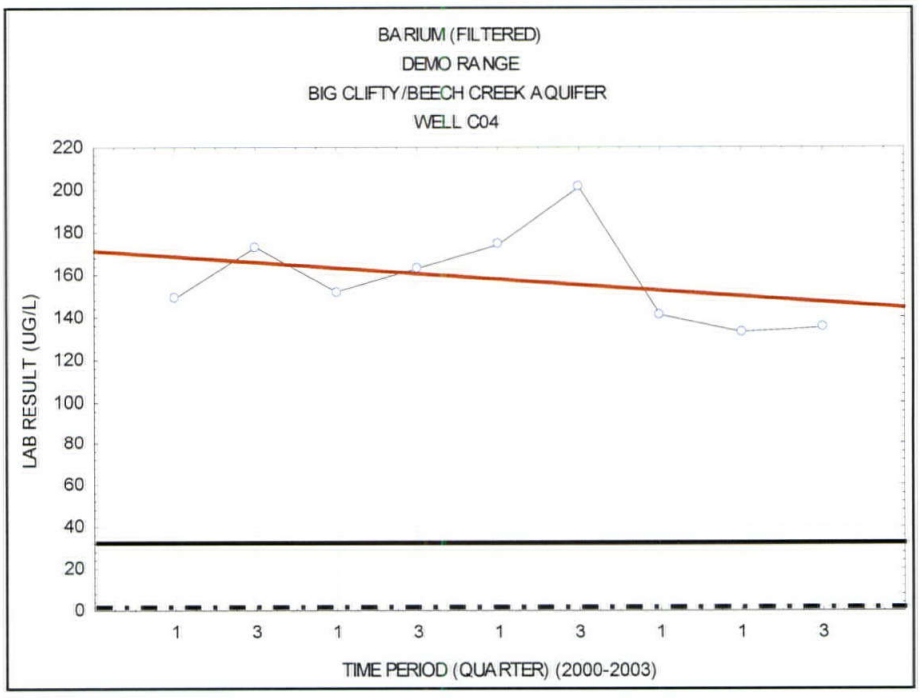


Figure 7.211.

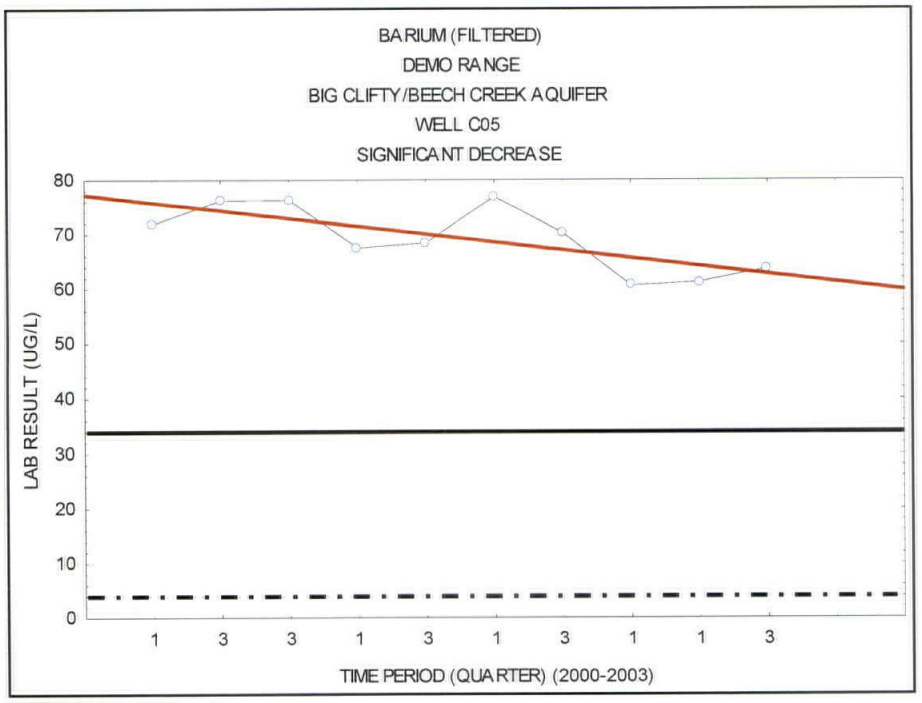


Figure 7.212.

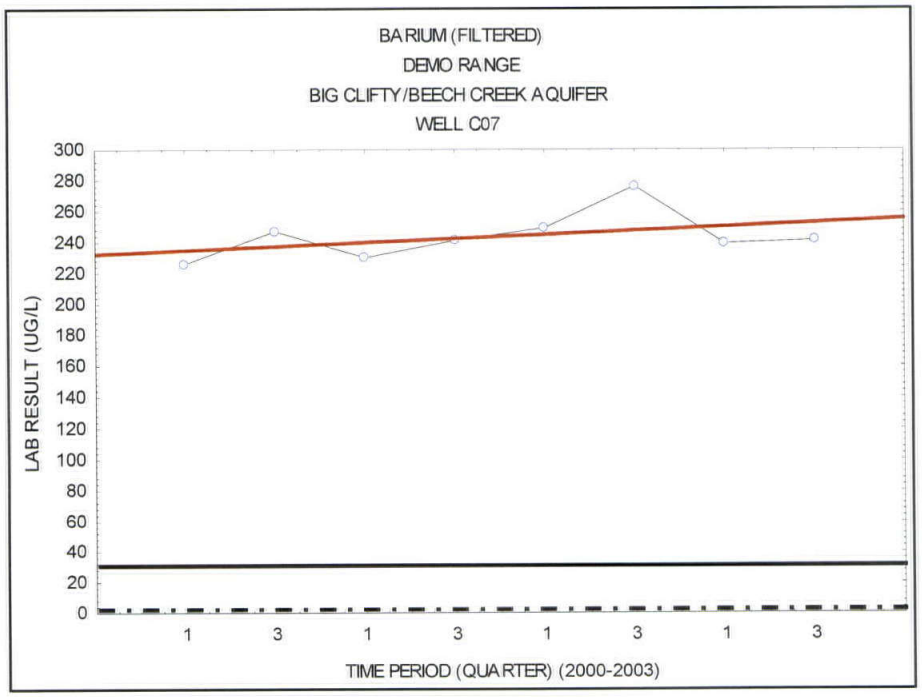


Figure 7.213.

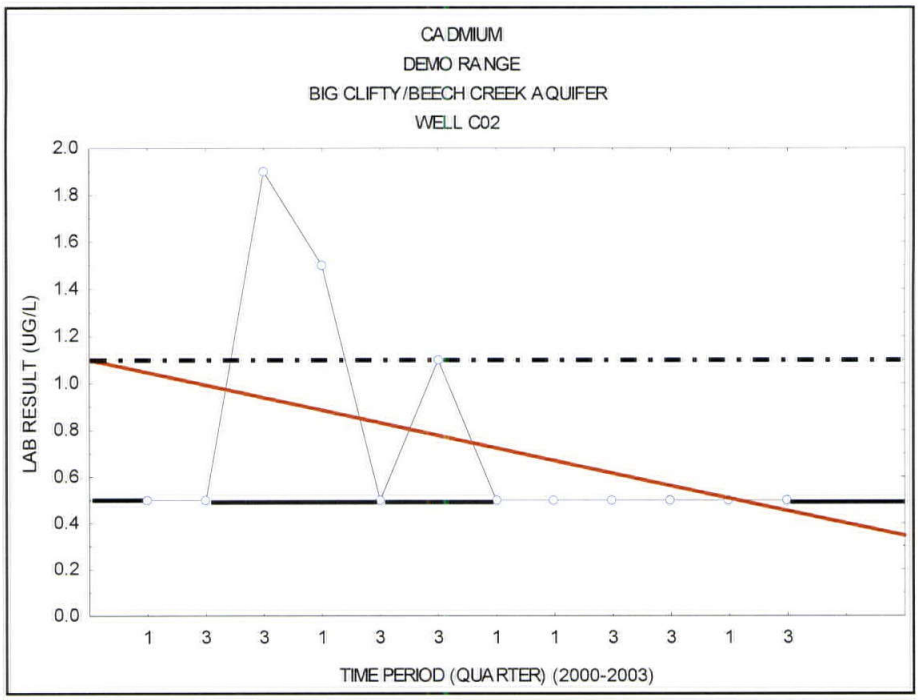


Figure 7.214.

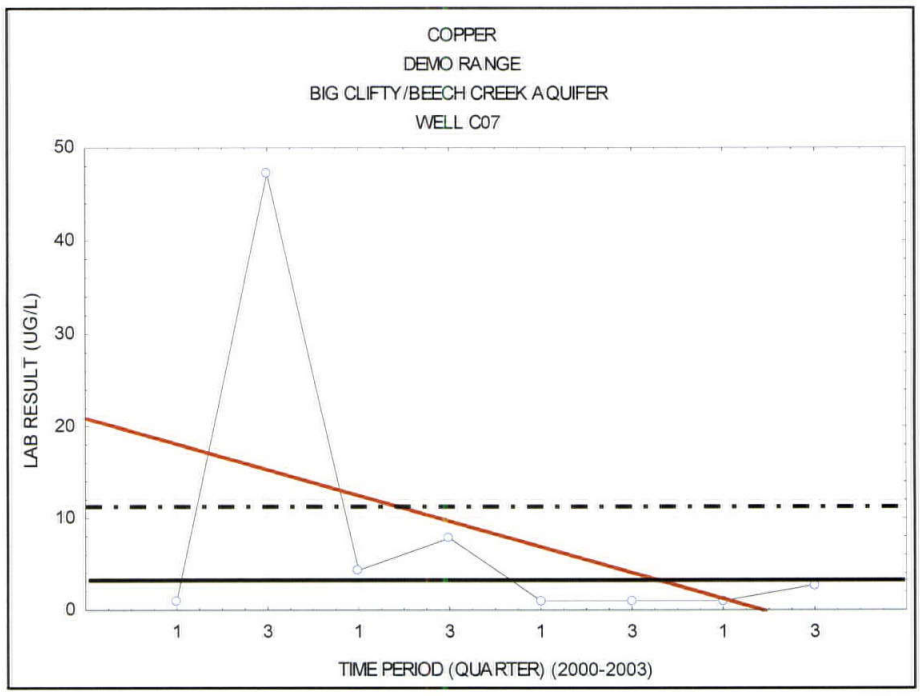


Figure 7.215.

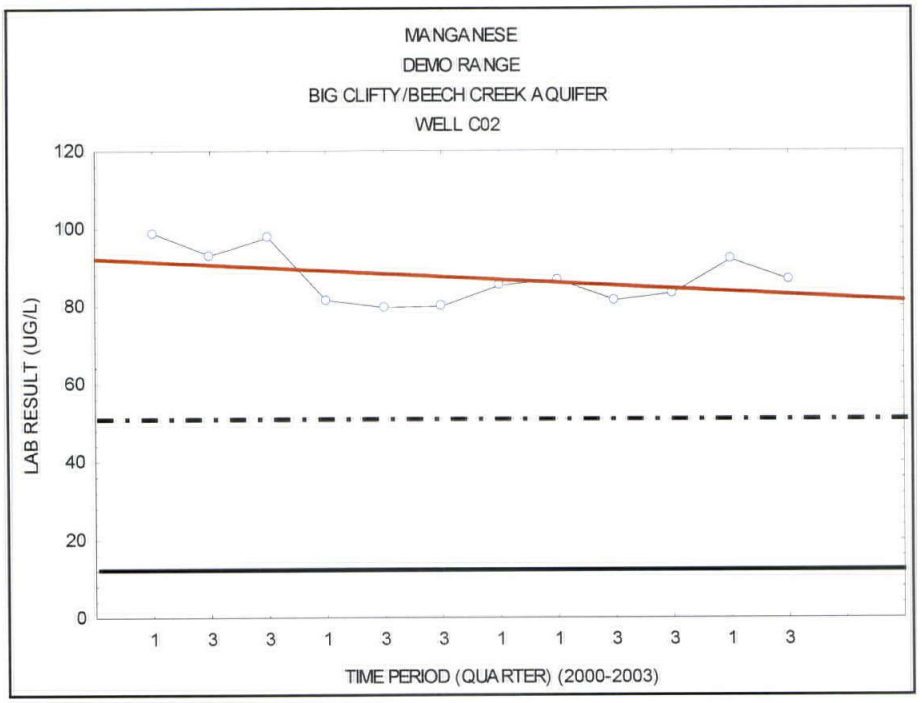


Figure 7.216.

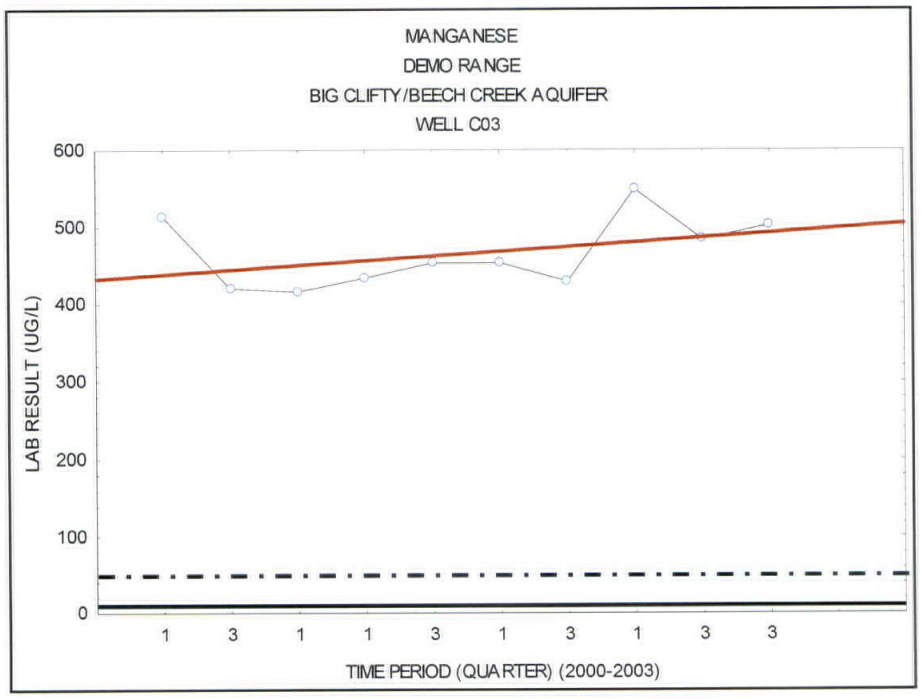


Figure 7.217.

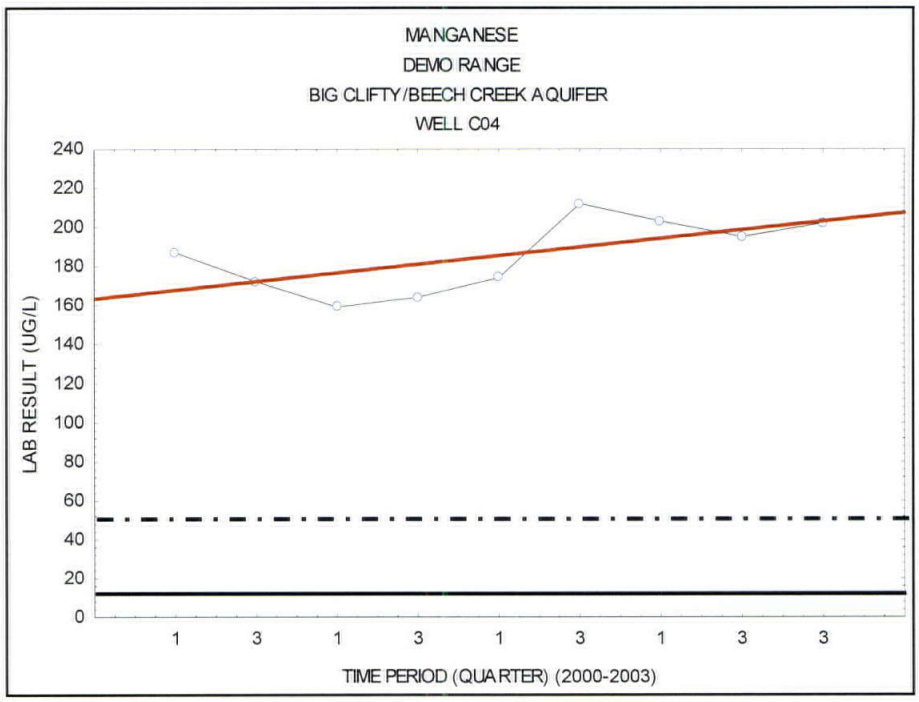


Figure 7.218.

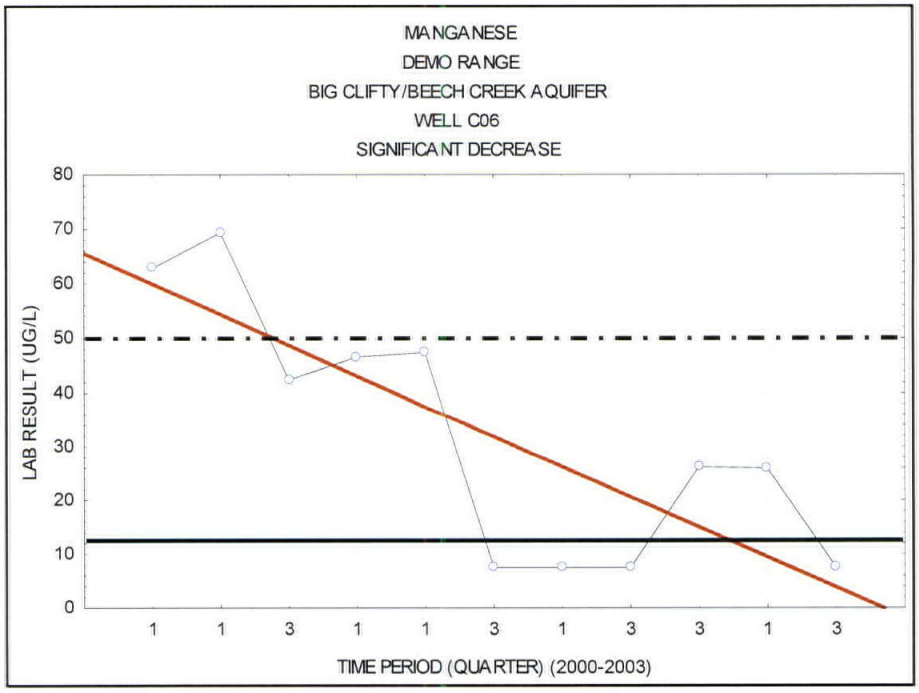


Figure 7.219.

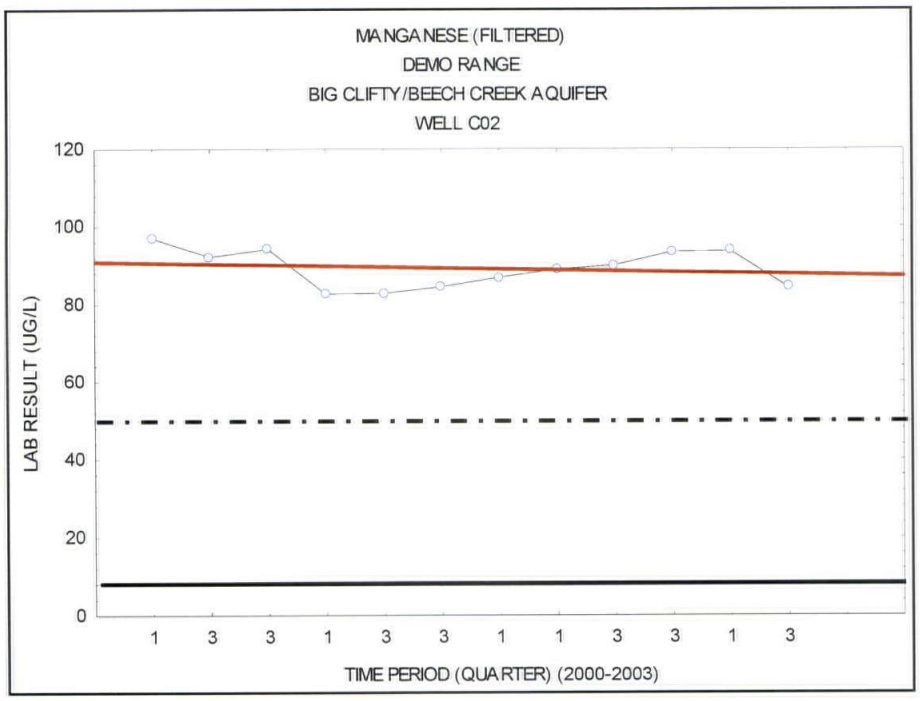


Figure 7.220.

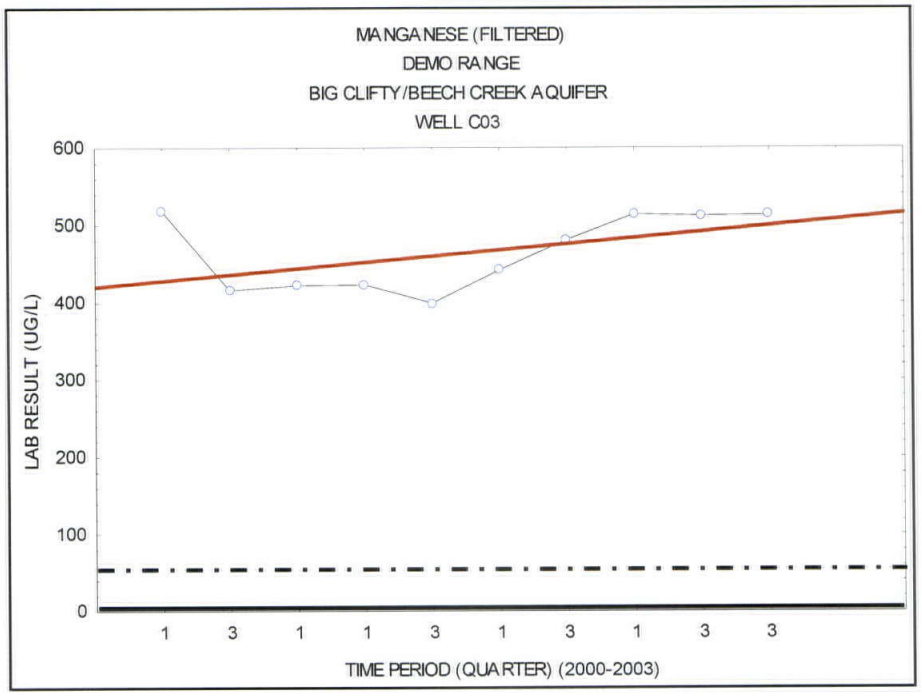


Figure 7.221.

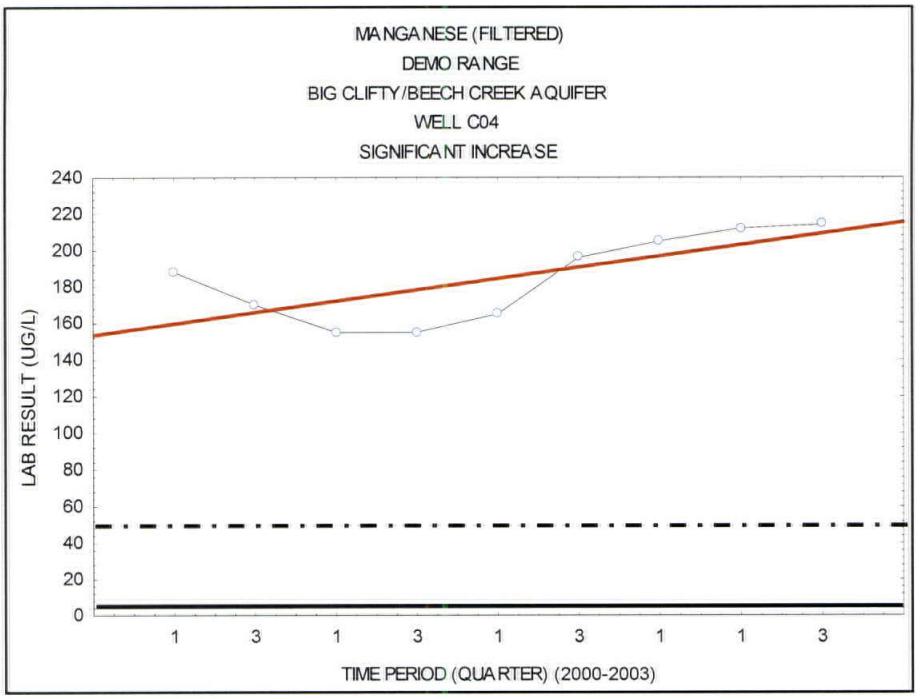


Figure 7.222.

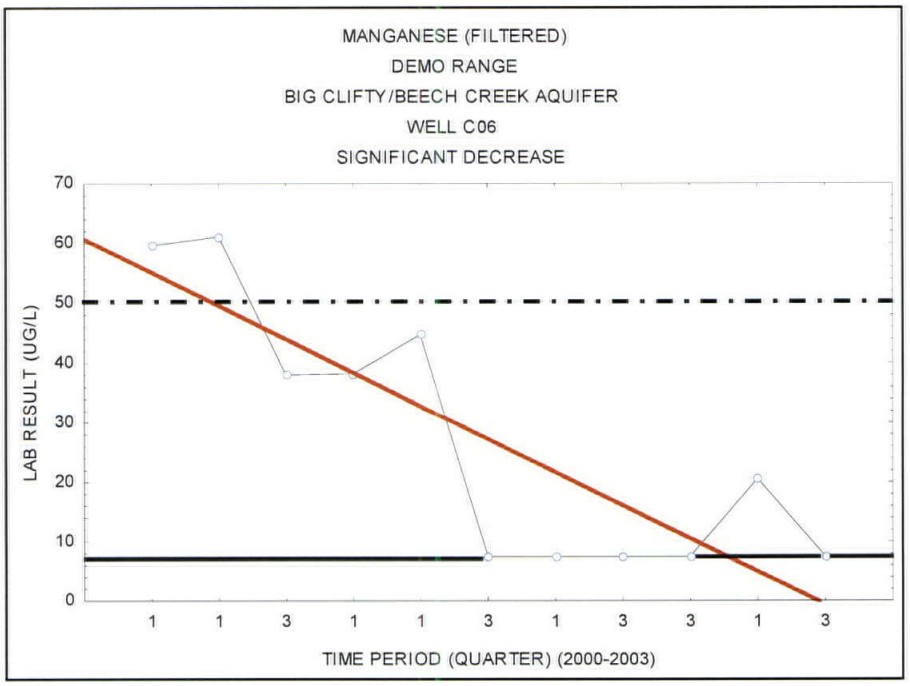


Figure 7.223.

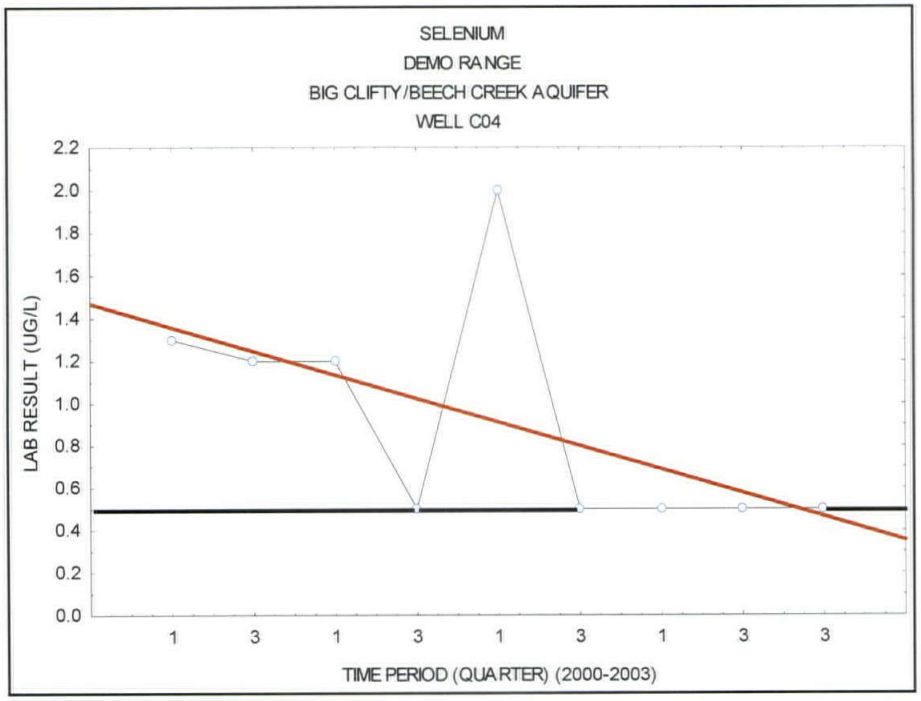

SELENIUM
DEMO RANGE
BIG CLIFTY/BEECH CREEK AQUIFER
WELL C04
LAB RESULT (UG/L)
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
1
3
1
3
1
3
1
3
3
TIME PERIOD (QUARTER) (2000-2003)

Figure 7.224.

MISCELLANEOUS PARAMETERS
DEMO RANGE BIG CLIFTY/BEECH CREEK AQUIFER

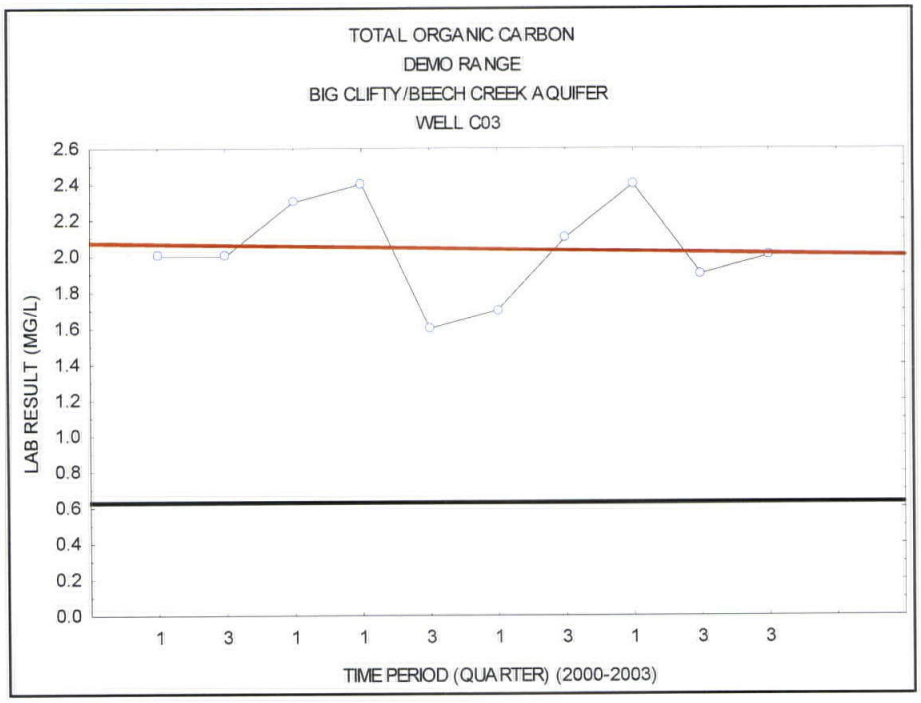


Figure 7.225.

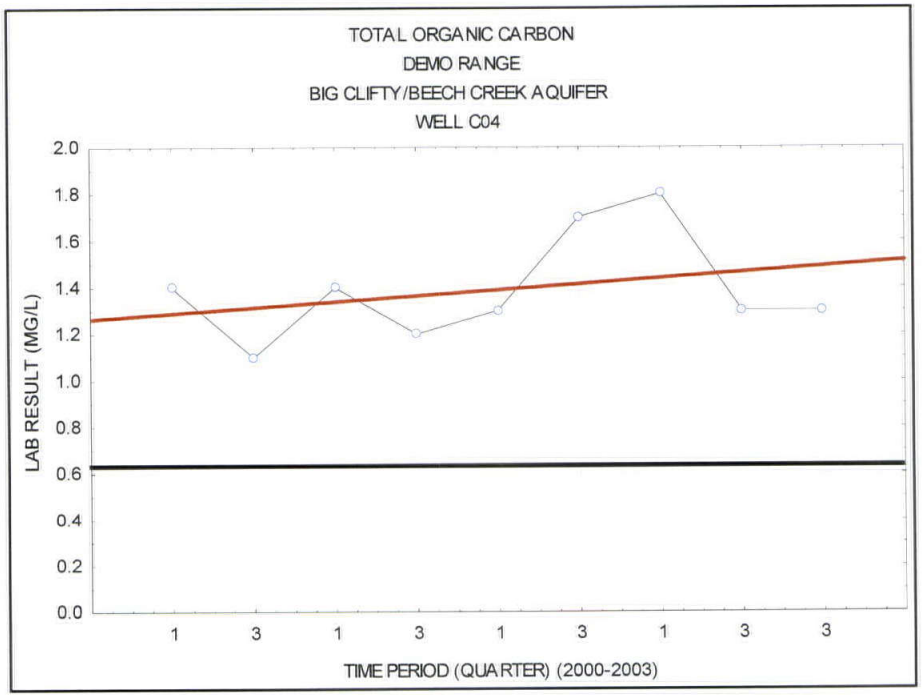


Figure 7.226.

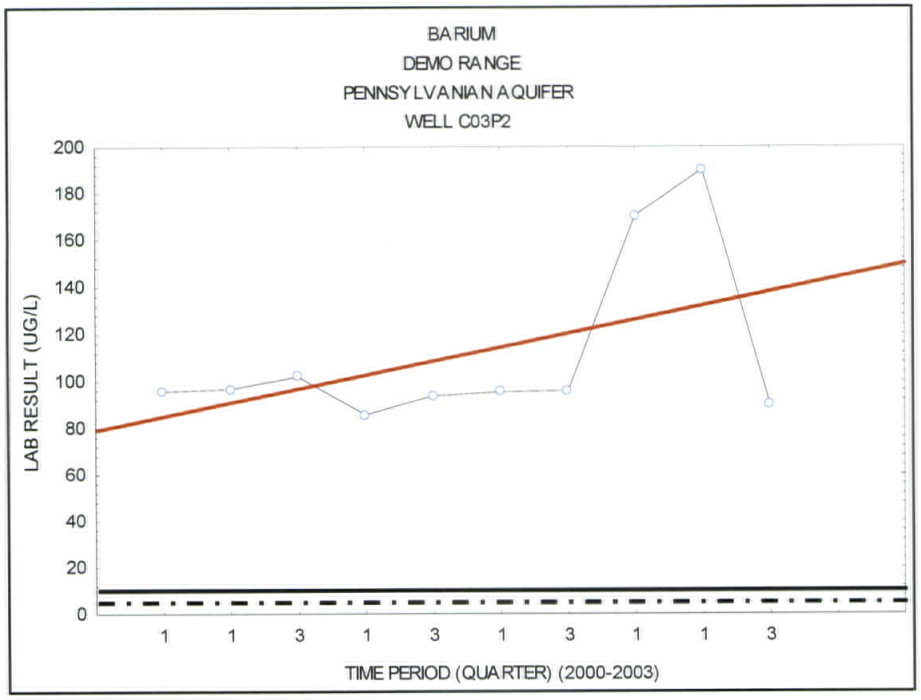


Figure 7.227.

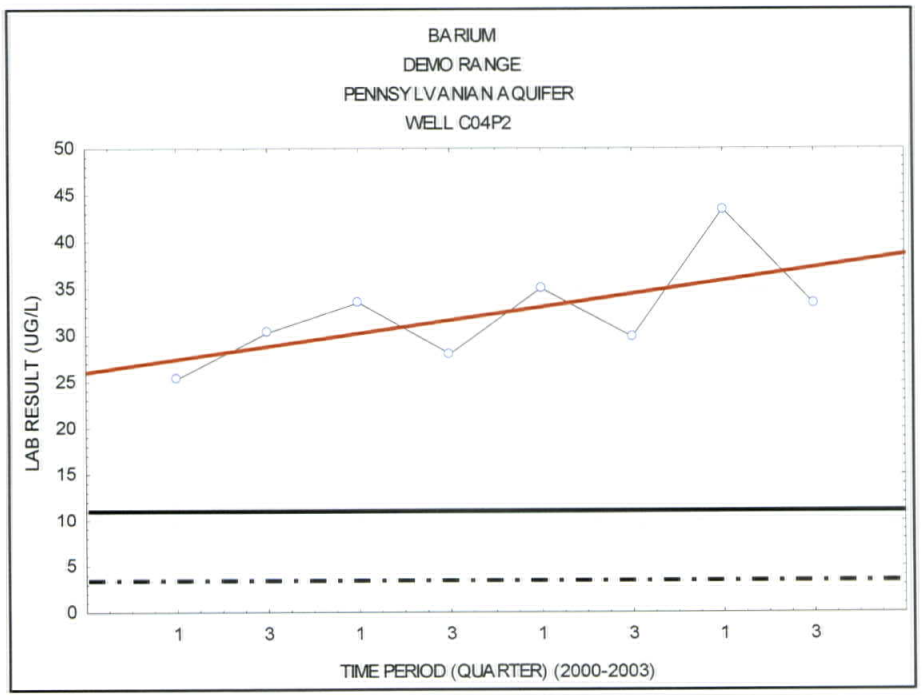


Figure 7.228.

