G-000-102.114

4772

1992 RCRA ANNUAL REPORT SUPPLEMENTARY GROUNDWATER MONITORING INFORMATION SECTION UPDATE RADIOLOGICAL ADDENDUM SEPTEMBER 1993

09/28/93

DOE-FN/OEPA
40
REPORT

4772

1992 RCRA Annual Report
Supplementary Groundwater Monitoring Information Section Update
Radiological Addendum

September 1993

Prepared by

Fernald Environmental Restoration Management Corporation

Prepared for

U.S. Department of Energy
Fernald Field Office

Under Contract DE-AC05-92OR21972

477 2

1992 RCRA Annual Report
Supplementary Groundwater Monitoring
Information Section Update
Radiological Addendum

September 1993

Introduction

This addendum is designed to update the groundwater radiological monitoring results comparison to action levels in section 6.3 of the 1992 RCRA Annual Report and the statistical analysis of groundwater data in section 6.4 of the 1992 RCRA Annual Report. In addition, the addendum will provide in electronic copy the updated radiological data in GRITS format. Information in this report supersedes only the radiological information presented in sections 6.3 and 6.4 of the 1992 RCRA Annual Report. This report is not a stand-alone document, but should be reviewed in combination with the 1992 RCRA Annual Report and the 1992 Annual Report Update provided in February and May, 1993, respectively.

This addendum was necessary due to significant laboratory delays in addressing serious technical problems with this radiological data set. While many issues were addressed, some of the data presented in this report are considered suspect due to the fundamental analytical errors which could not be corrected by the laboratory. Suspect data have been assigned a qualifier (J) in Appendix A.

Radiological Groundwater Data Presentation

The radiological data collected for the RCRA groundwater monitoring program is provided in Appendix A, "Sampling Results," of this addendum. The data presented in Appendix A are provided as an update to the data presented in Appendix E, "Analytical and Field Results of Sampling," of the 1992 RCRA Annual Report. The radiological data in Appendix A of this addendum replace the radiological data presented in Appendix E of the 1992 RCRA Annual Report.

Sampling for radionuclides was not consistent until 1992 when the RCRA GMP Sampling Program was initiated. Therefore, sample results prior to 1992 may not contain results for every quarter. Also, the following list of monitoring wells could not be sampled for certain quarters, as defined in Table 1.

3

Table 1
Monitoring Wells That Could Not Be Sampled in 1992

MW	QUARTERS NOT SAMPLED IN 1992	REASON
1004	1st, 2nd, 3rd, 4th	dry
1028	1st, 2nd, 3rd, 4th	dry
1030	1st, 2nd, 3rd, 4th	dry
1072	1st, 2nd, 3rd, 4th	dry
1160	1st, 2nd	dry
1260	1st, 2nd, 3rd, 4th	dry

Comparison of Radiological Groundwater Data to the Action Levels

The analytical data presented in Appendix A were compared to the action levels established in the RCRA GMP. The action levels are provided in Table 2. The results of the comparison between analytical results and the action levels are provided in Appendix B, "Analytical Results Above the RCRA GMP ACLs." The radiological data in Appendix B replace the radiological data in Appendix G of the 1992 RCRA Annual Report.

The action levels established in the RCRA GMP are only applicable to the Great Miami Aquifer (2000, 3000, and 4000-series wells). No action levels have been established for the glacial overburden. Thirty-one till wells were sampled in 1992 to monitor water quality changes in perched groundwater. Until glacial overburden action levels are established, the 1000-series well sampling data are being interpreted through summary statistics, which are included in Appendix D.

Table 2

RCRA GMP Action Levels for the Great Miami Aquifer

CHEMICAL	ACTION LEVEL (ppm except where noted)	TAKEN FROM:
1,1,1-Trichloroethane	0.7	PRG, no background
1,1-Dichloroethane	0.7	PRG, no background
1,2-Dichloroethane	0.001	Method Detection Limit
1,1-Dichloroethene	0.07	PRG, no background
trans-1,2-Dichloroethene	0.1	PRG, no background
1,2-Dichloroethene (Total)	0.03	Method Detection Limit
Acetone	0.7	PRG, no background
Benzene	0.001	PRG, no background
Carbon Disulfide	0.7	PRG, no background
Chloroform	0.006	PRG, no background
Methylene Chloride	0.01	Method Detection Limit
Tetrachloroethane	0.005	MCL
Toluene	1.0	PRG, no background
Trichloroethene	0.003	PRG, no background
Vinyl Chloride	0.005	Method Detection Limit
Aluminum	0.303	Background UTL
Arsenic	0.392	Background UTL + PRG
Barium	1.447	Background UTL + PRG
Beryllium	0.004	Background UTL + PRG
Cadmium	0.011	Background UTL + PRG
Calcium	136	Background UTL
Chromium	0.079	Background UTL + PRG
Chloride	250	MCL
Cobalt*	0.02	PRG, no background
Copper	1.00	MCL
Fluoride	2.00	MCL
Iron	4.13	Background UTL
Gross Alpha*	24.3 (pCi/l)	Background UTL

5

CHEMICAL	ACTION LEVEL (ppm except where noted)	TAKEN FROM:
Gross Beta*	38.3 (pCi/l)	Background UTL
Lead	0.056	Background UTL + PRG
Magnesium	47.0	Background UTL
Manganese	0.965	Background UTL + PRG
Mercury	0.003	Background UTL + PRG
Nickel	0.126	Background UTL + PRG
Nitrate	10.0	MCL
Phenols	0.061	Background UTL
Radium 226+228**	3.82 (pCi/l)	Background UTL + 2xPRG
Selenium	0.17	Background UTL + PRG
Silver	0.034	Background UTL + PRG
Sodium	100	Background UTL
Sulfate	250	MCL
Uranium	0.022	Background UTL + PRG
Vanadium	0.084	Background UTL + PRG
Zinc	1.109	Background UTL + PRG

Notes:
UTL - Upper Tolerance Limit of background, data taken from Shandon Background in Table M-6 of the Sitewide Characterization Report, Appendix M.
PRG - Preliminary Remediation Goals, values were taken from the Sitewide Characterization Report.
MCL - Maximum Contaminant Level promulgated by the EPA.
Method detection limits are based on the analytical method used for each parameter.

* The background UTL for these parameters was determined through the use of RCRA GQAPP assessment monitoring program data.

** The action level for Radium 226+228 was generated by determining a combined UTL background value and adding the PRG for Radium 226 and the PRG for Radium 228. The PRGs for these parameters happen to be the same (0.2).

A large number of non-detect samples occur above the action levels. This is due to the detection level being greater than the action level. Most of these occurrences were collected before 1992. The RCRA GMP action levels were developed from 1992 method detection limits. The elevated detection limits are due to; laboratory procedures such as dilution, matrix interferences, changes in analytical methods, and laboratory contract required detection limits. When detection limits exceeded the action levels, the sample result was not considered to be elevated above the action levels.

To determine those sample events that indicated a significant concentration above the action level, the data in Appendix B are sorted into single sample events above the action level and multiple sample events above the action level for a given well/parameter combination. If a monitoring well had more than one sample result above the action level for a given parameter, the well was considered to be suspect. Appendix C contains a list of the monitoring wells and parameters that were considered suspect.

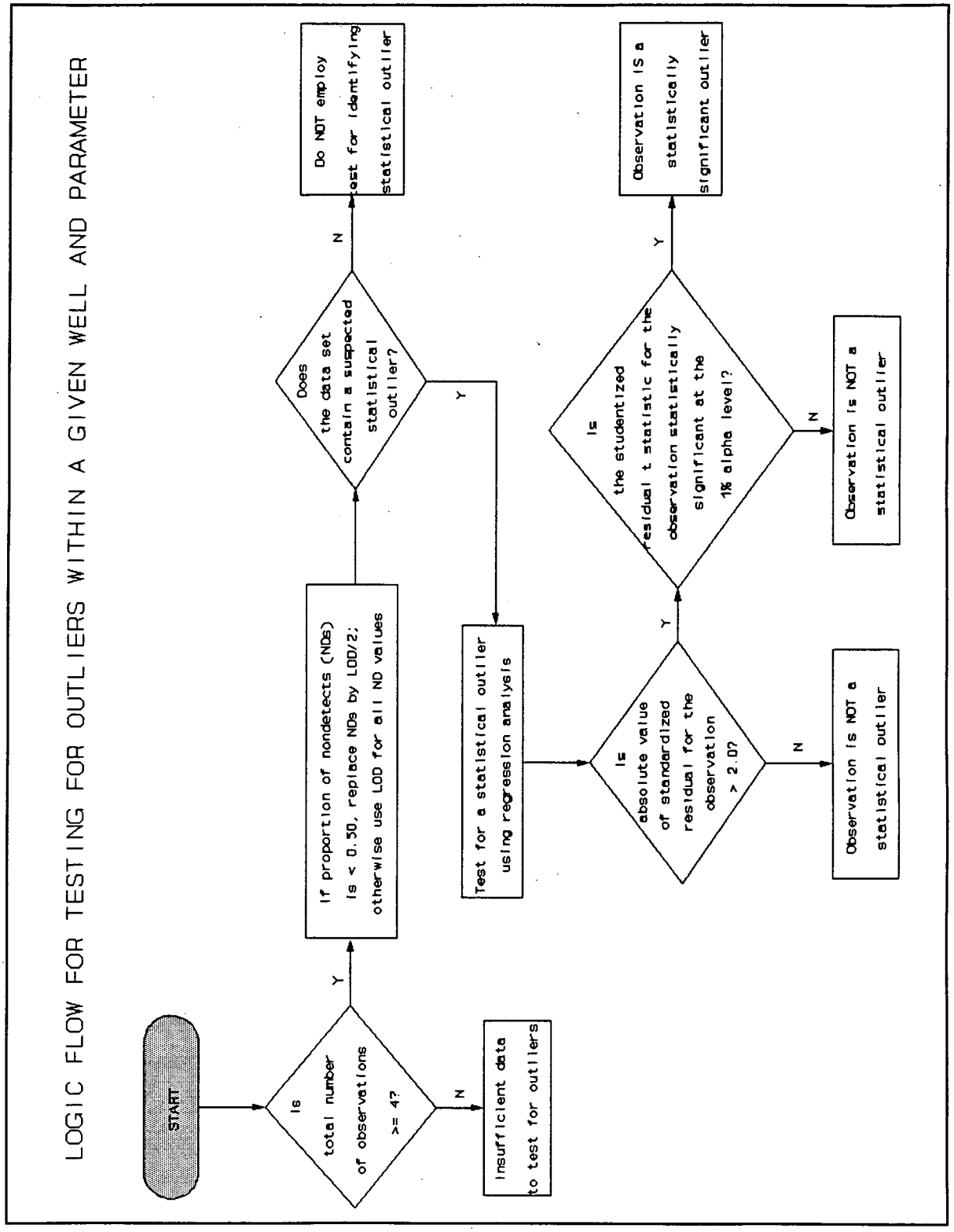
Radiological Groundwater Data Statistical Evaluation

A statistical assessment was performed on the analytical data to substantiate the conclusions derived from the comparison to action levels. The statistical assessment was performed using all radiological historical data available for the RCRA monitoring wells. The following statistical assessment replace the statistical assessment reported in the 1992 RCRA Annual Report (section 6.4) for the radiological parameters only.

The Wilk-Shapiro test was used to determine the distribution of the data. Appendix D presents the results of the Wilk-Shapiro test. The data were determined to be either normally or non-normally distributed. The test for outliers was performed using regression and studentized residual t statistical analysis. Figure 1 is a logic chart that explains the determination of statistical outliers. Table 3 lists the outliers that were identified by this method.

47

Figure 1
Logic Diagram for the Determination of Statistical Outliers



8

TABLE 3
List of Statistical Outliers

PARAMETERS	WELL NUMBER	SAMPLE DATE	OUTLIER VALUE	UNITS
Gross Alpha	1031	08/22/90	330	pCi/L
Gross Alpha	1042	09/24/90	94.0	pCi/L
Gross Alpha	1081	05/24/90	565	pCi/L
Gross Alpha	2010	05/10/90	192	pCi/L
Gross Alpha	2064	05/23/90	13.2	pCi/L
Gross Alpha	3069	06/13/90	2010	pCi/L
Gross Alpha	4008	01/13/92	3.03	pCi/L
Gross Beta	1074	11/16/90	478	pCi/L
Gross Beta	1081	05/24/90	490	pCi/L
Gross Beta	1645	10/27/92	355	pCi/L
Gross Beta	3069	06/13/90	38600	pCi/L
RA-226	4001	05/21/91	2.29	pCi/L
RA-228	1064	02/05/92	16.1	pCi/L
RA-228	1074	05/09/90	33.0	pCi/L
RA-228	3070	04/06/92	12.3	pCi/L
RA-228	4008	01/13/92	12.2	pCi/L
U-Total	1082	05/24/90	<0.50	ppb
U-Total	1160	11/05/89	17.0	ppb
U-Total	1229	10/29/89	58.0	ppb
U-Total	2027	01/21/92	330	ppb
U-Total	2043	08/06/90	15.5	ppb
U-Total	3037	05/05/88	35.0	ppb
U-Total	3106	09/06/90	6.20	ppb
U-Total	3120	02/05/92	8.69	ppb

The determination of population distribution and summary statistics were performed with and without the statistical outliers. The trend analysis was performed without the statistical outliers.

Summary statistics for all of the well-parameter combinations are provided in Appendix D. The summary statistics in Appendix D replace the summary statistics reported in Appendix H of the 1992 RCRA Annual Report for radiological parameters only. The concentration units for the summary statistical tables are pCi/L except for total uranium, which is reported in ug/L or ppb. The pages preceding the summary tables in Appendix D describe the abbreviations used in the tables.

The summary statistics consist of: proportion of nondetects, N (sample population), type of distribution, mean, median, geometric mean, standard deviation, Q3-Q1 (inner quartile range), standard error of the mean, coefficient of variation, maximum value, minimum value, and ratio of maximum to minimum value (max/min ratio). The minimum, maximum, max/min ratio, mean, median, standard deviation, and coefficient of variation are used to evaluate the variability of normally distributed data. The geometric mean and inner quartile range are used in place of the mean and standard deviation to evaluate the variability of non-normal data. Trending of the data was used to determine if concentrations of a parameter in a well were increasing significantly. The trend analysis was performed on those well/parameter combinations that had concentrations above and below the action level (not including non-detects). The wells with constituent concentrations above the action levels were analyzed separately to evaluate the magnitude of concentrations above action levels. The analysis of all well/parameter combinations was performed to determine which monitoring wells had concentrations trending towards the action level. Figure 2 represents the logic flow path for trending analysis.

The results of the trend analysis are provided in Tables 4 and 5. The slope per quarter represents the averaged increase in concentration (ppm) per three month period. The 99%, 95%, and 80% Upper Confidence Limit (U.C.L.) and Lower Confidence Limit (L.C.L.) columns provide an error estimation on the slope. The one-tailed p value represents the probability of a false positive in the determination of an increasing slope.

Figure 2
Logic Diagram for the Determination of Statistical Outliers

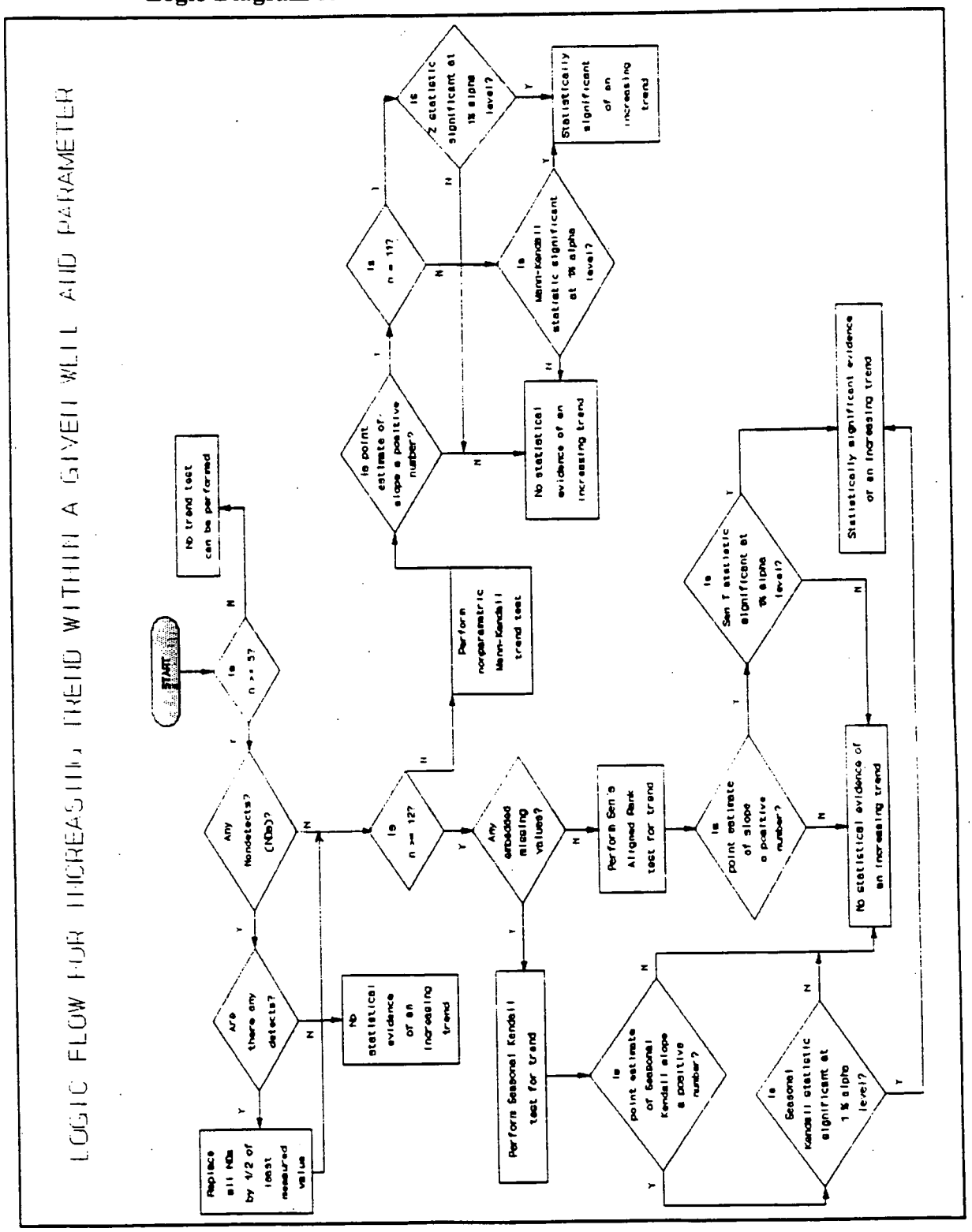


TABLE 4
RCRA WELLS AND PARAMETERS WITH THEIR MAXIMUM VALUE GREATER THAN OR EQUAL TO THE ACTION LEVEL AND SHOWING A STATISTICALLY SIGNIFICANTLY INCREASING TREND[1] OVER TIME
(ppb)

Parameter	Well No.	Slope per Quarter	Slope 99% U.C.L.	Slope 99% L.C.L.	Slope 95% U.C.L.	Slope 95% L.C.L.	Slope 80% U.C.L.	Slope 80% L.C.L.	[1](One-tailed) p Value
Radium-226	3037	0.218	1.092	-0.845	0.473	0.092	0.276	0.181	0.008
*Radium-226	3066	0.077	0.163	0.000	0.131	0.003	0.112	0.031	0.006
*Radium-228	3043	0.099	0.414	0.000	0.332	0.000	0.197	0.000	0.011

[1]The increase is considered to be statistically significant if the one-tailed p value is $\leq$ 0.01.

*The maximum value for Radium 226 and 228 combined was above the action level.

12

4272

TABLE 5
RCRA WELLS AND PARAMETERS WITH THEIR MAXIMUM VALUE LESS THAN THE ACTION LEVEL AND SHOWING A STATISTICALLY SIGNIFICANTLY INCREASING TREND[1] OVER TIME
(pCi/l)

Parameter	Well No.	Slope per Quarter	Slope 99% U.C.L.	Slope 99% L.C.L.	Slope 95% U.C.L.	Slope 95% L.C.L.	Slope 80% U.C.L.	Slope 80% L.C.L.	[1](One-tailed) p Value
Radium-226	3011	0.034	0.082	0.000	0.074	0.020	0.070	0.023	0.002
Radium-226	3024	0.031	0.086	0.000	0.050	0.000	0.043	0.025	0.003

[1] The increase is considered to be statistically significant if the one-tailed p value is ≤ 0.01.

4727 2

13

Summary

The results of this radiological assessment were consistent with the results of the chemical assessment completed in the 1992 RCRA Annual Report and Annual Report Update. The comparison of radiological results to the action levels identified 17 of 46 monitoring wells that contained confirmed concentrations above the action levels (see Appendix C). Of the 17 monitoring wells, 15 were identified as having chemical parameters with confirmed concentrations above the action levels in the 1992 RCRA Annual Report. Monitoring Wells 2055 and 3008 were the two monitoring wells that contained radium concentrations above the action levels, but did not contain any chemical parameters above the action levels.

The trend analysis indicates that the radium concentrations in Monitoring Wells 2055 and 3008 are not increasing. Also, the trend analysis determined that radionuclide concentrations are increasing in three monitoring wells (3037, 3066 and 3043) that already have concentrations above action levels , and two monitoring wells (3011 and 3024) with concentrations increasing toward the action levels.

Appendix A
Sampling Results

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 01/02/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	2302	pCi/L	1.0000
#2024 DN	#3024 DN			
4.4500	0.9940			
GROSS BETA	(Beta)	2302	PCI/L	4.0000
#2024 DN	#3024 DN			
6.3400	2.0900			
RA-226	(Ra-226)	2313	PCI/L	1.0000
#2024 DN	#3024 DN			
ND<0.5900 J	0.6200			
RA-228	(Ra-228)	2313	PCI/L	3.0000
#2024 DN	#3024 DN			
ND<3.7200 J	ND<4.2200 J			
U-TOTAL	(U-Tl)	2323	UG/L	1.0000
#2024 DN	#3024 DN			
4.9100	0.0163			

4272

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 01/06/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	2302	pCi/L	1.0000
#2043 UP	#3043 UP	#1079 DN	#2052 DN	#4011 DN Dup.
1.0200	1.2500	1.2200	2.5400	ND<0.8920 J
GROSS BETA	(Beta)	2302	PCI/L	4.0000
#2043 UP	#3043 UP	#1079 DN	#2052 DN	#4011 DN Dup.
1.9700	ND<1.3900 J	1.5900	4.7300	ND<1.3200 J
RA-226	(Ra-226)	2313	PCI/L	1.0000
#2043 UP	#3043 UP	#1079 DN	#2052 DN	#4011 DN Dup.
2.0600	1.2300	0.9350	0.5670	0.8460
RA-228	(Ra-228)	2313	PCI/L	3.0000
#2043 UP	#3043 UP	#1079 DN	#2052 DN	#4011 DN Dup.
ND<3.7600 J	ND<3.6900 J	ND<3.2100 J	ND<3.3900 J	ND<5.0600 J
U-TOTAL	(U-Tl)	2323	UG/L	1.0000
#2043 UP	#1079 DN	#2052 DN	#4011 DN	#4011 DN Dup.
0.1840	1.2300	8.2300	1.47000	1.33000

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 01/07/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	2302	pCi/L	1.0000
#1052 UP	#2051 DN	#4013 DN		
2.0300	1.6900	6.1000		
GROSS BETA	(Beta)	2302	PCI/L	4.0000
#1052 UP	#2051 DN	#4013 DN		
ND<1.9600 J	ND<1.0900 J	4.0800		
RA-226	(Ra-226)	2313	PCI/L	1.0000
#1052 UP	#2051 DN	#4013 DN		
1.0100	0.9690	0.8760		
RA-228	(Ra-228)	2313	PCI/L	3.0000
#1052 UP	#2051 DN	#4013 DN		
ND<3.8400 J	ND<0.5680 J	ND<3.4300 J		
U-TOTAL	(U-Tl)	2323	UG/L	1.0000
#1052 UP	#2051 DN	#4013 DN		
2.2500	0.7200	0.6290		