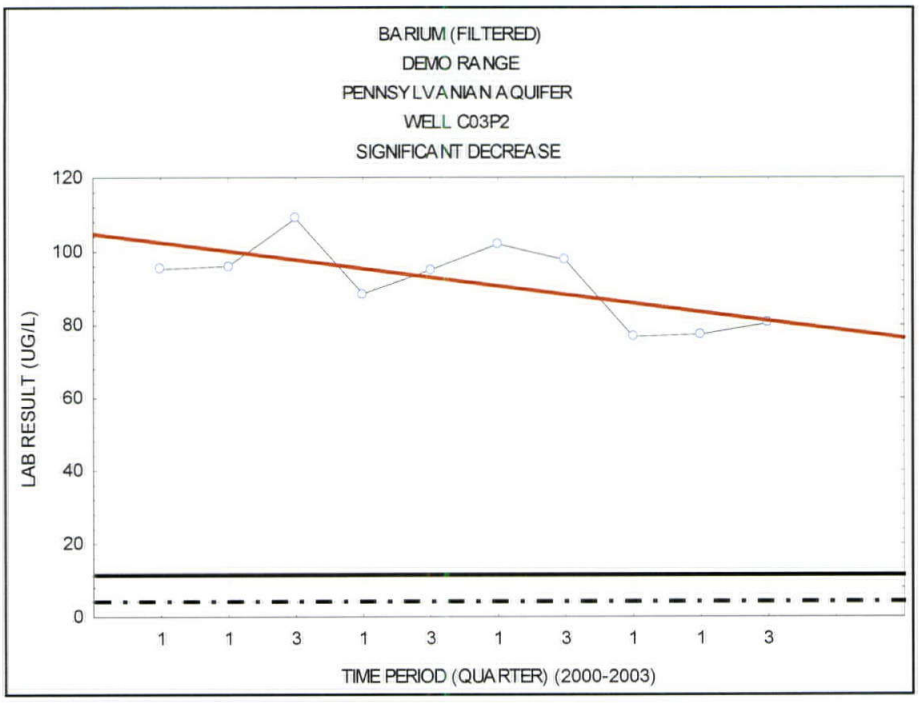


Figure 7.229.

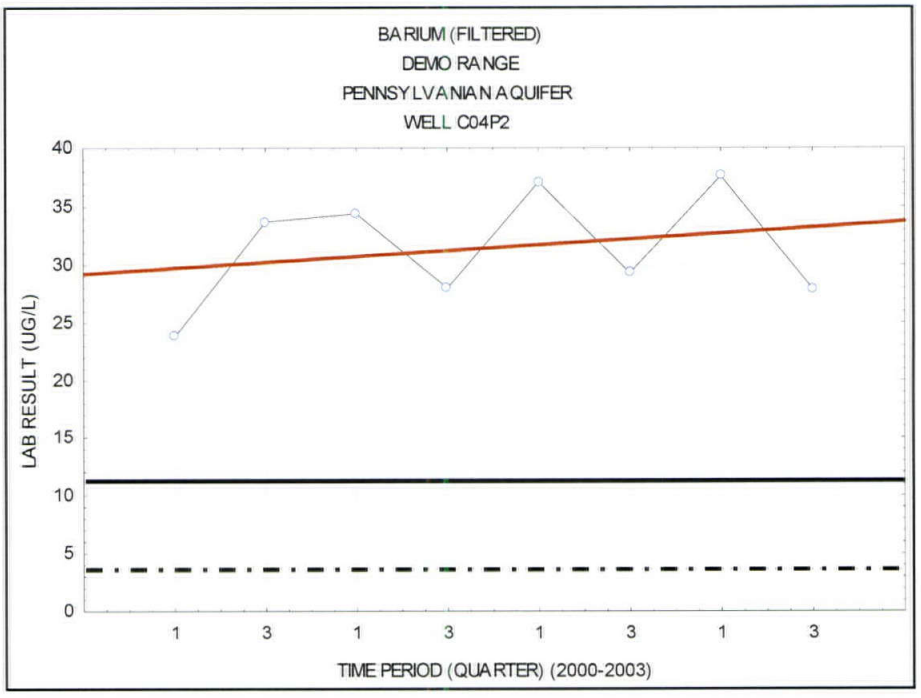


Figure 7.230.

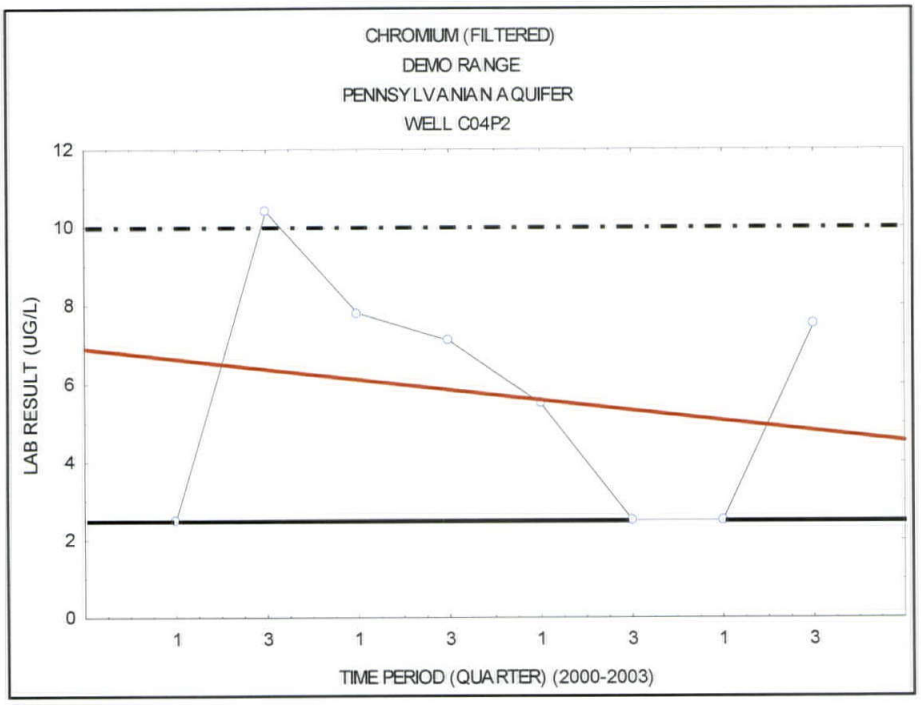


Figure 7.231.

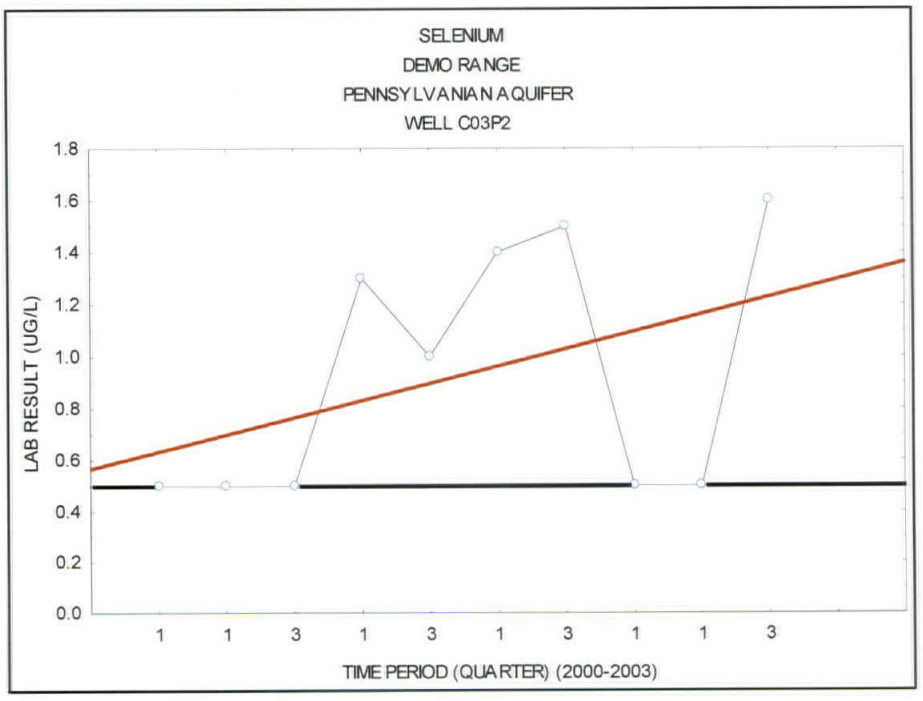


Figure 7.232.

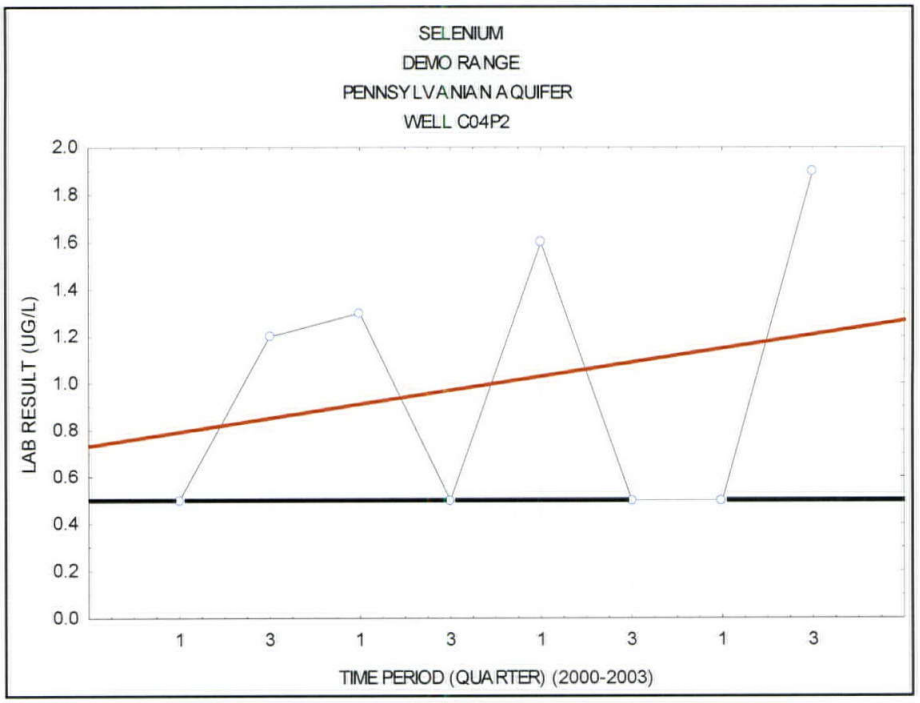

SELENIUM
DEMO RANGE
PENNSYLVANIAN AQUIFER
WELL C04P2
LAB RESULT (UG/L)
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
1
3
1
3
1
3
1
3
TIME PERIOD (QUARTER) (2000-2003)

Figure 7.233.

8.0

GROUNDWATER QUALITY AND POTENTIAL CONTAMINANT MIGRATION

8.0 Groundwater Quality and Potential Contaminant Migration

Groundwater monitoring at the Ammunition Burning Grounds, Old Rifle Range, and Demo Range was initiated to meet the regulatory requirements of 40 CFR 264 Subpart F. Interim status groundwater monitoring revealed contamination underlying the sites. The regulations require the facility to determine if groundwater protection standards are being met at, and beyond, the point of compliance. Compliance groundwater monitoring wells at the three sites are located at the edge of the waste management areas and monitor groundwater in the uppermost aquifer. Subpart F defines the compliance point at which the groundwater protection standard applies as the vertical surface located at the hydraulic limit of the waste management area that extends into the uppermost aquifer underlying the regulated unit. 40 CFR 264.91(a)(2) requires corrective action under 264.100 whenever a groundwater protection standard is exceeded. Exceeded is defined as statistically increased evidence of contamination. The protection standards established for 40 CFR 264.92 are risk-based target limits (RBTLs) and are documented in the Ground Water Monitoring Plan (GWMP) (Tetra Tech NUS, 1999; Table 1-2). The GWMP describes in detail the monitoring programs at the three sites, including constituents monitored and the location of points of compliance. Table 8.0.1 below summarizes the analyzed constituents with respective RBTLs.

Table 8.0.1

ANALYTICAL METHODS, LABORATORY REPORTING LIMITS, AND GROUND WATER PROTECTION STANDARD CONCENTRATION LIMITS
NAVAL SURFACE WARFARE CENTER
CRANE, INDIANA

Chemical	Laboratory RL[1] (ug/L)	Risk-Based Target Level[2] (ug/L)
EXPLOSIVES (SW-846 METHOD 8330)		
1,3,5-Trinitrobenzene	1.0	1.8
1,3-Dinitrobenzene	0.9	2.36
2,4,6-Trinitrotoluene (TNT)	1.6	2.2
2,4-Dinitrotoluene	1.2	60.8
2,6-Dinitrotoluene	2.0	37
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	2.0	1800
2-Nitrotoluene	2.0	2.2
3-Nitrotoluene	2.0	370
4-Nitrotoluene	2.0	370
4-Amino-2,6-dinitrotoluene	1.6	--[3]
2-Amino-4,6-dinitrotoluene	0.9	--
Methyl-2,4,6-trinitrophenylnitramine (Tetryl)	1.2	370
Nitrobenzene	1.5	15.2
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.61 [4]	0.61
Nitroglycerin	13	--
Pentaerythritol tetranitrate (PETN)	26	--
2,4-Diamino-6-nitrotoluene	10	--
2,6-Diamino-4-nitrotoluene	10	--
2,2',6,6'-Tetranitro-4,4'-azoxytoluene	10	--
3,5-Dinitroaniline	10	--
1,3,5-Trinitroso-1,3,5-hexahydrotriazine (TNX)	10	--
1-Nitroso-3,5-dinitro-1,3,5-hexahydrotriazine (MNX)	10	--
EXPLOSIVES (MODIFIED ARMY CORPS METHOD)		
Nitrocellulose	500	--
EXPLOSIVES (LAUCKS HPLC METHOD)		
Picric acid	0.6	--
Picramic acid	0.9	--
APPENDIX IX METALS (SW-846 METHOD 6020 ICP/MS, UNLESS OTHERWISE NOTED)		
Antimony	1.0	6
Arsenic	1.0	2
Barium	1.0	3.9
Beryllium	1.0	4
Cadmium	1.0	1.1
Chromium (total)	5.0	10
Cobalt	3.0	3
Copper	2.0	11
Lead	1.0	2.5
Mercury (SW-846 Method 7470A)	0.2	1.3
Nickel	10	100
Selenium	1.0	5
Silver	3.0	4.1
Thallium	1.0	2
Vanadium	2.0	19
Zinc	10	100
ADDITIONAL METALS (SW-846 METHOD 6010B ICP/AES OR SW-846 METHOD 6020 ICP/MS)		
Aluminum	200	3.6×10^4
Calcium	1000	--
Iron	100	300

Table 8.0.1 Cont.

Chemical	Laboratory RL[1] (ug/L)	Risk-Based Target Level[2] (ug/L)
Magnesium	1000	--
Manganese	15	50
Potassium	1000	--
Sodium	1000	--
APPENDIX IX VOLATILE ORGANIC COMPOUNDS (SW-846 METHOD 8260B WITH 25 ML PURGE)		
1,1,1-Trichloroethane	0.5	88
1,1,1,2-Tetrachloroethane	0.5	5
1,1,2,2-Tetrachloroethane	0.5	5
1,1,2-Trichloroethane	0.5	5
1,2,3-Trichloropropane	1[4]	12.11
1,2,3-Trichlorobenzene	0.5	--
1,1-Dichloroethane	0.5	47
1,1-Dichloroethene	0.5	0.5
1,1-Dichloropropylene	0.5	--
1,2-Dibromo-3-chloropropane	1	1
1,2-Dibromoethane	0.5	1
1,2-Dichloroethane	0.5	1
1,2-Dichloropropane	0.5	380
1,3-Dichloropropane	0.5	--
2,2-Dichloropropane	0.5	--
2-Butanone	10	917.72
2-Chloro-1,3-butadiene (chloroprene)	3	14
2-Hexanone	10	--
4-Methyl-2-pentanone	10	1520
Acetone	10	610
Acrolein	10*	4
Acrylonitrile	3	3.7
Allyl chloride (3-chloro-1-propene)	10	1800
Benzene	0.5	5
Bromochloromethane	0.5	--
Bromodichloromethane	0.5	100
Bromoform	0.5	8.5
Bromomethane	1[4]	8.7
Carbon disulfide	0.5	21
Carbon tetrachloride	0.3[4]*	0.17
Chlorobenzene	0.5	10
Chloroethane	0.5	710
Chloroform	0.3*	0.16
Chloromethane	0.5	1.5
cis-1,2-Dichloroethene	0.5	61
cis-1,3-Dichloropropene	0.3[4]*	0.081
Dibromochloromethane	0.5	1
Dibromomethane	0.5	370
Dichlorodifluoromethane	0.5	390
Ethylbenzene	0.5	17.2
Ethyl methacrylate	1	550
Methacrylonitrile	1	1
Methylene chloride	3	4.3
Methyl iodide	0.5	--

Table 8.0.1 Cont.

Chemical	Laboratory RL[1] (ug/L)	Risk-Based Target Level[2] (ug/L)
Methyl methacrylate	2	2800
Styrene	0.5	56
Tetrachloroethene	0.5	1.1
Toluene	0.5	253
trans-1,2-Dichloroethene	0.5	100
trans-1,3-Dichloropropene	0.5	0.5
trans-1,4-Dichloro-2-butene	10	10
Trichloroethene	0.5	1.6
Trichlorofluoromethane	0.5	1300
Vinyl acetate	0.5	248.03
Vinyl chloride	0.5	2
Total Xylenes	1	1.8
APPENDIX IX VOLATILE ORGANIC COMPOUNDS (SW-846 METHOD 8015B WITH 10 ML PURGE)		
1,4-Dioxane (SW-846 Method 8015B)	500*	2
Acetonitrile (SW-846 Method 8015B)	40	220
Isobutyl alcohol (SW-846 Method 8015B)	40	11000
Propionitrile (SW-846 Method 8015B)	40	6080
APPENDIX IX SEMIVOLATILE ORGANIC COMPOUNDS (SW-846 METHOD 8270C; SIM WHERE NOTED)		
1,2,4,5-Tetrachlorobenzene	10	10
1,2,4-Trichlorobenzene	2	70
1,2-Dichlorobenzene	2	14
1,3-Dichlorobenzene	2	71
1,4-Dichlorobenzene	2	5
1,4-Naphthoquinone	10	10
1,4-Phenylenediamine	100	6900
1-Naphthylamine	36*	10
2,3,4,6-Tetrachlorophenol	25*	14.06
2,4,5-Trichlorophenol	5	63
2,4,6-Trichlorophenol	3*	2
2,4-Dichlorophenol	3	18
2,4-Dimethylphenol	5	166.9
2,4-Dinitrophenol	10	10
2,6-Dichlorophenol	5	--
2-Acetylaminofluorene	12	14.86
2-Chloronaphthalene	2*	1
2-Chlorophenol	3*	2
2-Methylnaphthalene by SIM	0.04	9.15
2-Methylphenol	2	1520
2-Naphthylamine	16	--
2-Nitroaniline	2	2.2
2-Nitrophenol	5	13.5
2-Picoline	20	3790
3,3'-Dichlorobenzidine	10	10
3,3'-Dimethylbenzidine	50*	10
3-Methylcholanthrene	12	400
3-,4-Methylphenol[5]	4	1800
3-Nitroaniline	2	--
4,6-Dinitro-2-methylphenol	10	10
4-Aminobiphenyl	12	--

Table 8.0.1 Cont.

Chemical	Laboratory RL[1] (ug/L)	Risk-Based Target Level[2] (ug/L)
4-Bromophenyl phenyl ether	2	2
4-Chloro-3-methylphenol	2	34.79
4-Chloroaniline	2	121.6
4-Chlorophenyl phenyl ether	1	1
4-Nitroaniline	2	--
4-Nitrophenol	10	35
4-Nitroquinoline-1-oxide	100	--
5-Nitro-o-toluidine	16	--
7,12-Dimethylbenz(a)anthracene	10[4]	10
Acenaphthene by SIM	0.02	23
Acenaphthylene by SIM	0.04	1
Acetophenone	20	687.89
Aniline	5	5
Aramite	10	10
Anthracene by SIM	0.04	5
Benz(a)anthracene by SIM	0.04	1
Benzo(a)pyrene by SIM	0.04	1
Benzo(b)fluoranthene by SIM	0.04	1
Benzo(g,h,i)perylene by SIM	0.04	1
Benzo(k)fluoranthene by SIM	0.04	1
Benzyl alcohol	10	281.24
Bis(2-chloroethoxy)methane	5	6400
Bis(2-chloroethyl)ether	1[4]	1
Bis(2-chloroisopropyl)ether	3	3
Bis(2-ethylhexyl) phthalate	2	4.8
Butyl benzyl phthalate	2	19
Chlorobenzilate	5[4]*	2.5
Chrysene by SIM	0.04	1
Diallate	10	10
Di-n-butyl phthalate	2	3
Di-n-octyl phthalate	2	30
Dibenz(a,h)anthracene by SIM	0.04	1
Dibenzofuran	1	13.52
Diethyl phthalate	2	220
Dimethoate	10[4]	10
p-(Dimethylamino)azobenzene	15	--
a,a-Dimethylphenethylamine	50	--
Dimethyl phthalate	2	73
Diphenylamine[6]	10	10
Disulfoton	16[4]*	0.3
Ethyl methane sulfonate	16	--
Ethyl parathion	15	--
Famphur	10	--
Fluoranthene by SIM	0.04	8.1
Fluorene by SIM	0.04	10
Hexachlorobenzene	2	2

Table 8.0.1 Cont.

Chemical	Laboratory RL[1] (ug/L)	Risk-Based Target Level[2] (ug/L)
Hexachlorobutadiene	1[4]	1
Hexachlorocyclopentadiene	2	2
Hexachloroethane	2	4.8
Hexachlorophene	100*	11
Hexachloropropene	20	20
Indeno(1,2,3-cd)pyrene by SIM	0.02	1
Isodrin	10	10
Isophorone	1	71
Isosafrole	20	--
Kepone	25*	0.7
Methapyrilene	40	--
Methyl methane sulfonate	16	--
Methyl parathion	10*	9.1
n-Nitrosodi-n-butylamine	10	10
n-Nitrosodiethylamine	10	10
n-Nitrosodimethylamine	10	10
n-Nitrosodi-n-propylamine	2	2
n-Nitrosomethyethylamine	10	10
n-Nitrosomorpholine	10[4]	10
n-Nitrosopiperidine	10	10
n-Nitrosopyrrolidine	10	10
Naphthalene by SIM	0.04	24
Pentachlorobenzene	10	10
Pentachloroethane	10	14.39
Pentachloronitrobenzene	10	10
Pentachlorophenol	10	10
Phenacetin	10	10
Phenanthrene by SIM	0.04	1
Phenol	5	100
Phorate	10[4]*	3.62
Pronamide	12	160
Pyrene by SIM	0.04	1
Pyridine	10	37
Safrole	20	40
Tetraethyl dithiopyrophosphate (Sulfotepp)	10	10
Thionazin	100	--
o-Toluidine	15	--
O,O,O-Triethyl phosphorothioate	10	10
APPENDIX IX ORGANOCHLORINE PESTICIDES and PCBs (SW-846 METHOD 8081)		
Aldrin	0.01	0.01
Alpha-BHC	0.01	0.01
Alpha-chlordane	0.03	0.03
Beta-BHC	0.03	0.037
4,4'-DDD	0.05	0.05
4,4'-DDE	0.05*	0.01
4,4'-DDT	0.05*	0.01
Delta-BHC	0.05	666.67
Dieldrin	0.02	0.02
Endosulfan I	0.05	0.051

Table 8.0.1 Cont.

Chemical	Laboratory RL[1] (ug/L)	Risk-Based Target Level[2] (ug/L)
Endosulfan II	0.05	0.051
Endosulfan sulfate	0.05	0.05
Endrin	0.06	0.06
Endrin aldehyde	0.05	0.05
Gamma-BHC (Lindane)	0.05	0.052
Gamma-chlordane	0.03	0.03
Heptachlor	0.03	0.03
Heptachlor epoxide	0.01	0.01
Methoxychlor	0.12*	0.05
Toxaphene	3.0*	2.4
Aroclor-1016	0.5	0.5
Aroclor-1221	0.5	0.5
Aroclor-1232	0.5	0.5
Aroclor-1242	0.5[4]	0.5
Aroclor-1248	0.5	0.5
Aroclor-1254	0.5	0.5
Aroclor-1260	0.5	0.5
APPENDIX IX HERBICIDES (SW-846 METHOD 8151A)		
2,4-D	0.2	70
2,4,5-T	0.2	370
2,4,5-TP (Silvex)	0.2	50
Dinoseb	0.2	0.39
DIOXINS/FURANS (SW-846 METHOD 8290)		
2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD)	1E-5*	4.5E-6
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (1,2,3,7,8-PeCDD)	5E-5	9E-6[7]
1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin (1,2,3,6,7,8-HxCDD)	5E-5*	4.5E-5[7]
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,4,7,8-HxCDD)	5E-5*	4.5E-5[7]
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (1,2,3,7,8,9-HxCDD)	5E-5*	4.5E-5[7]
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-HpCDD)	5E-5	4.5E-4[7]
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (1,2,3,4,6,7,8,9-OCDD)	1E-4	4.5E-3[7]
2,3,7,8-Tetrachlorodibenzofuran (2,3,7,8-TCDF)	1E-5	4.5E-5[7]
1,2,3,7,8-Pentachlorodibenzofuran (1,2,3,7,8-PeCDF)	5E-5	9E-5[7]
2,3,4,7,8-Pentachlorodibenzofuran (2,3,4,7,8-PeCDF)	5E-5*	9E-6[7]
1,2,3,6,7,8-Hexachlorodibenzofuran (1,2,3,6,7,8-HxCDF)	5E-5*	4.5E-5[7]
1,2,3,7,8,9-Hexachlorodibenzofuran (1,2,3,7,8,9-HxCDF)	5E-5*	4.5E-5[7]
1,2,3,4,7,8-Hexachlorodibenzofuran (1,2,3,4,7,8-HxCDF)	5E-5*	4.5E-5[7]
2,3,4,6,7,8-Hexachlorodibenzofuran (2,3,4,6,7,8-HxCDF)	5E-5*	4.5E-5[7]
1,2,3,4,6,7,8-Heptachlorodibenzofuran (1,2,3,4,6,7,8-HpCDF)	5E-5	4.5E-4[7]
1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,4,7,8,9-HpCDF)	5E-5	4.5E-4[7]
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (1,2,3,4,6,7,8,9-OCDF)	1E-4	4.5E-3[7]
Total Tetrachlorodibenzo-p-dioxin (Total TCDD)	1E-5	NA
Total Pentachlorodibenzo-p-dioxin (Total PeCDD)	5E-5	NA
Total Hexachlorodibenzo-p-dioxin (Total HxCDD)	5E-5	NA
Total Heptachlorodibenzo-p-dioxin (Total HpCDD)	5E-5	NA
Total Tetrachlorodibenzofuran (Total TCDF)	1E-5	NA
Total Pentachlorodibenzofuran (Total PeCDF)	5E-5	NA

Table 8.0.1 Cont.

Chemical	Laboratory RL[1] (ug/L)	Risk-Based Target Level[2] (ug/L)
Total Hexachlorodibenzofuran (Total HxCDF)	5E-5	NA
Total Heptachlorodibenzofuran (Total HpCDF)	5E-5	NA
MISCELLANEOUS PARAMETERS		
Ammonia (EPA 600 Series Method 350.1)	10	--
Chloride (SW-846 Method 9056)	1000	--
Cyanide (SW-846 Method 9012A)	10	10
Dissolved Methane (Microseeps, Inc., Method AM18)	0.015	5[9]
Nitrate (SW-846 Method 9056)	200	58000
Nitrite (SW-846 Method 9056)	100	1000
Phosphorus (Total and Dissolved) (EPA Method 356.2)	100	--
Sulfate (SW-846 Method 9056)	1000	--
Sulfide (SW-846 Method 9034)	1000	--
Total Organic Carbon (TOC) (SW-846 Method 9060)	1000	--
Total Organic Halides (TOX) (SW-846 Method 9020B)	20	--

Ug/L micrograms per liter

* Asterisks indicate those chemicals for which the laboratory reporting limit (RL) exceeds the risk-based target level for the project.

1Method detection limits (MDLs) (all parameters except metals), instrument detection limits (IDLs) (metals only), and RLs as provided by Laucks Testing Laboratories, Inc., Traingle Laboratories, Inc. (dioxins/furans only), and Microseeps, Inc. (dissolved methane only). These values may change throughout the course of the ground water monitoring program as laboratory MDLs and IDLs are updated.

2Developed using U.S. EPA Region 5 support. Value is based on human health or ecological risk-based criteria or practical quantitation limits (PQLs) for common laboratory analytical methods.

3Risk-based target level is not provided, since human and ecological risk-based criteria are not available for this chemical.

4Laucks Testing Laboratories is confident that it can reliably report to this PQL, even though this value is less than two times the MDL.

53-Methylphenol and 4-methylphenol coelute. Therefore, one analytical result for 3-, 4-methylphenol will be reported.

6N-Nitrosodiphenylamine is more toxic than diphenylamine. However, n-nitrosodiphenylamine rapidly degrades to diphenylamine. Therefore, only diphenylamine will be reported, but results for diphenylamine will be treated as n-nitrosodiphenylamine during risk assessment.

7The target level is calculated using the target level for 2,3,7,8-TCDD and the toxicity equivalent factor (TEF) presented in current U.S. EPA guidance (U.S. EPA, March 1989).

8Not Applicable.

9The target level for dissolved methane is not a risk-based value, but instead represents the target reporting level for dissolved methane based on its use in evaluating the natural attenuation of TCE.

8.1 Ammunition Burning Ground

The Beech Creek Aquifer underlying the Ammunition Burning Ground is the most significantly impacted groundwater under the site (Murphy, 1994). The aquifer is recharged through the Golconda/Haney Aquifer in the western portion of the site and is recharged directly from percolation in the remaining portion of the ABG. Solution voids in the Beech Creek have been shown to transmit water rapidly from the eastern part of the site to springs in the Little Sulphur Creek valley. The eastern portion of the ABG is hydraulically connected to Spring A, and under more limited conditions, to Spring C (Baedke, 1998).

The US Army Corps of Engineers (USACE) assessment in the 1990s determined that trichloroethene (TCE), RDX, and barium were frequently detected at the ABG (Murphy, 1994). Results from quarterly monitoring in 2000 and 2001 generally agree with the previous findings; the most frequently detected compounds in the Beech Creek Aquifer wells were also barium, TCE, and RDX. Other compounds frequently detected in the quarterly monitoring from 2000-2001 include magnesium, HMX, and cis-1,2-dichloroethene (a breakdown product of TCE). In 2002, metals and other inorganics, volatile organic compounds, and explosives were detected in wells inside the ABG proper. In addition, degradation products of TCE and explosives were also detected in ABG wells. Explosives and degradation products of explosives were frequently detected in the two springs. In 2003, the same compounds were found throughout the ABG.

Figures 8.1.1-8.1.4 show all detections in 2003, by quarter, for the Beech Creek monitoring wells at the ABG. Figures 8.1.5-8.1.8 show all detections, by quarter, for Spring A and Spring C. Values that exceeded an RBTL are flagged. For associated lab qualifiers, please see Tables 6.1.1–6.1.5. Metals, including total barium and dissolved calcium, magnesium and potassium, as well as chloride and sulfate, were found in every well for all four quarters. Explosives were found consistently in six wells each quarter (C26, C09P2, C07, C02P2, C20, and C08P2), and one additional well in close proximity in two quarters (C04). Occasional positives include volatile organics and other metals. In addition, degradation products of TCE (C02P2, C08P2,C09P2, C20 and C26) and explosives (C02P2, C08P2, C09P2, C07 and C20) were also detected in several ABG wells. Barium, chloride and sulfate, and explosives and degradation products of explosives were frequently detected in the two springs.

The 2003 ABG results were incorporated with the 2000-2002 data and evaluated to determine which constituents were statistically higher than background Well 03C17 (Section 7.0). The statistical analysis was used to determine which constituents are exceeding the respective groundwater standard as defined by 40 CFR 264.91(a)(2). The statistical analyses were done both with and without the outlying data points. Table 8.1.1 shows the ABG results that exceeded an RBTL in at least one of the four quarters of 2003 and were statistically higher than background. Monitoring point objectives as per the GWMP (Tetra Tech NUS, 1999) are noted in the table. Explosives, metals, and VOC concentrations that were significantly high and exceeded an RBTL were found in POC wells and the springs. Constituents that exceeded both thresholds in compliance wells include 1,3,5-trinitrobenzene, RDX, barium, zinc, 1,2-dichloroethane, carbon tetrachloride, chloroform, cis-1,2-dichloroethene, and TCE.

Results from barium analyses show the presence of the metal to be extensive at the ABG. Barium was detected in every well sampled for each of the four quarters of 2003, which has been the case for the past three years. Figure 8.1.9 shows the quarterly values for total barium in relation to the quarterly measured groundwater flow contours (see Figure 8.1.1 for well references). Dissolved barium was also detected in every sampled well for each of the four quarters (Figures 8.1.10). All of the measured dissolved and total barium concentrations exceeded the Risk-Based Target Level (RBTL) of 3.9 μg/L, including measurements in background well 03C17 and offsite wells to the south. Barium was also detected at concentrations exceeding the RBTL in all four quarters for both Spring A and Spring C (Figures 8.1.5-8.1.8). The highest barium concentrations were consistently found in two wells on the downgradient side of the site, 03C02P2 and 03C08P2. The concentrations measured in the quarterly sampling generally agree with the mean values of historic barium data presented in Murphy (1994). However, results of the quarterly sampling show the elevated concentrations of barium to be more geographically extensive.

Total and dissolved barium concentrations were significantly higher than background and exceeded the RBTL in several ABG wells (Table 8.1.1). Point of compliance Wells 03C02P2, 03C04, 03C07, 03C08P2, 03C15, 03C20, 03C26, and 03C27 and offsite Well 03C30 exceeded the concentration and statistical threshold. Barium was also detected at concentrations that exceeded both thresholds in Spring A and Spring C.

Historic activities at the ABG could have contributed to the elevated presence of barium in groundwater underlying the site. Items have been burned at the unit that contained barium sulfate, an inert filler for projectiles and flares, known as "Salt-Load". The Incendiary Cage was used to treat flares in the 80s and 90s. Inert filler was also burned in the trenches that used to exist where the lower flashing pit is today. This burning occurred prior to 1984, before the flashing pit was installed (Doug Johnson, written communication).

The presence of elevated barium in all of the ABG sampling points, including the upgradient wells and the two springs, suggests that background conditions may contribute to elevated barium concentrations in the ABG results. Results from the Basewide Background Soils Investigation (TtNUS, 2001) demonstrated that barium occurs naturally at the facility at levels greater than the Soil Risk-Based Target Limit (SRBTL). The investigation measured background concentrations of metals throughout the facility. Background concentrations represent the level of inorganic chemicals found naturally in the region. Metal concentrations in soil vary according to soil type. In the study, background concentrations according to surface and subsurface soil type were determined for 27 metals (TtNUS, 2001). Surface soils in the study are considered to be soils 0-1 foot below the ground surface. Subsurface soils are soils 2-6 feet below the ground surface. The SRBTL for barium used in the Basewide Background Soils Investigation was 1.04 mg/kg. All soil samples in the Basewide Background Soils Investigation exceeded the SRBTL for barium.

In 1993, soil samples from the ABG RCRA Facility Investigation were analyzed for barium. All samples from the RCRA Facility Investigation exceeded the SRBTL used in the Basewide Background Soils Investigation. Because we are more interested in how these soil concentrations relate to groundwater, it may be insightful to use U.S. EPA Soil

Screening Levels (SSL) for Migration to Groundwater. The migration values are associated with a dilution and attenuation factor of one. For barium, the SSL is 82.0 mg/kg (TtNUS, 2001). Twenty-seven of the 33 barium surface samples exceed this level in the RCRA Facility Investigation. Twenty-two of the 32 subsurface samples exceed the SSL for barium.