18

4272

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 01/08/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	2302	pCi/L	1.0000
#1074 DN	#2010 DN	#3010 DN		
18.0000	10.7000	9.3000		
GROSS BETA	(Beta)	2302	PCI/L	4.0000
#1074 DN	#2010 DN	#3010 DN		
24.7000	10.4000	24.1000		
RA-226	(Ra-226)	2313	PCI/L	1.0000
#1074 DN	#2010 DN	#3010 DN		
0.5780	0.9150	0.6350		
RA-228	(Ra-228)	2313	PCI/L	3.0000
#1074 DN	#2010 DN	#3010 DN		
3.8300	ND<2.9900 J	4.9800		
U-TOTAL	(U-Tl)	2323	UG/L	1.0000
#1074 DN	#2010 DN	#3010 DN		
0.7200	11.1000	6.5900		

4272

19

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 01/09/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	2302	pCi/L	1.0000
#3055 DN 8.8500 J				
GROSS BETA	(Beta)	2302	PCI/L	4.0000
#3055 DN 41.1000				
RA-226	(Ra-226)	2313	PCI/L	1.0000
#3055 DN 1.3000				
RA-228	(Ra-228)	2313	PCI/L	3.0000
#3055 DN ND<2.5800 J				
U-TOTAL	(U-Tl)	2323	UG/L	1.0000
#3055 DN 0.1370 J				

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 01/13/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	2302	pCi/L	1.0000
#2037 DN	#3037 DN	#4008 DN		
3.6500	4.8500 J	3.0300		
GROSS BETA	(Beta)	2302	PCI/L	4.0000
#2037 DN	#3037 DN	#4008 DN		
12.2000	17.4000	2.7800		
RA-226	(Ra-226)	2313	PCI/L	1.0000
#2037 DN	#3037 DN	#4008 DN		
1.0500	0.9850	ND<0.6000 J		
RA-228	(Ra-228)	2313	PCI/L	3.0000
#2037 DN	#3037 DN	#4008 DN		
ND<3.3800 J	4.3300	12.2000		
U-TOTAL	(U-Tl)	2323	UG/L	1.0000
#2037 DN	#3037 DN	#4008 DN		
3.7500	0.0807 J	0.1730		

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 01/14/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	2302	pCi/L	1.0000
#3008 DN 2.9900				
GROSS BETA	(Beta)	2302	PCI/L	4.0000
#3008 DN 10.9000				
RA-226	(Ra-226)	2313	PCI/L	1.0000
#3008 DN ND<0.7330 J				
RA-228	(Ra-228)	2313	PCI/L	3.0000
#3008 DN ND<3.1900 J				
U-TOTAL	(U-Tl)	2323	UG/L	1.0000
#3008 DN 1.5200				

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 01/15/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	2302	pCi/L	1.0000
#1038 DN	#3001 DN	#4001 DN		
4.4700	27.9000	ND<1.7000 J		
GROSS BETA	(Beta)	2302	PCI/L	4.0000
#1038 DN	#3001 DN	#4001 DN		
21.9000	21.2000	5.4400		
RA-226	(Ra-226)	2313	PCI/L	1.0000
#1038 DN	#3001 DN	#4001 DN		
1.1200	1.0000	ND<0.5060 J		
RA-228	(Ra-228)	2313	PCI/L	3.0000
#1038 DN	#3001 DN	#4001 DN		
ND<2.9300 J	ND<2.4600 J	ND<2.8800 J		
U-TOTAL	(U-Tl)	2323	UG/L	1.0000
#1038 DN	#3001 DN	#4001 DN		
4.1900	14.5000	ND<0.0131 J		

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 01/21/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	2302	pCi/L	1.0000
#1027 DN	#2027 DN			
223.0000	13.0000			
GROSS BETA	(Beta)	2302	PCI/L	4.0000
#1027 DN	#2027 DN			
345.0000	13.5000			
RA-226	(Ra-226)	2313	PCI/L	1.0000
#1027 DN	#2027 DN			
0.5170	ND<0.8290 J			
RA-228	(Ra-228)	2313	PCI/L	3.0000
#1027 DN	#2027 DN			
ND<2.1000 J	ND<2.2800 J			
U-TOTAL	(U-Tl)	2323	UG/L	1.0000
#1027 DN	#2027 DN			
727.0000	330.0000			

24

4272

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 01/22/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	2302	pCi/L	1.0000
#1081 DN	#1082 DN	#4010 DN	#4010 DN Dup.	
56.1000	244.0000	1.2000	1.4500	
GROSS BETA	(Beta)	2302	PCI/L	4.0000
#1081 DN	#1082 DN	#4010 DN	#4010 DN Dup.	
57.3000	403.0000	3.8700	4.9800	
RA-226	(Ra-226)	2313	PCI/L	1.0000
#1081 DN	#1082 DN	#4010 DN	#4010 DN Dup.	
0.8710	0.6710	0.5300	0.6750	
RA-228	(Ra-228)	2313	PCI/L	3.0000
#1081 DN	#1082 DN	#4010 DN	#4010 DN Dup.	
ND<2.9600 J	ND<3.7600 J	4.1000	ND<2.8200 J	
U-TOTAL	(U-TI)	2323	UG/L	1.0000
#1081 DN	#1082 DN	#4010 DN	#4010 DN Dup.	
20.6000	577.0000	ND<0.4460	0.0518	

25

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 01/23/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	2302	pCi/L	1.0000

#1025 DN	#1083 DN	#2084 DN	#3084 DN	#3084 DN Dup.
16.2000	67.2000	14.2000	393.0000	66.6000

GROSS BETA	(Beta)	2302	PCI/L	4.0000

#1025 DN	#1083 DN	#2084 DN	#3084 DN	#3084 DN Dup.
63.9000	100.0000	21.3000	351.0000	69.8000

RA-226	(Ra-226)	2313	PCI/L	1.0000

#1025 DN	#1083 DN	#2084 DN	#3084 DN	#3084 DN Dup.
0.3710	0.5770	1.0800	0.5010	0.7580

RA-228	(Ra-228)	2313	PCI/L	3.0000

#1025 DN	#1083 DN	#2084 DN	#3084 DN	#3084 DN Dup.
ND<2.3400 J	ND<3.0400 J	ND<2.9400 J	2.5600	ND<2.5000 J

U-TOTAL	(U-Tl)	2323	UG/L	1.0000

#1025 DN	#1083 DN	#2084 DN	#3084 DN
3.0000	48.0000	13.0000	450.0000

22

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 01/27/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	2302	pCi/L	1.0000
#1031 DN	#2649 DN			
19.3000	60.3000			
GROSS BETA	(Beta)	2302	PCI/L	4.0000
#1031 DN	#2649 DN			
74.6000	66.4000			
RA-226	(Ra-226)	2313	PCI/L	1.0000
#1031 DN	#2649 DN			
2.1400	0.6550			
RA-228	(Ra-228)	2313	PCI/L	3.0000
#1031 DN	#2649 DN			
ND<3.4200 J	ND<3.8000 J			
U-TOTAL	(U-Tl)	2323	UG/L	1.0000
#1031 DN	#2649 DN			
5.1000	6.6000			

27

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 01/28/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	2302	pCi/L	1.0000
#1643 DN	#1644 DN	#1645 DN	#1646 DN	
52.6000	82.0000	16.8000	300.0000	
GROSS BETA	(Beta)	2302	PCI/L	4.0000
#1643 DN	#1644 DN	#1645 DN	#1646 DN	
59.0000	74.4000	19.3000	301.0000	
RA-226	(Ra-226)	2313	PCI/L	1.0000
#1643 DN	#1644 DN	#1645 DN	#1646 DN	
1.1600	8.8300	0.5560	0.6130	
RA-228	(Ra-228)	2313	PCI/L	3.0000
#1643 DN	#1644 DN	#1645 DN	#1646 DN	
ND<3.3800 J	ND<3.1900 J	ND<3.4300 J	ND<3.3700 J	
U-TOTAL	(U-Tl)	2323	UG/L	1.0000
#1643 DN	#1644 DN	#1645 DN	#1646 DN	
44.0000	69.0000	22.0000	590.0000	

28

427282

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 01/29/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	2302	pCi/L	1.0000

#2055 DN	#2055 DN Dup.	#2643 DN	#2648 DN	#3011 DN
4.7800	14.6000	10.4000	99.4000 J	2.1400

GROSS BETA	(Beta)	2302	PCI/L	4.0000

#2055 DN	#2055 DN Dup.	#2643 DN	#2648 DN	#3011 DN
6.9500	ND<3.8500 J	64.2000	684.0000	6.3400

RA-226	(Ra-226)	2313	PCI/L	1.0000

#2055 DN	#2055 DN Dup.	#2643 DN	#2648 DN	#3011 DN
0.7890	ND<0.7770 J	0.7720	0.9170	1.2200

RA-228	(Ra-228)	2313	PCI/L	3.0000

#2055 DN	#2055 DN Dup.	#2643 DN	#2648 DN	#3011 DN
ND<4.2200 J	ND<2.4600 J	ND<4.5600 J	3.9900	ND<2.5400 J

U-TOTAL	(U-Tl)	2323	UG/L	1.0000

#2055 DN	#2055 DN Dup.	#2643 DN	#2648 DN	#3011 DN
3.2900	2.6900	7.3700	9.8300 J	0.0467

4272

29

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 01/30/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	2302	pCi/L	1.0000
#1080 DN 7.2300				
GROSS BETA	(Beta)	2302	PCI/L	4.0000
#1080 DN 11.7000				
RA-226	(Ra-226)	2313	PCI/L	3.0000
#1080 DN ND<2.9600				
RA-228	(Ra-228)	2313	PCI/L	3.0000
#1080 DN ND<2.9600 J				
U-TOTAL	(U-Tl)	2323	UG/L	1.0000
#1080 DN 4.9600				

30

4272

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 02/03/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	2302	pCi/L	1.0000
#1008 DN 41.9000 J	#1039 DN ND<0.5890 J	#1042 DN 7.0600	#2008 DN 8.0900	
GROSS BETA	(Beta)	2302	pCi/L	4.0000
#1008 DN 23.3000	#1039 DN ND<1.2800 J	#1042 DN 10.5000	#2008 DN 12.8000	
RA-226	(Ra-226)	2313	pCi/L	1.0000
#1008 DN 2.9600	#1039 DN ND<0.7090 J	#1042 DN 1.0100	#2008 DN ND<0.6910 J	
RA-228	(Ra-228)	2313	pCi/L	3.0000
#1008 DN ND<2.3100 J	#1039 DN 8.8800	#1042 DN ND<2.9100 J	#2008 DN ND<2.2700 J	
U-TOTAL	(U-TI)	2323	uG/L	1.0000
#1008 DN 0.7220 J	#1039 DN 0.5620	#1042 DN 13.6000	#2008 DN 13.6000	

4272

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 02/04/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	2302	pCi/L	1.0000
#3064 DN	#4064 DN			
ND<5.2700 J	ND<3.2500 J			
GROSS BETA	(Beta)	2302	pCi/L	4.0000
#3064 DN	#4064 DN			
ND<2.0000 J	ND<1.9700 J			
RA-226	(Ra-226)	2313	pCi/L	1.0000
#3064 DN	#4064 DN			
ND<0.5900 J	ND<1.0400 J			
RA-228	(Ra-228)	2313	pCi/L	3.0000
#3064 DN	#4064 DN			
ND<2.8900 J	ND<2.3100 J			
U-TOTAL	(U-Tl)	2323	uG/L	1.0000
#3064 DN	#4064 DN			
0.1230	0.0686			

32

4728

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 02/05/92

Parameter	Code	Method	Units	Det. Limit			
GROSS ALPHA	(Alpha)	2302	pCi/L	1.0000			
#1064 DN	#1229 DN	#1276 DN	#1332 DN	#2064 DN	#2064 DN Dup.	#2120 DN	#3120 DN
3.8900	40.8000	22.0000	25.9000 J	ND<2.3100 J	1.6600	ND<8.2600 J	ND<2.6600 J
GROSS BETA	(Beta)	2302	pCi/L	4.0000			
#1064 DN	#1229 DN	#1276 DN	#1332 DN	#2064 DN	#2064 DN Dup.	#2120 DN	#3120 DN
ND<1.7800 J	43.8000	25.1000	50.6000	4.2200	ND<2.2300 J	ND<2.0900 J	ND<1.4100 J
RA-226	(Ra-226)	2313	pCi/L	1.0000			
#1064 DN	#1229 DN	#1276 DN	#1332 DN	#2064 DN	#2064 DN Dup.	#2120 DN	#3120 DN
0.9220	0.8110	0.7490	3.2400	0.8690	ND<0.7090 J	1.5900	ND<0.6450 J
RA-228	(Ra-228)	2313	pCi/L	3.0000			
#1064 DN	#1229 DN	#1276 DN	#1332 DN	#2064 DN	#2064 DN Dup.	#2120 DN	#3120 DN
16.1000	ND<4.4200 J	ND<4.3200 J	ND<3.5100 J	ND<4.1200 J	ND<4.5100 J	ND<2.6700 J	ND<3.2400 J
U-TOTAL	(U-Tl)	2323	uG/L	1.0000			
#1064 DN	#1229 DN	#1276 DN	#1332 DN	#2064 DN	#2064 DN Dup.	#2120 DN	#3120 DN
6.1500	1.1600	14.1000	0.5150 J	0.5530	0.7630	8.5700	8.6900

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 02/06/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	2302	pCi/L	1.0000
#2106 DN	#3069 DN	#3106 DN		
25.0000	23.3000	ND<5.4200 J		
GROSS BETA	(Beta)	2302	pCi/L	4.0000
#2106 DN	#3069 DN	#3106 DN		
41.6000	20.9000	2.0700		
RA-226	(Ra-226)	2313	pCi/L	1.0000
#2106 DN	#3069 DN	#3106 DN		
0.8110	ND<0.7910 J	0.7420		
RA-228	(Ra-228)	2313	pCi/L	3.0000
#2106 DN	#3069 DN	#3106 DN		
ND<4.5600 J	ND<2.9900 J	9.9100		
U-TOTAL	(U-Tl)	2323	uG/L	1.0000
#2106 DN	#3069 DN	#3106 DN		
53.0000	36.9000	1.0300		

34

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 02/10/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	2302	pCi/L	1.0000
#1523 DN 22.3000	#3067 DN 1.4700	#4067 DN ND<0.8700 J		
GROSS BETA	(Beta)	2302	pCi/L	4.0000
#1523 DN 16.0000	#3067 DN 2.9200	#4067 DN ND<1.1000 J		
RA-226	(Ra-226)	2313	pCi/L	1.0000
#1523 DN 2.9700	#3067 DN 0.8750	#4067 DN ND<0.6300 J		
RA-228	(Ra-228)	2313	pCi/L	3.0000
#1523 DN ND<2.7400 J	#3067 DN ND<2.7700 J	#4067 DN ND<2.3700 J		
U-TOTAL	(U-TI)	2323	uG/L	1.0000
#1523 DN 12.6000	#3067 DN 0.1970	#4067 DN 0.0592		

4272

35

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 02/11/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	2302	pCi/L	1.0000
#2070 DN 1.2900	#3070 DN 2.2400			
GROSS BETA	(Beta)	2302	pCi/L	4.0000
#2070 DN 6.2300	#3070 DN 5.2900			
RA-226	(Ra-226)	2313	pCi/L	1.0000
#2070 DN ND<0.7910 J	#3070 DN ND<0.7370 J			
RA-228	(Ra-228)	2313	pCi/L	3.0000
#2070 DN ND<2.8900 J	#3070 DN ND<4.9900 J			
U-TOTAL	(U-Tl)	2323	uG/L	1.0000
#2070 DN 0.8060	#3070 DN 0.2480			

4272

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 03/16/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#2070 DN 2.5000	#3070 DN 4.6000			
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#2070 DN 21.6000	#3070 DN 3.0000			
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#2070 DN 0.7000	#3070 DN 0.5000			
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#2070 DN ND<0.2000	#3070 DN ND<0.2000			
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#2070 DN ND<4.2000	#3070 DN ND<4.2000			

37

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 04/01/92

Parameter	Code	Method	Units	Det. Limit		
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000		
#1024 UP	#1079 DN	#2024 DN	#3011 DN	#3024 DN	#4011 DN	
ND<0.5000	2.5000	1.7000	ND<0.3000	ND<0.5000	ND<0.4000	
GROSS BETA	(Beta)	900.0	PCI/L	4.0000		
#1024 UP	#1079 DN	#2024 DN	#3011 DN	#3024 DN	#4011 DN	
ND<0.4000	16.8000	14.3000	6.1000	9.1000	1.1000	
RA-226	(Ra-226)	903.1	PCI/L	0.6000		
#1024 UP	#1079 DN	#2024 DN	#3011 DN	#3024 DN	#4011 DN	
0.2000	2.0000	0.3000	1.1000	0.7000	1.2000	
RA-228	(Ra-228)	904.0	PCI/L	1.0000		
#1024 UP	#1079 DN	#2024 DN	#3011 DN	#3024 DN	#4011 DN	
1.1000	2.7000	2.9000	1.2000	1.8000	1.3000	
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000		
#1024 UP	#1079 DN	#2024 DN	#3011 DN	#3024 DN	#4011 DN	
ND<4.2000	ND<4.2000	7.8000	ND<4.2000	ND<4.2000	ND<4.2000	

38

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 04/06/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000

#1052 UP	#3066 UP	#3066 UP Dup.	#2052 DN	#2070 DN	#3070 DN
5.9000	9.9000	4.9000	3.6000	1.2000	3.0000

Parameter	Code	Method	Units	Det. Limit
GROSS BETA	(Beta)	900.0	PCI/L	4.0000

#1052 UP	#3066 UP	#3066 UP Dup.	#2052 DN	#2070 DN	#3070 DN
ND<0.4000	9.2000	16.3000	ND<0.4000	27.8000	12.0000

Parameter	Code	Method	Units	Det. Limit
RA-226	(Ra-226)	903.1	PCI/L	0.6000

#1052 UP	#3066 UP	#3066 UP Dup.	#2052 DN	#2070 DN	#3070 DN
0.5000	1.4000	1.3000	0.7000	ND<0.3000	ND<0.3000

Parameter	Code	Method	Units	Det. Limit
RA-228	(Ra-228)	904.0	PCI/L	1.0000

#1052 UP	#3066 UP	#3066 UP Dup.	#2052 DN	#2070 DN	#3070 DN
1.2000	3.0000	1.9000	1.5000	6.2000	12.3000

Parameter	Code	Method	Units	Det. Limit
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000

#1052 UP	#3066 UP	#3066 UP Dup.	#2052 DN	#2070 DN	#3070 DN
6.1000	ND<4.2000	ND<4.2000	6.8000	ND<4.2000	ND<4.2000

A272

39

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 04/07/92

Parameter	Code	Method	Units	Det. Limit		
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000		
#2043 UP	#2066 UP	#3043 UP	#2055 DN	#3055 DN	#4013 DN	
ND<0.6000	1.5000	ND<0.4000	1.4000	ND<0.6000	ND<1.2000	
GROSS BETA	(Beta)	900.0	PCI/L	4.0000		
#2043 UP	#2066 UP	#3043 UP	#2055 DN	#3055 DN	#4013 DN	
7.9000	1.7000	7.3000	ND<0.3000	26.2000	10.8000	
RA-226	(Ra-226)	903.1	PCI/L	0.6000		
#2043 UP	#2066 UP	#3043 UP	#2055 DN	#3055 DN	#4013 DN	
0.8000	0.8000	0.5000	0.8000	1.6000	0.3000	
RA-228	(Ra-228)	904.0	PCI/L	1.0000		
#2043 UP	#2066 UP	#3043 UP	#2055 DN	#3055 DN	#4013 DN	
0.8000	1.4000	0.6000	1.0000	1.9000	2.1000	
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000		
#2043 UP	#2066 UP	#3043 UP	#2055 DN	#3055 DN	#4013 DN	
ND<4.2000	ND<4.2000	ND<4.2000	ND<4.2000	ND<4.2000	ND<4.2000	

42722

46

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 04/08/92

Parameter	Code	Method	Units	Det. Limit	#1027 DN	#1080 DN	#2027 DN	#2027 DN Dup.	#2051 DN
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000	163.0000	1.3000	5.6000	8.6000	1.6000
GROSS BETA	(Beta)	900.0	PCI/L	4.0000	195.0000	48.4000	5.1000	10.0000	1.0000
RA-226	(Ra-226)	903.1	PCI/L	0.6000	0.6000	0.4000	1.2000	0.7000	0.5000
RA-228	(Ra-228)	904.0	PCI/L	1.0000	ND<0.3000	2.1000	0.4000	1.1000	2.6000
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000	498.0000	5.5000	17.2000	16.3000	ND<4.2000

427 22

14

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 04/09/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000

#1038 DN	#1085 DN	#2010 DN	#4001 DN	#4010 DN
4.4000	1900.0000	5.9000	0.7000	0.6000

Parameter	Code	Method	Units	Det. Limit
GROSS BETA	(Beta)	900.0	PCI/L	4.0000

#1038 DN	#1085 DN	#2010 DN	#4001 DN	#4010 DN
22.6000	2750.0000	13.6000	11.8000	5.0000

Parameter	Code	Method	Units	Det. Limit
RA-226	(Ra-226)	903.1	PCI/L	0.6000

#1038 DN	#1085 DN	#2010 DN	#4001 DN	#4010 DN
0.6000	0.7000	0.8000	ND<0.1000	0.5000

Parameter	Code	Method	Units	Det. Limit
RA-228	(Ra-228)	904.0	PCI/L	1.0000

#1038 DN	#1085 DN	#2010 DN	#4001 DN	#4010 DN
1.4000	1.8000	2.2000	1.4000	1.0000

Parameter	Code	Method	Units	Det. Limit
U-TOTAL	(U-TI)	908.1	UG/L	1.0000

#1038 DN	#1085 DN	#2010 DN	#4001 DN	#4010 DN
10.9000	5420.0000	15.9000	ND<4.2000	ND<4.2000

42722

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 04/13/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000

#1074 DN	#2037 DN	#3001 DN	#3001 DN Dup.	#3037 DN
4.4000	0.5000	6.8000	6.7000	ND<0.7000

GROSS BETA	(Beta)	900.0	PCI/L	4.0000

#1074 DN	#2037 DN	#3001 DN	#3001 DN Dup.	#3037 DN
18.8000	14.6000	16.0000	23.6000	13.6000

RA-226	(Ra-226)	903.1	PCI/L	0.6000

#1074 DN	#2037 DN	#3001 DN	#3001 DN Dup.	#3037 DN
0.6000	1.0000	ND<0.1000	0.3000	1.0000

RA-228	(Ra-228)	904.0	PCI/L	1.0000

#1074 DN	#2037 DN	#3001 DN	#3001 DN Dup.	#3037 DN
1.9000	1.2000	ND<0.2000	1.0000	2.2000

U-TOTAL	(U-Tl)	908.1	UG/L	1.0000

#1074 DN	#2037 DN	#3001 DN	#3001 DN Dup.	#3037 DN
ND<4.2000	4.4000	20.5000	24.5000	ND<4.2000

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 04/14/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#2019 DN	#3008 DN	#3019 DN		
3.2000	ND<0.2000	29.8000		
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#2019 DN	#3008 DN	#3019 DN		
1190.0000	4.4000	64.1000		
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#2019 DN	#3008 DN	#3019 DN		
0.2000	0.3000	ND<0.1000		
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#2019 DN	#3008 DN	#3019 DN		
0.5000	2.1000	ND<0.2000		
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#2019 DN	#3008 DN	#3019 DN		
ND<4.2000	ND<4.2000	91.0000		

44

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 04/15/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#2021 DN	#2084 DN	#2648 DN		
10.8000	9.5000	11.8000		
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#2021 DN	#2084 DN	#2648 DN		
1400.0000	27.2000	687.0000		
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#2021 DN	#2084 DN	#2648 DN		
0.3000	0.8000	0.4000		
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#2021 DN	#2084 DN	#2648 DN		
1.5000	1.6000	0.3000		
U-TOTAL	(U-TI)	908.1	UG/L	1.0000
#2021 DN	#2084 DN	#2648 DN		
ND<4.2000	18.6000	9.1000		

42722

45

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 04/21/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#2649 DN 5.4000				
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#2649 DN 337.0000				
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#2649 DN ND<0.1000				
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#2649 DN 1.0000				
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#2649 DN 5.9000				