While it is clear that background soil barium concentrations basewide are elevated, it is useful to compare results from the RCRA Facility Investigation with the Basewide Background Soils Investigation. This comparison puts the measured concentrations at the ABG into the context of concentrations in unaffected areas of the base. The soil in the ABG is residual soil derived from Mississippian bedrock/colluvium. Surface soil in unaffected areas of the base is Mississippian surface soil (MS). A 95% upper tolerance limit (UTL) of 211 mg/kg was determined from MS samples collected basewide. This means that background sample concentrations are below this limit 95% of the time for the MS soil type. Exceedances of this value suggest that the concentration is not from the same distribution as the background concentration (TtNUS, 2001). Comparison of ABG results with the 95% UTL reveals that some of the ABG samples were higher than background levels measured basewide (Anderson and others, 1998). Ten out of 33 surface soil samples from the ABG measured greater than the 95% UTL of 211 mg/kg. The concentrations ranged from 41.2–1410 mg/kg with an average of 298.1 mg/kg.

Subsurface soil in the ABG is comprised of clay and silt derived from the Mississippian bedrock. The soil, therefore, belongs to two of the designated background level categories in the Basewide Background Soils Investigation, the Mississippian subsurface clay (MBC) and Mississippian subsurface silt (MBL). The 95% UTL of the background level for MBC is 123 mg/kg. Twenty-one samples out of the 32 collected significantly exceed the background concentrations. Soil type MBL has a background level with a 95% UTL of 303 mg/kg. Eight samples out of the 32 collected at the ABG significantly exceeded the background concentrations. The range for the subsurface samples is 23.1 – 1740 mg/kg with an average of 178.2 mg/kg (TtNUS, 2001). It appears that subsurface soil samples as well as surface samples at the ABG are generally greater than background concentrations measured in the same soil types. Elevated soil barium concentrations at the ABG with respect to background suggests that elevated barium concentrations in groundwater under the site may be due, in part, to historic activities at the site.

RDX concentrations were consistently elevated above the RBTL of 0.61 μg/L at several ABG wells (Figure 8.1.11). The highest RDX concentrations were measured in two wells on the upgradient, western side of the site: Wells 03C09P2 and 03C20. RDX concentrations decrease in downgradient wells towards the eastern side of the site. The decrease in RDX concentrations downgradient could be due to attenuation and/or dilution from increased recharge on the eastern portion of the site. In addition, RDX is migrating offsite by way of karst solution features; RDX was detected above the RBTL all four quarters in both Spring A and Spring C (Figures 8.1.5-8.1.8). Some of the measured concentrations in the wells and springs are over two orders of magnitude greater than the RBTL. Nitro-toluene daughter products were also found exiting Spring A. The presence of the degradation products indicates that some natural attenuation of explosives is occurring in the system.

Statistical results determined that four wells and one of the springs exhibited RDX concentrations greater than the RBTL and significantly higher than background (Table 8.1.1). The number of ABG wells exceeding both thresholds for RDX has decreased between 2000 and 2003. In 2000, eight wells exhibited concentrations that were greater than the RBTL and significantly high. In 2001, seven wells exhibited concentrations that exceeded both thresholds. Sites exceeding the concentration and the statistical threshold in 2002 and 2003 included four POC Wells: 03C07, 03C08P2, 03C09P2, and 03C20 and also Spring A. The decrease in the number of wells exceeding both thresholds at the site may be due to natural attenuation.

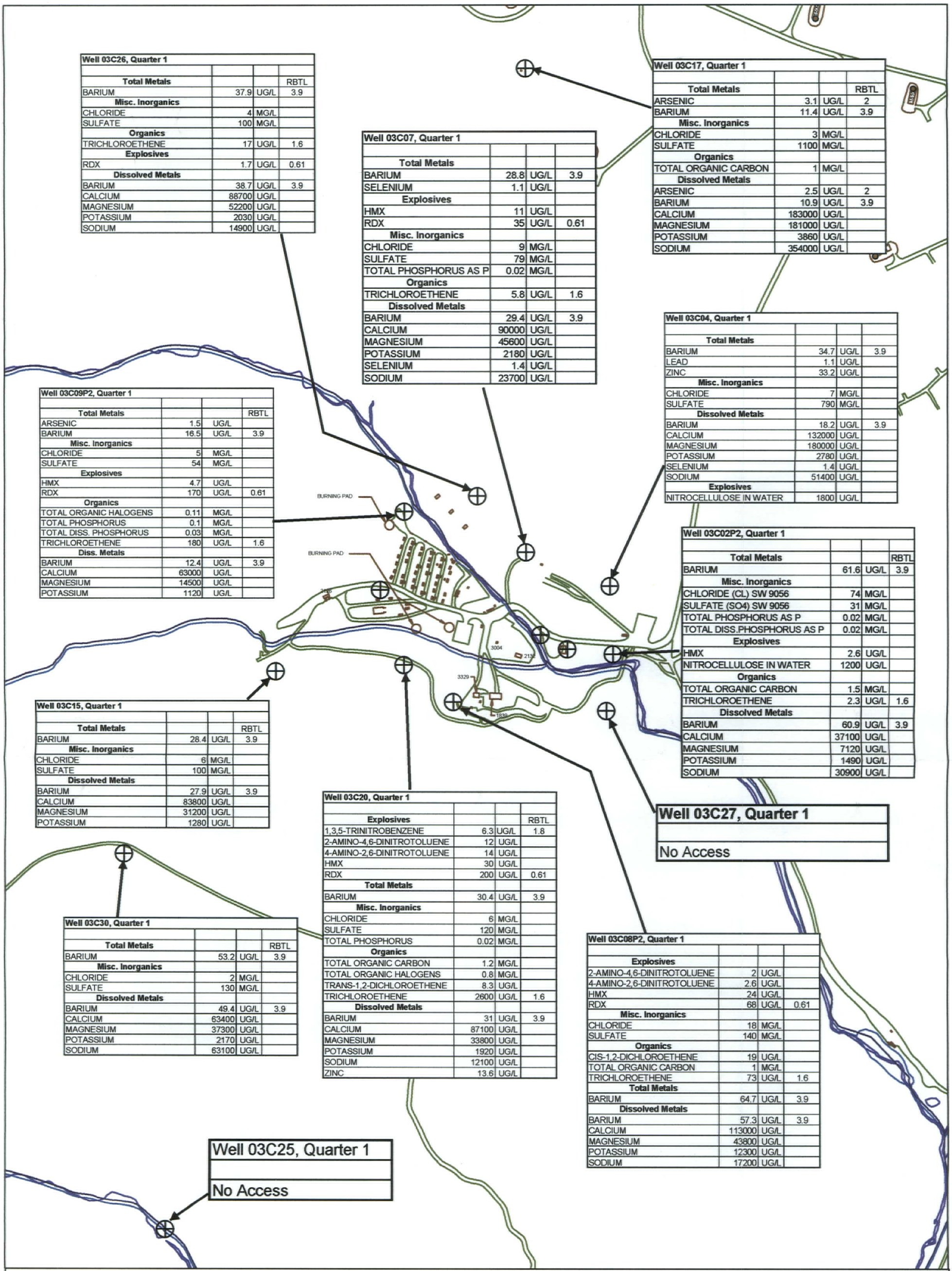
Trichloroethene (TCE) was detected at concentrations above the RBTL of 1.6 μg/L at several of the wells within the ABG site proper (Figure 8.1.12). Historically, the highest TCE concentrations have been measured in Well 03C09P2 located on the upgradient, northwestern portion of the site (Murphy, 1994). In quarterly monitoring between 2000 and 2003, Well 03C20 has consistently exhibited the highest concentrations at the site, with concentrations around three orders of magnitude higher than the RBTL. The high concentrations measured downgradient from the historic high may be an indication that the plume is moving through the site.

The number of ABG wells exceeding both thresholds for TCE decreased sharply from 2001 when ten wells were found to have concentrations that exceeded both the concentration and statistical thresholds. Results from year 2002 indicate that two wells, POC Wells 03C09P2 and 03C20, exceeded both thresholds for TCE. Results from 2003 data show that there were seven wells that exceeded both thresholds for TCE. The decrease in the number of wells exceeding both thresholds at the site from 2001 to 2002 may be due to natural attenuation, even though there has been an increase in the number from 2002-2003.

HMX was consistently detected in several monitoring wells (Figure 8.1.13) and the springs (Figures 8.1.5-8.1.8). Spring A exhibited HMX concentrations in each of the four quarters at levels comparable to those found in the wells. Results for Spring A and several of the wells were significantly high when compared to non-detections in the background well (Table 7.138). However, all of the measured concentrations were well below the RBTL of 1800 μg/L.

Table 8.1.1 Ammunition Burning Ground Monitoring Points with results exceeding an established RBTL and statistically higher than background. [C = Compliance; Cl = Closure; CA = Corrective Action; NA = Natural Attenuation; K = Karst; ND = No Data]

Parameter	Well	MP Objective	2003 RBTL Exceedances by Quarter			
			1st	2nd	3rd	4th
EXPLOSIVES						
1,3,5-Trinitrobenzene	03C20	C,Cl,K	X	X	X	X
2,4,6-Trinitrobenzene	SPA	C,Cl,NA,K		X	X	
RDX	03C07	C,Cl,K	X	X	X	X
	03C08P2	C,Cl,K	X	X	X	X
	03C09P2	C,Cl,K	X	X	X	X
	03C20	C,Cl,K	X	X	X	X
	SPA	C,Cl,NA,K	X	X	X	X
METALS						
Barium	03C02P2	C,Cl,K	X	X	X	X
	03C04	C,Cl,NA,K	X	X	X	X
	03C07	C,Cl,K	X	X	X	X
	03C08P2	C,Cl,K	X	X	X	X
	03C15	C,Cl,K	X	X	X	X
	03C20	C,Cl,K	X	X	X	X
	03C26	C,Cl,K	X	X	X	X
	03C27	C,Cl,K	ND	X	X	X
	03C30	C,CA,Cl,K	X	X	X	X
	SPA	C,Cl,NA,K	X	X	X	X
	SPC	C,Cl,NA,K	X	X	X	X
Barium (filtered)	03C02P2	C,Cl,K	X	X	X	X
	03C04	C,Cl,NA,K	X	X	X	X
	03C07	C,Cl,K	X	X	X	X
	03C08P2	C,Cl,K	X	X	X	X
	03C15	C,Cl,K	X	X	X	X
	03C20	C,Cl,K	X	X	X	X
	03C26	C,Cl,K	X	X	X	X
	03C27	C,Cl,K	ND	X	X	X
	03C30	C,CA,Cl,K	X	X	X	X
	SPA	C,Cl,NA,K	X	X	X	X
	SPC	C,Cl,NA,K	X	X	X	X
Zinc (filtered)	03C20	C,Cl,K		X		X
	SPA	C,Cl,NA,K		X		
VOLATILE ORGANIC COMPOUNDS						
1,2-Dichloroethane	03C09P2	C,Cl,K		X		
Carbon Tetrachloride	03C09P2	C,Cl,K		X		
Chloroform	03C09P2	C,Cl,K		X		
	03C20	C,Cl,K		X		
Cis-1,2-Dichloroethene	03C20	C,Cl,K		X	X	X
Tetrachloroethene	03C20	C,Cl,K		X		
Trichloroethene	03C02P2	C,Cl,K	X	X	X	X
	03C07	C,Cl,K	X		X	X
	O3C08P2	C,Cl,K	X	X	X	X
	03C09P2	C,Cl,K	X	X	X	
	03C20	C,Cl,K	X	X	X	X
	03C26	C,Cl,K	X	X		X
	O3C27	C,Cl,K	ND	X	X	X



Well 03C26, Quarter 1			
Total Metals			RBTL
BARIUM	37.9	UG/L	3.9
Misc. Inorganics			
CHLORIDE	4	MG/L	
SULFATE	100	MG/L	
Organics			
TRICHLOROETHENE	17	UG/L	1.6
Explosives			
RDX	1.7	UG/L	0.61
Dissolved Metals			
BARIUM	38.7	UG/L	3.9
CALCIUM	88700	UG/L	
MAGNESIUM	52200	UG/L	
POTASSIUM	2030	UG/L	
SODIUM	14900	UG/L	

Well 03C07, Quarter 1			
Total Metals			
BARIUM	28.8	UG/L	3.9
SELENIUM	1.1	UG/L	
Explosives			
HMX	11	UG/L	
RDX	35	UG/L	0.61
Misc. Inorganics			
CHLORIDE	9	MG/L	
SULFATE	79	MG/L	
TOTAL PHOSPHORUS AS P	0.02	MG/L	
Organics			
TRICHLOROETHENE	5.8	UG/L	1.6
Dissolved Metals			
BARIUM	29.4	UG/L	3.9
CALCIUM	90000	UG/L	
MAGNESIUM	45600	UG/L	
POTASSIUM	2180	UG/L	
SELENIUM	1.4	UG/L	
SODIUM	23700	UG/L	

Well 03C17, Quarter 1			
Total Metals			RBTL
ARSENIC	3.1	UG/L	2
BARIUM	11.4	UG/L	3.9
Misc. Inorganics			
CHLORIDE	3	MG/L	
SULFATE	1100	MG/L	
Organics			
TOTAL ORGANIC CARBON	1	MG/L	
Dissolved Metals			
ARSENIC	2.5	UG/L	2
BARIUM	10.9	UG/L	3.9
CALCIUM	183000	UG/L	
MAGNESIUM	181000	UG/L	
POTASSIUM	3860	UG/L	
SODIUM	354000	UG/L	

Well 03C04, Quarter 1			
Total Metals			
BARIUM	34.7	UG/L	3.9
LEAD	1.1	UG/L	
ZINC	33.2	UG/L	
Misc. Inorganics			
CHLORIDE	7	MG/L	
SULFATE	790	MG/L	
Dissolved Metals			
BARIUM	18.2	UG/L	3.9
CALCIUM	132000	UG/L	
MAGNESIUM	180000	UG/L	
POTASSIUM	2780	UG/L	
SELENIUM	1.4	UG/L	
SODIUM	51400	UG/L	
Explosives			
NITROCELLULOSE IN WATER	1800	UG/L	

Well 03C09P2, Quarter 1			
Total Metals			RBTL
ARSENIC	1.5	UG/L	
BARIUM	16.5	UG/L	3.9
Misc. Inorganics			
CHLORIDE	5	MG/L	
SULFATE	54	MG/L	
Explosives			
HMX	4.7	UG/L	
RDX	170	UG/L	0.61
Organics			
TOTAL ORGANIC HALOGENS	0.11	MG/L	
TOTAL PHOSPHORUS	0.1	MG/L	
TOTAL DISS. PHOSPHORUS	0.03	MG/L	
TRICHLOROETHENE	180	UG/L	1.6
Diss. Metals			
BARIUM	12.4	UG/L	3.9
CALCIUM	63000	UG/L	
MAGNESIUM	14500	UG/L	
POTASSIUM	1120	UG/L	

Well 03C02P2, Quarter 1			
Total Metals			RBTL
BARIUM	61.6	UG/L	3.9
Misc. Inorganics			
CHLORIDE (CL) SW 9056	74	MG/L	
SULFATE (SO4) SW 9056	31	MG/L	
TOTAL PHOSPHORUS AS P	0.02	MG/L	
TOTAL DISS.PHOSPHORUS AS P	0.02	MG/L	
Explosives			
HMX	2.6	UG/L	
NITROCELLULOSE IN WATER	1200	UG/L	
Organics			
TOTAL ORGANIC CARBON	1.5	MG/L	
TRICHLOROETHENE	2.3	UG/L	1.6
Dissolved Metals			
BARIUM	60.9	UG/L	3.9
CALCIUM	37100	UG/L	
MAGNESIUM	7120	UG/L	
POTASSIUM	1490	UG/L	
SODIUM	30900	UG/L	

Well 03C15, Quarter 1			
Total Metals			RBTL
BARIUM	28.4	UG/L	3.9
Misc. Inorganics			
CHLORIDE	6	MG/L	
SULFATE	100	MG/L	
Dissolved Metals			
BARIUM	27.9	UG/L	3.9
CALCIUM	83800	UG/L	
MAGNESIUM	31200	UG/L	
POTASSIUM	1280	UG/L	

Well 03C20, Quarter 1			
Explosives			RBTL
1,3,5-TRINITROBENZENE	6.3	UG/L	1.8
2-AMINO-4,6-DINITROTOLUENE	12	UG/L	
4-AMINO-2,6-DINITROTOLUENE	14	UG/L	
HMX	30	UG/L	
RDX	200	UG/L	0.61
Total Metals			
BARIUM	30.4	UG/L	3.9
Misc. Inorganics			
CHLORIDE	6	MG/L	
SULFATE	120	MG/L	
TOTAL PHOSPHORUS	0.02	MG/L	
Organics			
TOTAL ORGANIC CARBON	1.2	MG/L	
TOTAL ORGANIC HALOGENS	0.8	MG/L	
TRANS-1,2-DICHLOROETHENE	8.3	UG/L	
TRICHLOROETHENE	2600	UG/L	1.6
Dissolved Metals			
BARIUM	31	UG/L	3.9
CALCIUM	87100	UG/L	
MAGNESIUM	33800	UG/L	
POTASSIUM	1920	UG/L	
SODIUM	12100	UG/L	
ZINC	13.6	UG/L	

Well 03C27, Quarter 1
No Access

Well 03C30, Quarter 1			
Total Metals			RBTL
BARIUM	53.2	UG/L	3.9
Misc. Inorganics			
CHLORIDE	2	MG/L	
SULFATE	130	MG/L	
Dissolved Metals			
BARIUM	49.4	UG/L	3.9
CALCIUM	63400	UG/L	
MAGNESIUM	37300	UG/L	
POTASSIUM	2170	UG/L	
SODIUM	63100	UG/L	

Well 03C08P2, Quarter 1			
Explosives			
2-AMINO-4,6-DINITROTOLUENE	2	UG/L	
4-AMINO-2,6-DINITROTOLUENE	2.6	UG/L	
HMX	24	UG/L	
RDX	68	UG/L	0.61
Misc. Inorganics			
CHLORIDE	18	MG/L	
SULFATE	140	MG/L	
Organics			
CIS-1,2-DICHLOROETHENE	19	UG/L	
TOTAL ORGANIC CARBON	1	MG/L	
TRICHLOROETHENE	73	UG/L	1.6
Total Metals			
BARIUM	64.7	UG/L	3.9
Dissolved Metals			
BARIUM	57.3	UG/L	3.9
CALCIUM	113000	UG/L	
MAGNESIUM	43800	UG/L	
POTASSIUM	12300	UG/L	
SODIUM	17200	UG/L	

Well 03C25, Quarter 1
No Access

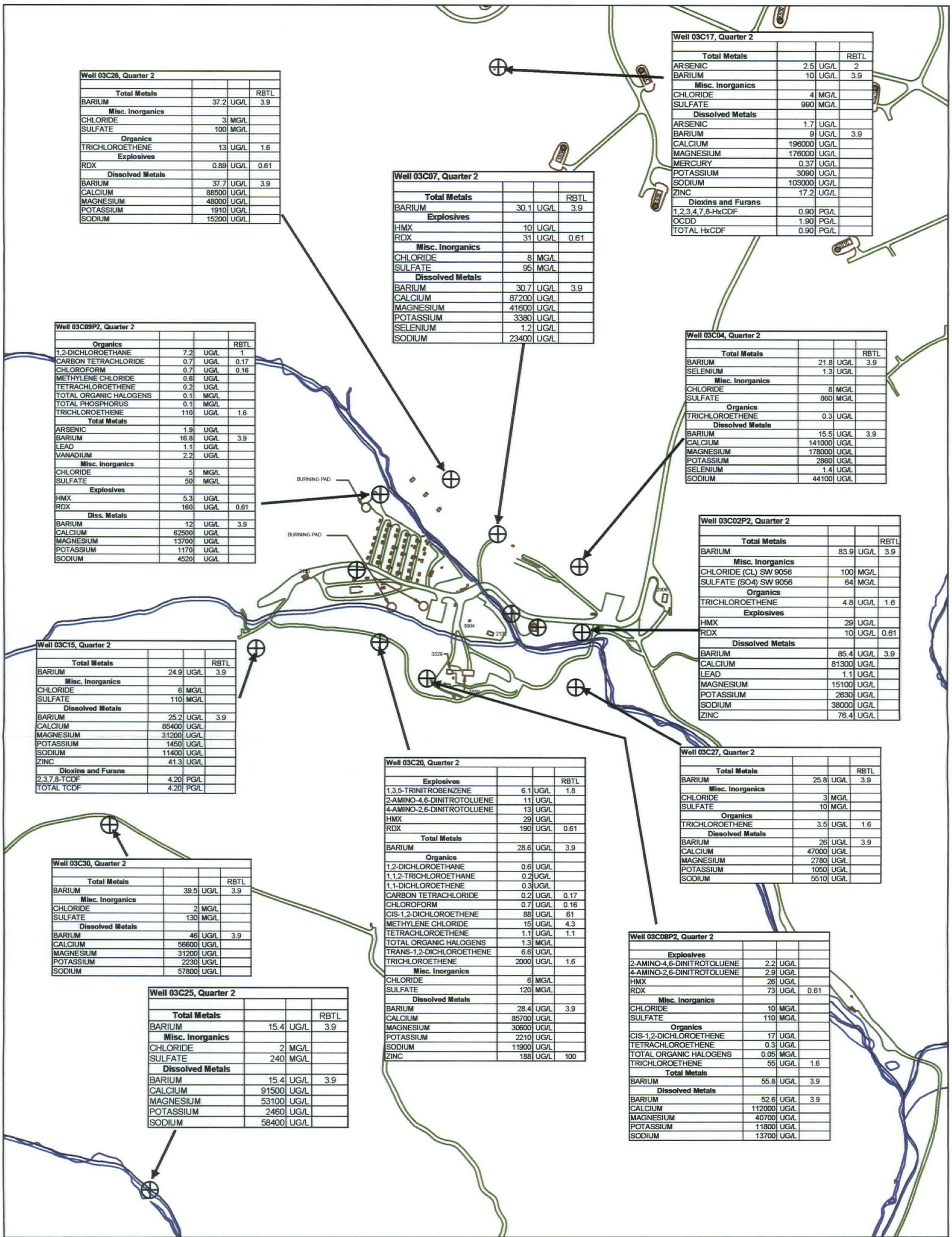
Figure 8.1.1
ORGANIC AND INORGANIC DETECTIONS
IN GROUNDWATER

AMMUNITION BURNING GROUNDS
1ST QUARTER, 2003
AQUIFER: BEECH CREEK

ABG Monitoring Wells
Roads
Streams

N
W E
S

0 275 550 1,100
Feet



Well 03C26, Quarter 2

Total Metals			RBTL
BARIUM	37.2	UG/L	3.9
Misc. Inorganics			
CHLORIDE	3	MG/L	
SULFATE	100	MG/L	
Organics			
TRICHLOROETHENE	13	UG/L	1.6
Explosives			
RDX	0.89	UG/L	0.61
Dissolved Metals			
BARIUM	37.7	UG/L	3.9
CALCIUM	88500	UG/L	
MAGNESIUM	48000	UG/L	
POTASSIUM	1910	UG/L	
SODIUM	15200	UG/L	

Well 03C17, Quarter 2

Total Metals			RBTL
ARSENIC	2.5	UG/L	2
BARIUM	10	UG/L	3.9
Misc. Inorganics			
CHLORIDE	4	MG/L	
SULFATE	990	MG/L	
Dissolved Metals			
ARSENIC	1.7	UG/L	
BARIUM	9	UG/L	3.9
CALCIUM	196000	UG/L	
MAGNESIUM	176000	UG/L	
MERCURY	0.37	UG/L	
POTASSIUM	3090	UG/L	
SODIUM	103000	UG/L	
ZINC	17.2	UG/L	
Dioxins and Furans			
1,2,3,4,7,8-HxCDF	0.90	PG/L	
OCDD	1.90	PG/L	
TOTAL HxCDF	0.90	PG/L	

Well 03C07, Quarter 2

Total Metals			RBTL
BARIUM	30.1	UG/L	3.9
Explosives			
HMX	10	UG/L	
RDX	31	UG/L	0.61
Misc. Inorganics			
CHLORIDE	8	MG/L	
SULFATE	95	MG/L	
Dissolved Metals			
BARIUM	30.7	UG/L	3.9
CALCIUM	87200	UG/L	
MAGNESIUM	41600	UG/L	
POTASSIUM	3380	UG/L	
SELENIUM	1.2	UG/L	
SODIUM	23400	UG/L	

Well 03C09P2, Quarter 2

Organics			RBTL
1,2-DICHLOROETHANE	7.2	UG/L	1
CARBON TETRACHLORIDE	0.7	UG/L	0.17
CHLOROFORM	0.7	UG/L	0.16
METHYLENE CHLORIDE	0.6	UG/L	
TETRACHLOROETHENE	0.2	UG/L	
TOTAL ORGANIC HALOGENS	0.1	MG/L	
TOTAL PHOSPHORUS	0.1	MG/L	
TRICHLOROETHENE	110	UG/L	1.6
Total Metals			
ARSENIC	1.9	UG/L	
BARIUM	16.8	UG/L	3.9
LEAD	1.1	UG/L	
VANADIUM	2.2	UG/L	
Misc. Inorganics			
CHLORIDE	5	MG/L	
SULFATE	50	MG/L	
Explosives			
HMX	5.3	UG/L	
RDX	160	UG/L	0.61
Diss. Metals			
BARIUM	12	UG/L	3.9
CALCIUM	62500	UG/L	
MAGNESIUM	13700	UG/L	
POTASSIUM	1170	UG/L	
SODIUM	4520	UG/L	

Well 03C04, Quarter 2

Total Metals			RBTL
BARIUM	21.8	UG/L	3.9
SELENIUM	1.3	UG/L	
Misc. Inorganics			
CHLORIDE	8	MG/L	
SULFATE	860	MG/L	
Organics			
TRICHLOROETHENE	0.3	UG/L	
Dissolved Metals			
BARIUM	15.5	UG/L	3.9
CALCIUM	141000	UG/L	
MAGNESIUM	178000	UG/L	
POTASSIUM	2860	UG/L	
SELENIUM	1.4	UG/L	
SODIUM	44100	UG/L	

Well 03C02P2, Quarter 2

Total Metals			RBTL
BARIUM	83.9	UG/L	3.9
Misc. Inorganics			
CHLORIDE (CL) SW 9056	100	MG/L	
SULFATE (SO4) SW 9056	64	MG/L	
Organics			
TRICHLOROETHENE	4.8	UG/L	1.6
Explosives			
HMX	29	UG/L	
RDX	10	UG/L	0.61
Dissolved Metals			
BARIUM	85.4	UG/L	3.9
CALCIUM	81300	UG/L	
LEAD	1.1	UG/L	
MAGNESIUM	15100	UG/L	
POTASSIUM	2630	UG/L	
SODIUM	38000	UG/L	
ZINC	76.4	UG/L	

Well 03C15, Quarter 2

Total Metals			RBTL
BARIUM	24.9	UG/L	3.9
Misc. Inorganics			
CHLORIDE	6	MG/L	
SULFATE	110	MG/L	
Dissolved Metals			
BARIUM	25.2	UG/L	3.9
CALCIUM	85400	UG/L	
MAGNESIUM	31200	UG/L	
POTASSIUM	1450	UG/L	
SODIUM	11400	UG/L	
ZINC	41.3	UG/L	
Dioxins and Furans			
2,3,7,8-TCDF	4.20	PG/L	
TOTAL TCDF	4.20	PG/L	

Well 03C20, Quarter 2

Explosives			RBTL
1,3,5-TRINITROBENZENE	6.1	UG/L	1.8
2-AMINO-4,6-DINITROTOLUENE	11	UG/L	
4-AMINO-2,6-DINITROTOLUENE	13	UG/L	
HMX	29	UG/L	
RDX	190	UG/L	0.61
Total Metals			
BARIUM	28.6	UG/L	3.9
Organics			
1,2-DICHLOROETHANE	0.6	UG/L	
1,1,2-TRICHLOROETHANE	0.2	UG/L	
1,1-DICHLOROETHENE	0.3	UG/L	
CARBON TETRACHLORIDE	0.2	UG/L	0.17
CHLOROFORM	0.7	UG/L	0.16
CIS-1,2-DICHLOROETHENE	88	UG/L	61
METHYLENE CHLORIDE	15	UG/L	4.3
TETRACHLOROETHENE	1.1	UG/L	1.1
TOTAL ORGANIC HALOGENS	1.3	MG/L	
TRANS-1,2-DICHLOROETHENE	6.6	UG/L	
TRICHLOROETHENE	2000	UG/L	1.6
Misc. Inorganics			
CHLORIDE	6	MG/L	
SULFATE	120	MG/L	
Dissolved Metals			
BARIUM	28.4	UG/L	3.9
CALCIUM	85700	UG/L	
MAGNESIUM	30600	UG/L	
POTASSIUM	2210	UG/L	
SODIUM	11900	UG/L	
ZINC	188	UG/L	100

Well 03C27, Quarter 2

Total Metals			RBTL
BARIUM	25.8	UG/L	3.9
Misc. Inorganics			
CHLORIDE	3	MG/L	
SULFATE	10	MG/L	
Organics			
TRICHLOROETHENE	3.5	UG/L	1.6
Dissolved Metals			
BARIUM	26	UG/L	3.9
CALCIUM	47000	UG/L	
MAGNESIUM	2780	UG/L	
POTASSIUM	1050	UG/L	
SODIUM	5510	UG/L	

Well 03C30, Quarter 2

Total Metals			RBTL
BARIUM	39.5	UG/L	3.9
Misc. Inorganics			
CHLORIDE	2	MG/L	
SULFATE	130	MG/L	
Dissolved Metals			
BARIUM	46	UG/L	3.9
CALCIUM	56600	UG/L	
MAGNESIUM	31200	UG/L	
POTASSIUM	2230	UG/L	
SODIUM	57800	UG/L	

Well 03C08P2, Quarter 2

Explosives			
2-AMINO-4,6-DINITROTOLUENE	2.2	UG/L	
4-AMINO-2,6-DINITROTOLUENE	2.9	UG/L	
HMX	26	UG/L	
RDX	73	UG/L	0.61
Misc. Inorganics			
CHLORIDE	10	MG/L	
SULFATE	110	MG/L	
Organics			
CIS-1,2-DICHLOROETHENE	17	UG/L	
TETRACHLOROETHENE	0.3	UG/L	
TOTAL ORGANIC HALOGENS	0.05	MG/L	
TRICHLOROETHENE	55	UG/L	1.6
Total Metals			
BARIUM	55.8	UG/L	3.9
Dissolved Metals			
BARIUM	52.6	UG/L	3.9
CALCIUM	112000	UG/L	
MAGNESIUM	40700	UG/L	
POTASSIUM	11800	UG/L	
SODIUM	13700	UG/L	

Well 03C25, Quarter 2

Total Metals			RBTL
BARIUM	15.4	UG/L	3.9
Misc. Inorganics			
CHLORIDE	2	MG/L	
SULFATE	240	MG/L	
Dissolved Metals			
BARIUM	15.4	UG/L	3.9
CALCIUM	91500	UG/L	
MAGNESIUM	53100	UG/L	
POTASSIUM	2460	UG/L	
SODIUM	58400	UG/L	

Figure 8.1.2
ORGANIC AND INORGANIC DETECTIONS
IN GROUNDWATER

AMMUNITION BURNING GROUNDS
2ND QUARTER 2003
AQUIFER: BEECH CREEK

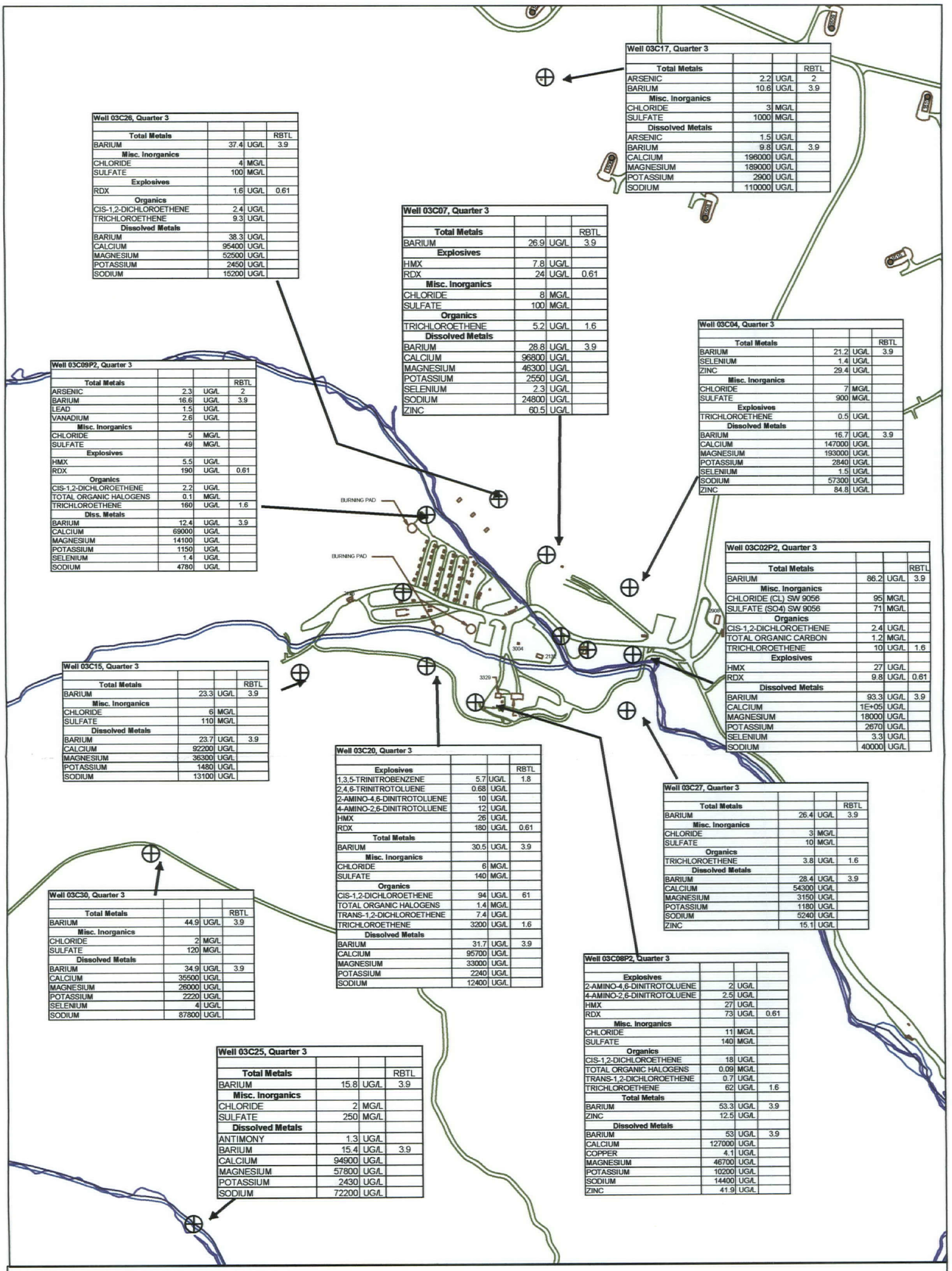
⊕ ABG Monitoring Wells

Roads

Streams

N
W E
S

0 275 550 1,100
Feet



Well 03C17, Quarter 3			
Total Metals			RBTL
ARSENIC	2.2	UG/L	2
BARIUM	10.6	UG/L	3.9
Misc. Inorganics			
CHLORIDE	3	MG/L	
SULFATE	1000	MG/L	
Dissolved Metals			
ARSENIC	1.5	UG/L	
BARIUM	9.8	UG/L	3.9
CALCIUM	196000	UG/L	
MAGNESIUM	189000	UG/L	
POTASSIUM	2900	UG/L	
SODIUM	110000	UG/L	

Well 03C26, Quarter 3			
Total Metals			RBTL
BARIUM	37.4	UG/L	3.9
Misc. Inorganics			
CHLORIDE	4	MG/L	
SULFATE	100	MG/L	
Explosives			
RDX	1.6	UG/L	0.61
Organics			
CIS-1,2-DICHLOROETHENE	2.4	UG/L	
TRICHLOROETHENE	9.3	UG/L	
Dissolved Metals			
BARIUM	38.3	UG/L	
CALCIUM	95400	UG/L	
MAGNESIUM	52500	UG/L	
POTASSIUM	2450	UG/L	
SODIUM	15200	UG/L	

Well 03C07, Quarter 3			
Total Metals			RBTL
BARIUM	26.9	UG/L	3.9
Explosives			
HMX	7.8	UG/L	
RDX	24	UG/L	0.61
Misc. Inorganics			
CHLORIDE	8	MG/L	
SULFATE	100	MG/L	
Organics			
TRICHLOROETHENE	5.2	UG/L	1.6
Dissolved Metals			
BARIUM	28.8	UG/L	3.9
CALCIUM	96800	UG/L	
MAGNESIUM	46300	UG/L	
POTASSIUM	2550	UG/L	
SELENIUM	2.3	UG/L	
SODIUM	24800	UG/L	
ZINC	60.5	UG/L	

Well 03C04, Quarter 3			
Total Metals			RBTL
BARIUM	21.2	UG/L	3.9
SELENIUM	1.4	UG/L	
ZINC	29.4	UG/L	
Misc. Inorganics			
CHLORIDE	7	MG/L	
SULFATE	900	MG/L	
Explosives			
TRICHLOROETHENE	0.5	UG/L	
Dissolved Metals			
BARIUM	16.7	UG/L	3.9
CALCIUM	147000	UG/L	
MAGNESIUM	193000	UG/L	
POTASSIUM	2840	UG/L	
SELENIUM	1.5	UG/L	
SODIUM	57300	UG/L	
ZINC	84.8	UG/L	

Well 03C09P2, Quarter 3			
Total Metals			RBTL
ARSENIC	2.3	UG/L	2
BARIUM	16.6	UG/L	3.9
LEAD	1.5	UG/L	
VANADIUM	2.6	UG/L	
Misc. Inorganics			
CHLORIDE	5	MG/L	
SULFATE	49	MG/L	
Explosives			
HMX	5.5	UG/L	
RDX	190	UG/L	0.61
Organics			
CIS-1,2-DICHLOROETHENE	2.2	UG/L	
TOTAL ORGANIC HALOGENS	0.1	MG/L	
TRICHLOROETHENE	160	UG/L	1.6
Diss. Metals			
BARIUM	12.4	UG/L	3.9
CALCIUM	69000	UG/L	
MAGNESIUM	14100	UG/L	
POTASSIUM	1150	UG/L	
SELENIUM	1.4	UG/L	
SODIUM	4780	UG/L	

Well 03C02P2, Quarter 3			
Total Metals			RBTL
BARIUM	86.2	UG/L	3.9
Misc. Inorganics			
CHLORIDE (CL) SW 9056	95	MG/L	
SULFATE (SO4) SW 9056	71	MG/L	
Organics			
CIS-1,2-DICHLOROETHENE	2.4	UG/L	
TOTAL ORGANIC CARBON	1.2	MG/L	
TRICHLOROETHENE	10	UG/L	1.6
Explosives			
HMX	27	UG/L	
RDX	9.8	UG/L	0.61
Dissolved Metals			
BARIUM	93.3	UG/L	3.9
CALCIUM	1E+05	UG/L	
MAGNESIUM	18000	UG/L	
POTASSIUM	2670	UG/L	
SELENIUM	3.3	UG/L	
SODIUM	40000	UG/L	

Well 03C15, Quarter 3			
Total Metals			RBTL
BARIUM	23.3	UG/L	3.9
Misc. Inorganics			
CHLORIDE	6	MG/L	
SULFATE	110	MG/L	
Dissolved Metals			
BARIUM	23.7	UG/L	3.9
CALCIUM	92200	UG/L	
MAGNESIUM	36300	UG/L	
POTASSIUM	1480	UG/L	
SODIUM	13100	UG/L	

Well 03C20, Quarter 3			
Explosives			RBTL
1,3,5-TRINITROBENZENE	5.7	UG/L	1.8
2,4,6-TRINITROTOLUENE	0.68	UG/L	
2-AMINO-4,6-DINITROTOLUENE	10	UG/L	
4-AMINO-2,6-DINITROTOLUENE	12	UG/L	
HMX	26	UG/L	
RDX	180	UG/L	0.61
Total Metals			
BARIUM	30.5	UG/L	3.9
Misc. Inorganics			
CHLORIDE	6	MG/L	
SULFATE	140	MG/L	
Organics			
CIS-1,2-DICHLOROETHENE	94	UG/L	61
TOTAL ORGANIC HALOGENS	1.4	MG/L	
TRANS-1,2-DICHLOROETHENE	7.4	UG/L	
TRICHLOROETHENE	3200	UG/L	1.6
Dissolved Metals			
BARIUM	31.7	UG/L	3.9
CALCIUM	95700	UG/L	
MAGNESIUM	33000	UG/L	
POTASSIUM	2240	UG/L	
SODIUM	12400	UG/L	

Well 03C27, Quarter 3			
Total Metals			RBTL
BARIUM	26.4	UG/L	3.9
Misc. Inorganics			
CHLORIDE	3	MG/L	
SULFATE	10	MG/L	
Organics			
TRICHLOROETHENE	3.8	UG/L	1.6
Dissolved Metals			
BARIUM	28.4	UG/L	3.9
CALCIUM	54300	UG/L	
MAGNESIUM	3150	UG/L	
POTASSIUM	1180	UG/L	
SODIUM	5240	UG/L	
ZINC	15.1	UG/L	

Well 03C30, Quarter 3			
Total Metals			RBTL
BARIUM	44.9	UG/L	3.9
Misc. Inorganics			
CHLORIDE	2	MG/L	
SULFATE	120	MG/L	
Dissolved Metals			
BARIUM	34.9	UG/L	3.9
CALCIUM	35500	UG/L	
MAGNESIUM	26000	UG/L	
POTASSIUM	2220	UG/L	
SELENIUM	4	UG/L	
SODIUM	87800	UG/L	

Well 03C08P2, Quarter 3			
Explosives			
2-AMINO-4,6-DINITROTOLUENE	2	UG/L	
4-AMINO-2,6-DINITROTOLUENE	2.5	UG/L	
HMX	27	UG/L	
RDX	73	UG/L	0.61
Misc. Inorganics			
CHLORIDE	11	MG/L	
SULFATE	140	MG/L	
Organics			
CIS-1,2-DICHLOROETHENE	18	UG/L	
TOTAL ORGANIC HALOGENS	0.09	MG/L	
TRANS-1,2-DICHLOROETHENE	0.7	UG/L	
TRICHLOROETHENE	62	UG/L	1.6
Total Metals			
BARIUM	53.3	UG/L	3.9
ZINC	12.5	UG/L	
Dissolved Metals			
BARIUM	53	UG/L	3.9
CALCIUM	127000	UG/L	
COPPER	4.1	UG/L	
MAGNESIUM	46700	UG/L	
POTASSIUM	10200	UG/L	
SODIUM	14400	UG/L	
ZINC	41.9	UG/L	

Well 03C25, Quarter 3			
Total Metals			RBTL
BARIUM	15.8	UG/L	3.9
Misc. Inorganics			
CHLORIDE	2	MG/L	
SULFATE	250	MG/L	
Dissolved Metals			
ANTIMONY	1.3	UG/L	
BARIUM	15.4	UG/L	3.9
CALCIUM	94900	UG/L	
MAGNESIUM	57800	UG/L	
POTASSIUM	2430	UG/L	
SODIUM	72200	UG/L	

Figure 8.1.3
ORGANIC AND INORGANIC DETECTIONS
IN GROUNDWATER

AMMUNITION BURNING GROUNDS
3RD QUARTER 2003
AQUIFER: BEECH CREEK

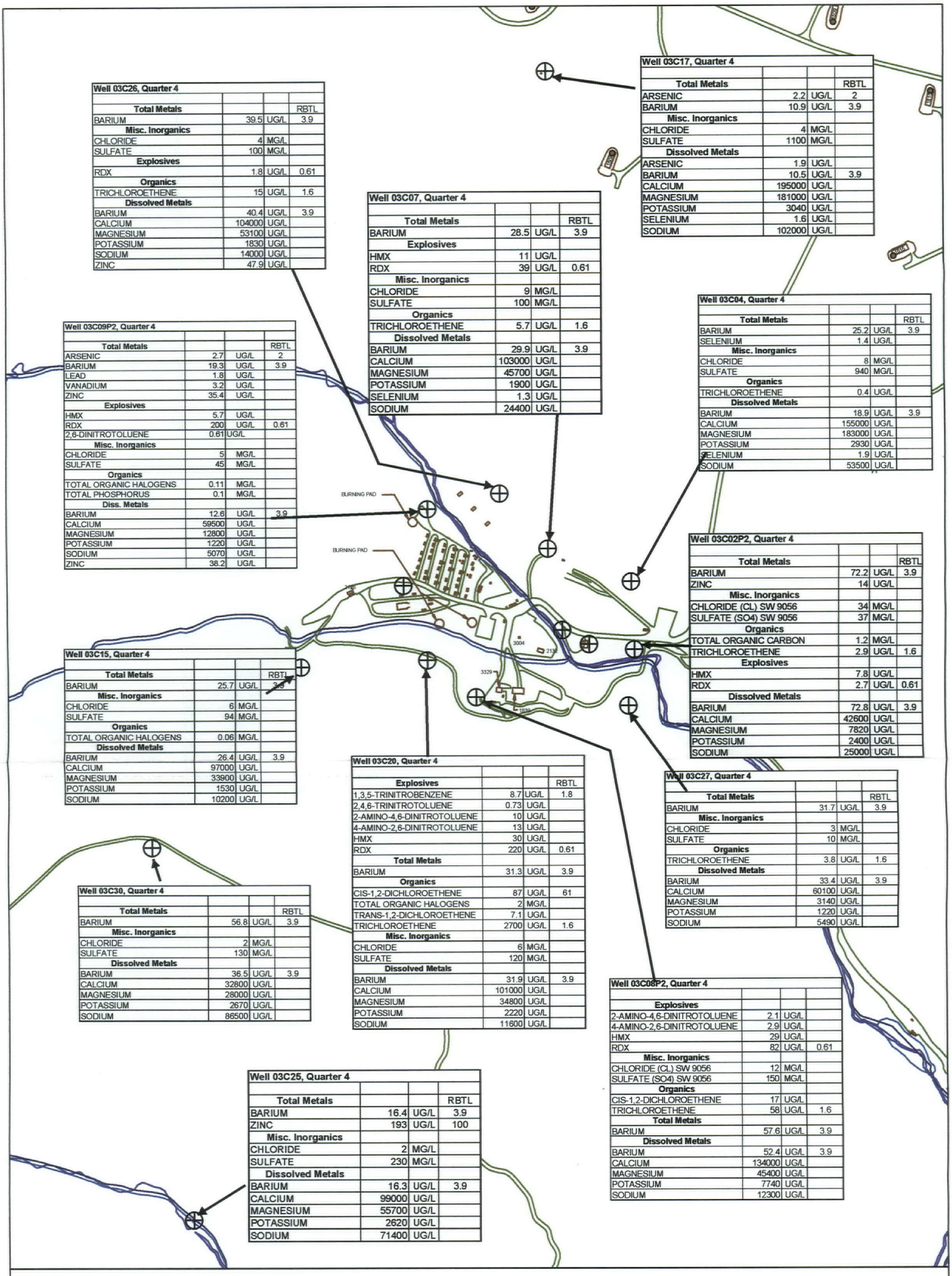
⊕ ABG Monitoring Wells

Roads

Streams

N
W E
S

0 275 550 1,100
Feet



Well 03C26, Quarter 4			
Total Metals			RBTL
BARIUM	39.5	UG/L	3.9
Misc. Inorganics			
CHLORIDE	4	MG/L	
SULFATE	100	MG/L	
Explosives			
RDX	1.8	UG/L	0.61
Organics			
TRICHLOROETHENE	15	UG/L	1.6
Dissolved Metals			
BARIUM	40.4	UG/L	3.9
CALCIUM	104000	UG/L	
MAGNESIUM	53100	UG/L	
POTASSIUM	1830	UG/L	
SODIUM	14000	UG/L	
ZINC	47.9	UG/L	

Well 03C17, Quarter 4			
Total Metals			RBTL
ARSENIC	2.2	UG/L	2
BARIUM	10.9	UG/L	3.9
Misc. Inorganics			
CHLORIDE	4	MG/L	
SULFATE	1100	MG/L	
Dissolved Metals			
ARSENIC	1.9	UG/L	
BARIUM	10.5	UG/L	3.9
CALCIUM	195000	UG/L	
MAGNESIUM	181000	UG/L	
POTASSIUM	3040	UG/L	
SELENIUM	1.6	UG/L	
SODIUM	102000	UG/L	

Well 03C07, Quarter 4			
Total Metals			RBTL
BARIUM	28.5	UG/L	3.9
Explosives			
HMX	11	UG/L	
RDX	39	UG/L	0.61
Misc. Inorganics			
CHLORIDE	9	MG/L	
SULFATE	100	MG/L	
Organics			
TRICHLOROETHENE	5.7	UG/L	1.6
Dissolved Metals			
BARIUM	29.9	UG/L	3.9
CALCIUM	103000	UG/L	
MAGNESIUM	45700	UG/L	
POTASSIUM	1900	UG/L	
SELENIUM	1.3	UG/L	
SODIUM	24400	UG/L	

Well 03C04, Quarter 4			
Total Metals			RBTL
BARIUM	25.2	UG/L	3.9
SELENIUM	1.4	UG/L	
Misc. Inorganics			
CHLORIDE	8	MG/L	
SULFATE	940	MG/L	
Organics			
TRICHLOROETHENE	0.4	UG/L	
Dissolved Metals			
BARIUM	18.9	UG/L	3.9
CALCIUM	155000	UG/L	
MAGNESIUM	183000	UG/L	
POTASSIUM	2930	UG/L	
SELENIUM	1.9	UG/L	
SODIUM	53500	UG/L	

Well 03C09P2, Quarter 4			
Total Metals			RBTL
ARSENIC	2.7	UG/L	2
BARIUM	19.3	UG/L	3.9
LEAD	1.8	UG/L	
VANADIUM	3.2	UG/L	
ZINC	35.4	UG/L	
Explosives			
HMX	5.7	UG/L	
RDX	200	UG/L	0.61
2,6-DINITROTOLUENE	0.61	UG/L	
Misc. Inorganics			
CHLORIDE	5	MG/L	
SULFATE	45	MG/L	
Organics			
TOTAL ORGANIC HALOGENS	0.11	MG/L	
TOTAL PHOSPHORUS	0.1	MG/L	
Diss. Metals			
BARIUM	12.6	UG/L	3.9
CALCIUM	59500	UG/L	
MAGNESIUM	12800	UG/L	
POTASSIUM	1220	UG/L	
SODIUM	5070	UG/L	
ZINC	38.2	UG/L	

Well 03C02P2, Quarter 4			
Total Metals			RBTL
BARIUM	72.2	UG/L	3.9
ZINC	14	UG/L	
Misc. Inorganics			
CHLORIDE (CL) SW 9056	34	MG/L	
SULFATE (SO4) SW 9056	37	MG/L	
Organics			
TOTAL ORGANIC CARBON	1.2	MG/L	
TRICHLOROETHENE	2.9	UG/L	1.6
Explosives			
HMX	7.8	UG/L	
RDX	2.7	UG/L	0.61
Dissolved Metals			
BARIUM	72.8	UG/L	3.9
CALCIUM	42600	UG/L	
MAGNESIUM	7820	UG/L	
POTASSIUM	2400	UG/L	
SODIUM	25000	UG/L	

Well 03C15, Quarter 4			
Total Metals			RBTL
BARIUM	25.7	UG/L	3.9
Misc. Inorganics			
CHLORIDE	6	MG/L	
SULFATE	94	MG/L	
Organics			
TOTAL ORGANIC HALOGENS	0.06	MG/L	
Dissolved Metals			
BARIUM	26.4	UG/L	3.9
CALCIUM	97000	UG/L	
MAGNESIUM	33900	UG/L	
POTASSIUM	1530	UG/L	
SODIUM	10200	UG/L	

Well 03C20, Quarter 4			
Explosives			RBTL
1,3,5-TRINITROBENZENE	8.7	UG/L	1.8
2,4,6-TRINITROTOLUENE	0.73	UG/L	
2-AMINO-4,6-DINITROTOLUENE	10	UG/L	
4-AMINO-2,6-DINITROTOLUENE	13	UG/L	
HMX	30	UG/L	
RDX	220	UG/L	0.61
Total Metals			
BARIUM	31.3	UG/L	3.9
Organics			
CIS-1,2-DICHLOROETHENE	87	UG/L	61
TOTAL ORGANIC HALOGENS	2	MG/L	
TRANS-1,2-DICHLOROETHENE	7.1	UG/L	
TRICHLOROETHENE	2700	UG/L	1.6
Misc. Inorganics			
CHLORIDE	6	MG/L	
SULFATE	120	MG/L	
Dissolved Metals			
BARIUM	31.9	UG/L	3.9
CALCIUM	101000	UG/L	
MAGNESIUM	34800	UG/L	
POTASSIUM	2220	UG/L	
SODIUM	11600	UG/L	

Well 03C27, Quarter 4			
Total Metals			RBTL
BARIUM	31.7	UG/L	3.9
Misc. Inorganics			
CHLORIDE	3	MG/L	
SULFATE	10	MG/L	
Organics			
TRICHLOROETHENE	3.8	UG/L	1.6
Dissolved Metals			
BARIUM	33.4	UG/L	3.9
CALCIUM	60100	UG/L	
MAGNESIUM	3140	UG/L	
POTASSIUM	1220	UG/L	
SODIUM	5490	UG/L	

Well 03C30, Quarter 4			
Total Metals			RBTL
BARIUM	56.8	UG/L	3.9
Misc. Inorganics			
CHLORIDE	2	MG/L	
SULFATE	130	MG/L	
Dissolved Metals			
BARIUM	36.5	UG/L	3.9
CALCIUM	32800	UG/L	
MAGNESIUM	28000	UG/L	
POTASSIUM	2670	UG/L	
SODIUM	86500	UG/L	

Well 03C08P2, Quarter 4			
Explosives			
2-AMINO-4,6-DINITROTOLUENE	2.1	UG/L	
4-AMINO-2,6-DINITROTOLUENE	2.9	UG/L	
HMX	29	UG/L	
RDX	82	UG/L	0.61
Misc. Inorganics			
CHLORIDE (CL) SW 9056	12	MG/L	
SULFATE (SO4) SW 9056	150	MG/L	
Organics			
CIS-1,2-DICHLOROETHENE	17	UG/L	
TRICHLOROETHENE	58	UG/L	1.6
Total Metals			
BARIUM	57.6	UG/L	3.9
Dissolved Metals			
BARIUM	52.4	UG/L	3.9
CALCIUM	134000	UG/L	
MAGNESIUM	45400	UG/L	
POTASSIUM	7740	UG/L	
SODIUM	12300	UG/L	

Well 03C25, Quarter 4			
Total Metals			RBTL
BARIUM	16.4	UG/L	3.9
ZINC	193	UG/L	100
Misc. Inorganics			
CHLORIDE	2	MG/L	
SULFATE	230	MG/L	
Dissolved Metals			
BARIUM	16.3	UG/L	3.9
CALCIUM	99000	UG/L	
MAGNESIUM	55700	UG/L	
POTASSIUM	2620	UG/L	
SODIUM	71400	UG/L	

Figure 8.1.4
ORGANIC AND INORGANIC DETECTIONS
IN GROUNDWATER

AMMUNITION BURNING GROUNDS
4TH QUARTER 2003
AQUIFER: BEECH CREEK

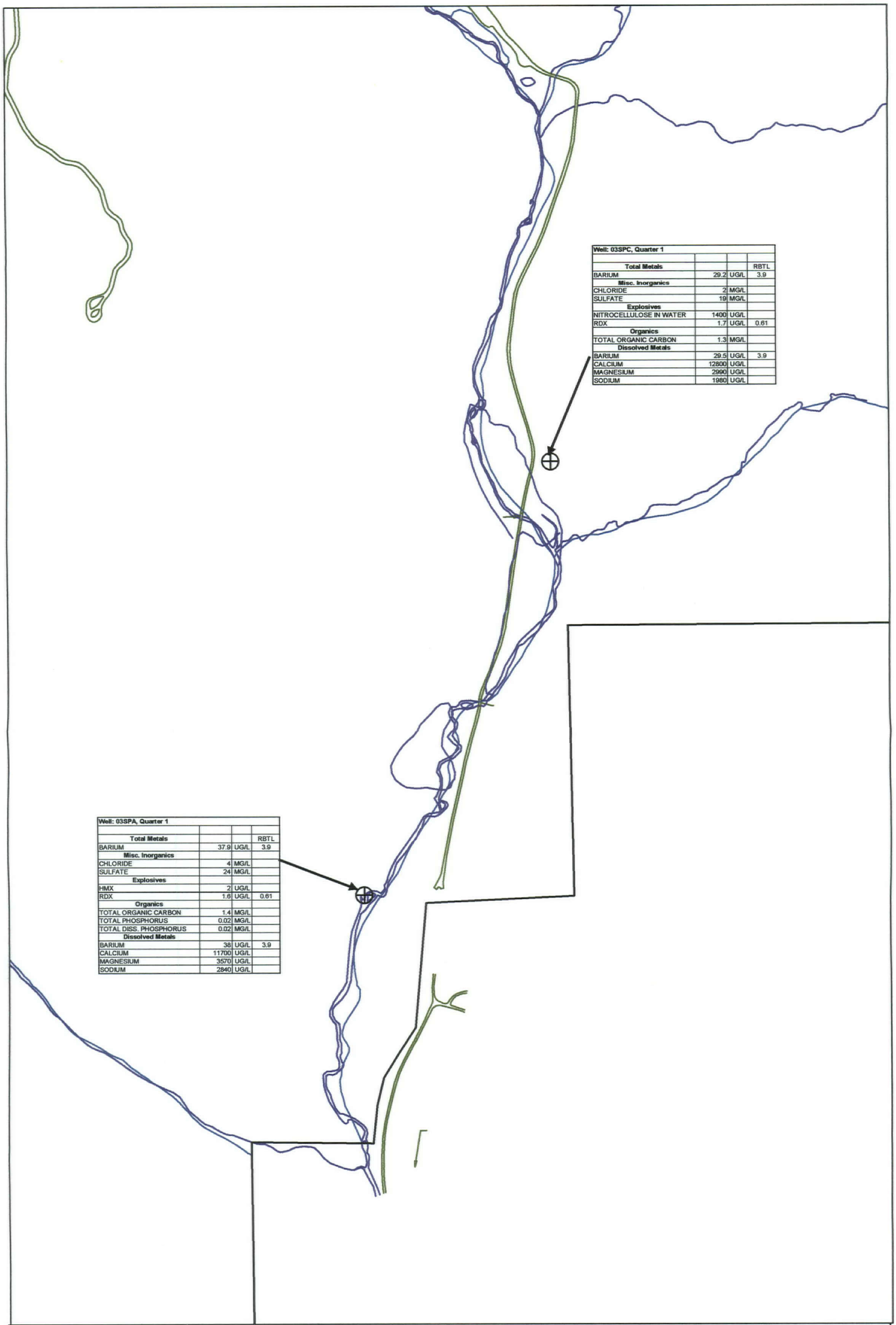
⊕ ABG Monitoring Wells

Roads

Streams

N
W E
S

0 275 550 1,100
Feet



Well: 03SPC, Quarter 1			
Total Metals			RBTL
BARIUM	29.2	UG/L	3.9
Misc. Inorganics			
CHLORIDE	2	MG/L	
SULFATE	19	MG/L	
Explosives			
NITROCELLULOSE IN WATER	1400	UG/L	
RDX	1.7	UG/L	0.61
Organics			
TOTAL ORGANIC CARBON	1.3	MG/L	
Dissolved Metals			
BARIUM	29.5	UG/L	3.9
CALCIUM	12800	UG/L	
MAGNESIUM	2990	UG/L	
SODIUM	1980	UG/L	

Well: 03SPA, Quarter 1			
Total Metals			RBTL
BARIUM	37.9	UG/L	3.9
Misc. Inorganics			
CHLORIDE	4	MG/L	
SULFATE	24	MG/L	
Explosives			
HMX	2	UG/L	
RDX	1.6	UG/L	0.61
Organics			
TOTAL ORGANIC CARBON	1.4	MG/L	
TOTAL PHOSPHORUS	0.02	MG/L	
TOTAL DISS. PHOSPHORUS	0.02	MG/L	
Dissolved Metals			
BARIUM	38	UG/L	3.9
CALCIUM	11700	UG/L	
MAGNESIUM	3570	UG/L	
SODIUM	2840	UG/L	

Figure 8.1.5
ORGANIC AND INORGANIC DETECTIONS

SPRINGS
1ST QUARTER, 2003

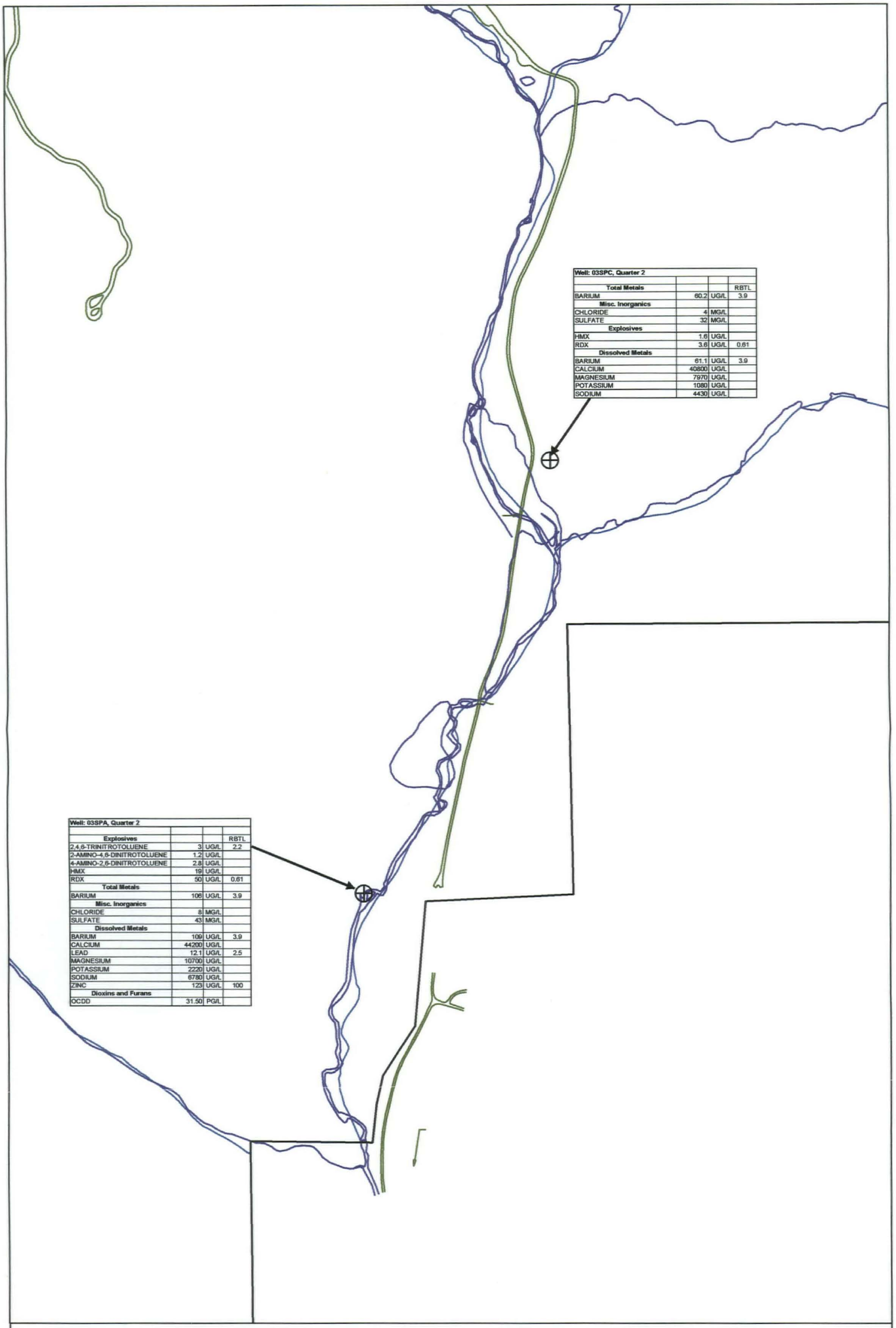
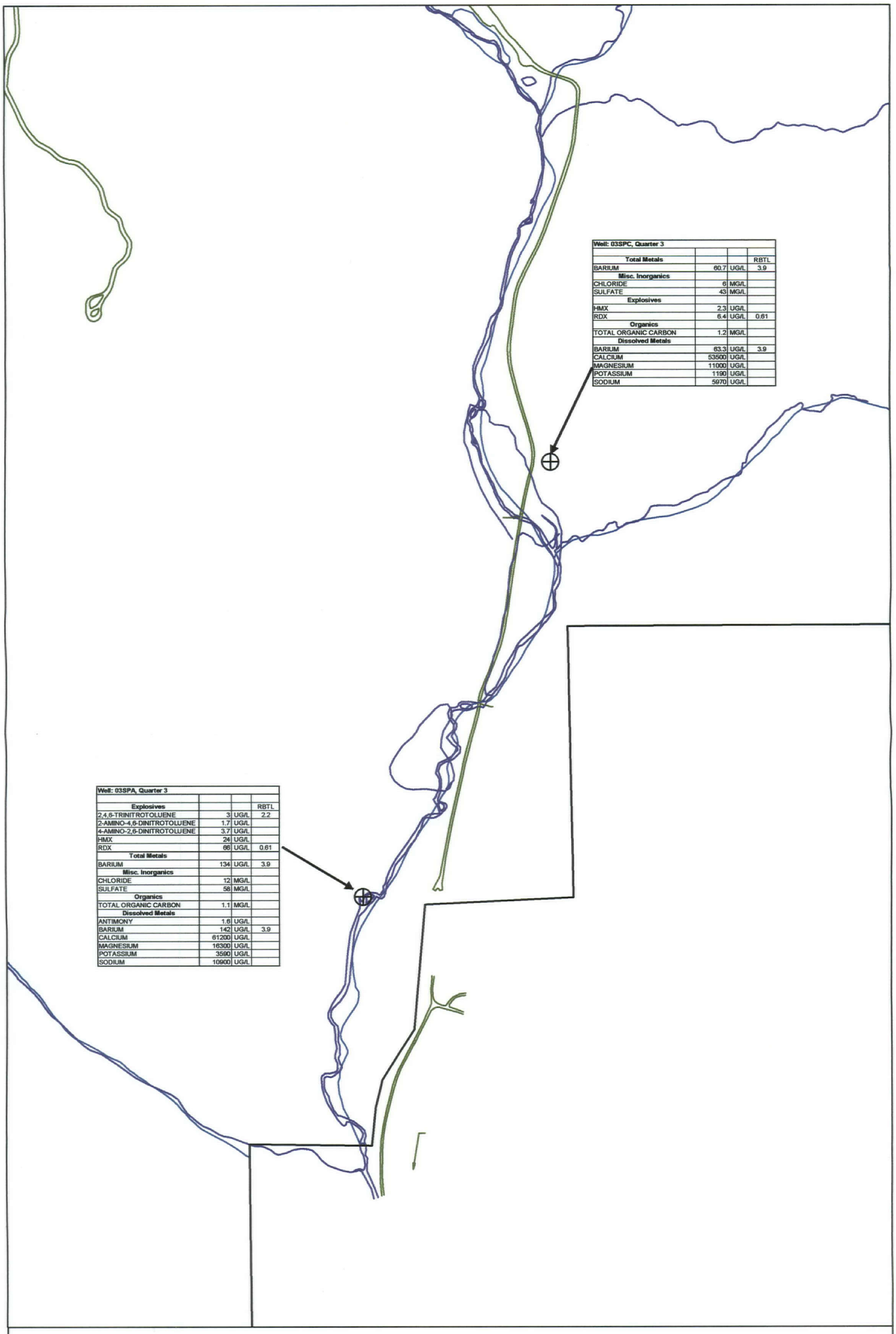


Figure 8.1.6
ORGANIC AND INORGANIC DETECTIONS

SPRINGS
2ND QUARTER, 2003

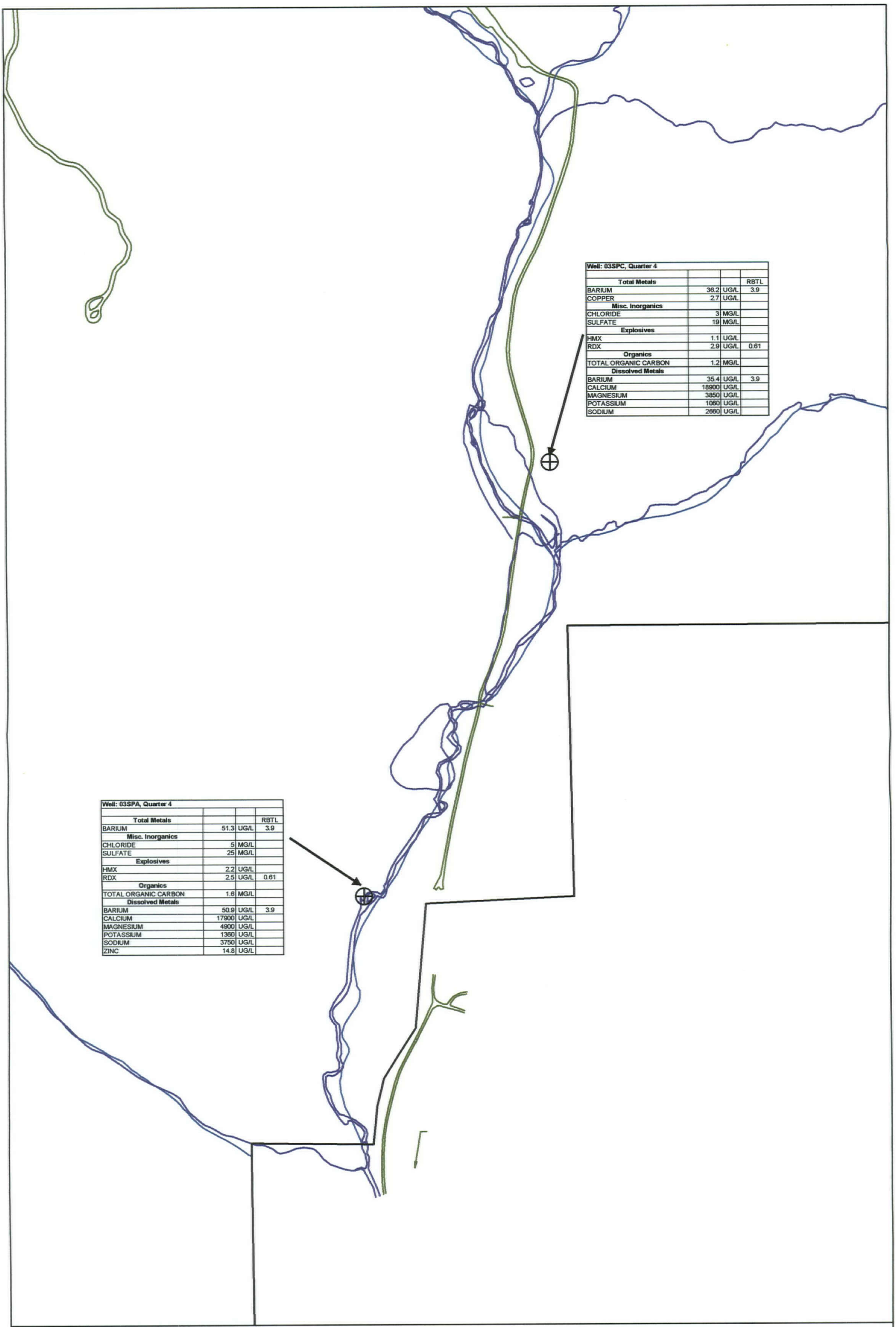


Well: 03SPC, Quarter 3			
Total Metals			RBTL
BARIUM	60.7	UG/L	3.9
Misc. Inorganics			
CHLORIDE	6	MG/L	
SULFATE	43	MG/L	
Explosives			
HMX	2.3	UG/L	
RDX	6.4	UG/L	0.61
Organics			
TOTAL ORGANIC CARBON	1.2	MG/L	
Dissolved Metals			
BARIUM	63.3	UG/L	3.9
CALCIUM	53500	UG/L	
MAGNESIUM	11000	UG/L	
POTASSIUM	1190	UG/L	
SODIUM	5970	UG/L	

Well: 03SPA, Quarter 3			
Explosives			RBTL
2,4,6-TRINITROTOLUENE	3	UG/L	2.2
2-AMINO-4,6-DINITROTOLUENE	1.7	UG/L	
4-AMINO-2,6-DINITROTOLUENE	3.7	UG/L	
HMX	24	UG/L	
RDX	66	UG/L	0.61
Total Metals			
BARIUM	134	UG/L	3.9
Misc. Inorganics			
CHLORIDE	12	MG/L	
SULFATE	58	MG/L	
Organics			
TOTAL ORGANIC CARBON	1.1	MG/L	
Dissolved Metals			
ANTIMONY	1.6	UG/L	
BARIUM	142	UG/L	3.9
CALCIUM	61200	UG/L	
MAGNESIUM	16300	UG/L	
POTASSIUM	3590	UG/L	
SODIUM	10900	UG/L	