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 04/22/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#1031 DN	#3010 DN	#3010 DN Dup.		
35.5000	16.3000	14.8000		
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#1031 DN	#3010 DN	#3010 DN Dup.		
128.0000	23.4000	28.1000		
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#1031 DN	#3010 DN	#3010 DN Dup.		
2.2000	0.2000	ND<0.1000		
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#1031 DN	#3010 DN	#3010 DN Dup.		
3.1000	1.1000	1.4000		
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#1031 DN	#3010 DN	#3010 DN Dup.		
63.1000	12.4000	12.5000		

4722

47

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 04/23/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#1081 DN	#1082 DN	#2643 DN		
25.1000	181.0000	2.8000		
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#1081 DN	#1082 DN	#2643 DN		
ND<1.0000	329.0000	93.1000		
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#1081 DN	#1082 DN	#2643 DN		
ND<0.1000	ND<0.1000	0.3000		
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#1081 DN	#1082 DN	#2643 DN		
1.9000	0.6000	2.2000		
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#1081 DN	#1082 DN	#2643 DN		
25.0000	633.0000	ND<4.2000		

48

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 04/27/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#3084 DN 148.0000	#3084 DN Dup. 200.0000			
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#3084 DN 267.0000	#3084 DN Dup. 227.0000			
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#3084 DN ND<0.1000	#3084 DN Dup. ND<0.1000			
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#3084 DN 0.9000	#3084 DN Dup. 0.8000			
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#3084 DN 511.0000	#3084 DN Dup. 497.0000			

49

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 04/28/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000

#1643 DN	#1644 DN	#1645 DN	#1646 DN
65.8000	76.1000	8.6000	166.0000

GROSS BETA	(Beta)	900.0	PCI/L	4.0000

#1643 DN	#1644 DN	#1645 DN	#1646 DN
112.0000	124.0000	36.3000	277.0000

RA-226	(Ra-226)	903.1	PCI/L	0.6000

#1643 DN	#1644 DN	#1645 DN	#1646 DN
0.7000	16.5000	ND<0.1000	ND<0.1000

RA-228	(Ra-228)	904.0	PCI/L	1.0000

#1643 DN	#1644 DN	#1645 DN	#1646 DN
1.4000	2.1000	1.8000	0.8000

U-TOTAL	(U-Tl)	908.1	UG/L	1.0000

#1643 DN	#1644 DN	#1645 DN	#1646 DN
145.0000	94.2000	24.5000	556.0000

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 04/29/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#1025 DN 8.4000				
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#1025 DN ND<1.4000				
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#1025 DN 0.8000				
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#1025 DN 1.7000				
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#1025 DN 7.0000				

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 05/04/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000

#1008 DN	#1039 DN	#1042 DN	#2008 DN
10.1000	ND<0.8000	13.9000	10.0000

Parameter	Code	Method	Units	Det. Limit
GROSS BETA	(Beta)	900.0	PCI/L	4.0000

#1008 DN	#1039 DN	#1042 DN	#2008 DN
15.1000	ND<0.6000	20.3000	12.9000

Parameter	Code	Method	Units	Det. Limit
RA-226	(Ra-226)	903.1	PCI/L	0.6000

#1008 DN	#1039 DN	#1042 DN	#2008 DN
1.2000	0.3000	0.2000	0.3000

Parameter	Code	Method	Units	Det. Limit
RA-228	(Ra-228)	904.0	PCI/L	1.0000

#1008 DN	#1039 DN	#1042 DN	#2008 DN
2.0000	3.1000	0.3000	1.9000

Parameter	Code	Method	Units	Det. Limit
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000

#1008 DN	#1039 DN	#1042 DN	#2008 DN
6.9000	ND<4.2000	27.2000	20.0000

52

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 05/05/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#2064 DN ND<0.4000	#3064 DN ND<0.3000			
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#2064 DN ND<0.3000	#3064 DN 6.1000			
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#2064 DN 0.3000	#3064 DN 0.3000			
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#2064 DN 3.0000	#3064 DN 3.2000			
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#2064 DN ND<4.2000	#3064 DN ND<4.2000			

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 05/06/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#1229 DN 10.6000	#3067 DN ND<0.3000			
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#1229 DN 6.3000	#3067 DN 9.0000			
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#1229 DN 1.3000	#3067 DN 0.4000			
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#1229 DN 2.8000	#3067 DN 1.7000			
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#1229 DN 12.5000	#3067 DN ND<4.2000			

54

42728

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 05/07/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#1276 DN 8.3000	#1332 DN ND<2.0000			
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#1276 DN 14.7000	#1332 DN 85.2000			
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#1276 DN 0.3000	#1332 DN 1.3000			
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#1276 DN 1.7000	#1332 DN 3.0000			
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#1276 DN 14.1000	#1332 DN ND<4.2000			

55

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 05/11/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000

#2070 DN	#3069 DN	#3070 DN	#4067 DN
1.4000	11.2000	ND<0.3000	2.3000

Parameter	Code	Method	Units	Det. Limit
GROSS BETA	(Beta)	900.0	PCI/L	4.0000

#2070 DN	#3069 DN	#3070 DN	#4067 DN
ND<0.2000	8.6000	ND<0.2000	ND<0.2000

Parameter	Code	Method	Units	Det. Limit
RA-226	(Ra-226)	903.1	PCI/L	0.6000

#2070 DN	#3069 DN	#3070 DN	#4067 DN
0.6000	ND<0.1000	0.3000	0.4000

Parameter	Code	Method	Units	Det. Limit
RA-228	(Ra-228)	904.0	PCI/L	1.0000

#2070 DN	#3069 DN	#3070 DN	#4067 DN
2.8000	1.9000	3.4000	0.5000

Parameter	Code	Method	Units	Det. Limit
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000

#2070 DN	#3069 DN	#3070 DN	#4067 DN
ND<4.2000	20.8000	ND<4.2000	ND<4.2000

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 05/12/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#1523 DN ND<2.0000				
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#1523 DN ND<1.5000				
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#1523 DN 1.3000				
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#1523 DN 3.3000				
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#1523 DN 14.2000				

57

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 05/13/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#1064 DN	#2120 DN	#3120 DN	#4064 DN	
6.8000	2.3000	0.9000	3.2000	
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#1064 DN	#2120 DN	#3120 DN	#4064 DN	
11.3000	10.6000	0.8000	13.4000	
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#1064 DN	#2120 DN	#3120 DN	#4064 DN	
0.5000	0.5000	0.5000	0.3000	
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#1064 DN	#2120 DN	#3120 DN	#4064 DN	
1.7000	2.3000	3.1000	3.0000	
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#1064 DN	#2120 DN	#3120 DN	#4064 DN	
5.2000	7.5000	ND<4.2000	ND<4.2000	

57

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 05/20/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#2106 DN	#3106 DN	#3106 DN Dup.		
38.3000	1.7000	1.7000		
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#2106 DN	#3106 DN	#3106 DN Dup.		
7.2000	4.8000	1.5000		
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#2106 DN	#3106 DN	#3106 DN Dup.		
0.5000	0.4000	0.3000		
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#2106 DN	#3106 DN	#3106 DN Dup.		
0.9000	3.0000	3.4000		
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#2106 DN	#3106 DN	#3106 DN Dup.		
77.3000	ND<4.2000	ND<4.2000		

4272

57

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 06/03/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#2070 DN	#3070 DN			
ND<0.9000	1.8000			
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#2070 DN	#3070 DN			
9.3000	ND<0.9000			
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#2070 DN	#3070 DN			
0.3000	0.4000			
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#2070 DN	#3070 DN			
0.3000	0.3000			
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#2070 DN	#3070 DN			
ND<4.2000	ND<4.2000			

58

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 07/01/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#1024 UP	#2024 DN	#3024 DN		
2.8000	3.8000	ND<0.9000		
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#1024 UP	#2024 DN	#3024 DN		
1.4000	ND<0.7000	ND<0.6000		
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#1024 UP	#2024 DN	#3024 DN		
0.5000	0.7000	1.0000		
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#1024 UP	#2024 DN	#3024 DN		
ND<0.4000	ND<0.3000	0.4000		
U-TOTAL	(U-TI)	908.1	UG/L	1.0000
#1024 UP	#2024 DN	#3024 DN		
ND<0.5000	6.3000	ND<0.4000		

59

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 07/02/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#2066 UP	#3066 UP	#2070 DN	#3070 DN	
3.9000	4.7000	11.7000	ND<0.5000	
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#2066 UP	#3066 UP	#2070 DN	#3070 DN	
ND<0.4000	ND<1.2000	22.1000	34.7000	
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#2066 UP	#3066 UP	#2070 DN	#3070 DN	
1.0000	1.1000	ND<0.2000	ND<0.2000	
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#2066 UP	#3066 UP	#2070 DN	#3070 DN	
ND<0.4000	0.6000	ND<0.4000	ND<0.4000	
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#2066 UP	#3066 UP	#2070 DN	#3070 DN	
ND<0.5000	ND<0.5000	ND<0.5000	ND<0.5000	

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 07/06/92

Parameter	Code	Method	Units	Det. Limit		
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000		
#2043 UP	#3043 UP	#2051 DN	#2051 DN Dup.	#2421 DN	#3421 DN	
20.3000	ND<0.5000	13.2000	17.6000	ND<0.7000	3.2000	
GROSS BETA	(Beta)	900.0	PCI/L	4.0000		
#2043 UP	#3043 UP	#2051 DN	#2051 DN Dup.	#2421 DN	#3421 DN	
20.1000	ND<0.3000	16.2000	43.7000	ND<0.6000	ND<0.4000	
RA-226	(Ra-226)	903.1	PCI/L	0.6000		
#2043 UP	#3043 UP	#2051 DN	#2051 DN Dup.	#2421 DN	#3421 DN	
1.1000	1.0000	0.3000	ND<0.2000	1.3000	0.4000	
RA-228	(Ra-228)	904.0	PCI/L	1.0000		
#2043 UP	#3043 UP	#2051 DN	#2051 DN Dup.	#2421 DN	#3421 DN	
0.7000	2.0000	0.9000	1.4000	1.3000	1.2000	
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000		
#2043 UP	#3043 UP	#2051 DN	#2051 DN Dup.	#2421 DN	#3421 DN	
ND<0.5000	ND<0.5000	ND<0.5000	1.2000	ND<0.4000	ND<0.5000	

4272

19

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 07/07/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#1052 UP	#2052 DN			
ND<0.6000	3.0000			
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#1052 UP	#2052 DN			
1.9000	ND<0.7000			
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#1052 UP	#2052 DN			
ND<0.2000	0.7000			
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#1052 UP	#2052 DN			
ND<0.3000	1.5000			
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#1052 UP	#2052 DN			
5.0000	6.2000			

4772

62

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 07/08/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000

#2037 DN	#2055 DN	#2055 DN Dup.	#3008 DN	#3037 DN	#3055 DN	#4008 DN
2.1000	ND<0.7000	1.4000	ND<0.5000	ND<1.6000	ND<0.9000	ND<0.5000

GROSS BETA	(Beta)	900.0	PCI/L	4.0000

#2037 DN	#2055 DN	#2055 DN Dup.	#3008 DN	#3037 DN	#3055 DN	#4008 DN
ND<0.6000	1.8000	ND<0.5000	ND<0.4000	ND<1.1000	ND<0.6000	ND<0.4000

RA-226	(Ra-226)	903.1	PCI/L	0.6000

#2037 DN	#2055 DN	#2055 DN Dup.	#3008 DN	#3037 DN	#3055 DN	#4008 DN
0.7000	0.7000	0.9000	1.0000	1.0000	1.4000	0.4000

RA-228	(Ra-228)	904.0	PCI/L	1.0000

#2037 DN	#2055 DN	#2055 DN Dup.	#3008 DN	#3037 DN	#3055 DN	#4008 DN
1.7000	3.4000	2.7000	3.6000	0.5000	2.3000	2.5000

U-TOTAL	(U-Tl)	908.1	UG/L	1.0000

#2037 DN	#2055 DN	#2055 DN Dup.	#3008 DN	#3037 DN	#3055 DN	#4008 DN
3.5000	ND<0.4000	0.9000	ND<0.4000	ND<0.4000	ND<0.5000	ND<0.4000