Figure 8.1.7
ORGANIC AND INORGANIC DETECTIONS

SPRINGS
3RD QUARTER, 2003



Well: 03SPC, Quarter 4			
Total Metals			RBTL
BARIUM	36.2	UG/L	3.9
COPPER	2.7	UG/L	
Misc. Inorganics			
CHLORIDE	3	MG/L	
SULFATE	19	MG/L	
Explosives			
HMX	1.1	UG/L	
RDX	2.9	UG/L	0.61
Organics			
TOTAL ORGANIC CARBON	1.2	MG/L	
Dissolved Metals			
BARIUM	35.4	UG/L	3.9
CALCIUM	18900	UG/L	
MAGNESIUM	3850	UG/L	
POTASSIUM	1060	UG/L	
SODIUM	2660	UG/L	

Well: 03SPA, Quarter 4			
Total Metals			RBTL
BARIUM	51.3	UG/L	3.9
Misc. Inorganics			
CHLORIDE	5	MG/L	
SULFATE	25	MG/L	
Explosives			
HMX	2.2	UG/L	
RDX	2.5	UG/L	0.61
Organics			
TOTAL ORGANIC CARBON	1.6	MG/L	
Dissolved Metals			
BARIUM	50.9	UG/L	3.9
CALCIUM	17900	UG/L	
MAGNESIUM	4900	UG/L	
POTASSIUM	1360	UG/L	
SODIUM	3750	UG/L	
ZINC	14.8	UG/L	

Figure 8.1.8
ORGANIC AND INORGANIC DETECTIONS

SPRINGS
4TH QUARTER, 2003

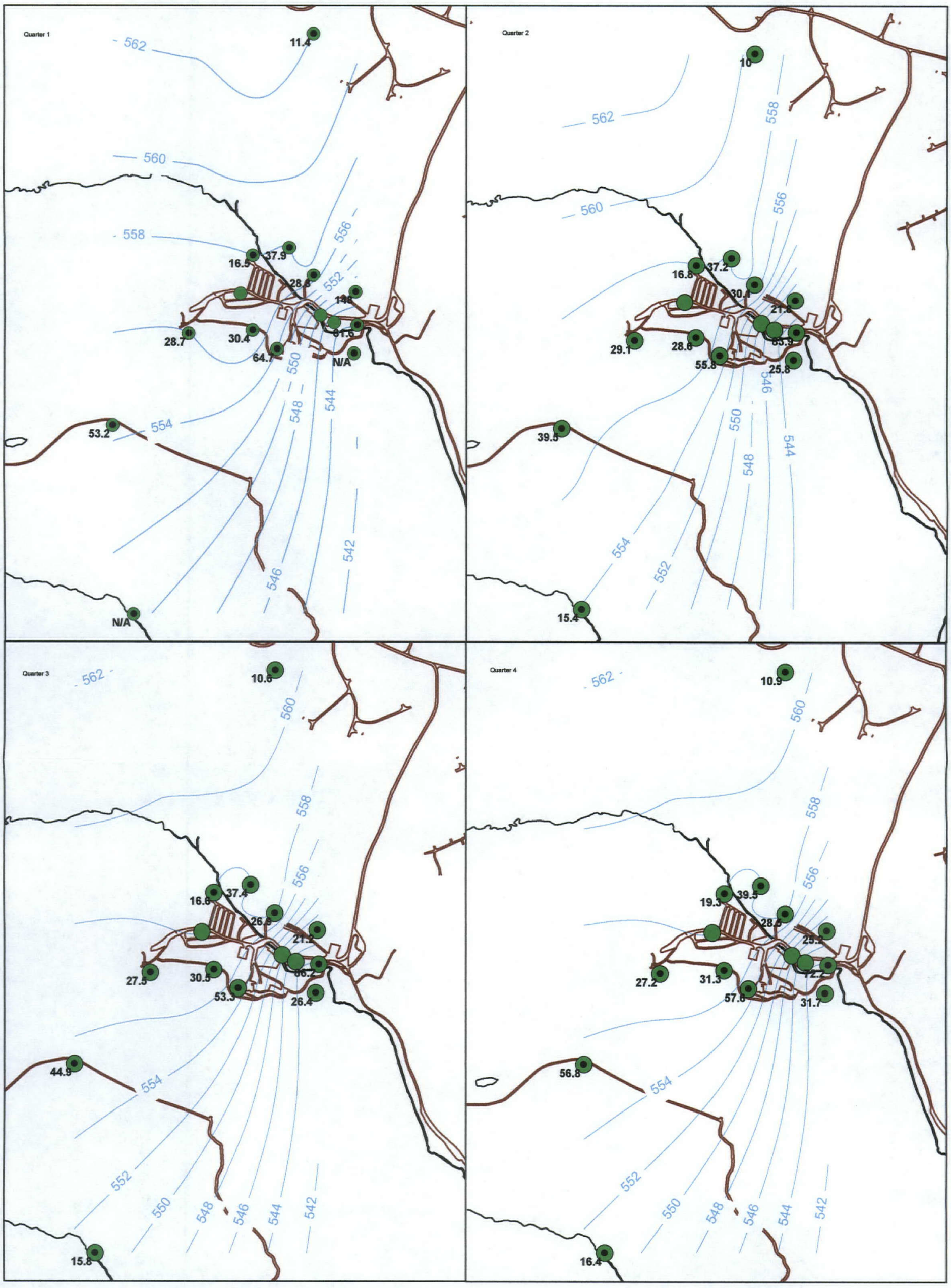


Figure 8.1.9 Quarterly Total Barium Concentrations in ABG Monitoring Wells

Ammunition Burning Ground
Aquifer: Beech Creek
Year: 2003

Concentration Units: Micrograms per Liter
Risk-Based Target Level = 3.9

- Detected Concentration
- Monitoring Wells
- Head Contours
- Streams
- Roads

N
W E
S

1,200 600 0 1,200 Feet

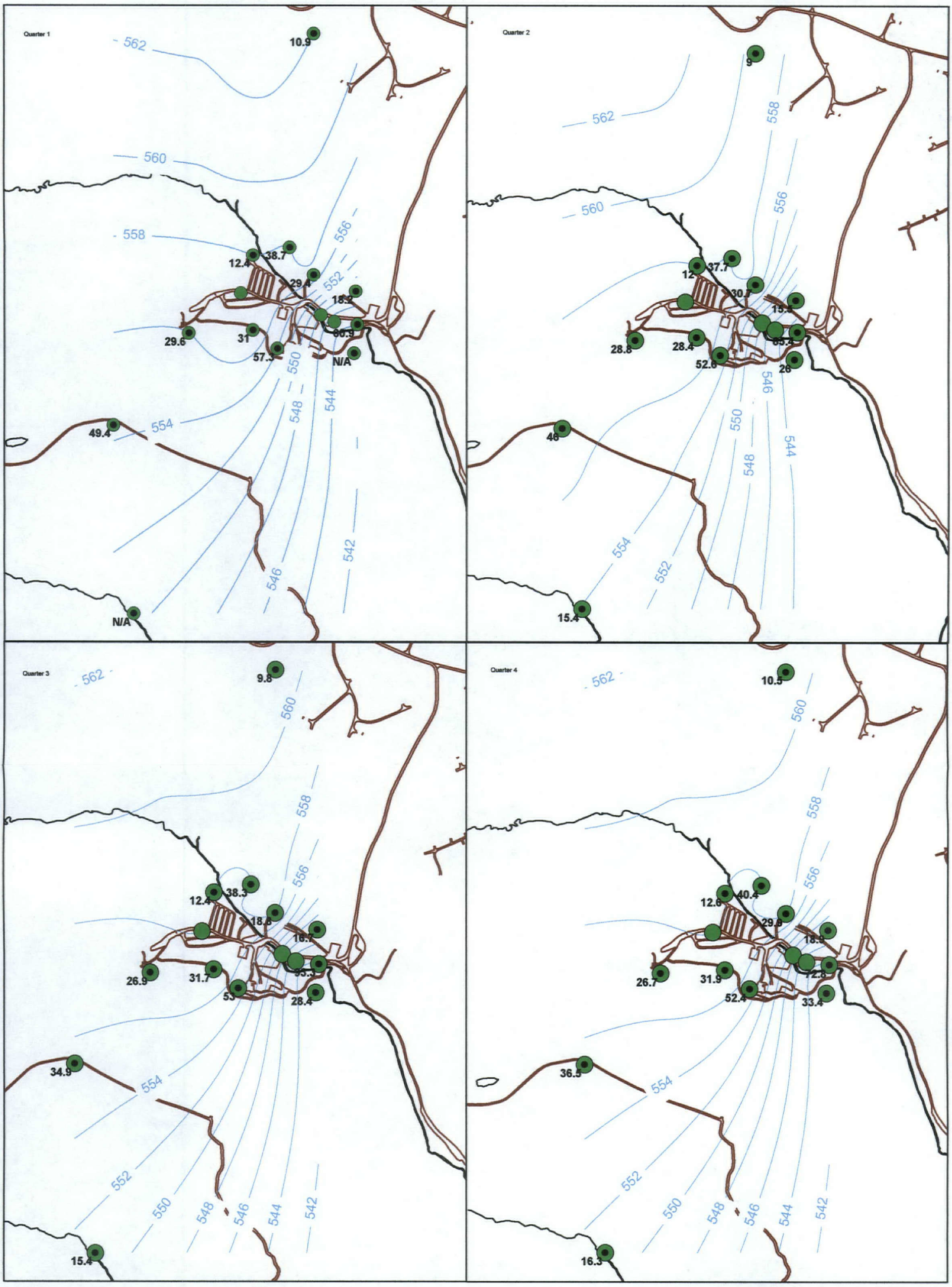


Figure 8.1.10 Quarterly Dissolved Barium Concentrations in ABG Monitoring Wells

Ammunition Burning Ground
Aquifer: Beech Creek
Year: 2003

Concentration Units: Micrograms per Liter
Risk-Based Target Level = 3.9

Detected Concentration

Monitoring Wells

Head Contours

Streams

Roads

N
W
E
S

1,200 600 0 1,200 Feet

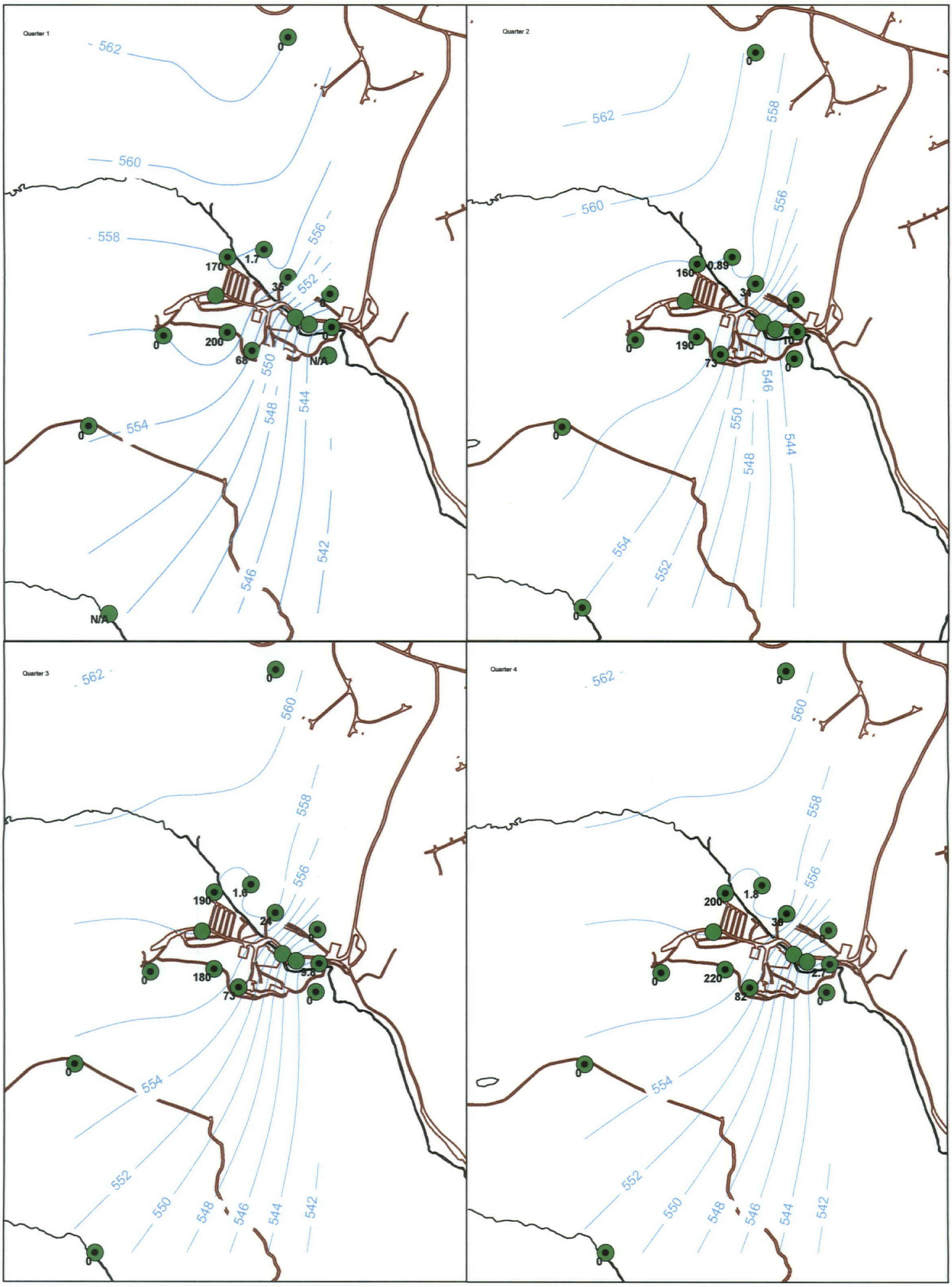


Figure 8.1.11 Quarterly RDX Concentrations in ABG Monitoring Wells

Ammunition Burning Ground
Aquifer: Beech Creek
Year: 2003

Concentration Units: Micrograms per Liter
Risk-Based Target Level = 0.61

- Detected Concentration
- Monitoring Wells
- Head Contours
- Streams
- Roads

N
W E
S

1,200 600 0 1,200 Feet

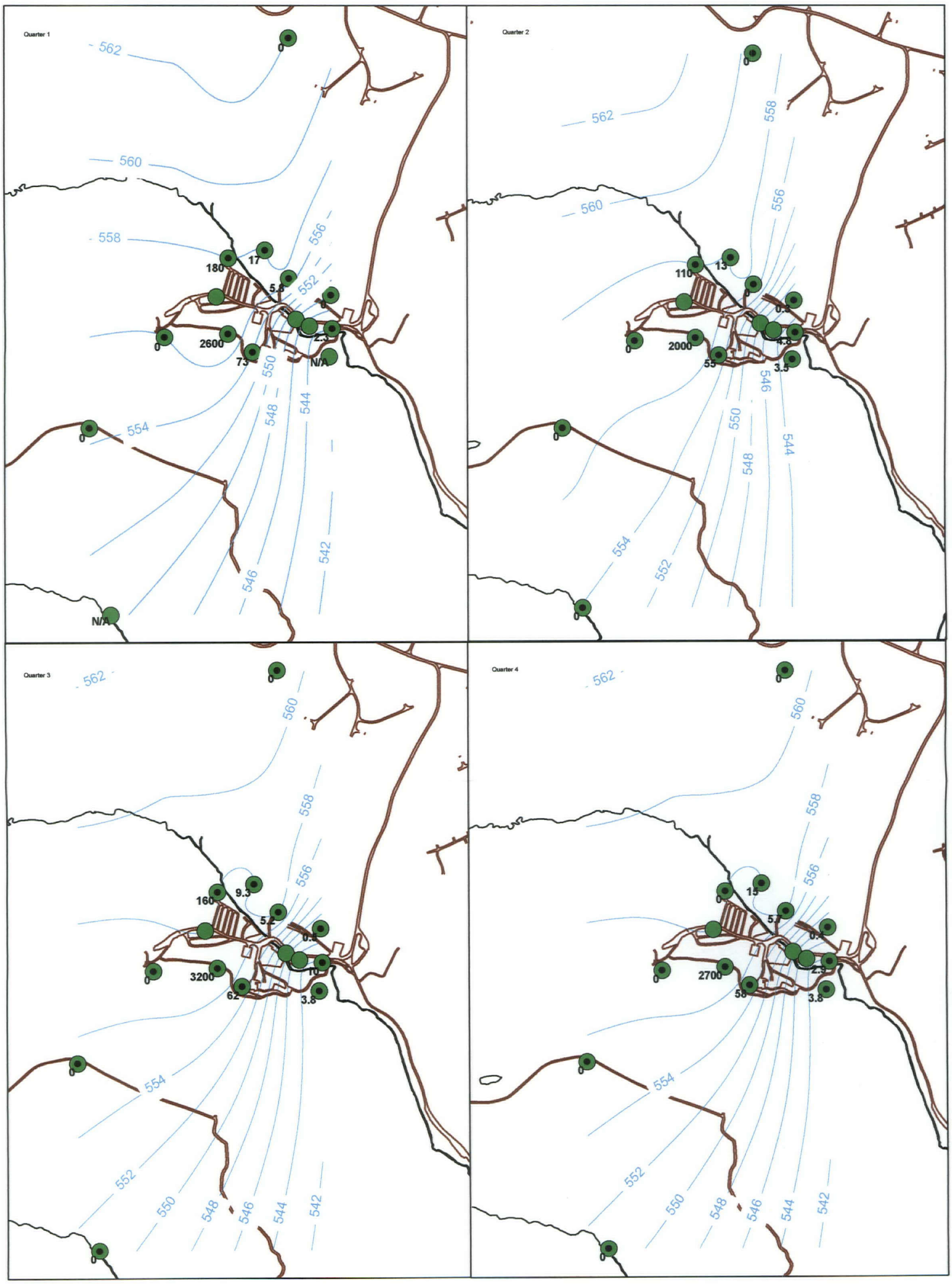


Figure 8.1.12 Quarterly Trichloroethene Concentrations in ABG Monitoring Wells

Ammunition Burning Ground
Aquifer: Beech Creek
Year: 2003

Concentration Units: Micrograms per Liter
Risk-Based Target Level = 1.6

Detected Concentration
Monitoring Wells
Head Contours
Streams
Roads

N
W E
S

1,200 600 0 1,200 Feet

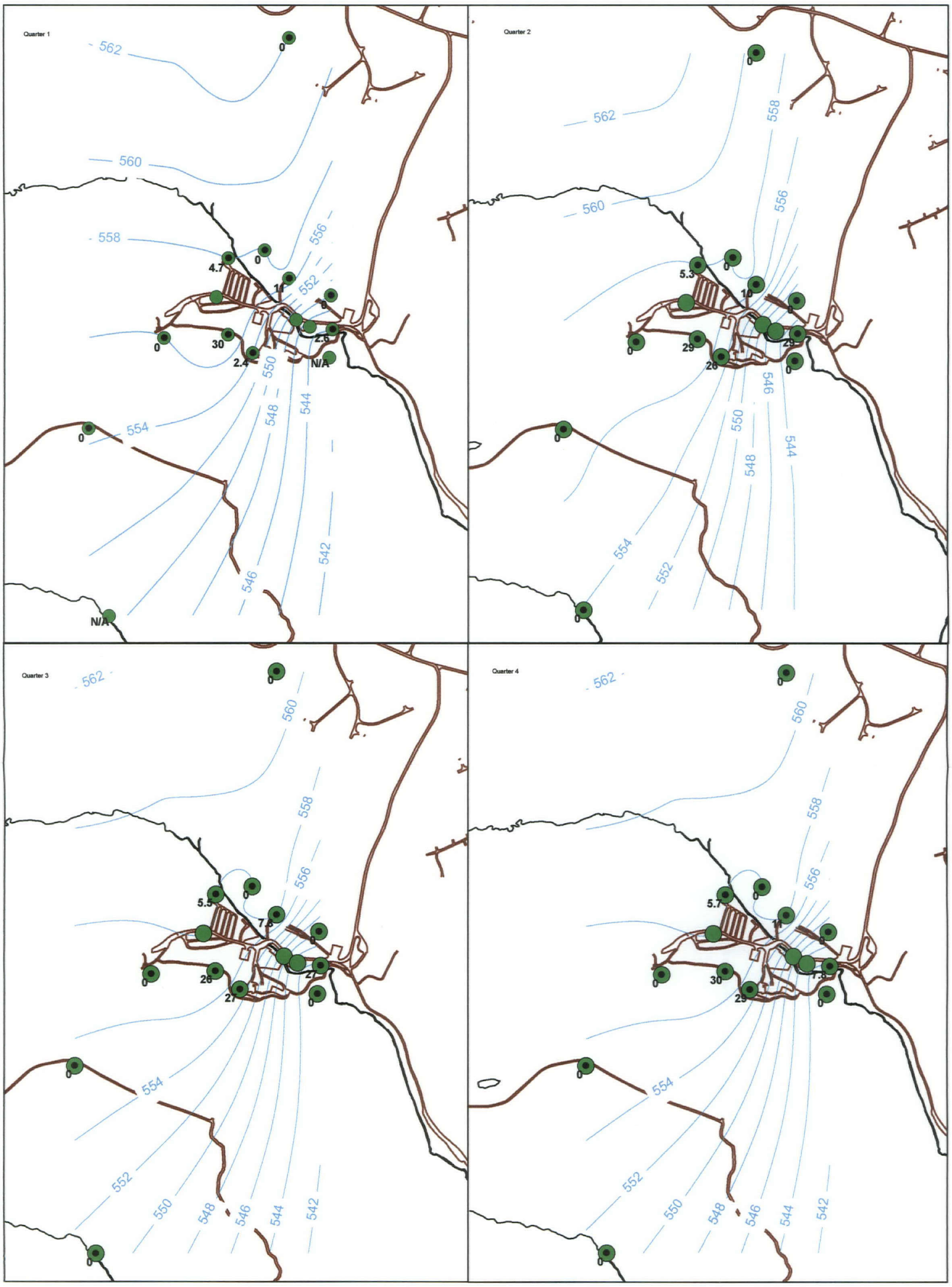


Figure 8.1.13 Quarterly HMX Concentrations in ABG Monitoring Wells

Ammunition Burning Ground
Aquifer: Beech Creek
Year: 2003

Concentration Units: Micrograms per Liter
Risk-Based Target Level = 1800

Detected Concentration
Monitoring Wells
Head Contours
Streams
Roads

N
W E
S

1,200 600 0 1,200 Feet

8.2 Old Rifle Range

The well network at the Old Rifle Range monitors the Big Clifty sandstone and the Beech Creek limestone. The two formations are underlain by the Elwren shale aquiclude and are considered one aquifer. One monitoring well network, consisting of five wells, is screened in the upper part of the Big Clifty, including a portion of the thick soil zone that covers the site. The deeper monitoring well network, consisting of nine wells, is screened near the base of the Beech Creek. Comparisons of water levels between paired wells indicate little difference between the upper and lower wells. Groundwater flow through the limestone is primarily through a system of connected joints. The Big Clifty and Beech Creek formations beneath the ORR contain more open discontinuities than the same formations at other sites in the study area (Tetra Tech, 1999).

Metals and explosives were identified as contaminants at the ORR by the USACE sampling in the early 1990's (Murphy, 1995). The USACE identified arsenic, nickel, and manganese as statistically significant contaminants. Barium, copper, and antimony persisted in four rounds of sampling, but were considered naturally occurring or artifacts of sampling. TNT, RDX, and HMX were found "persistently" in five wells on the northern half of the ORR by the USACE.

Figures 8.2.1-8.2.4 show all detections, by quarter, for the upper Big Clifty monitoring wells at the ORR. For associated lab qualifiers, please see Tables 6.2.1–6.2.5. Values that exceeded the RBTL are flagged. Detections in the upper Big Clifty were predominantly metals and other inorganics. Detections of organics were limited to total organic carbon (TOC) and total organic halogens (TOX), with volatile organic compounds sampled only during the second quarter. The only explosive detected was nitrocellulose in two separate wells, one during the first quarter (06C18P2) and one in the second quarter(06C13P2). Barium and manganese were the most frequently detected metals (100% and 80% of samples), usually at levels above the RBTL (100% of samples for both parameters). Other metals detected include arsenic (80% of samples) and dissolved antimony (70% of samples). Ammonia was persistent in all downgradient wells.

Figures 8.2.5-8.2.8 show all detections, by quarter, for the Big Clifty/Beech Creek monitoring wells at the ORR. Values that exceeded the RBTL are flagged. Similar to results in the upper wells, detections in the lower wells were mainly metals and other inorganics. Barium and manganese were frequently detected (100% and 64% of samples, respectively), often above the RBTL (100% and 55% of samples, respectively). Arsenic was also detected with some frequency (50% of samples), however, above the RBTL less frequently (22% of samples) than barium and manganese. Dissolved antimony was detected in 64% of samples collected, but none of the results were above the RBTL. Zinc occurred in 28% of samples, 10% of those (1 sample) being above the RBTL. The only detection of organics was the persistent detection of total organic carbon (TOC) in well C13. Detections of explosives at the ORR were limited to 2,4,6-trinitrotoluene and 1,3,5-trinitrobenzene and degradation products 2-amino-4,6-dinitrotoluene and 4-amino-2,6-dinitrotoluene. In addition, nitrocellulose was detected in two wells in the second quarter (06C16 and 06C11).

The 2003 ORR results were incorporated with the 2000-2002 data and evaluated to determine which constituents were statistically higher than background (Section 7.0). The statistical analysis was done both with and without the outlying data points. Table

8.2.1 shows the ORR results that were significantly higher than the background well and exceeded an RBTL in at least one of the four quarters. Monitoring point objectives as per the GWMP (Tetra Tech NUS, 1999) are noted in the table. Inorganics that exceeded both thresholds in ORR Upper Big Clifty wells were limited to the metals arsenic, barium, and manganese. Wells bottoming in the Beech Creek aquifer exceeded thresholds for arsenic, barium, lead, manganese and zinc, with a single well exceeding the threshold for chromium in the first quarter (06C14). Also, 2,4,6-trinitrotoluene exceeded both thresholds for all four quarters in well C15.

As mentioned above, detection of explosives at the ORR in 2003 was predominantly TNT and nitro-toluene degradation products in one well, 06C15. Similar results were observed in results from quarterly sampling in 2000, 2001 and 2002. Well 06C15 is located in the northern portion of the ORR. RDX and HMX were not detected in any ORR well in the quarterly sampling of 2003. TNT was detected above the RBTL in all four samples from well 06C15. Statistical analysis found the TNT results to be significantly higher than background. No explosives were found in the upgradient, background well, 06C08. Nitro-toluene daughter compounds were also consistently detected in well 06C15, specifically 2-amino-4, 6-dinitrotoluene, 4-amino-2, 6-dinitrotoluene, and 1,3,5-Trinitrotoluene. The presence of nitrotoluene daughter products in the wells indicates that some natural attenuation is occurring in the system. The concentrations of 2-amino-4, 6-dinitrotoluene and 4-amino-2, 6-dinitrotoluene were determined to be significantly higher than background. However, these two compounds were not evaluated for inclusion in Table 8.2 because an RBTL has not been established for them due to a lack of risk-based criteria (Tetra Tech NUS, 1999).

Similar to results at the ABG, total and dissolved barium were detected above the RBTL of 3.9 μg/L in all wells in all sampling rounds. Figure 8.2.9 shows the quarterly total barium concentrations in the Big Clifty/Beech Creek aquifer (see Figure 8.2.5 for well references). Barium concentrations in the Upper Big Clifty wells are similar to the concentrations found in the deeper wells (Figure 8.2.10) (see Figure 8.2.1 for well references). However, more of the wells in the deeper network were determined to be significantly higher than background (Table 8.2.1). Six of the POC wells in the Big Clifty/Beech Creek network (06C11, 06C12, 06C13, 06C16, 06C18, 06C19) had filtered barium concentrations greater than the RBTL and significantly higher than background when the data outliers were removed. Three of the POC wells in the Big Clifty/Beech Creek network (06C13, 06C16, 06C18) had filtered barium concentrations greater than the RBTL and significantly higher than background when the data outliers were not removed. The wells in the Upper Big Clifty that exceeded both thresholds include two POC wells on the eastern perimeter, 06C13P2 and 06C18P2. Similar to the ABG, elevated barium concentrations at the ORR may be due to natural or background conditions at the site. As discussed previously, results from the Basewide Background Soils Investigation indicated that all of the barium samples from the base were greater than the SRBTL of 1.04 mg/kg. Unlike the ABG, however, there is no soil data specific to the ORR to compare to the background levels.

Manganese was detected above the RBTL of 50 μg/L consistently in five wells screened in the Big Clifty/Beech Creek aquifer (Figure 8.2.11) (06C12, 06C13, 06C14, 06C18, and 06C19). In addition to exceeding the RBTL in every quarter, concentrations in each of these five wells were significantly higher than background (Table 8.2.1). Filtered manganese was detected above the RBTL of 50 μg/L consistently in the same five wells.

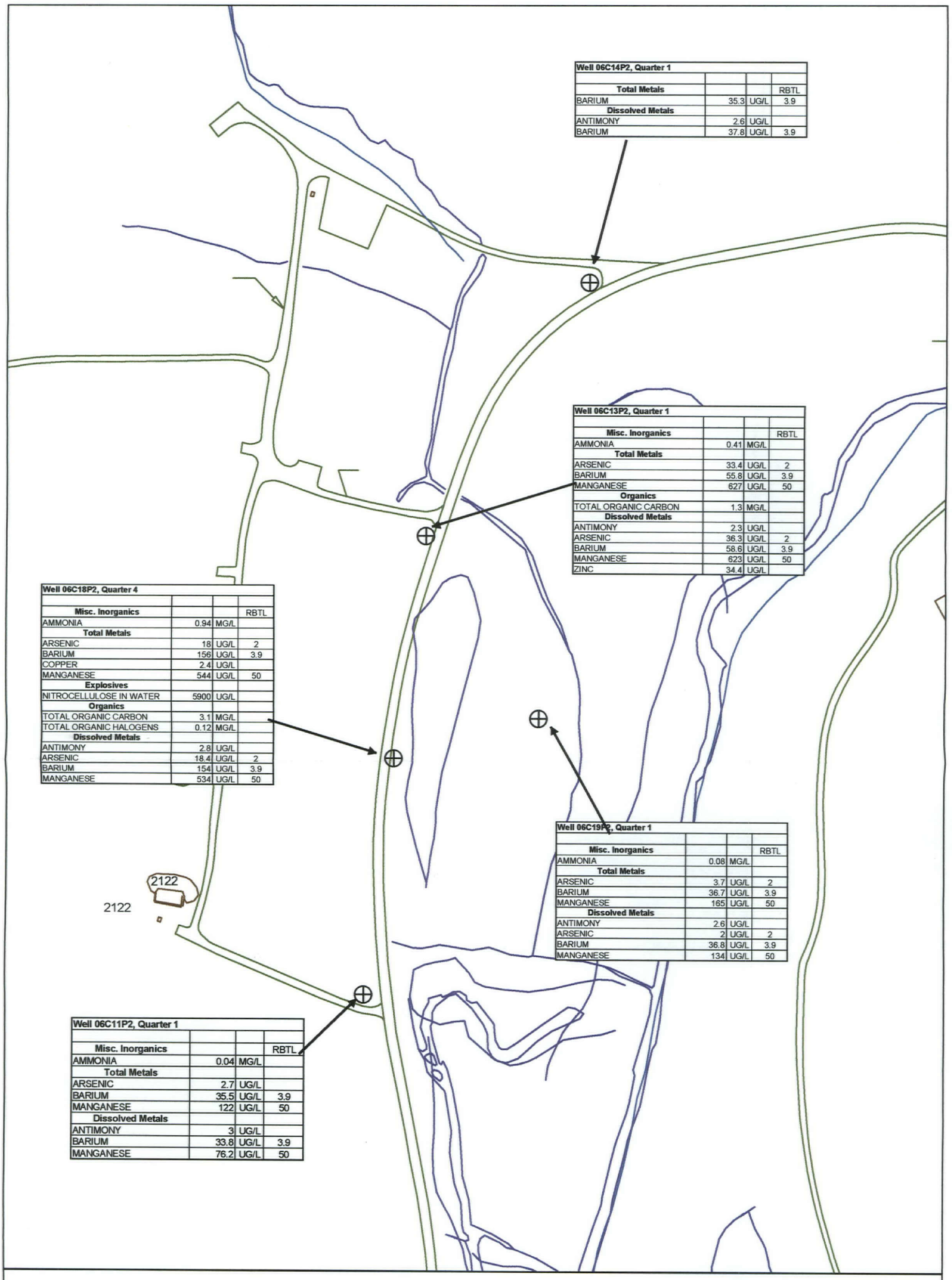
Manganese (Figure 8.2.12) and filtered manganese concentrations in the upper aquifer exceeded both thresholds in four wells at the eastern edge of the site (06C11P2, 06C13P2, 06C18P2, 06C19P2) (Table 8.2.1).

Arsenic was consistently found above the RBTL of 2 μg/L in Big Clifty/Beech Creek POC well 06C13 (Figure 8.2.13). Similar results were found in the corresponding shallow wells in the Upper Big Clifty network; point of compliance wells 06C13P2, 06C18P2 and downgradient well 06C19P2 exhibited concentrations greater than the RBTL. Of the arsenic exceedances, results were significantly higher than background in POC wells 06C13P2, 06C13, 06C18P2, and downgradient well 06C19P2.