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 07/09/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#1027 DN	#1038 DN	#2027 DN		
93.7000	3.7000	11.0000		
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#1027 DN	#1038 DN	#2027 DN		
161.0000	ND<0.7000	ND<0.8000		
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#1027 DN	#1038 DN	#2027 DN		
ND<0.2000	0.6000	1.0000		
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#1027 DN	#1038 DN	#2027 DN		
0.6000	1.1000	3.0000		
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#1027 DN	#1038 DN	#2027 DN		
361.0000	3.4000	14.5000		

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 07/13/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000

#1085 DN	#2010 DN	#3010 DN	#4010 DN	#4013 DN	#4013 DN Dup.
3160.0000	6.4000	2.7000	3.0000	ND<1.1000	ND<1.2000

Parameter	Code	Method	Units	Det. Limit
GROSS BETA	(Beta)	900.0	PCI/L	4.0000

#1085 DN	#2010 DN	#3010 DN	#4010 DN	#4013 DN	#4013 DN Dup.
2430.0000	ND<0.6000	ND<0.8000	ND<0.4000	15.1000	3.9000

Parameter	Code	Method	Units	Det. Limit
RA-226	(Ra-226)	903.1	PCI/L	0.6000

#1085 DN	#2010 DN	#3010 DN	#4010 DN	#4013 DN	#4013 DN Dup.
1.1000	ND<0.1000	0.6000	0.9000	0.4000	0.7000

Parameter	Code	Method	Units	Det. Limit
RA-228	(Ra-228)	904.0	PCI/L	1.0000

#1085 DN	#2010 DN	#3010 DN	#4010 DN	#4013 DN	#4013 DN Dup.
2.1000	2.4000	3.1000	2.8000	1.4000	1.8000

Parameter	Code	Method	Units	Det. Limit
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000

#1085 DN	#2010 DN	#3010 DN	#4010 DN	#4013 DN	#4013 DN Dup.
4390.0000	8.8000	11.1000	ND<0.5000	1.9000	2.2000

65

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 07/14/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#1025 DN	#2648 DN	#3001 DN	#4001 DN	
ND<5.0000	2.0000	1.3000	ND<0.7000	
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#1025 DN	#2648 DN	#3001 DN	#4001 DN	
ND<2.6000	443.0000	4.8000	ND<0.4000	
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#1025 DN	#2648 DN	#3001 DN	#4001 DN	
1.1000	ND<0.2000	0.7000	ND<0.2000	
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#1025 DN	#2648 DN	#3001 DN	#4001 DN	
1.0000	1.0000	0.5000	ND<0.3000	
U-TOTAL	(U-TI)	908.1	UG/L	1.0000
#1025 DN	#2648 DN	#3001 DN	#4001 DN	
7.3000	14.6000	18.3000	ND<0.3000	

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 07/15/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000

#1074 DN	#2019 DN	#2021 DN	#2084 DN	#2084 DN Dup.	#3019 DN	#3084 DN
ND<2.8000	0.7000	ND<0.5000	ND<1.9000	ND<2.0000	ND<1.1000	4.6000

GROSS BETA	(Beta)	900.0	PCI/L	4.0000

#1074 DN	#2019 DN	#2021 DN	#2084 DN	#2084 DN Dup.	#3019 DN	#3084 DN
ND<1.5000	504.0000	867.0000	ND<0.9000	ND<1.0000	25.9000	30.4000

RA-226	(Ra-226)	903.1	PCI/L	0.6000

#1074 DN	#2019 DN	#2021 DN	#2084 DN	#2084 DN Dup.	#3019 DN	#3084 DN
0.3000	ND<0.2000	0.4000	1.6000	0.4000	0.8000	0.6000

RA-228	(Ra-228)	904.0	PCI/L	1.0000

#1074 DN	#2019 DN	#2021 DN	#2084 DN	#2084 DN Dup.	#3019 DN	#3084 DN
3.6000	2.6000	0.9000	2.0000	0.5000	0.4000	1.5000

U-TOTAL	(U-Tl)	908.1	UG/L	1.0000

#1074 DN	#2019 DN	#2021 DN	#2084 DN	#2084 DN Dup.	#3019 DN	#3084 DN
1.2000	2.2000	3.4000	14.4000	15.5000	54.4000	87.6000

67

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 07/16/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#1081 DN	#1082 DN	#2643 DN	#2643 DN Dup.	
ND<0.5000	41.0000	5.6000	1.9000	
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#1081 DN	#1082 DN	#2643 DN	#2643 DN Dup.	
ND<0.3000	83.6000	135.0000	103.0000	
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#1081 DN	#1082 DN	#2643 DN	#2643 DN Dup.	
0.6000	0.6000	0.6000	0.4000	
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#1081 DN	#1082 DN	#2643 DN	#2643 DN Dup.	
1.6000	ND<0.4000	1.5000	1.6000	
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#1081 DN	#1082 DN	#2643 DN	#2643 DN Dup.	
28.7000	625.0000	8.7000	7.1000	

4272

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 07/20/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#1079 DN	#3011 DN	#4011 DN		
4.8000	3.9000	2.1000		
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#1079 DN	#3011 DN	#4011 DN		
3.9000	ND<0.3000	2.0000		
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#1079 DN	#3011 DN	#4011 DN		
0.7000	0.5000	0.3000		
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#1079 DN	#3011 DN	#4011 DN		
ND<0.3000	ND<0.3000	ND<0.3000		
U-TOTAL	(U-TI)	908.1	UG/L	1.0000
#1079 DN	#3011 DN	#4011 DN		
ND<0.5000	2.1000	ND<0.5000		

69

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 07/27/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#1031 DN	#2649 DN			
12.5000	ND<2.0000			
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#1031 DN	#2649 DN			
97.3000	561.0000			
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#1031 DN	#2649 DN			
3.5000	0.5000			
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#1031 DN	#2649 DN			
ND<0.3000	2.7000			
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#1031 DN	#2649 DN			
11.2000	6.9000			

4272

70

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 07/28/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000

#1083 DN	#1643 DN	#1644 DN	#1645 DN	#1646 DN
30.4000	34.8000	50.6000	6.1000	1820.0000

GROSS BETA	(Beta)	900.0	PCI/L	4.0000

#1083 DN	#1643 DN	#1644 DN	#1645 DN	#1646 DN
112.0000	ND<1.3000	7.5000	ND<0.7000	263.0000

RA-226	(Ra-226)	903.1	PCI/L	0.6000

#1083 DN	#1643 DN	#1644 DN	#1645 DN	#1646 DN
0.5000	1.6000	16.3000	0.2000	0.2000

RA-228	(Ra-228)	904.0	PCI/L	1.0000

#1083 DN	#1643 DN	#1644 DN	#1645 DN	#1646 DN
ND<0.3000	2.0000	1.1000	ND<0.2000	0.4000

U-TOTAL	(U-Tl)	908.1	UG/L	1.0000

#1083 DN	#1643 DN	#1644 DN	#1645 DN	#1646 DN
94.2000	162.0000	123.0000	33.4000	790.0000

71

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 08/03/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000

#1008 DN	#1008 DN Dup.	#1039 DN	#1042 DN	#2008 DN	#2070 DN	#3070 DN
ND<0.4000	5.3000	5.8000	ND<0.5000	1.9000	1.9000	1.1000

GROSS BETA	(Beta)	900.0	PCI/L	4.0000

#1008 DN	#1008 DN Dup.	#1039 DN	#1042 DN	#2008 DN	#2070 DN	#3070 DN
ND<0.2000	ND<0.3000	ND<0.7000	ND<0.3000	ND<0.2000	1.0000	ND<0.3000

RA-226	(Ra-226)	903.1	PCI/L	0.6000

#1008 DN	#1008 DN Dup.	#1039 DN	#1042 DN	#2008 DN	#2070 DN	#3070 DN
0.6000	0.8000	0.4000	0.4000	0.3000	ND<0.2000	ND<0.2000

RA-228	(Ra-228)	904.0	PCI/L	1.0000

#1008 DN	#1008 DN Dup.	#1039 DN	#1042 DN	#2008 DN	#2070 DN	#3070 DN
1.0000	ND<0.3000	1.4000	0.8000	ND<0.3000	1.6000	2.2000

U-TOTAL	(U-Tl)	908.1	UG/L	1.0000

#1008 DN	#1008 DN Dup.	#1039 DN	#1042 DN	#2008 DN	#2070 DN	#3070 DN
ND<0.5000	0.9000	ND<0.5000	22.0000	18.2000	0.6000	ND<0.5000

72

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 08/04/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#2064 DN	#4064 DN			
ND<0.7000	ND<0.7000			
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#2064 DN	#4064 DN			
11.6000	3.3000			
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#2064 DN	#4064 DN			
0.7000	0.4000			
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#2064 DN	#4064 DN			
1.5000	ND<0.3000			
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#2064 DN	#4064 DN			
ND<0.5000	ND<0.5000			

42722

73

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 08/05/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
RA-226	(Ra-226)	903.1	PCI/L	0.6000
RA-228	(Ra-228)	904.0	PCI/L	1.0000
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000

Parameter	#1064 DN	#1160 DN	#1229 DN	#1276 DN	#1332 DN	#2120 DN	#3064 DN	#3064 DN Dup.	#3120 DN
GROSS ALPHA	3.0000	3.9000	11.4000	8.8000	5.6000	13.2000	ND<0.5000	ND<0.6000	3.1000
GROSS BETA	4.6000	9.0000	4.6000	ND<2.3000	ND<2.2000	30.4000	4.5000	1.3000	1.4000
RA-226	0.5000	0.6000	1.5000	1.9000	3.2000	1.6000	0.9000	0.6000	0.5000
RA-228	2.4000	1.0000	1.4000	2.3000	1.9000	1.8000	0.9000	1.2000	ND<0.4000
U-TOTAL	5.6000	ND<0.5000	11.3000	7.9000	3.1000	12.3000	ND<0.5000	0.9000	ND<0.5000

74

4272

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 08/06/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#2106 DN 25.2000	#3106 DN ND<0.5000			
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#2106 DN 26.9000	#3106 DN 14.0000			
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#2106 DN 0.3000	#3106 DN 0.5000			
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#2106 DN 0.9000	#3106 DN ND<0.3000			
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#2106 DN 56.9000	#3106 DN 1.4000			

A7272

75

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 08/10/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#3067 DN	#4067 DN			
ND<0.6000	0.8000			
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#3067 DN	#4067 DN			
10.9000	3.4000			
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#3067 DN	#4067 DN			
0.6000	ND<0.2000			
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#3067 DN	#4067 DN			
1.0000	1.3000			
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#3067 DN	#4067 DN			
0.4000	ND<0.3000			

72

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 08/11/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#1523 DN	#3069 DN	#3069 DN Dup.		
ND<3.4000	9.2000	9.2000		
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#1523 DN	#3069 DN	#3069 DN Dup.		
ND<2.2000	16.2000	13.3000		
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#1523 DN	#3069 DN	#3069 DN Dup.		
1.1000	0.5000	0.8000		
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#1523 DN	#3069 DN	#3069 DN Dup.		
ND<0.4000	ND<0.3000	ND<0.3000		
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#1523 DN	#3069 DN	#3069 DN Dup.		
11.1000	18.6000	19.5000		

4272

77

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 10/01/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000

#1024 UP	#1160 DN	#1229 DN	#2024 DN	#2055 DN	#2064 DN	#2120 DN	#2421 DN
2.0000	ND<2.9000	9.7000	ND<0.9000	ND<0.7000	ND<1.1000	2.5000	ND<1.0000
#3010 DN	#3024 DN	#3037 DN	#3064 DN	#3064 DN Dup.	#3069 DN	#3120 DN	#3421 DN
18.3000	ND<0.8000	ND<1.6000	ND<0.6000	ND<0.6000	8.0000	1.5000	ND<1.4000
#3821 DN	#4008 DN	#4013 DN					
7.1000	ND<0.4000	1.8000					

GROSS BETA	(Beta)	900.0	PCI/L	4.0000

#1024 UP	#1160 DN	#1229 DN	#2024 DN	#2055 DN	#2064 DN	#2120 DN	#2421 DN
ND<0.5000	ND<2.0000	ND<1.6000	ND<0.5000	ND<0.4000	ND<0.6000	ND<0.6000	ND<0.6000
#3010 DN	#3024 DN	#3037 DN	#3064 DN	#3064 DN Dup.	#3069 DN	#3120 DN	#3421 DN
2.3000	ND<0.5000	ND<1.0000	ND<0.4000	ND<0.3000	4.8000	ND<0.2000	ND<0.8000
#3821 DN	#4008 DN	#4013 DN					
13.8000	ND<0.3000	ND<1.0000					

RA-226	(Ra-226)	903.1	PCI/L	0.6000

#1024 UP	#1160 DN	#1229 DN	#2024 DN	#2055 DN	#2064 DN	#2120 DN	#2421 DN
0.7000	1.6000	1.7000	0.8000	0.9000	0.7000	0.6000	1.7000
#3010 DN	#3024 DN	#3037 DN	#3064 DN	#3064 DN Dup.	#3069 DN	#3120 DN	#3421 DN
1.0000	0.9000	1.1000	0.7000	0.7000	1.3000	2.0000	1.4000
#3821 DN	#4008 DN	#4013 DN					
ND<0.1000	ND<0.1000	0.7000					

RA-228	(Ra-228)	904.0	PCI/L	1.0000

#1024 UP	#1160 DN	#1229 DN	#2024 DN	#2055 DN	#2064 DN	#2120 DN	#2421 DN
1.6000	0.8000	6.9000	1.5000	4.3000	1.3000	1.3000	0.6000
#3010 DN	#3024 DN	#3037 DN	#3064 DN	#3064 DN Dup.	#3069 DN	#3120 DN	#3421 DN
8.7000	0.9000	4.3000	1.1000	1.4000	1.5000	ND<0.3000	0.3000

78

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 10/01/92

Parameter	Code	Method	Units	Det. Limit
RA-228	(Ra-228)	904.0	PCI/L	1.0000

#3821 DN	#4008 DN	#4013 DN
2.7000	1.9000	5.8000

Parameter	Code	Method	Units	Det. Limit
U-TOTAL	(U-TI)	908.1	UG/L	1.0000

#1024 UP	#1160 DN	#1229 DN	#2024 DN	#2055 DN	#2064 DN	#2120 DN	#2421 DN
2.1000	ND<0.5000	2.3000	5.8000	1.3000	ND<0.5000	9.9000	0.6000
#3010 DN	#3024 DN	#3037 DN	#3064 DN	#3064 DN Dup.	#3069 DN	#3120 DN	#3421 DN
13.1000	ND<0.3000	1.5000	ND<0.5000	ND<0.5000	22.9000	ND<0.5000	0.7000
#3821 DN	#4008 DN	#4013 DN					
10.9000	ND<0.5000	2.0000					

4272

79

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 10/05/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000

#1052 UP	#1064 DN	#1079 DN	#2052 DN	#4064 DN
ND<0.6000	5.5000	5.0000	ND<1.0000	ND<1.1000

GROSS BETA	(Beta)	900.0	PCI/L	4.0000

#1052 UP	#1064 DN	#1079 DN	#2052 DN	#4064 DN
2.7000	ND<0.4000	ND<0.7000	ND<0.6000	ND<0.5000

RA-226	(Ra-226)	903.1	PCI/L	0.6000

#1052 UP	#1064 DN	#1079 DN	#2052 DN	#4064 DN
1.3000	ND<0.1000	0.7000	1.2000	0.2000

RA-228	(Ra-228)	904.0	PCI/L	1.0000

#1052 UP	#1064 DN	#1079 DN	#2052 DN	#4064 DN
0.9000	ND<0.3000	ND<0.3000	1.1000	0.4000

U-TOTAL	(U-Tl)	908.1	UG/L	1.0000

#1052 UP	#1064 DN	#1079 DN	#2052 DN	#4064 DN
4.6000	5.5000	1.7000	8.8000	1.7000

4226

90

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 10/06/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#2051 DN	#3011 DN	#4011 DN		
ND<1.2000	ND<0.6000	ND<1.1000		
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#2051 DN	#3011 DN	#4011 DN		
4.6000	ND<0.4000	ND<0.5000		
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#2051 DN	#3011 DN	#4011 DN		
0.4000	1.0000	0.3000		
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#2051 DN	#3011 DN	#4011 DN		
2.7000	1.1000	0.7000		
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#2051 DN	#3011 DN	#4011 DN		
ND<0.5000	ND<0.5000	0.9000		

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 10/07/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
RA-226	(Ra-226)	903.1	PCI/L	0.6000
RA-228	(Ra-228)	904.0	PCI/L	1.0000
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000

Parameter	#2043 UP	#2066 UP	#3043 UP	#3066 UP	#2070 DN	#3067 DN	#3070 DN	#4067 DN	#4067 DN Dup.
GROSS ALPHA	1.6000	0.9000	1.0000	2.5000	ND<0.8000	ND<0.8000	ND<0.8000	ND<0.8000	ND<0.8000
GROSS BETA	ND<0.4000	9.1000	ND<0.2000	ND<1.0000	ND<0.4000	ND<0.3000	ND<0.4000	ND<0.4000	1.7000
RA-226	1.8000	1.3000	2.3000	1.4000	ND<0.1000	0.2000	1.3000	0.7000	1.2000
RA-228	ND<0.3000	3.2000	0.9000	2.9000	1.1000	1.0000	0.8000	ND<0.3000	0.4000
U-TOTAL	ND<0.5000	ND<0.5000	ND<0.5000	ND<0.5000	ND<0.5000	4.4000	ND<0.5000	ND<0.5000	ND<0.5000

82

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 10/13/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000

#1080 DN	#1523 DN	#2106 DN	#3106 DN	#3106 DN Dup.
ND<0.9000	3.7000	27.9000	ND<0.6000	ND<0.6000

GROSS BETA	(Beta)	900.0	PCI/L	4.0000

#1080 DN	#1523 DN	#2106 DN	#3106 DN	#3106 DN Dup.
ND<0.6000	5.2000	11.0000	ND<0.4000	ND<0.4000

RA-226	(Ra-226)	903.1	PCI/L	0.6000

#1080 DN	#1523 DN	#2106 DN	#3106 DN	#3106 DN Dup.
1.4000	1.0000	0.5000	0.5000	2.1000

RA-228	(Ra-228)	904.0	PCI/L	1.0000

#1080 DN	#1523 DN	#2106 DN	#3106 DN	#3106 DN Dup.
1.6000	ND<0.4000	0.8000	2.1000	1.2000

U-TOTAL	(U-Tl)	908.1	UG/L	1.0000

#1080 DN	#1523 DN	#2106 DN	#3106 DN	#3106 DN Dup.
2.5000	4.5000	53.6000	1.6000	1.0000

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 10/14/92

Parameter	Code	Method	Units	Det. Limit		
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000		
#1027 DN	#1332 DN	#2027 DN	#2037 DN	#3055 DN	#3055 DN Dup.	
76.8000	5.6000	9.3000	ND<0.7000	ND<1.4000	ND<1.3000	
GROSS BETA	(Beta)	900.0	PCI/L	4.0000		
#1027 DN	#1332 DN	#2027 DN	#2037 DN	#3055 DN	#3055 DN Dup.	
93.7000	ND<2.1000	ND<1.0000	ND<0.4000	11.5000	4.4000	
RA-226	(Ra-226)	903.1	PCI/L	0.6000		
#1027 DN	#1332 DN	#2027 DN	#2037 DN	#3055 DN	#3055 DN Dup.	
0.8000	2.6000	1.2000	0.7000	1.4000	1.2000	
RA-228	(Ra-228)	904.0	PCI/L	1.0000		
#1027 DN	#1332 DN	#2027 DN	#2037 DN	#3055 DN	#3055 DN Dup.	
ND<0.4000	ND<0.9000	ND<0.4000	0.9000	ND<0.3000	0.6000	
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000		
#1027 DN	#1332 DN	#2027 DN	#2037 DN	#3055 DN	#3055 DN Dup.	
193.0000	0.7000	9.1000	3.9000	ND<0.5000	ND<0.5000	

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 10/15/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#1085 DN	#1276 DN	#2010 DN	#4010 DN	
1670.0000	ND<1.5000	17.8000	ND<0.8000	
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#1085 DN	#1276 DN	#2010 DN	#4010 DN	
1570.0000	23.0000	ND<0.7000	ND<0.4000	
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#1085 DN	#1276 DN	#2010 DN	#4010 DN	
0.9000	1.4000	1.3000	0.5000	
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#1085 DN	#1276 DN	#2010 DN	#4010 DN	
ND<0.3000	2.8000	5.9000	0.5000	
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#1085 DN	#1276 DN	#2010 DN	#4010 DN	
3650.0000	17.4000	15.5000	ND<0.5000	

85

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 10/19/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#1008 DN	#2008 DN	#3008 DN		
ND<0.7000	8.5000	2.9000		
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#1008 DN	#2008 DN	#3008 DN		
7.7000	16.0000	2.1000		
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#1008 DN	#2008 DN	#3008 DN		
1.0000	0.3000	0.9000		
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#1008 DN	#2008 DN	#3008 DN		
1.1000	ND<0.3000	6.2000		
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#1008 DN	#2008 DN	#3008 DN		
2.2000	17.3000	7.7000		

4272

86

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 10/20/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
#3001 DN	#3001 DN Dup.	#4001 DN		
12.3000	10.4000	ND<0.8000		
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
#3001 DN	#3001 DN Dup.	#4001 DN		
6.6000	7.9000	4.1000		
RA-226	(Ra-226)	903.1	PCI/L	0.6000
#3001 DN	#3001 DN Dup.	#4001 DN		
0.6000	0.5000	ND<0.2000		
RA-228	(Ra-228)	904.0	PCI/L	1.0000
#3001 DN	#3001 DN Dup.	#4001 DN		
1.5000	0.9000	1.6000		
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000
#3001 DN	#3001 DN Dup.	#4001 DN		
17.4000	17.4000	ND<0.5000		

87

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 10/21/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000

#1038 DN	#1038 DN Dup.	#1039 DN	#1042 DN	#1074 DN
3.6000	2.9000	4.1000	10.4000	13.4000

GROSS BETA	(Beta)	900.0	PCI/L	4.0000

#1038 DN	#1038 DN Dup.	#1039 DN	#1042 DN	#1074 DN
ND<0.7000	ND<0.8000	ND<0.7000	ND<0.6000	ND<0.7000

RA-226	(Ra-226)	903.1	PCI/L	0.6000

#1038 DN	#1038 DN Dup.	#1039 DN	#1042 DN	#1074 DN
0.3000	ND<0.2000	ND<0.1000	0.9000	2.0000

RA-228	(Ra-228)	904.0	PCI/L	1.0000

#1038 DN	#1038 DN Dup.	#1039 DN	#1042 DN	#1074 DN
2.9000	1.3000	ND<0.3000	ND<0.3000	ND<0.3000

U-TOTAL	(U-Tl)	908.1	UG/L	1.0000

#1038 DN	#1038 DN Dup.	#1039 DN	#1042 DN	#1074 DN
3.9000	3.2000	ND<0.5000	13.1000	2.3000

4722

88

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 10/22/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000

#1025 DN	#2084 DN	#2648 DN	#2821 DN	#3084 DN
20.7000	ND<1.4000	11.1000	12.1000	10.5000

GROSS BETA	(Beta)	900.0	PCI/L	4.0000

#1025 DN	#2084 DN	#2648 DN	#2821 DN	#3084 DN
24.7000	49.0000	603.0000	82.1000	45.1000

RA-226	(Ra-226)	903.1	PCI/L	0.6000

#1025 DN	#2084 DN	#2648 DN	#2821 DN	#3084 DN
0.7000	0.7000	ND<0.1000	0.2000	0.4000

RA-228	(Ra-228)	904.0	PCI/L	1.0000

#1025 DN	#2084 DN	#2648 DN	#2821 DN	#3084 DN
0.4000	2.7000	1.3000	ND<0.3000	2.1000

U-TOTAL	(U-Tl)	908.1	UG/L	1.0000

#1025 DN	#2084 DN	#2648 DN	#2821 DN	#3084 DN
4.6000	17.4000	20.9000	32.0000	66.1000

A272

89

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 10/26/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000