(Table 8.2.1) Old Rifle Range Monitoring Points with results exceeding RBTL and statistically higher than background. [C = Compliance; DG = Downgradient; MP Objective = type of well]

Parameter	Well	MP Objective	2002 RBTL Exceedances by Quarter			
			1st	2nd	3rd	4th
Old Rifle Range – Upper Big Clifty Aquifer						
METALS						
Arsenic	06C13P2	C	X	X	X	X
	06C18P2	C	X	X	X	X
	06C19P2	DG	X	X	X	X
Arsenic (filtered)	06C13P2	C	X	X	X	X
	06C18P2	C	X	X	X	X
	06C19P2	DG	X	X	X	X
Barium	06C13P2	C	X	X	X	X
	06C18P2	C	X	X	X	X
Barium (filtered)	06C18P2	C	X	X	X	X
Barium (filtered) Outliers Removed	06C13P2	C	X	X	X	X
	06C18P2	C	X	X	X	X
Manganese	06C11P2	C	X	X	X	X
	06C13P2	C	X	X	X	X
	06C18P2	C	X	X	X	X
	06C19P2	DG	X	X	X	X
Manganese (filtered)	06C11P2	C	X	X	X	X
	06C13P2	C	X	X	X	X
	06C18P2	C	X	X	X	X
	06C19P2	DG	X	X	X	X
Old Rifle Range – Beech Creek Aquifer						
METALS						
Arsenic	06C13	C	X	X	X	X
Arsenic (filtered)	06C13	C	X	X	X	X
Arsenic (filtered) Outliers Removed	06C13	C	X	X	X	X
Barium	06C11	C	X	X	X	X
	06C13	C	X	X	X	X
	06C16	C	X	X	X	X
	06C18	C	X	X	X	X
Barium (filtered)	06C13	C	X	X	X	X
	06C16	C	X	X	X	X
	06C18	C	X	X	X	X
Barium (filtered) Outliers Removed	06C11	C	X	X	X	X
	06C12	C	X	X	X	X
	06C13	C	X	X	X	X
	06C16	C	X	X	X	X
	06C18	C	X	X	X	X
	06C19	DG	X	X	X	X
Chromium	06C14	C	X			
Lead	06C11	C	X	X	X	X
	06C14	C	X	X		
Manganese	06C12	C	X	X	X	X
	06C13	C	X	X	X	X
	06C14	C	X	X	X	X
	06C18	C	X	X	X	X

	06C19	DG	X	X	X	X
Manganese (filtered)	06C12	C	X	X	X	X
	06C13	C	X	X	X	X
	06C14	C	X	X	X	X
	06C18	C	X	X	X	X
	06C19	DG	X	X	X	X
Zinc (filtered)	06C13	C		X		
Old Rifle Range – Beech Creek Aquifer						
EXPLOSIVES						
2,4,6-Trinitrotoluene	06C15	C	X	X	X	X



Well 06C14P2, Quarter 1			
Total Metals			RBTL
BARIUM	35.3	UG/L	3.9
Dissolved Metals			
ANTIMONY	2.6	UG/L	
BARIUM	37.8	UG/L	3.9

Well 06C13P2, Quarter 1			
Misc. Inorganics			RBTL
AMMONIA	0.41	MG/L	
Total Metals			
ARSENIC	33.4	UG/L	2
BARIUM	55.8	UG/L	3.9
MANGANESE	627	UG/L	50
Organics			
TOTAL ORGANIC CARBON	1.3	MG/L	
Dissolved Metals			
ANTIMONY	2.3	UG/L	
ARSENIC	36.3	UG/L	2
BARIUM	58.6	UG/L	3.9
MANGANESE	623	UG/L	50
ZINC	34.4	UG/L	

Well 06C18P2, Quarter 4			
Misc. Inorganics			RBTL
AMMONIA	0.94	MG/L	
Total Metals			
ARSENIC	18	UG/L	2
BARIUM	156	UG/L	3.9
COPPER	2.4	UG/L	
MANGANESE	544	UG/L	50
Explosives			
NITROCELLULOSE IN WATER	5900	UG/L	
Organics			
TOTAL ORGANIC CARBON	3.1	MG/L	
TOTAL ORGANIC HALOGENS	0.12	MG/L	
Dissolved Metals			
ANTIMONY	2.8	UG/L	
ARSENIC	18.4	UG/L	2
BARIUM	154	UG/L	3.9
MANGANESE	534	UG/L	50

Well 06C19P2, Quarter 1			
Misc. Inorganics			RBTL
AMMONIA	0.08	MG/L	
Total Metals			
ARSENIC	3.7	UG/L	2
BARIUM	36.7	UG/L	3.9
MANGANESE	165	UG/L	50
Dissolved Metals			
ANTIMONY	2.6	UG/L	
ARSENIC	2	UG/L	2
BARIUM	36.8	UG/L	3.9
MANGANESE	134	UG/L	50

Well 06C11P2, Quarter 1			
Misc. Inorganics			RBTL
AMMONIA	0.04	MG/L	
Total Metals			
ARSENIC	2.7	UG/L	
BARIUM	35.5	UG/L	3.9
MANGANESE	122	UG/L	50
Dissolved Metals			
ANTIMONY	3	UG/L	
BARIUM	33.8	UG/L	3.9
MANGANESE	76.2	UG/L	50

FIGURE 8.2.1
ORGANIC AND INORGANIC DETECTIONS
IN UPPER GROUNDWATER

OLD RIFLE RANGE
1ST QUARTER, 2003
AQUIFER: UPPER BIG CLIFTY

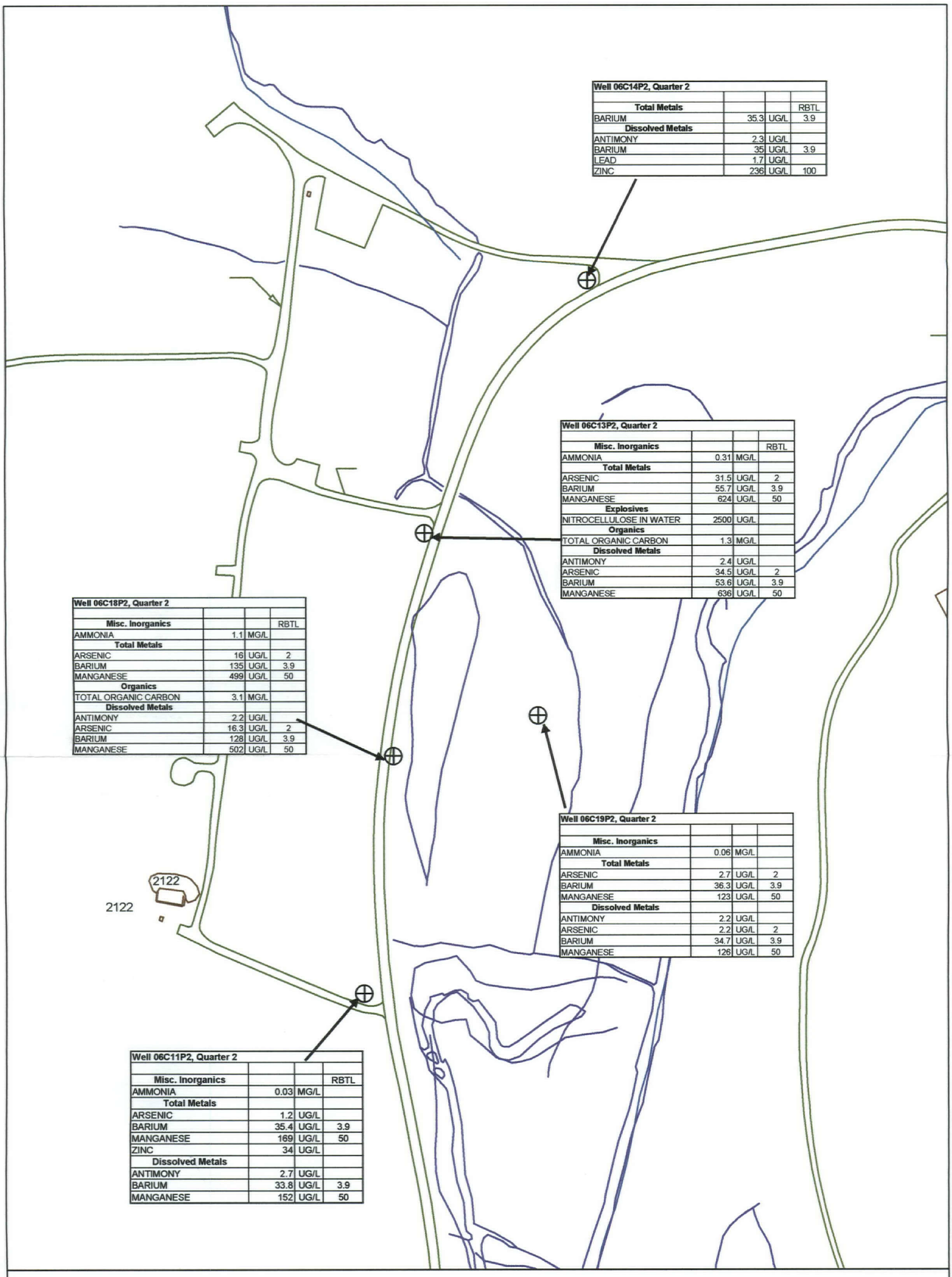
⊕ ORR MONITORING WELL

Roads

Streams

N
W E
S

0 165 330 660
Feet



Well 06C14P2, Quarter 2			
Total Metals			RBTL
BARIUM	35.3	UG/L	3.9
Dissolved Metals			
ANTIMONY	2.3	UG/L	
BARIUM	35	UG/L	3.9
LEAD	1.7	UG/L	
ZINC	236	UG/L	100

Well 06C13P2, Quarter 2			
Misc. Inorganics			RBTL
AMMONIA	0.31	MG/L	
Total Metals			
ARSENIC	31.5	UG/L	2
BARIUM	55.7	UG/L	3.9
MANGANESE	624	UG/L	50
Explosives			
NITROCELLULOSE IN WATER	2500	UG/L	
Organics			
TOTAL ORGANIC CARBON	1.3	MG/L	
Dissolved Metals			
ANTIMONY	2.4	UG/L	
ARSENIC	34.5	UG/L	2
BARIUM	53.6	UG/L	3.9
MANGANESE	636	UG/L	50

Well 06C18P2, Quarter 2			
Misc. Inorganics			RBTL
AMMONIA	1.1	MG/L	
Total Metals			
ARSENIC	16	UG/L	2
BARIUM	135	UG/L	3.9
MANGANESE	499	UG/L	50
Organics			
TOTAL ORGANIC CARBON	3.1	MG/L	
Dissolved Metals			
ANTIMONY	2.2	UG/L	
ARSENIC	16.3	UG/L	2
BARIUM	128	UG/L	3.9
MANGANESE	502	UG/L	50

Well 06C19P2, Quarter 2			
Misc. Inorganics			
AMMONIA	0.06	MG/L	
Total Metals			
ARSENIC	2.7	UG/L	2
BARIUM	36.3	UG/L	3.9
MANGANESE	123	UG/L	50
Dissolved Metals			
ANTIMONY	2.2	UG/L	
ARSENIC	2.2	UG/L	2
BARIUM	34.7	UG/L	3.9
MANGANESE	126	UG/L	50

Well 06C11P2, Quarter 2			
Misc. Inorganics			RBTL
AMMONIA	0.03	MG/L	
Total Metals			
ARSENIC	1.2	UG/L	
BARIUM	35.4	UG/L	3.9
MANGANESE	169	UG/L	50
ZINC	34	UG/L	
Dissolved Metals			
ANTIMONY	2.7	UG/L	
BARIUM	33.8	UG/L	3.9
MANGANESE	152	UG/L	50

FIGURE 8.2.2
ORGANIC AND INORGANIC DETECTIONS
IN UPPER GROUNDWATER

OLD RIFLE RANGE
2ND QUARTER, 2003
AQUIFER: UPPER BIG CLIFTY

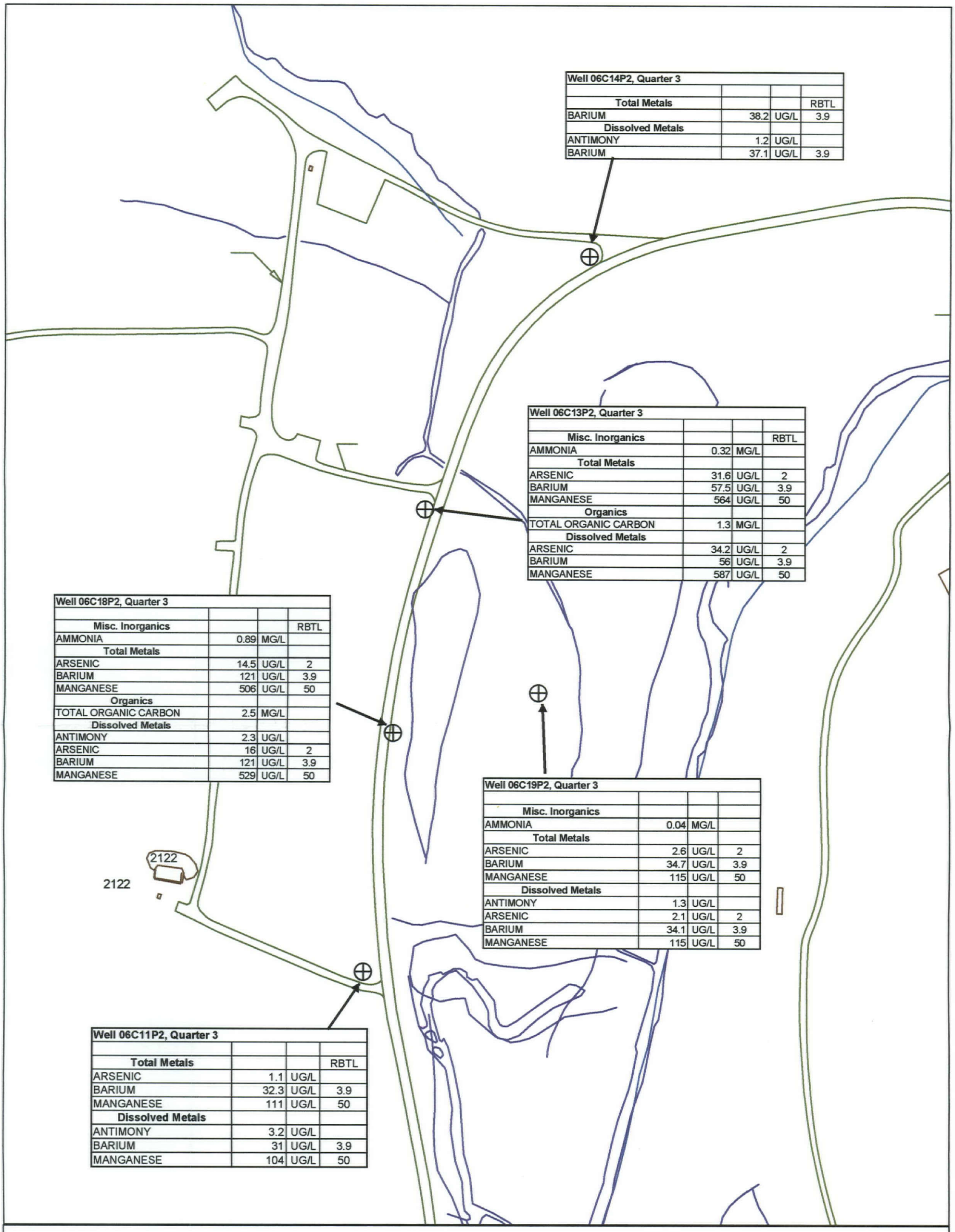
⊕ ORR MONITORING WELL

Roads

Streams

N
W E
S

0 162.5 325 650
Feet



Well 06C14P2, Quarter 3			
Total Metals			RBTL
BARIUM	38.2	UG/L	3.9
Dissolved Metals			
ANTIMONY	1.2	UG/L	
BARIUM	37.1	UG/L	3.9

Well 06C13P2, Quarter 3			
Misc. Inorganics			RBTL
AMMONIA	0.32	MG/L	
Total Metals			
ARSENIC	31.6	UG/L	2
BARIUM	57.5	UG/L	3.9
MANGANESE	564	UG/L	50
Organics			
TOTAL ORGANIC CARBON	1.3	MG/L	
Dissolved Metals			
ARSENIC	34.2	UG/L	2
BARIUM	56	UG/L	3.9
MANGANESE	587	UG/L	50

Well 06C18P2, Quarter 3			
Misc. Inorganics			RBTL
AMMONIA	0.89	MG/L	
Total Metals			
ARSENIC	14.5	UG/L	2
BARIUM	121	UG/L	3.9
MANGANESE	506	UG/L	50
Organics			
TOTAL ORGANIC CARBON	2.5	MG/L	
Dissolved Metals			
ANTIMONY	2.3	UG/L	
ARSENIC	16	UG/L	2
BARIUM	121	UG/L	3.9
MANGANESE	529	UG/L	50

Well 06C19P2, Quarter 3			
Misc. Inorganics			
AMMONIA	0.04	MG/L	
Total Metals			
ARSENIC	2.6	UG/L	2
BARIUM	34.7	UG/L	3.9
MANGANESE	115	UG/L	50
Dissolved Metals			
ANTIMONY	1.3	UG/L	
ARSENIC	2.1	UG/L	2
BARIUM	34.1	UG/L	3.9
MANGANESE	115	UG/L	50

Well 06C11P2, Quarter 3			
Total Metals			RBTL
ARSENIC	1.1	UG/L	
BARIUM	32.3	UG/L	3.9
MANGANESE	111	UG/L	50
Dissolved Metals			
ANTIMONY	3.2	UG/L	
BARIUM	31	UG/L	3.9
MANGANESE	104	UG/L	50

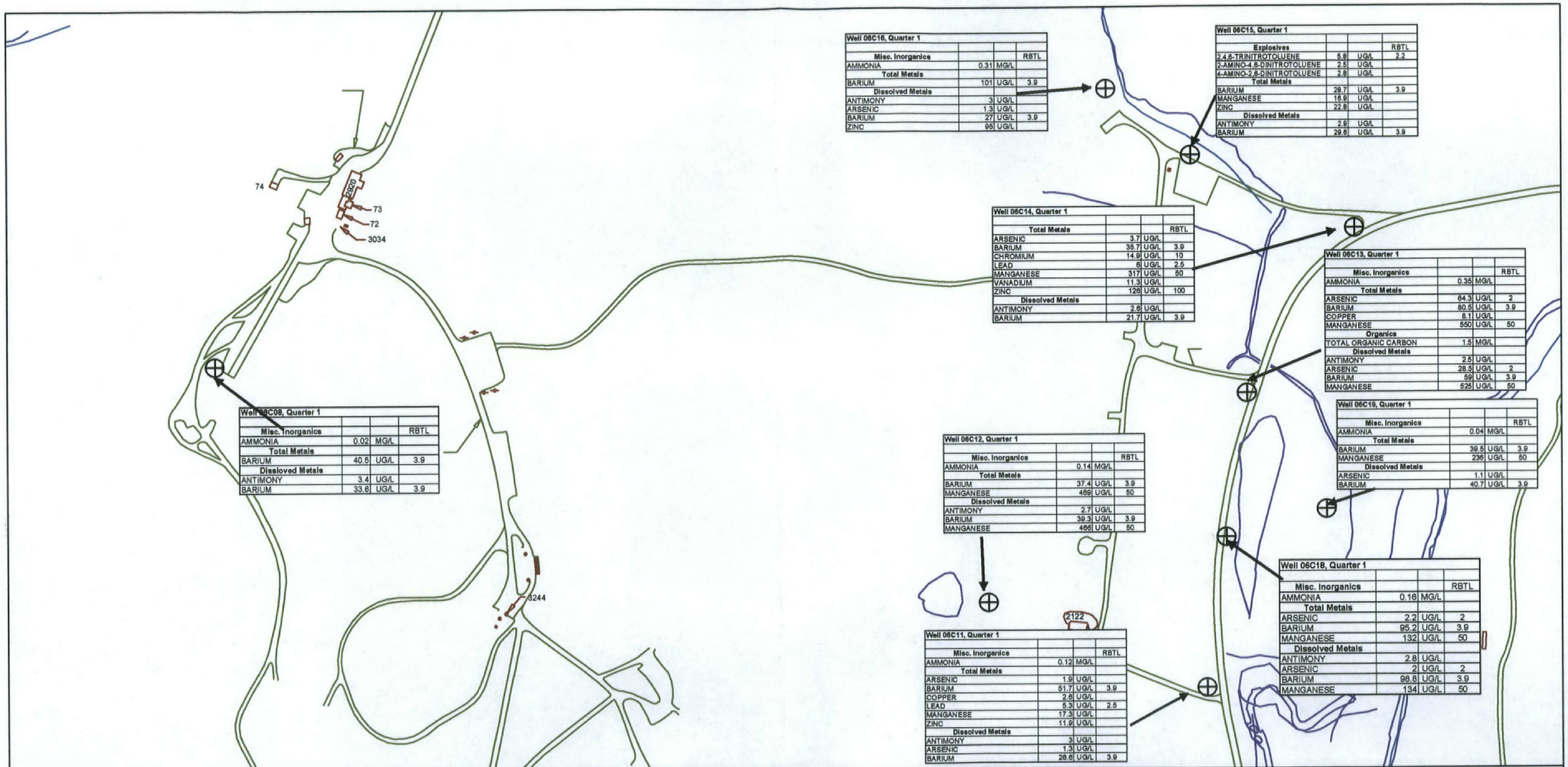
FIGURE 8.2.3
ORGANIC AND INORGANIC DETECTIONS
IN GROUNDWATER

OLD RIFLE RANGE
3RD QUARTER, 2003
AQUIFER: UPPER BIG CLIFTY

⊕ MONITORING WELL
Roads
Streams

N
W E
S

0 165 330 660
Feet



Well 06C16, Quarter 1			
Misc. Inorganics			RBTL
AMMONIA	0.31	MG/L	
Total Metals			
BARIUM	101	UG/L	3.9
Dissolved Metals			
ANTIMONY	3	UG/L	
ARSENIC	1.3	UG/L	
BARIUM	27	UG/L	3.9
ZINC	95	UG/L	

Well 06C15, Quarter 1			
Explosives			RBTL
2,4,6-TRINITROTOLUENE	5.8	UG/L	2.2
2-AMINO-4,6-DINITROTOLUENE	2.5	UG/L	
4-AMINO-2,6-DINITROTOLUENE	2.8	UG/L	
Total Metals			
BARIUM	28.7	UG/L	3.9
MANGANESE	16.9	UG/L	
ZINC	22.8	UG/L	
Dissolved Metals			
ANTIMONY	2.9	UG/L	
BARIUM	29.6	UG/L	3.9

Well 06C14, Quarter 1			
Total Metals			RBTL
ARSENIC	3.7	UG/L	
BARIUM	35.7	UG/L	3.9
CHROMIUM	14.9	UG/L	10
LEAD	6	UG/L	2.5
MANGANESE	317	UG/L	50
VANADIUM	11.3	UG/L	
ZINC	128	UG/L	100
Dissolved Metals			
ANTIMONY	2.6	UG/L	
BARIUM	21.7	UG/L	3.9

Well 06C13, Quarter 1			
Misc. Inorganics			RBTL
AMMONIA	0.35	MG/L	
Total Metals			
ARSENIC	64.3	UG/L	2
BARIUM	80.5	UG/L	3.9
COPPER	8.1	UG/L	
MANGANESE	550	UG/L	50
Organics			
TOTAL ORGANIC CARBON	1.5	MG/L	
Dissolved Metals			
ANTIMONY	2.5	UG/L	
ARSENIC	28.5	UG/L	2
BARIUM	59	UG/L	3.9
MANGANESE	525	UG/L	50

Well 06C08, Quarter 1			
Misc. Inorganics			RBTL
AMMONIA	0.02	MG/L	
Total Metals			
BARIUM	40.5	UG/L	3.9
Dissolved Metals			
ANTIMONY	3.4	UG/L	
BARIUM	33.6	UG/L	3.9

Well 06C19, Quarter 1			
Misc. Inorganics			RBTL
AMMONIA	0.04	MG/L	
Total Metals			
BARIUM	39.5	UG/L	3.9
MANGANESE	236	UG/L	50
Dissolved Metals			
ARSENIC	1.1	UG/L	
BARIUM	40.7	UG/L	3.9

Well 06C12, Quarter 1			
Misc. Inorganics			RBTL
AMMONIA	0.14	MG/L	
Total Metals			
BARIUM	37.4	UG/L	3.9
MANGANESE	459	UG/L	50
Dissolved Metals			
ANTIMONY	2.7	UG/L	
BARIUM	39.3	UG/L	3.9
MANGANESE	466	UG/L	50

Well 06C18, Quarter 1			
Misc. Inorganics			RBTL
AMMONIA	0.16	MG/L	
Total Metals			
ARSENIC	2.2	UG/L	2
BARIUM	95.2	UG/L	3.9
MANGANESE	132	UG/L	50
Dissolved Metals			
ANTIMONY	2.8	UG/L	
ARSENIC	2	UG/L	2
BARIUM	98.8	UG/L	3.9
MANGANESE	134	UG/L	50

Well 06C11, Quarter 1			
Misc. Inorganics			RBTL
AMMONIA	0.12	MG/L	
Total Metals			
ARSENIC	1.9	UG/L	
BARIUM	51.7	UG/L	3.9
COPPER	2.6	UG/L	
LEAD	5.3	UG/L	2.5
MANGANESE	17.3	UG/L	
ZINC	11.9	UG/L	
Dissolved Metals			
ANTIMONY	3	UG/L	
ARSENIC	1.3	UG/L	
BARIUM	26.6	UG/L	3.9

FIGURE 8.2.5
ORGANIC AND INORGANIC DETECTIONS
IN GROUNDWATER

OLD RIFLE RANGE
1ST QUARTER, 2003
AQUIFER: BIG CLIFTY/BEECH CREEK

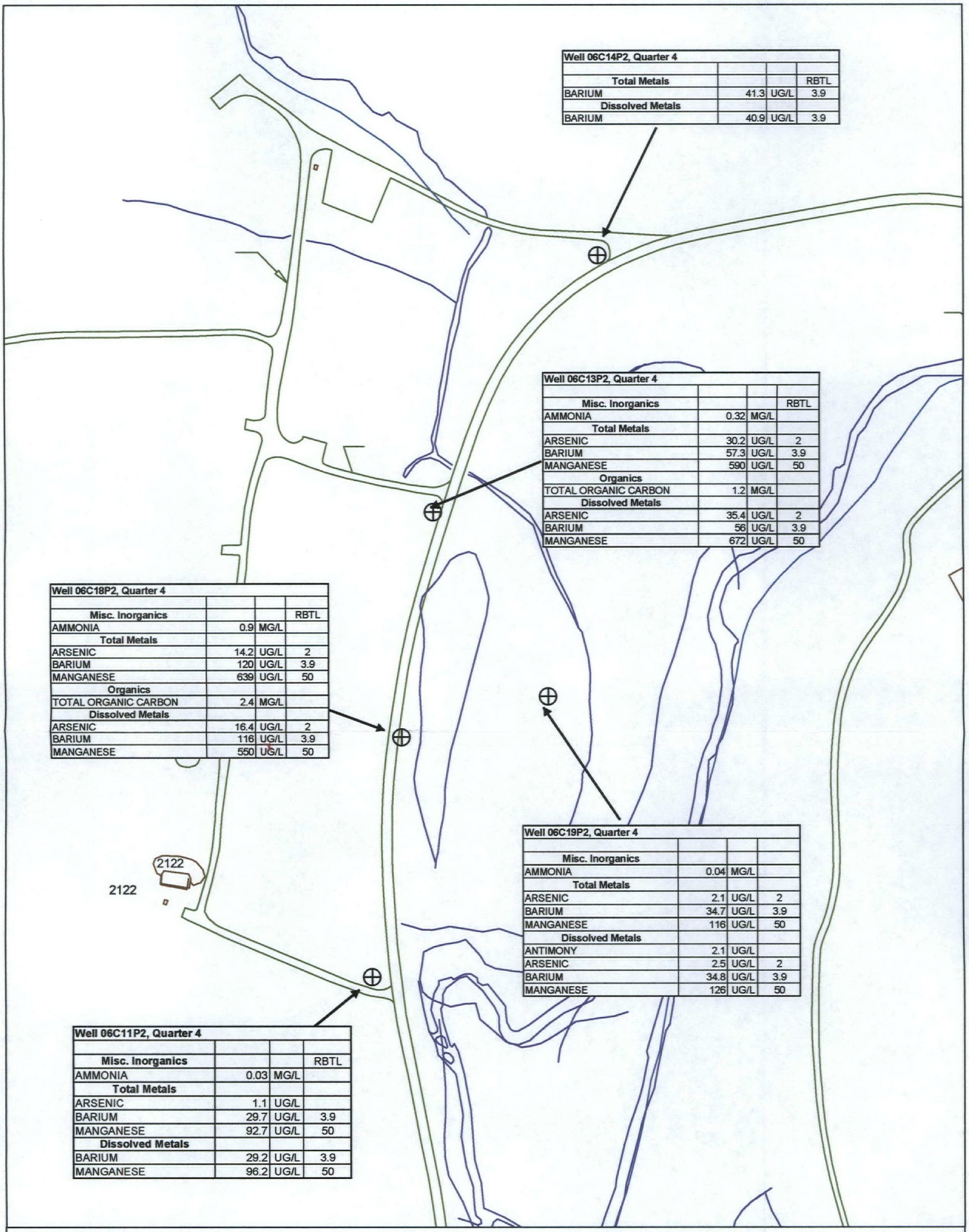
⊕ ORR Monitoring Well

Roads

Streams

590 295 0 590 Feet

N W E S



Well 06C14P2, Quarter 4			
Total Metals			RBTL
BARIUM	41.3	UG/L	3.9
Dissolved Metals			
BARIUM	40.9	UG/L	3.9

Well 06C13P2, Quarter 4			
Misc. Inorganics			RBTL
AMMONIA	0.32	MG/L	
Total Metals			
ARSENIC	30.2	UG/L	2
BARIUM	57.3	UG/L	3.9
MANGANESE	590	UG/L	50
Organics			
TOTAL ORGANIC CARBON	1.2	MG/L	
Dissolved Metals			
ARSENIC	35.4	UG/L	2
BARIUM	56	UG/L	3.9
MANGANESE	672	UG/L	50

Well 06C18P2, Quarter 4			
Misc. Inorganics			RBTL
AMMONIA	0.9	MG/L	
Total Metals			
ARSENIC	14.2	UG/L	2
BARIUM	120	UG/L	3.9
MANGANESE	639	UG/L	50
Organics			
TOTAL ORGANIC CARBON	2.4	MG/L	
Dissolved Metals			
ARSENIC	16.4	UG/L	2
BARIUM	116	UG/L	3.9
MANGANESE	550	UG/L	50

Well 06C19P2, Quarter 4			
Misc. Inorganics			
AMMONIA	0.04	MG/L	
Total Metals			
ARSENIC	2.1	UG/L	2
BARIUM	34.7	UG/L	3.9
MANGANESE	116	UG/L	50
Dissolved Metals			
ANTIMONY	2.1	UG/L	
ARSENIC	2.5	UG/L	2
BARIUM	34.8	UG/L	3.9
MANGANESE	126	UG/L	50

Well 06C11P2, Quarter 4			
Misc. Inorganics			RBTL
AMMONIA	0.03	MG/L	
Total Metals			
ARSENIC	1.1	UG/L	
BARIUM	29.7	UG/L	3.9
MANGANESE	92.7	UG/L	50
Dissolved Metals			
BARIUM	29.2	UG/L	3.9
MANGANESE	96.2	UG/L	50

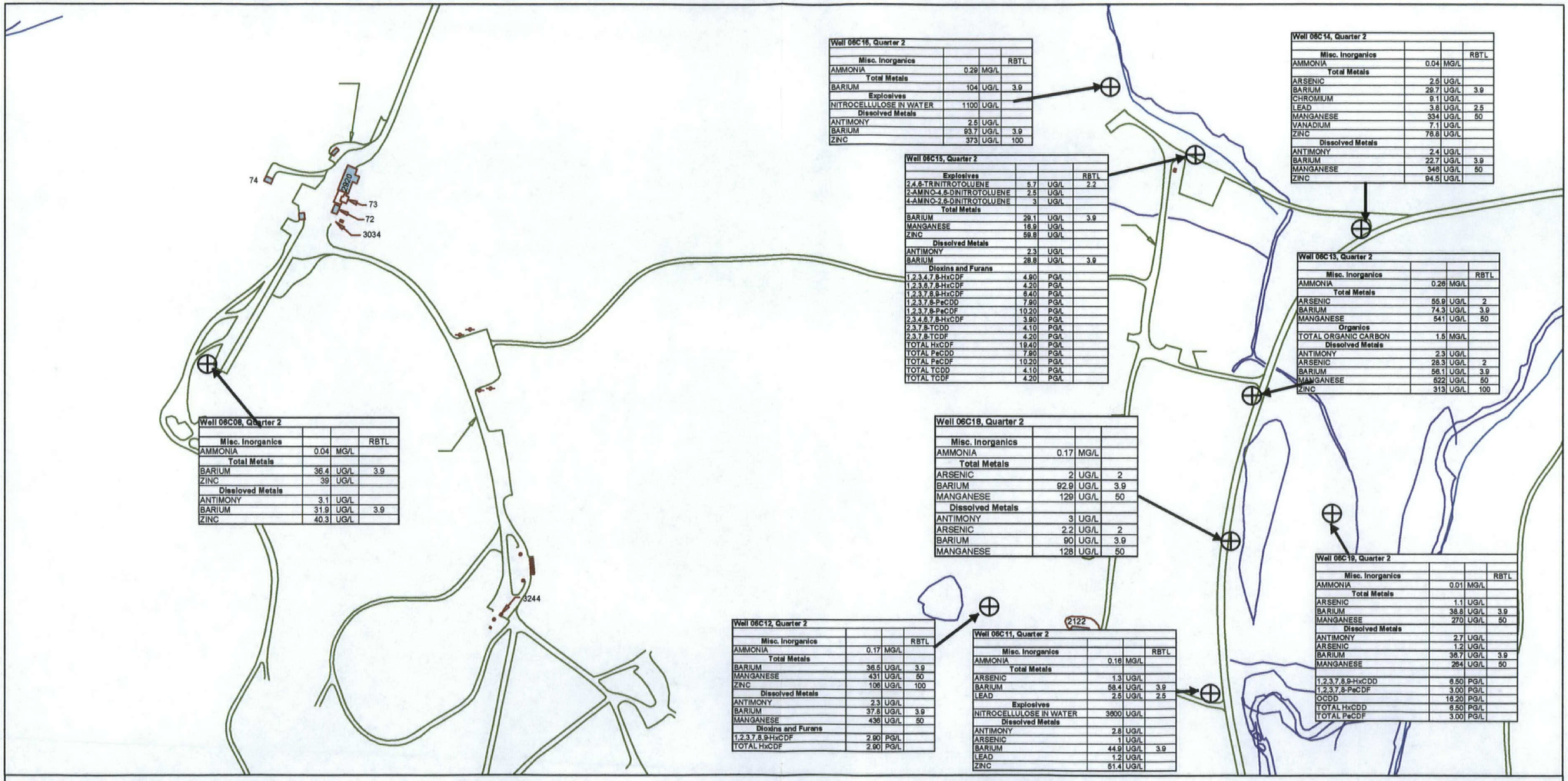
FIGURE 8.2.4
ORGANIC AND INORGANIC DETECTIONS
IN GROUNDWATER

OLD RIFLE RANGE
4TH QUARTER, 2003
AQUIFER: UPPER BIG CLIFTY

MONITORING WELL
Roads
Streams

N
W E
S

0 165 330 660
Feet



Well 06C16, Quarter 2			
Misc. Inorganics			RBTL
AMMONIA	0.29	MG/L	
Total Metals			
BARIUM	104	UG/L	3.9
Explosives			
NITROCELLULOSE IN WATER	1100	UG/L	
Dissolved Metals			
ANTIMONY	2.5	UG/L	
BARIUM	93.7	UG/L	3.9
ZINC	373	UG/L	100

Well 06C14, Quarter 2			
Misc. Inorganics			RBTL
AMMONIA	0.04	MG/L	
Total Metals			
ARSENIC	2.5	UG/L	
BARIUM	29.7	UG/L	3.9
CHROMIUM	9.1	UG/L	
LEAD	3.8	UG/L	2.5
MANGANESE	334	UG/L	50
VANADIUM	7.1	UG/L	
ZINC	76.8	UG/L	
Dissolved Metals			
ANTIMONY	2.4	UG/L	
BARIUM	22.7	UG/L	3.9
MANGANESE	348	UG/L	50
ZINC	94.5	UG/L	

Well 06C15, Quarter 2			
Explosives			RBTL
2,4,6-TRINITROTOLUENE	5.7	UG/L	2.2
2-AMINO-4,6-DINITROTOLUENE	2.5	UG/L	
4-AMINO-2,6-DINITROTOLUENE	3	UG/L	
Total Metals			
BARIUM	29.1	UG/L	3.9
MANGANESE	16.9	UG/L	
ZINC	59.8	UG/L	
Dissolved Metals			
ANTIMONY	2.3	UG/L	
BARIUM	28.8	UG/L	3.9
Dioxins and Furans			
1,2,3,4,7,8-HxCDF	4.90	PG/L	
1,2,3,6,7,8-HxCDF	4.20	PG/L	
1,2,3,7,8,9-HxCDF	6.40	PG/L	
1,2,3,7,8-PeCDD	7.90	PG/L	
1,2,3,7,8-PeCDF	10.20	PG/L	
2,3,4,6,7,8-HxCDF	3.90	PG/L	
2,3,7,8-TCDD	4.10	PG/L	
2,3,7,8-TCDF	4.20	PG/L	
TOTAL HxCDF	19.40	PG/L	
TOTAL PeCDD	7.90	PG/L	
TOTAL PeCDF	10.20	PG/L	
TOTAL TCDD	4.10	PG/L	
TOTAL TCDF	4.20	PG/L	

Well 06C13, Quarter 2			
Misc. Inorganics			RBTL
AMMONIA	0.26	MG/L	
Total Metals			
ARSENIC	55.9	UG/L	2
BARIUM	74.3	UG/L	3.9
MANGANESE	541	UG/L	50
Organics			
TOTAL ORGANIC CARBON	1.5	MG/L	
Dissolved Metals			
ANTIMONY	2.3	UG/L	
ARSENIC	28.3	UG/L	2
BARIUM	56.1	UG/L	3.9
MANGANESE	522	UG/L	50
ZINC	313	UG/L	100

Well 06C08, Quarter 2			
Misc. Inorganics			RBTL
AMMONIA	0.04	MG/L	
Total Metals			
BARIUM	36.4	UG/L	3.9
ZINC	39	UG/L	
Dissloved Metals			
ANTIMONY	3.1	UG/L	
BARIUM	31.9	UG/L	3.9
ZINC	40.3	UG/L	

Well 06C18, Quarter 2			
Misc. Inorganics			
AMMONIA	0.17	MG/L	
Total Metals			
ARSENIC	2	UG/L	2
BARIUM	92.9	UG/L	3.9
MANGANESE	129	UG/L	50
Dissolved Metals			
ANTIMONY	3	UG/L	
ARSENIC	2.2	UG/L	2
BARIUM	90	UG/L	3.9
MANGANESE	128	UG/L	50

Well 06C19, Quarter 2			
Misc. Inorganics			RBTL
AMMONIA	0.01	MG/L	
Total Metals			
ARSENIC	1.1	UG/L	
BARIUM	38.8	UG/L	3.9
MANGANESE	270	UG/L	50
Dissolved Metals			
ANTIMONY	2.7	UG/L	
ARSENIC	1.2	UG/L	
BARIUM	36.7	UG/L	3.9
MANGANESE	264	UG/L	50
1,2,3,7,8,9-HxCDD	6.50	PG/L	
1,2,3,7,8-PeCDF	3.00	PG/L	
OCDD	16.20	PG/L	
TOTAL HxCDD	6.50	PG/L	
TOTAL PeCDF	3.00	PG/L	

Well 06C12, Quarter 2			
Misc. Inorganics			RBTL
AMMONIA	0.17	MG/L	
Total Metals			
BARIUM	36.5	UG/L	3.9
MANGANESE	431	UG/L	50
ZINC	108	UG/L	100
Dissolved Metals			
ANTIMONY	2.3	UG/L	
BARIUM	37.8	UG/L	3.9
MANGANESE	436	UG/L	50
Dioxins and Furans			
1,2,3,7,8,9-HxCDF	2.90	PG/L	
TOTAL HxCDF	2.90	PG/L	

Well 06C11, Quarter 2			
Misc. Inorganics			RBTL
AMMONIA	0.16	MG/L	
Total Metals			
ARSENIC	1.3	UG/L	
BARIUM	58.4	UG/L	3.9
LEAD	2.5	UG/L	2.5
Explosives			
NITROCELLULOSE IN WATER	3600	UG/L	
Dissolved Metals			
ANTIMONY	2.8	UG/L	
ARSENIC	1	UG/L	
BARIUM	44.9	UG/L	3.9
LEAD	1.2	UG/L	
ZINC	51.4	UG/L	

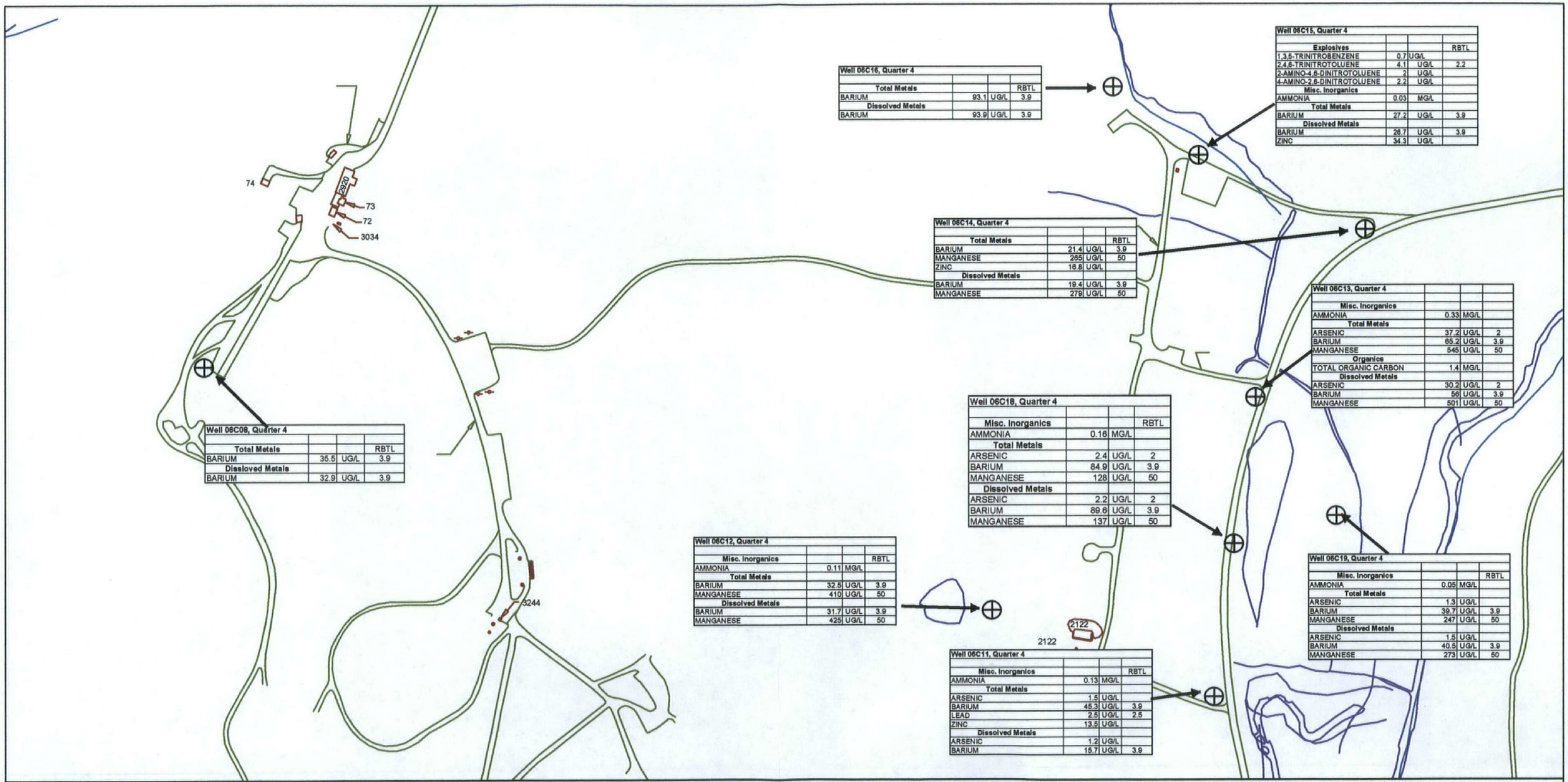
FIGURE 8.2.6
ORGANIC AND INORGANIC DETECTIONS
IN GROUNDWATER

OLD RIFLE RANGE
2ND QUARTER, 2003
AQUIFER: BIG CLIFTY/BEECH CREEK

⊕ Monitoring Well
Roads
Streams

590 295 0 590 Feet

N
W E
S



Well 06C16, Quarter 4

Total Metals			RBTL
BARIUM	93.1	UG/L	3.9
Dissolved Metals			
BARIUM	93.9	UG/L	3.9

Well 06C15, Quarter 4

Explosives			RBTL
1,3,5-TRINITROBENZENE	0.7	UG/L	
2,4,6-TRINITROTOLUENE	4.1	UG/L	2.2
2-AMINO-4,6-DINITROTOLUENE	2	UG/L	
4-AMINO-2,6-DINITROTOLUENE	2.2	UG/L	
Misc. Inorganics			
AMMONIA	0.03	MG/L	
Total Metals			
BARIUM	27.2	UG/L	3.9
Dissolved Metals			
BARIUM	26.7	UG/L	3.9
ZINC	34.3	UG/L	

Well 06C14, Quarter 4

Total Metals			RBTL
BARIUM	21.4	UG/L	3.9
MANGANESE	265	UG/L	50
ZINC	16.8	UG/L	
Dissolved Metals			
BARIUM	19.4	UG/L	3.9
MANGANESE	279	UG/L	50

Well 06C13, Quarter 4

Misc. Inorganics			
AMMONIA	0.33	MG/L	
Total Metals			
ARSENIC	37.2	UG/L	2
BARIUM	65.2	UG/L	3.9
MANGANESE	545	UG/L	50
Organics			
TOTAL ORGANIC CARBON	1.4	MG/L	
Dissolved Metals			
ARSENIC	30.2	UG/L	2
BARIUM	56	UG/L	3.9
MANGANESE	501	UG/L	50

Well 06C08, Quarter 4

Total Metals			RBTL
BARIUM	35.5	UG/L	3.9
Dissolved Metals			
BARIUM	32.9	UG/L	3.9

Well 06C18, Quarter 4

Misc. Inorganics			RBTL
AMMONIA	0.16	MG/L	
Total Metals			
ARSENIC	2.4	UG/L	2
BARIUM	84.9	UG/L	3.9
MANGANESE	128	UG/L	50
Dissolved Metals			
ARSENIC	2.2	UG/L	2
BARIUM	89.6	UG/L	3.9
MANGANESE	137	UG/L	50

Well 06C12, Quarter 4

Misc. Inorganics			RBTL
AMMONIA	0.11	MG/L	
Total Metals			
BARIUM	32.5	UG/L	3.9
MANGANESE	410	UG/L	50
Dissolved Metals			
BARIUM	31.7	UG/L	3.9
MANGANESE	425	UG/L	50

Well 06C19, Quarter 4

Misc. Inorganics			RBTL
AMMONIA	0.05	MG/L	
Total Metals			
ARSENIC	1.3	UG/L	
BARIUM	39.7	UG/L	3.9
MANGANESE	247	UG/L	50
Dissolved Metals			
ARSENIC	1.5	UG/L	
BARIUM	40.5	UG/L	3.9
MANGANESE	273	UG/L	50

Well 06C11, Quarter 4

Misc. Inorganics			RBTL
AMMONIA	0.13	MG/L	
Total Metals			
ARSENIC	1.5	UG/L	
BARIUM	45.3	UG/L	3.9
LEAD	2.5	UG/L	2.5
ZINC	13.5	UG/L	
Dissolved Metals			
ARSENIC	1.2	UG/L	
BARIUM	15.7	UG/L	3.9

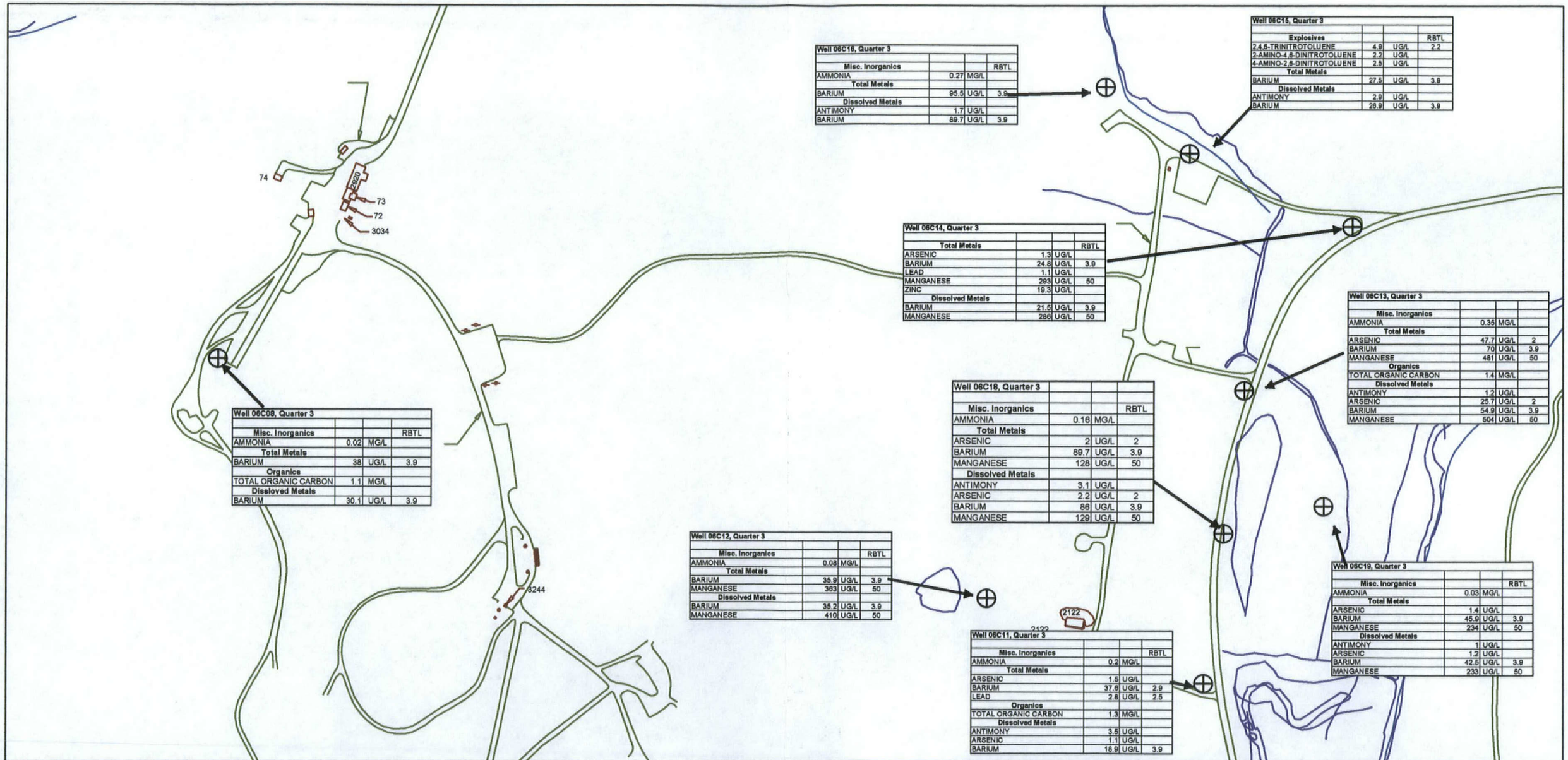
FIGURE 8.2.8
ORGANIC AND INORGANIC DETECTIONS
IN GROUNDWATER

OLD RIFLE RANGE
4TH QUARTER, 2003
AQUIFER: BIG CLIFTY/BEECH CREEK

⊕ Monitoring Well
Roads
Streams

590 295 0 590 Feet

N
W E
S



Well 06C08, Quarter 3			
Misc. Inorganics			RBTL
AMMONIA	0.02	MG/L	
Total Metals			
BARIUM	38	UG/L	3.9
Organics			
TOTAL ORGANIC CARBON	1.1	MG/L	
Dissolved Metals			
BARIUM	30.1	UG/L	3.9

Well 06C16, Quarter 3			
Misc. Inorganics			RBTL
AMMONIA	0.27	MG/L	
Total Metals			
BARIUM	95.5	UG/L	3.9
Dissolved Metals			
ANTIMONY	1.7	UG/L	
BARIUM	89.7	UG/L	3.9

Well 06C15, Quarter 3			
Explosives			RBTL
2,4,6-TRINITROTOLUENE	4.9	UG/L	2.2
2-AMINO-4,6-DINITROTOLUENE	2.2	UG/L	
4-AMINO-2,6-DINITROTOLUENE	2.5	UG/L	
Total Metals			
BARIUM	27.5	UG/L	3.9
Dissolved Metals			
ANTIMONY	2.9	UG/L	
BARIUM	26.9	UG/L	3.9

Well 06C14, Quarter 3			
Total Metals			RBTL
ARSENIC	1.3	UG/L	
BARIUM	24.8	UG/L	3.9
LEAD	1.1	UG/L	
MANGANESE	293	UG/L	50
ZINC	19.3	UG/L	
Dissolved Metals			
BARIUM	21.5	UG/L	3.9
MANGANESE	286	UG/L	50

Well 06C13, Quarter 3			
Misc. Inorganics			
AMMONIA	0.35	MG/L	
Total Metals			
ARSENIC	47.7	UG/L	2
BARIUM	70	UG/L	3.9
MANGANESE	481	UG/L	50
Organics			
TOTAL ORGANIC CARBON	1.4	MG/L	
Dissolved Metals			
ANTIMONY	1.2	UG/L	
ARSENIC	25.7	UG/L	2
BARIUM	54.9	UG/L	3.9
MANGANESE	504	UG/L	50

Well 06C18, Quarter 3			
Misc. Inorganics			RBTL
AMMONIA	0.16	MG/L	
Total Metals			
ARSENIC	2	UG/L	2
BARIUM	89.7	UG/L	3.9
MANGANESE	128	UG/L	50
Dissolved Metals			
ANTIMONY	3.1	UG/L	
ARSENIC	2.2	UG/L	2
BARIUM	86	UG/L	3.9
MANGANESE	129	UG/L	50

Well 06C12, Quarter 3			
Misc. Inorganics			RBTL
AMMONIA	0.08	MG/L	
Total Metals			
BARIUM	35.9	UG/L	3.9
MANGANESE	363	UG/L	50
Dissolved Metals			
BARIUM	35.2	UG/L	3.9
MANGANESE	410	UG/L	50

Well 06C19, Quarter 3			
Misc. Inorganics			RBTL
AMMONIA	0.03	MG/L	
Total Metals			
ARSENIC	1.4	UG/L	
BARIUM	45.9	UG/L	3.9
MANGANESE	234	UG/L	50
Dissolved Metals			
ANTIMONY	1	UG/L	
ARSENIC	1.2	UG/L	
BARIUM	42.5	UG/L	3.9
MANGANESE	233	UG/L	50

Well 06C11, Quarter 3			
Misc. Inorganics			RBTL
AMMONIA	0.2	MG/L	
Total Metals			
ARSENIC	1.5	UG/L	
BARIUM	37.6	UG/L	2.9
LEAD	2.6	UG/L	2.5
Organics			
TOTAL ORGANIC CARBON	1.3	MG/L	
Dissolved Metals			
ANTIMONY	3.5	UG/L	
ARSENIC	1.1	UG/L	
BARIUM	18.9	UG/L	3.9

FIGURE 8.2.7
ORGANIC AND INORGANIC DETECTIONS
IN GROUNDWATER

OLD RIFLE RANGE
3RD QUARTER, 2003
AQUIFER: BIG CLIFTY/BEECH CREEK

⊕ Monitoring Well
Roads
Streams

590 295 0 590 Feet

N
W E
S

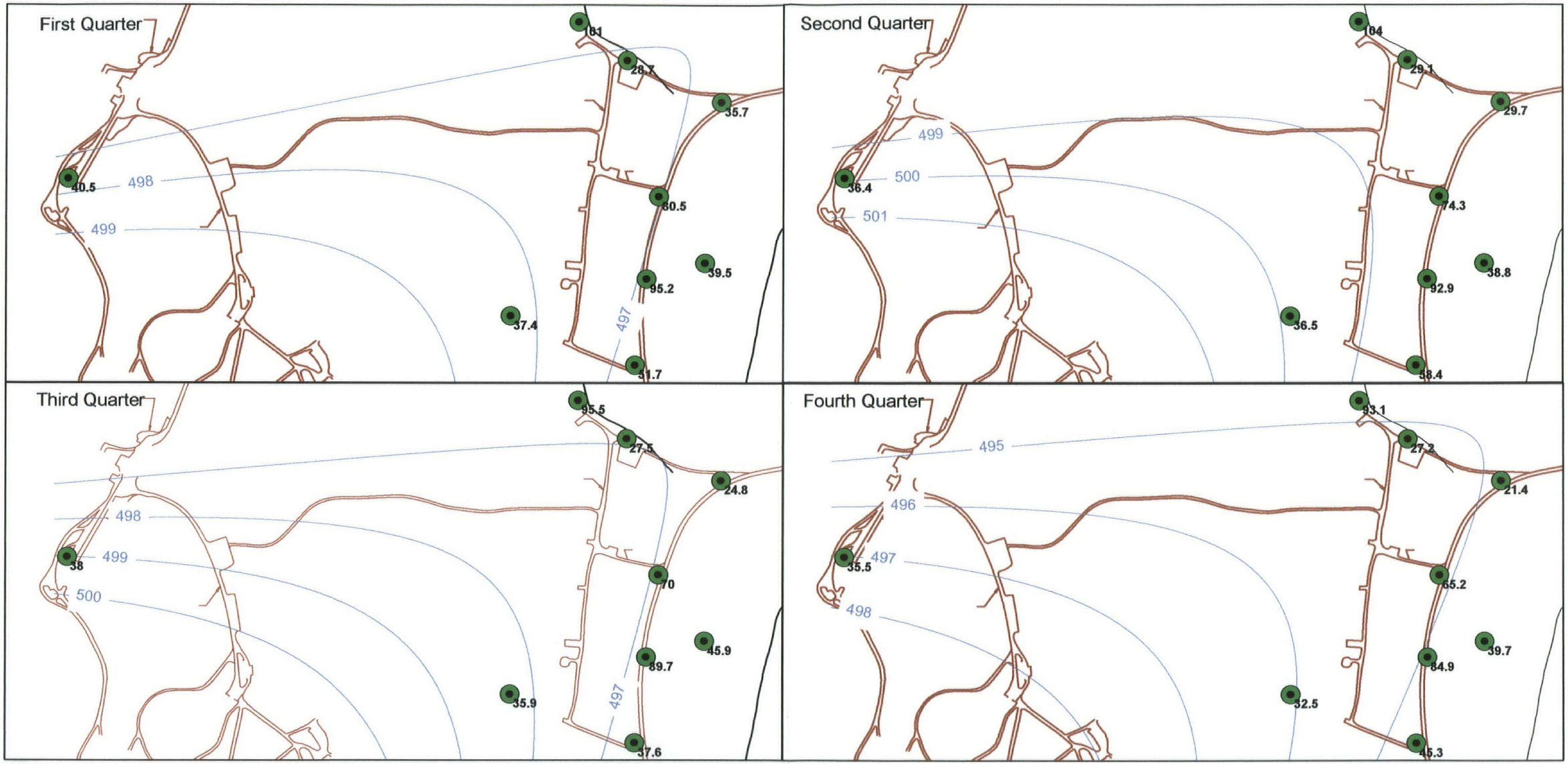


FIGURE 8.2.9 Quarterly Total Barium Concentrations in ORR Monitoring Wells

Old Rifle Range
Aquifer: Big Clifty/ Beech Creek
Year: 2003

Concentration Units: Micrograms per Liter
Risk-Based Target Level = 3.9

- Detected Concentration
- Head Contours
- Monitoring Wells
- Roads
- Streams

N
W E
S

1,000 500 0 1,000 Feet

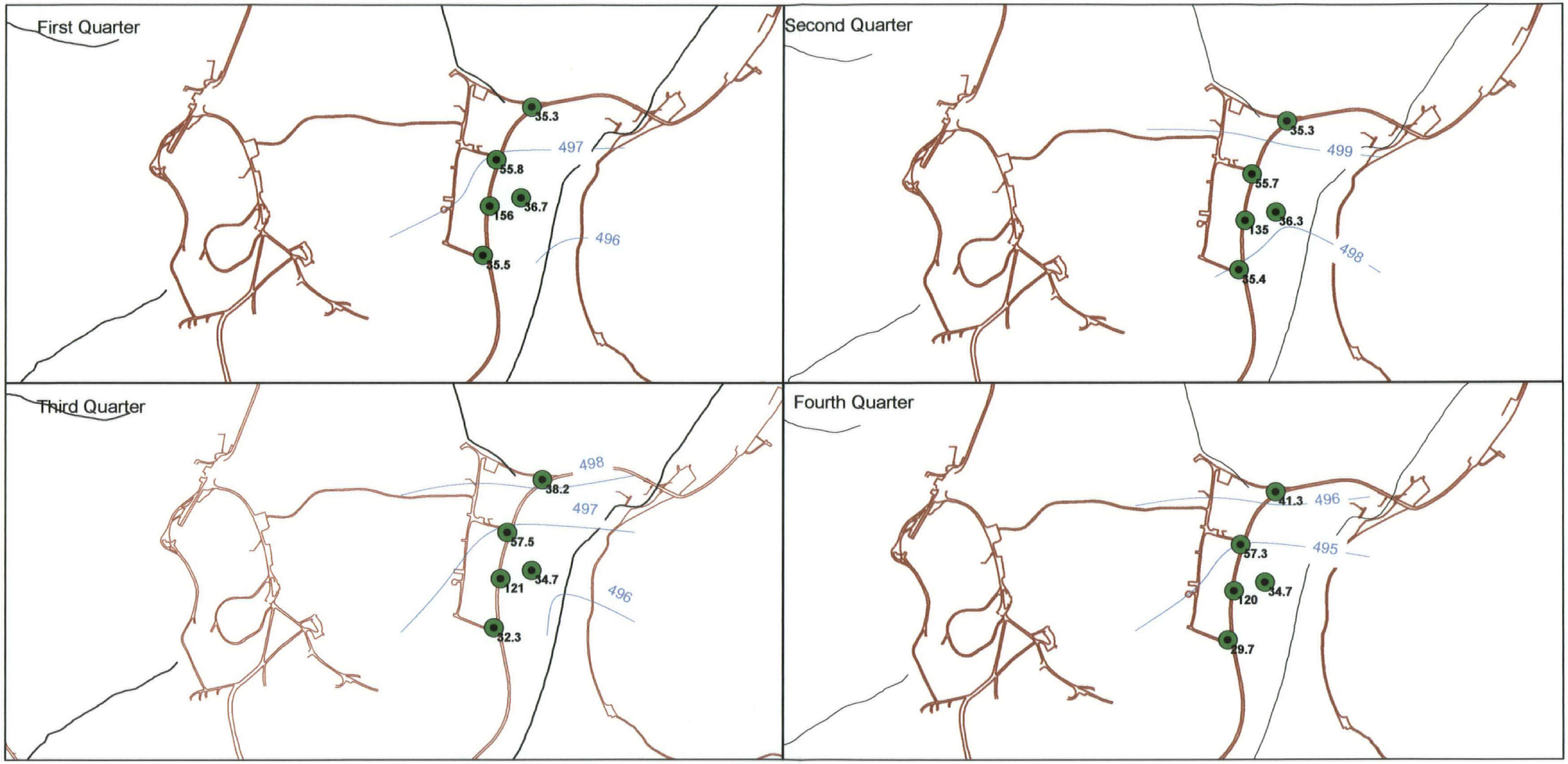


FIGURE 8.2.10 Quarterly Total Barium Concentrations in ORR Monitoring Wells

Old Rifle Range
Aquifer: Upper Big Clifty
Year: 2003

Concentration Units: Micrograms per Liter
Risk-Based Target Level = 3.9

- Detected Concentrations
- Head Contours
- Monitoring Wells
- Streams
- Roads

N
W E
S

1,900 950 0 1,900 Feet

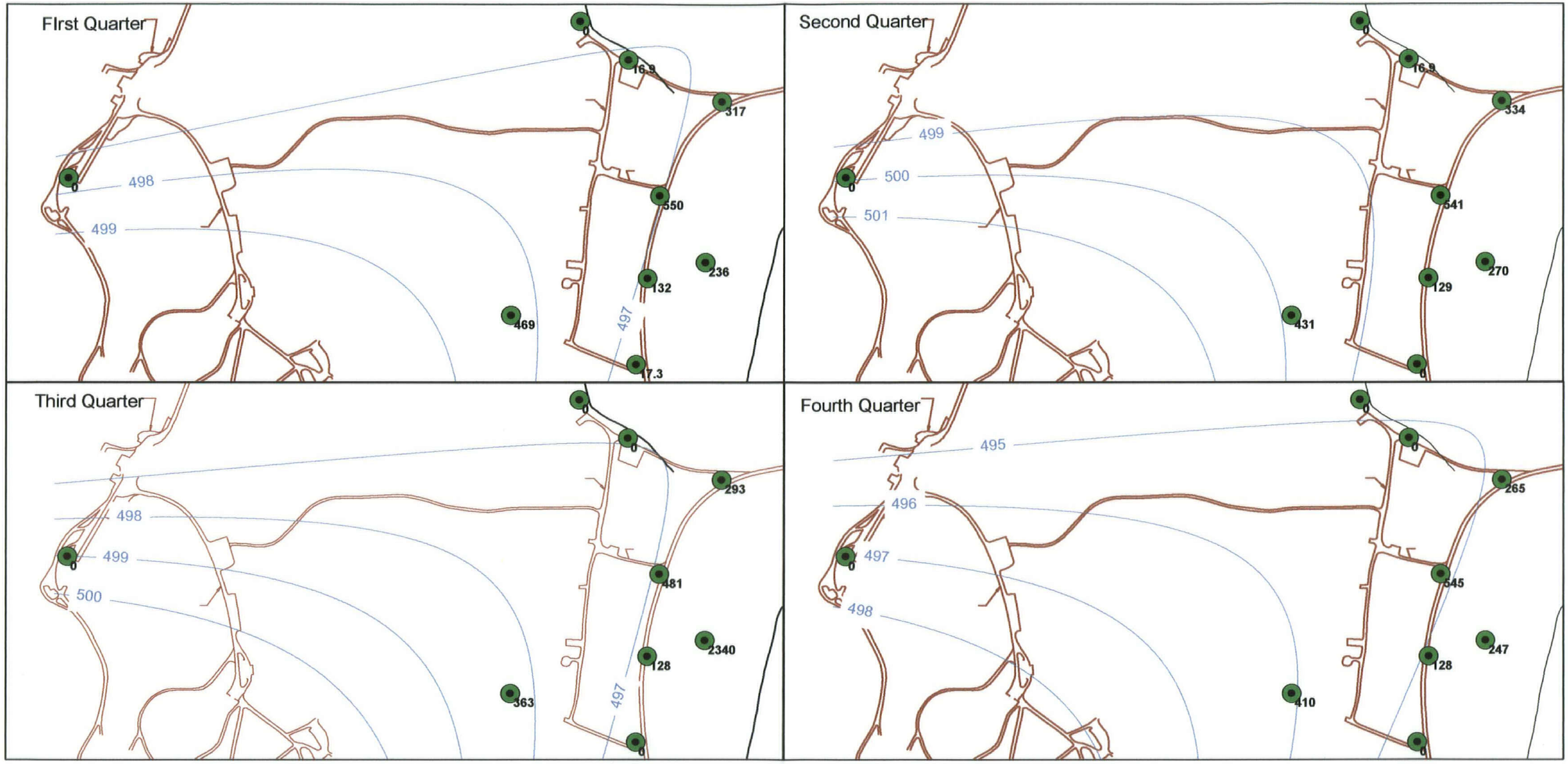


FIGURE 8.2.11 Quarterly Total Manganese Concentrations in ORR Monitoring Wells

Old Rifle Range
Aquifer: Big Clifty/ Beech Creek
Year: 2003

Concentration Units: Micrograms per Liter
Risk-Based Target Level = 50

- Detected Concentration
- Head Contours
- Monitoring Wells
- Roads
- Streams

N
W E
S

1,000 500 0 1,000 Feet

FIGURE 8.2.12 Quarterly Total Manganese Concentrations in ORR Monitoring Wells

Old Rifle Range
Aquifer: Upper Big Clifty
Year: 2003

Concentration Units: Micrograms per Liter
Risk-Based Target Level = 50

- Detected Concentrations
- Head Contours
- Monitoring Wells
- Streams
- Roads

N
W E
S

1,900 950 0 1,900 Feet

FIGURE 8.2.13 Quarterly Total Arsenic Concentrations in ORR Monitoring Wells

Old Rifle Range
Aquifer: Big Clifty/ Beech Creek
Year: 2003

Concentration Units: Micrograms per Liter
Risk-Based Target Level = 2

- Detected Concentration
- Head Contours
- Monitoring Wells
- Roads
- Streams

N
W E
S

1,000 500 0 1,000 Feet

8.3 Demolition Range

Similar to the Old Rifle Range (ORR), the well network at the Demolition Range (DR) was designed to monitor conditions in the surficial and underlying aquifers at the site. Weathering has made the presence of surficial formations highly variable. The contact of the Pennsylvanian formation with the underlying Mississippian intercepts the ground surface on the eastern and southern sides of the Demo Range ridge. A set of four shallow wells (denoted by well names ending with "P2") is screened in sandstones of the Pennsylvanian Mansfield Formation (where possible) and the limestone and limey shale of the Golconda/Haney Formation. The remaining wells are screened in the deeper formations, the Big Clifty sandstone and the Beech Creek limestone. The Big Clifty and Beech Creek formations are grouped together as one aquifer system at the Demo Range as well as other SMWUs at the facility.

Historically, evidence of contamination of groundwater underlying the Demo Range included only metals (TtNUS, 1999). Barium, copper, and antimony persisted in four rounds of sampling of the Big Clifty/Beech Creek wells. However, the elevated concentrations of copper and antimony were attributed to sampling artifacts. In addition, iron and manganese were "markedly high in at least six" of the Demo Range wells. Two Demo Range wells, 06C06 and 06C07 are 300 feet apart on the western flank of the site. These wells exhibited statistically high concentrations of several metals including cadmium, beryllium, zinc, nickel, aluminum, arsenic, manganese, and cobalt.

Figures 8.3.1-8.3.4 show all detections in monitoring wells at the Demo Range for the two sampling rounds in 2003. Results at the Demo Range generally agree with the historical data; detections in Demo Range monitoring wells were predominately metals. Detections of organics were limited to TOC, and, unlike the previous years, there were no detections of explosives in 2003. Metal detections were predominantly barium, manganese, and antimony.

The 2003 Demo Range results were combined with the 2000-2002 data and evaluated to determine which constituents were statistically higher than background (Section 7.0). The statistical analysis was done both with and without the outlying data points. Table 8.3 shows the Demo Range results that were significantly high and exceeded an RBTL in at least one of the two sampling rounds. Monitoring point objectives as per the GWMP (Tetra Tech NUS, 1999) are noted in the table. Metal concentrations that were significantly higher than background and exceeded an RBTL were found in POC wells. Constituents that exceeded both thresholds in compliance wells include arsenic, barium, and manganese. However, only barium and manganese exceeded both thresholds in more than one well. Most of the wells that exhibited an exceedance of both thresholds were screened in the network of deeper wells finished in the Big Clifty/Beech Creek aquifer system.

Similar to results at the Ammunition Burning Grounds and Old Rifle Range, total and dissolved barium were detected above the RBTL of 3.9 μg/L in all wells in all sampling rounds. Figure 8.3.5 shows the quarterly total barium concentrations in the Big Clifty/Beech Creek aquifer relative to respective water level contours (see Figure 8.3.3 for well references). Point of compliance wells with barium concentrations that exceeded both the concentration and statistical thresholds include 06C03P2, 06C04P2, 06C06P2,

06C02, 06C03, 06C04, 06C05, and 06C07. As discussed previously, results from the Basewide Background Soils Investigation indicated that all of the barium samples from the base were greater than the SRBTL of 1.04 mg/kg. Unlike the Ammunition Burning Grounds, however, we did not have soil data specific to the Demo Range to compare to the background levels.

Manganese was detected at concentrations that exceeded the RBTL of 50 µg/L and that were statistically significant in several wells screened in the Big Clifty/Beech Creek aquifer (Figure 8.3.6; see Figure 8.3.3 for well references). Point of compliance wells that exceeded both thresholds for manganese included 06C02, 06C03, and 06C04 (Table 8.3).

Table 8.3 Demolition Range Monitoring Points with results exceeding RBTL and statistically higher than background. [C = Compliance]

Parameter	Well	MP Objective	RBTL Exceedances by Quarter 2003	
			1st	3rd
METALS				
Arsenic	06C03	C	X	X
Arsenic (filtered)	06C03	C	X	X
Barium	06C02	C	X	X
	06C03	C	X	X
	06C03P2	C	X	X
	06C04	C	X	X
	06C04P2	C	X	X
	06C05	C	X	X
	06C06P2	C	X	X
	06C07	C	X	X
Barium (filtered)	06C02	C	X	X
	06C03	C	X	X
	06C03P2	C	X	X
	06C04	C	X	X
	06C05	C	X	X
	06C04P2	C	X	X
	06C07	C	X	X
Manganese	06C02	C	X	X
	06C03	C	X	X
	06C04	C	X	X
Manganese (filtered)	06C02	C	X	X
	06C03	C	X	X
	06C04	C	X	X

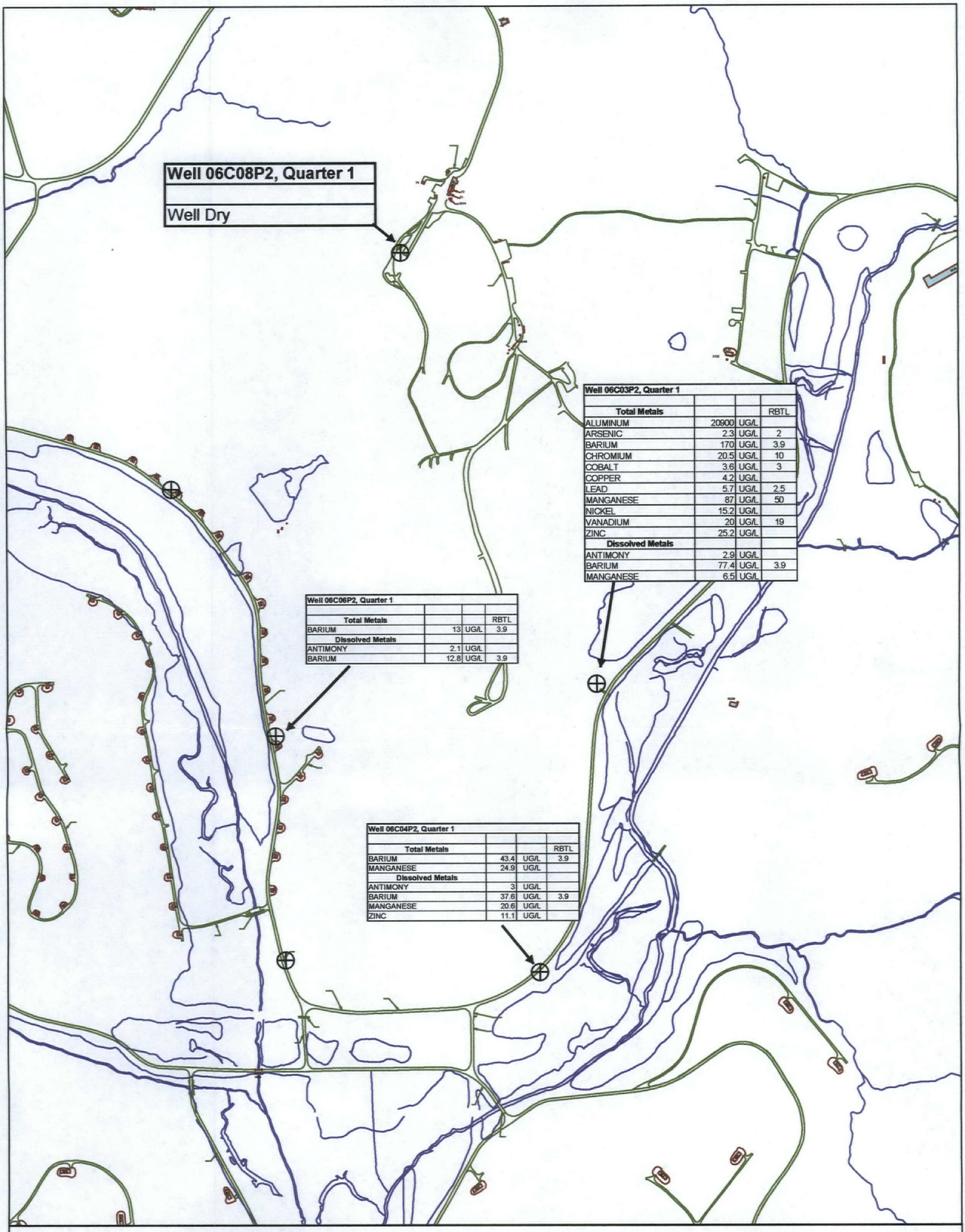


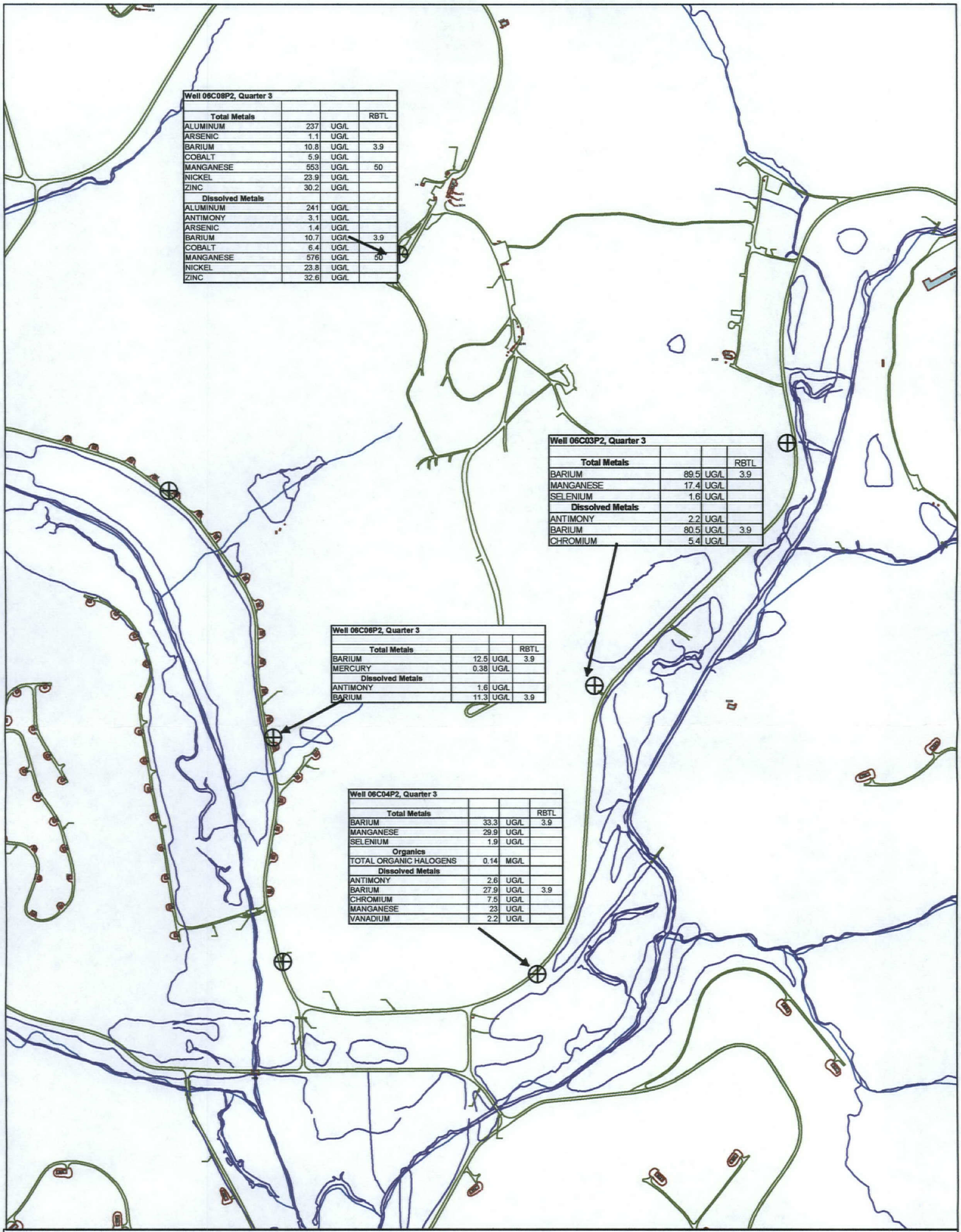
FIGURE 8.3.1
ORGANIC AND INORGANIC DETECTIONS
IN GROUNDWATER

DEMOLITION RANGE
1ST QUARTER, 2003
AQUIFER: PENNSYLVANIAN AND GOLCONDA/ HANEY

⊕ Monitoring Well

N W E S

0 600 1,200 2,400 Feet



Well 06C08P2, Quarter 3			
Total Metals			RBTL
ALUMINUM	237	UG/L	
ARSENIC	1.1	UG/L	
BARIUM	10.8	UG/L	3.9
COBALT	5.9	UG/L	
MANGANESE	553	UG/L	50
NICKEL	23.9	UG/L	
ZINC	30.2	UG/L	
Dissolved Metals			
ALUMINUM	241	UG/L	
ANTIMONY	3.1	UG/L	
ARSENIC	1.4	UG/L	
BARIUM	10.7	UG/L	3.9
COBALT	6.4	UG/L	
MANGANESE	576	UG/L	50
NICKEL	23.8	UG/L	
ZINC	32.6	UG/L	

Well 06C03P2, Quarter 3			
Total Metals			RBTL
BARIUM	89.5	UG/L	3.9
MANGANESE	17.4	UG/L	
SELENIUM	1.6	UG/L	
Dissolved Metals			
ANTIMONY	2.2	UG/L	
BARIUM	80.5	UG/L	3.9
CHROMIUM	5.4	UG/L	

Well 06C06P2, Quarter 3			
Total Metals			RBTL
BARIUM	12.5	UG/L	3.9
MERCURY	0.38	UG/L	
Dissolved Metals			
ANTIMONY	1.6	UG/L	
BARIUM	11.3	UG/L	3.9

Well 06C04P2, Quarter 3			
Total Metals			RBTL
BARIUM	33.3	UG/L	3.9
MANGANESE	29.9	UG/L	
SELENIUM	1.9	UG/L	
Organics			
TOTAL ORGANIC HALOGENS	0.14	MG/L	
Dissolved Metals			
ANTIMONY	2.6	UG/L	
BARIUM	27.9	UG/L	3.9
CHROMIUM	7.5	UG/L	
MANGANESE	23	UG/L	
VANADIUM	2.2	UG/L	

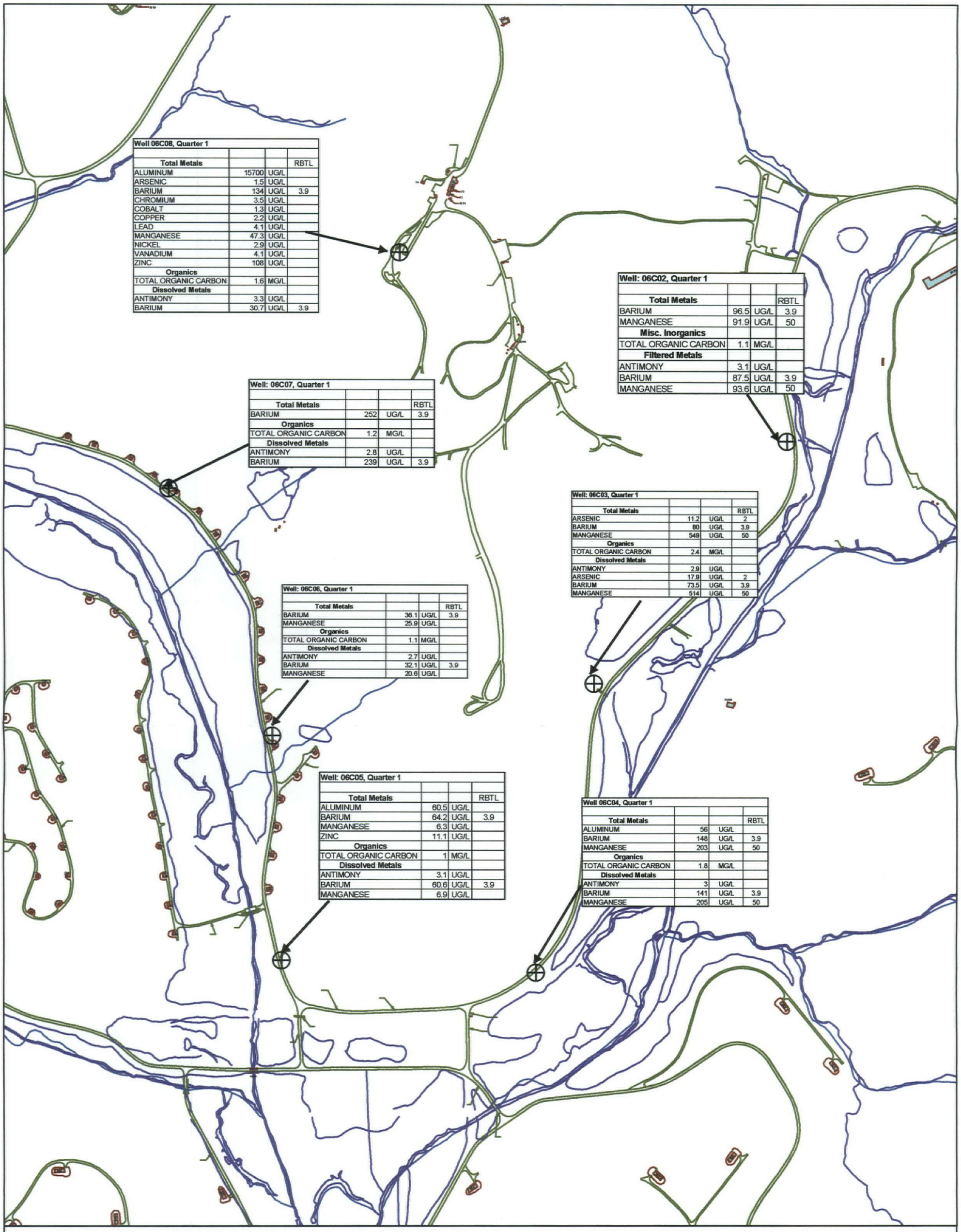
FIGURE 8.3.2
ORGANIC AND INORGANIC DETECTIONS
IN GROUNDWATER

DEMOLITION RANGE
3RD QUARTER, 2003
AQUIFER: PENNSYLVANIAN AND GOLCONDA/ HANEY

DR Monitoring Well
Roads
Streams

N
W E
S

0 600 1,200 2,400
Feet



Well 06C08, Quarter 1			
Total Metals			RBTL
ALUMINUM	15700	UG/L	
ARSENIC	1.5	UG/L	
BARIUM	134	UG/L	3.9
CHROMIUM	3.5	UG/L	
COBALT	1.3	UG/L	
COPPER	2.2	UG/L	
LEAD	4.1	UG/L	
MANGANESE	47.3	UG/L	
NICKEL	2.9	UG/L	
VANADIUM	4.1	UG/L	
ZINC	108	UG/L	
Organics			
TOTAL ORGANIC CARBON	1.6	MG/L	
Dissolved Metals			
ANTIMONY	3.3	UG/L	
BARIUM	30.7	UG/L	3.9

Well: 06C02, Quarter 1			
Total Metals			RBTL
BARIUM	96.5	UG/L	3.9
MANGANESE	91.9	UG/L	50
Misc. Inorganics			
TOTAL ORGANIC CARBON	1.1	MG/L	
Filtered Metals			
ANTIMONY	3.1	UG/L	
BARIUM	87.5	UG/L	3.9
MANGANESE	93.6	UG/L	50

Well: 06C07, Quarter 1			
Total Metals			RBTL
BARIUM	252	UG/L	3.9
Organics			
TOTAL ORGANIC CARBON	1.2	MG/L	
Dissolved Metals			
ANTIMONY	2.8	UG/L	
BARIUM	239	UG/L	3.9

Well: 06C03, Quarter 1			
Total Metals			RBTL
ARSENIC	11.2	UG/L	2
BARIUM	80	UG/L	3.9
MANGANESE	549	UG/L	50
Organics			
TOTAL ORGANIC CARBON	2.4	MG/L	
Dissolved Metals			
ANTIMONY	2.9	UG/L	
ARSENIC	17.9	UG/L	2
BARIUM	73.5	UG/L	3.9
MANGANESE	514	UG/L	50

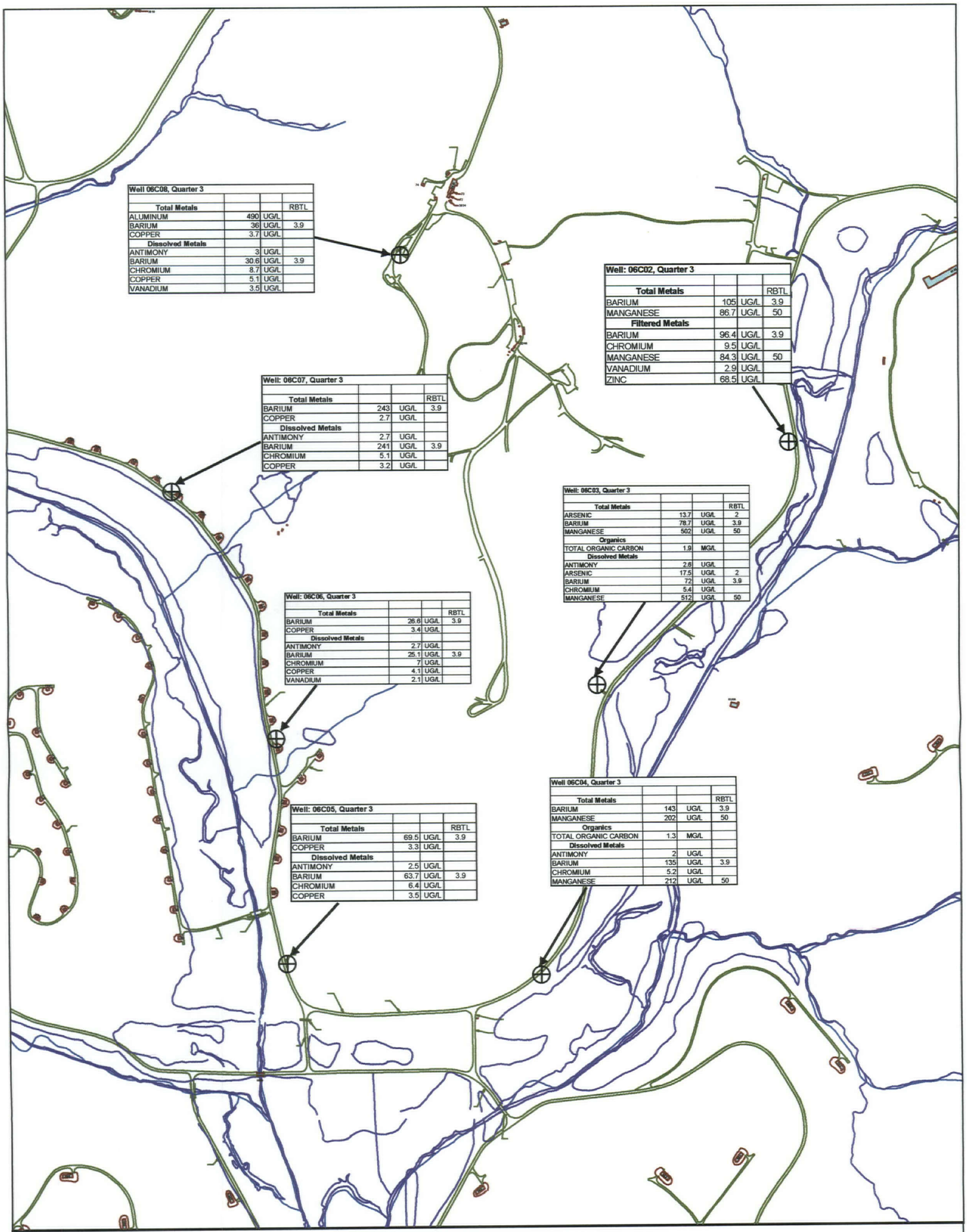
Well: 06C06, Quarter 1			
Total Metals			RBTL
BARIUM	36.1	UG/L	3.9
MANGANESE	25.9	UG/L	
Organics			
TOTAL ORGANIC CARBON	1.1	MG/L	
Dissolved Metals			
ANTIMONY	2.7	UG/L	
BARIUM	32.1	UG/L	3.9
MANGANESE	20.6	UG/L	

Well: 06C05, Quarter 1			
Total Metals			RBTL
ALUMINUM	60.5	UG/L	
BARIUM	64.2	UG/L	3.9
MANGANESE	6.3	UG/L	
ZINC	11.1	UG/L	
Organics			
TOTAL ORGANIC CARBON	1	MG/L	
Dissolved Metals			
ANTIMONY	3.1	UG/L	
BARIUM	60.6	UG/L	3.9
MANGANESE	6.9	UG/L	

Well 06C04, Quarter 1			
Total Metals			RBTL
ALUMINUM	56	UG/L	
BARIUM	148	UG/L	3.9
MANGANESE	203	UG/L	50
Organics			
TOTAL ORGANIC CARBON	1.8	MG/L	
Dissolved Metals			
ANTIMONY	3	UG/L	
BARIUM	141	UG/L	3.9
MANGANESE	205	UG/L	50

FIGURE 8.3.3
ORGANIC AND INORGANIC DETECTIONS
IN GROUNDWATER

DEMOLITION RANGE
1ST QUARTER, 2003
AQUIFER: BIG CLIFTY/ BEECH CREEK



Well 06C08, Quarter 3			
Total Metals			RBTL
ALUMINUM	490	UG/L	
BARIUM	36	UG/L	3.9
COPPER	3.7	UG/L	
Dissolved Metals			
ANTIMONY	3	UG/L	
BARIUM	30.6	UG/L	3.9
CHROMIUM	8.7	UG/L	
COPPER	5.1	UG/L	
VANADIUM	3.5	UG/L	

Well: 06C02, Quarter 3			
Total Metals			RBTL
BARIUM	105	UG/L	3.9
MANGANESE	86.7	UG/L	50
Filtered Metals			
BARIUM	96.4	UG/L	3.9
CHROMIUM	9.5	UG/L	
MANGANESE	84.3	UG/L	50
VANADIUM	2.9	UG/L	
ZINC	68.5	UG/L	

Well: 06C07, Quarter 3			
Total Metals			RBTL
BARIUM	243	UG/L	3.9
COPPER	2.7	UG/L	
Dissolved Metals			
ANTIMONY	2.7	UG/L	
BARIUM	241	UG/L	3.9
CHROMIUM	5.1	UG/L	
COPPER	3.2	UG/L	

Well: 06C03, Quarter 3			
Total Metals			RBTL
ARSENIC	13.7	UG/L	2
BARIUM	78.7	UG/L	3.9
MANGANESE	502	UG/L	50
Organics			
TOTAL ORGANIC CARBON	1.9	MG/L	
Dissolved Metals			
ANTIMONY	2.6	UG/L	
ARSENIC	17.5	UG/L	2
BARIUM	72	UG/L	3.9
CHROMIUM	5.4	UG/L	
MANGANESE	512	UG/L	50

Well: 06C06, Quarter 3			
Total Metals			RBTL
BARIUM	26.6	UG/L	3.9
COPPER	3.4	UG/L	
Dissolved Metals			
ANTIMONY	2.7	UG/L	
BARIUM	25.1	UG/L	3.9
CHROMIUM	7	UG/L	
COPPER	4.1	UG/L	
VANADIUM	2.1	UG/L	

Well 06C04, Quarter 3			
Total Metals			RBTL
BARIUM	143	UG/L	3.9
MANGANESE	202	UG/L	50
Organics			
TOTAL ORGANIC CARBON	1.3	MG/L	
Dissolved Metals			
ANTIMONY	2	UG/L	
BARIUM	135	UG/L	3.9
CHROMIUM	5.2	UG/L	
MANGANESE	212	UG/L	50

Well: 06C05, Quarter 3			
Total Metals			RBTL
BARIUM	69.5	UG/L	3.9
COPPER	3.3	UG/L	
Dissolved Metals			
ANTIMONY	2.5	UG/L	
BARIUM	63.7	UG/L	3.9
CHROMIUM	6.4	UG/L	
COPPER	3.5	UG/L	

FIGURE 8.3.4
ORGANIC AND INORGANIC DETECTIONS
IN GROUNDWATER

DEMOLITION RANGE
3RD QUARTER, 2003
AQUIFER: BIG CLIFTY/ BEECH CREEK

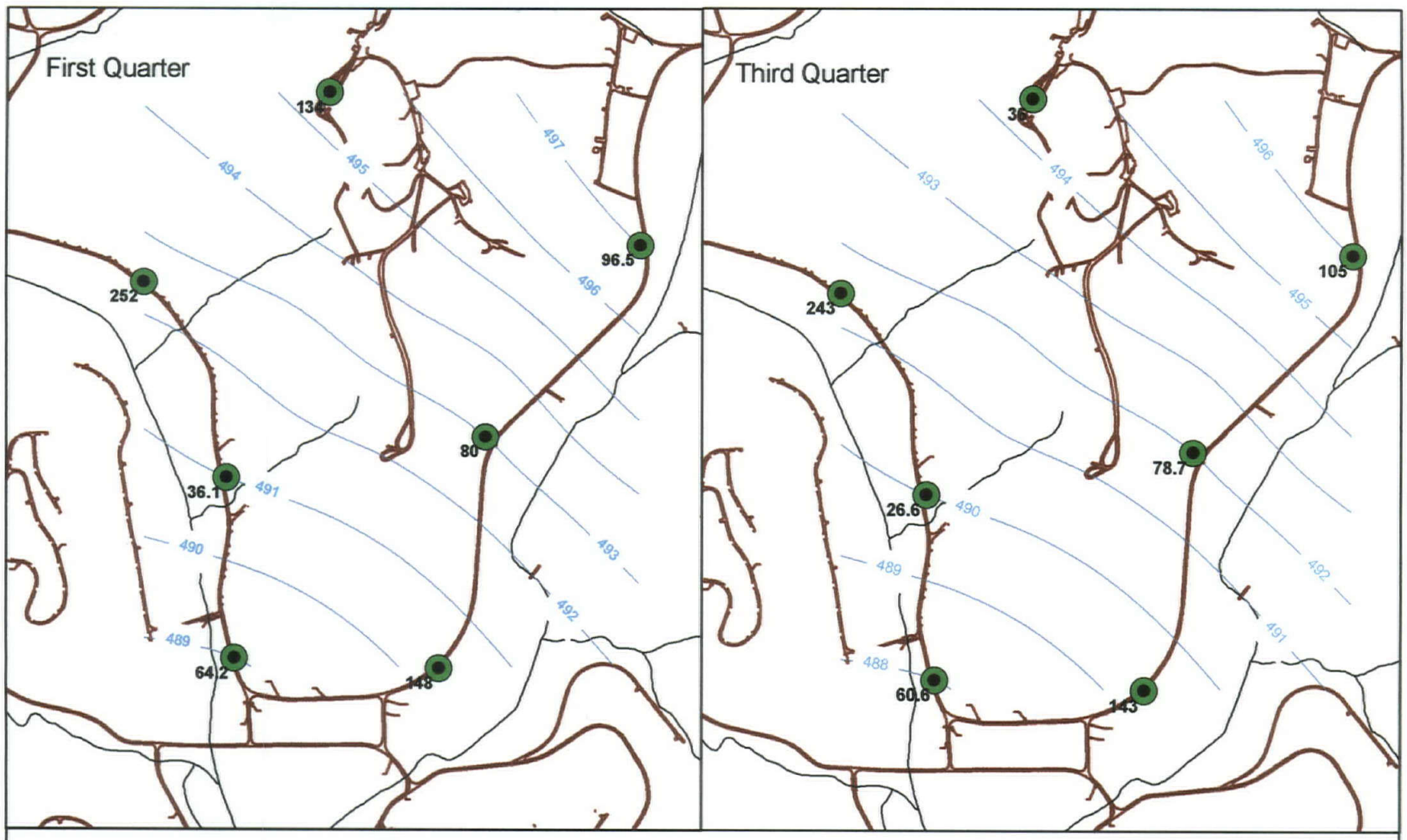


FIGURE 8.3.5 Quarterly Total Barium Concentrations in DR Monitoring Wells

Demolition Range
Aquifer: Big Clifty / Beech Creek
Year: 2003

Concentration Units: Micrograms per Liter
Risk-Based Target Level = 3.9

Detected Concentrations
Head Contours
Monitoring Well
Streams
Roads

N W E S

0 1,050 2,100 4,200 Feet

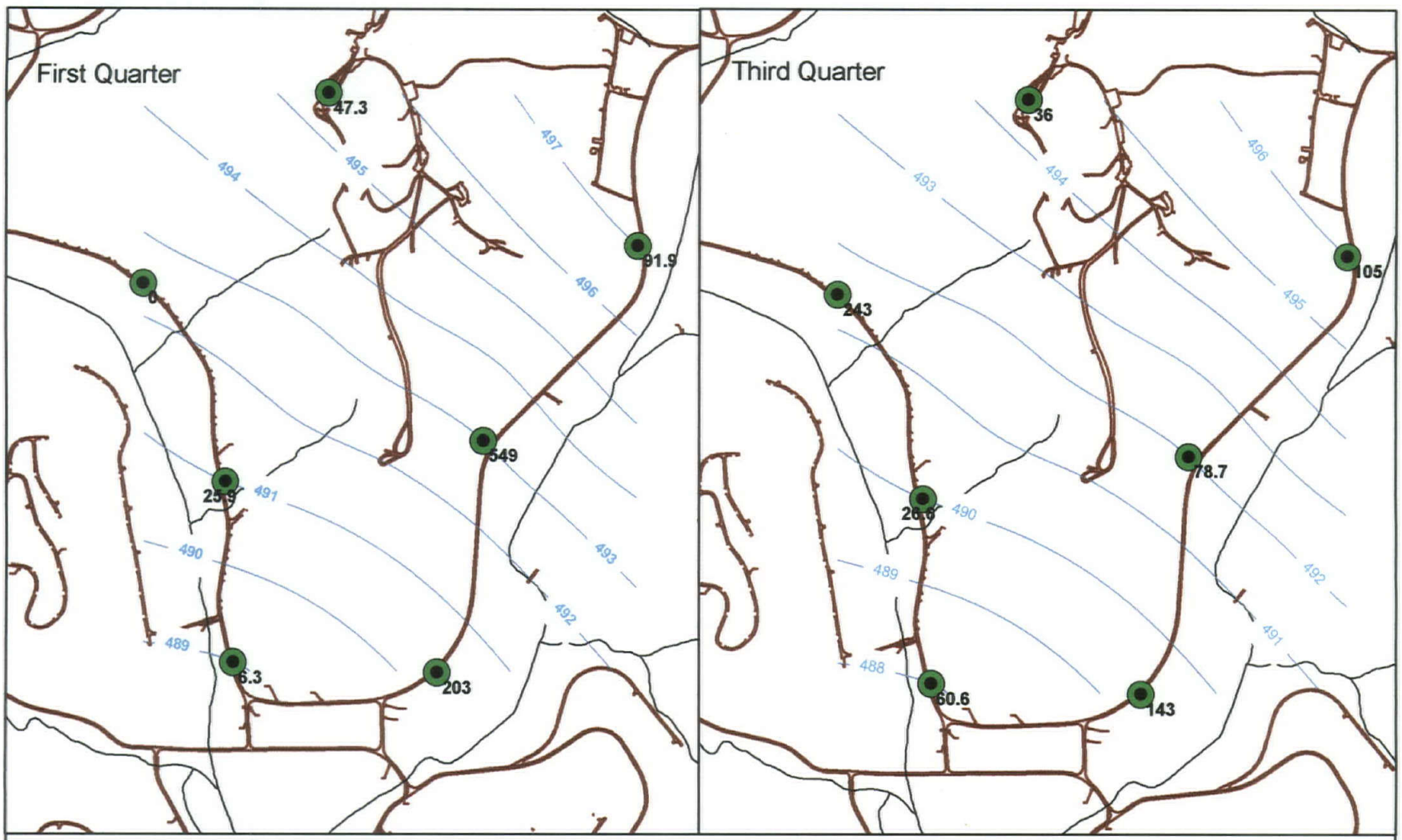


FIGURE 8.3.6 Quarterly Total Manganese Concentrations in DR Monitoring Wells

Demolition Range
Aquifer: Big Clifty / Beech Creek
Year: 2003

Concentration Units: Micrograms per Liter
Risk-Based Target Level = 50

Detected Concentrations
Head Contours
Monitoring Well
Streams
Roads

N W E S

0 1,050 2,100 4,200 Feet

References

Albertson, P., May, J.H., Nohrstedt, J.S., Magee, R.W., Payonk, P., 1998, Final Report: RCRA Facility Investigation, Part 2 Phase III Soils Study, Ammunition Burning Ground, SWMU 03/10, Naval Surface Warfare Center Crane, Indiana, Technical Report GL-98-23, U.S. Army Corps of Engineers, Waterways Experiment Station, Vicksburg, MS.

Baedke, S.J., 1998, Hydrogeologic and Geochemical Assessment of Porous Media and Karstic Flow Regimes of the Beech Creek Aquifer, Ammunition Burning Grounds, Naval Surface Warfare Center, Crane, Indiana, Thesis, Doctor of Philosophy, Department of Geologic Sciences, Indiana University.

Brown and Root Environmental, 1998, Quality Assurance Project Plan For RCRA Groundwater Monitoring at the Ammunition Burning Grounds, Old Rifle Range, and Demolition Range, Revision 1.

Jock, S.R. and Krothe, N.C., 2002, Jeep Trail Dye Test, Ammunition Burning Grounds (ABG), Indiana University Geological Science Department, Hydrogeology Laboratory, 3 p.

Murphy, W.L., 1994, Final Report, RCRA Facility Investigation, Phase III Groundwater Release Characterization, SWMU 03/10 Ammunition Burning Ground, Technical Report GL-94-15, U.S. Army Corps of Engineers, Waterways Experiment Station, Vicksburg, MS.

Murphy, W.L., and R. Wade, 1995, Draft Report, RCRA Facility Investigation, Phase II Groundwater Release Assessment, SWMU 06/09 Demolition Area and Phase III Release Characterization, SWMU 07/09 Old Rifle Range, Naval Surface Warfare Center, Crane, Indiana, U.S. Army Corps of Engineers, Waterways Experiment Station, Vicksburg, MS.

Tetra Tech NUS, 1999, Groundwater Monitoring Plan for the Ammunition Burning Grounds, Old Rifle Range, and Demolition Range, Revision 2.

Tetra Tech NUS, 2000, Basewide Background Soil Investigation Report, Contract Number N62467-94-D-0888.

Tetra Tech NUS, 2002, Resource Conservation and Recovery Act Facility Investigation Report for SWMU 03 – Old Jeep Trail/Little Sulphur Creek, Naval Surface Warfare Center, Crane Division, Crane, Indiana (Draft)

US Navy, 1997, Environmental Data Assessment Memorandum for Solid Waste Management Units #03/10, #06/09, and #07/09, Naval Surface Warfare Center, Crane Division, Contract No. GCPP-91-001-1298.

9.0

CONCLUSIONS

9.0 Conclusions

Results from the 2003 quarterly monitoring at the Ammunition Burning Grounds generally agree with previous findings. Metals, explosives, and organic compounds were detected in the Beech Creek Aquifer, often at concentrations above the respective RBTL. Risk-Based Target Limits were commonly exceeded in points of compliance wells. Barium, TCE, and RDX were the most frequently detected compounds at the site. Barium, TCE, and RDX were all found at concentrations above the RBTL in multiple wells on the site. Explosives are migrating offsite by way of the springs. RDX was commonly detected above the RBTL in both springs. HMX was detected frequently in onsite wells and in the springs, but at concentrations well below the RBTL. In addition to RDX and HMX, TNT, and nitro-toluene daughter products of the explosives were also found exiting Spring A in two of the four quarters. The presence of the degradation products indicates that some natural attenuation of explosives is occurring in the system.

Exceedance of an RBTL alone does not trigger action by 40 CFR 264 Subpart F. 40 CFR 264.91(a)(2) requires corrective action under 264.100 whenever an RBTL is exceeded at a POC *and* the concentration is statistically significant compared to background. Points of compliance define the edge of the monitoring zone as outlined in the GWMP. Statistical analysis revealed detections that were significantly higher than background concentrations in ABG POC wells. Constituents that exceeded an RBTL and were statistically significant in one or more POC wells include 1,3,5-trinitrobenzene, 2,4,6-trinitrobenzene, RDX, barium, zinc, 1,2-dichloroethane, carbon tetrachloride, chloroform, cis-1,2-dichloroethene, tetrachloroethene, and TCE.

Barium, Trichloroethene, and RDX were the constituents with the highest number of significant exceedances in ABG POC wells. All the other constituents listed above exceeded the RBTL and met the statistical threshold in no more than two POC sites. RDX and TCE may pose the most serious threat of offsite migration at the ABG. RDX exceeded the concentration and statistical thresholds in four ABG POC wells as well as Spring A. However, the number of sites exceeding both thresholds for RDX has decreased each year from 2000 to 2002, but remained the same for 2003. The number of ABG wells exceeding both thresholds for TCE decreased sharply from 2001 when ten wells were found to have concentrations that exceeded both the concentration and statistical threshold. The decrease in the number of wells exceeding both thresholds for RDX and TCE evident in the 2003 data may be due to natural attenuation.

Barium exceeded both thresholds in nine POC wells and both springs. Historic activities at the ABG could have contributed to the elevated presence of barium in groundwater underlying the site. Items have been burned at the unit that contained barium sulfate, an inert filler for projectiles and flares, known as "Salt-Load". The barium results may be due to natural or background conditions at the site. Results from the Basewide Background Soils Investigation (TtNUS, 2001) indicated that background samples were all greater than the SRBTL. However, comparisons of soil barium concentrations measured at the site with the Background Soils Investigation results shows that surface and subsurface soil concentrations at the site are generally greater than found basewide.

Detected constituents at the Old Rifle Range were predominantly metals. Elevated barium concentrations were ubiquitous in both well networks at the ORR. Similar to the

ABG, the results may be due to natural or background conditions at the site. Other metals detected with some frequency at the ORR included manganese and arsenic. Previous work at the ORR showed the persistence of TNT, RDX, and HMX. Detections of these parent compounds in 2003 were limited to TNT in Well 06C15, as was the case in 2002. In addition, nitro-toluene daughter products were also detected in Well 06C15.

Constituents that exceeded an RBTL and were statistically significant in one or more ORR POC wells include arsenic, barium, manganese, zinc, and lead. Manganese and barium were the constituents with the highest number of significant exceedances in ORR POC wells. Manganese exceeded the RBTL and statistical threshold in POC Wells 06C11P2, 06C13P2, 06C18P2, 06C12, 06C13, 06C14, and 06C18 as well as the downgradient Wells 06C19 and 06C19P2. Barium exceeded the RBTL and statistical threshold in POC wells 06C13P2, 06C18P2, 06C11, 06C13, 06C16, 06C18. Barium exceeded the RBTL and statistical threshold in POC Well 06C19 but only when the statistical analysis was performed with the outliers removed.

Previous work at the Demolition Range showed the persistence of metals. Results at the DR generally agree with the historic data. Detections in DR monitoring wells were predominately metals. Similar to the ABG and ORR, elevated barium concentrations were ubiquitous in both well networks at the DR. As is the case with the other sites, the results may be due to natural or background conditions.

Constituents that exceeded an RBTL and were statistically significant in one or more DR POC wells include arsenic, barium, and manganese. Historically, as noted in the Groundwater Monitoring Plan, Wells 06C06 and 06C07 were found to have the highest number of statistical exceedances. Results from 2003 indicate that POC Well 06C03 exhibited the most exceedances of both the concentration and statistical thresholds. Barium was the constituent with the highest number of significant exceedances in DR POC wells. Point of compliance wells with barium concentrations that exceeded both thresholds includes 06C03P2, 06C04P2, 06C06P2, 06C02, 06C03, 06C04, 06C05, and 06C07. Manganese exceeded the RBTL and statistical threshold in three POC wells, including 06C02, 06C03, and 06C04.