#1081 DN	#1082 DN	#1083 DN	#2643 DN	#2643 DN Dup.
10.5000	189.0000	27.2000	7.3000	4.3000

GROSS BETA	(Beta)	900.0	PCI/L	4.0000

#1081 DN	#1082 DN	#1083 DN	#2643 DN	#2643 DN Dup.
ND<1.2000	201.0000	89.2000	145.0000	145.0000

RA-226	(Ra-226)	903.1	PCI/L	0.6000

#1081 DN	#1082 DN	#1083 DN	#2643 DN	#2643 DN Dup.
0.3000	0.7000	ND<0.1000	0.3000	ND<0.1000

RA-228	(Ra-228)	904.0	PCI/L	1.0000

#1081 DN	#1082 DN	#1083 DN	#2643 DN	#2643 DN Dup.
1.3000	2.5000	0.6000	2.2000	2.0000

U-TOTAL	(U-Tl)	908.1	UG/L	1.0000

#1081 DN	#1082 DN	#1083 DN	#2643 DN	#2643 DN Dup.
3.4000	607.0000	79.7000	1.7000	1.6000

1992 RCRA Annual Report Addendum Sampling Results
Sample Date of 10/27/92

Parameter	Code	Method	Units	Det. Limit
GROSS ALPHA	(Alpha)	900.0	PCI/L	1.0000
GROSS BETA	(Beta)	900.0	PCI/L	4.0000
RA-226	(Ra-226)	903.1	PCI/L	0.6000
RA-228	(Ra-228)	904.0	PCI/L	1.0000
U-TOTAL	(U-Tl)	908.1	UG/L	1.0000

Parameter	#1031 DN	#1643 DN	#1644 DN	#1645 DN	#1646 DN	#2649 DN	#2649 DN Dup.	#2822 DN
GROSS ALPHA	ND<1.9000	30.1000	31.3000	71.5000	258.0000	6.3000	5.4000	27.2000
GROSS BETA	84.8000	41.0000	117.0000	355.0000	311.0000	1250.0000	1250.0000	62.5000
RA-226	3.5000	0.8000	17.3000	0.3000	0.2000	0.3000	0.3000	ND<0.2000
RA-228	0.5000	2.1000	1.5000	0.6000	ND<0.3000	1.9000	2.7000	1.8000
U-TOTAL	12.7000	128.0000	87.7000	27.9000	727.0000	7.2000	6.4000	60.9000

42272

91

Appendix B
Analytical Results Above the RCRA GMP ACLs

RADIOLOGICAL RESULTS ABOVE THE RCRA GMP
ALTERNATE CONCENTRATION LIMITS

WELL	QUARTER	PARAMETER	DETECT	RESULT	AL	UNITS
2008	04/23/90	GROSS ALPHA		29.5000	24.3000	pCi/L
2008	11/11/90	GROSS ALPHA		33.8000	24.3000	pCi/L
2008	02/07/91	GROSS ALPHA		31.2000	24.3000	pCi/L
2010	05/10/90	GROSS ALPHA		192.0000	24.3000	pCi/L
2024	05/31/90	GROSS ALPHA		35.0000	24.3000	pCi/L
2052	08/20/90	GROSS ALPHA		33.1000	24.3000	pCi/L
2084	05/24/90	GROSS ALPHA		53.4000	24.3000	pCi/L
2084	11/11/90	GROSS ALPHA		109.0000	24.3000	pCi/L
2106	06/15/90	GROSS ALPHA		31.6000	24.3000	pCi/L
2106	02/06/92	GROSS ALPHA		25.0000	24.3000	pCi/L
2106	05/20/92	GROSS ALPHA		38.3000	24.3000	pCi/L
2106	08/06/92	GROSS ALPHA		25.2000	24.3000	pCi/L
2106	12/03/92	GROSS ALPHA		30.8000	24.3000	pCi/L
2643	11/15/90	GROSS ALPHA		35.1000	24.3000	pCi/L
2648	11/15/90	GROSS ALPHA		43.2000	24.3000	pCi/L
2648	01/29/92	GROSS ALPHA		99.4000	24.3000	pCi/L
2649	11/16/90	GROSS ALPHA		28.4000	24.3000	pCi/L
2649	02/14/91	GROSS ALPHA	<	61.0000	24.3000	pCi/L
2649	01/27/92	GROSS ALPHA		60.3000	24.3000	pCi/L
2822	10/27/92	GROSS ALPHA		27.2000	24.3000	pCi/L
3001	01/15/92	GROSS ALPHA		27.9000	24.3000	pCi/L
3004	09/17/90	GROSS ALPHA		98.0000	24.3000	pCi/L
3069	06/13/90	GROSS ALPHA		2010.0000	24.3000	pCi/L
3084	05/24/90	GROSS ALPHA		98.3000	24.3000	pCi/L
3084	11/11/90	GROSS ALPHA		6560.0000	24.3000	pCi/L
3084	02/27/91	GROSS ALPHA		6880.0000	24.3000	pCi/L
3084	05/13/91	GROSS ALPHA		8490.0000	24.3000	pCi/L
3084	01/23/92	GROSS ALPHA		393.0000	24.3000	pCi/L
3084	04/27/92	GROSS ALPHA		148.0000	24.3000	pCi/L
4013	02/06/91	GROSS ALPHA		52.5000	24.3000	pCi/L
4013	05/22/91	GROSS ALPHA		49.2000	24.3000	pCi/L
2052	08/20/90	GROSS BETA		62.9000	38.3000	pCi/L
2084	11/11/90	GROSS BETA		70.0000	38.3000	pCi/L
2084	10/22/92	GROSS BETA		49.0000	38.3000	pCi/L
2106	06/15/90	GROSS BETA		47.2000	38.3000	pCi/L
2106	02/06/92	GROSS BETA		41.6000	38.3000	pCi/L
2643	11/15/90	GROSS BETA		73.2000	38.3000	pCi/L
2643	02/27/91	GROSS BETA		105.0000	38.3000	pCi/L
2643	01/29/92	GROSS BETA		64.2000	38.3000	pCi/L
2643	04/23/92	GROSS BETA		93.1000	38.3000	pCi/L
2643	07/16/92	GROSS BETA		135.0000	38.3000	pCi/L
2643	10/26/92	GROSS BETA		145.0000	38.3000	pCi/L
2648	11/15/90	GROSS BETA		62.3000	38.3000	pCi/L
2648	02/21/91	GROSS BETA		74.8000	38.3000	pCi/L

< = less than the minimum
detectable activity

RADIOLOGICAL RESULTS ABOVE THE RCRA GMP
ALTERNATE CONCENTRATION LIMITS

WELL	QUARTER	PARAMETER	DETECT	RESULT	AL	UNITS
2648	01/29/92	GROSS BETA		684.0000	38.3000	pCi/L
2648	04/15/92	GROSS BETA		687.0000	38.3000	pCi/L
2648	07/14/92	GROSS BETA		443.0000	38.3000	pCi/L
2648	10/22/92	GROSS BETA		603.0000	38.3000	pCi/L
2649	02/14/91	GROSS BETA		347.0000	38.3000	pCi/L
2649	01/27/92	GROSS BETA		66.4000	38.3000	pCi/L
2649	04/21/92	GROSS BETA		337.0000	38.3000	pCi/L
2649	07/27/92	GROSS BETA		561.0000	38.3000	pCi/L
2649	10/27/92	GROSS BETA		1250.0000	38.3000	pCi/L
2821	10/22/92	GROSS BETA		82.1000	38.3000	pCi/L
2822	10/27/92	GROSS BETA		62.5000	38.3000	pCi/L
3004	09/17/90	GROSS BETA		137.0000	38.3000	pCi/L
3055	05/11/90	GROSS BETA		47.2000	38.3000	pCi/L
3055	01/09/92	GROSS BETA		41.1000	38.3000	pCi/L
3069	06/13/90	GROSS BETA		38600.00	38.3000	pCi/L
3084	05/24/90	GROSS BETA		112.0000	38.3000	pCi/L
3084	11/11/90	GROSS BETA		7150.0000	38.3000	pCi/L
3084	02/27/91	GROSS BETA		9090.0000	38.3000	pCi/L
3084	05/13/91	GROSS BETA		6010.0000	38.3000	pCi/L
3084	01/23/92	GROSS BETA		351.0000	38.3000	pCi/L
3084	04/27/92	GROSS BETA		267.0000	38.3000	pCi/L
3084	10/22/92	GROSS BETA		45.1000	38.3000	pCi/L
2010	05/20/91	RA-226+RA-228	<	4.4900	3.8200	pCi/L
2010	10/15/92	RA-226+RA-228		7.2000	3.8200	pCi/L
2010	05/10/90	RA-226+RA-228	<	6.9240	3.8200	pCi/L
2027	05/09/91	RA-226+RA-228	<	4.0350	3.8200	pCi/L
2027	07/09/92	RA-226+RA-228		4.0000	3.8200	pCi/L
2037	05/07/90	RA-226+RA-228	<	21.8800	3.8200	pCi/L
2043	02/28/91	RA-226+RA-228		5.1100	3.8200	pCi/L
2043	05/30/91	RA-226+RA-228		3.8680	3.8200	pCi/L
2043	01/06/92	RA-226+RA-228	<	3.9400	3.8200	pCi/L
2052	09/13/88	RA-226+RA-228	<	6.4000	3.8200	pCi/L
2055	07/08/92	RA-226+RA-228		4.1000	3.8200	pCi/L
2055	10/01/92	RA-226+RA-228		5.2000	3.8200	pCi/L
2066	10/07/92	RA-226+RA-228		4.5000	3.8200	pCi/L
2070	05/11/92	RA-226+RA-228		6.8000	3.8200	pCi/L
2084	08/29/88	RA-226+RA-228		4.8000	3.8200	pCi/L
2648	01/29/92	RA-226+RA-228		4.9070	3.8200	pCi/L
3001	05/08/90	RA-226+RA-228	<	29.7660	3.8200	pCi/L
3008	07/08/92	RA-226+RA-228		4.6000	3.8200	pCi/L
3008	10/19/92	RA-226+RA-228		7.1000	3.8200	pCi/L
3010	05/21/91	RA-226+RA-228	<	3.8560	3.8200	pCi/L
3010	01/08/92	RA-226+RA-228		5.6150	3.8200	pCi/L
3010	10/01/92	RA-226+RA-228		9.7000	3.8200	pCi/L

< = less than the minimum
detectable activity

RADIOLOGICAL RESULTS ABOVE THE RCRA GMP ALTERNATE CONCENTRATION LIMITS

WELL	QUARTER	PARAMETER	DETECT	RESULT	AL	UNITS
3037	05/14/91	RA-226+RA-228	<	3.8450	3.8200	ug/l
3037	01/13/92	RA-226+RA-228		5.3150	3.8200	pCi/L
3037	10/01/92	RA-226+RA-228		5.4000	3.8200	pCi/L
3037	05/07/90	RA-226+RA-228	<	19.3550	3.8200	pCi/L
3043	08/04/88	RA-226+RA-228	<	10.0000	3.8200	pCi/L
3055	05/22/91	RA-226+RA-228	<	9.2100	3.8200	pCi/L
3066	04/06/92	RA-226+RA-228		4.4000	3.8200	pCi/L
3066	10/07/92	RA-226+RA-228		4.3000	3.8200	pCi/L
3070	06/03/92	RA-226+RA-228		12.7000	3.8200	pCi/L
3106	02/27/92	RA-226+RA-228	<	10.4100	3.8200	pCi/L
4001	05/21/91	RA-226+RA-228	<	21.8900	3.8200	pCi/L
4001	05/08/90	RA-226+RA-228	<	39.1350	3.8200	pCi/L
4008	05/20/91	RA-226+RA-228	<	4.0390	3.8200	pCi/L
4008	01/13/92	RA-226+RA-228	<	12.5000	3.8200	pCi/L
4010	05/29/91	RA-226+RA-228	<	3.9260	3.8200	pCi/L
4010	01/22/92	RA-226+RA-228		4.6300	3.8200	pCi/L
4011	06/19/91	RA-226+RA-228	<	6.8000	3.8200	pCi/L
4013	10/01/92	RA-226+RA-228		6.5000	3.8200	pCi/L
2008	01/05/90	U-TOTAL	<	25.4000	22.0000	ug/l
2010	08/14/89	U-TOTAL	<	34.0000	22.0000	ug/l
2024	07/15/91	U-TOTAL		23.0000	22.0000	ug/l
2027	06/27/89	U-TOTAL		46.0000	22.0000	ug/l
2027	01/21/92	U-TOTAL		330.0000	22.0000	ug/l
2052	08/20/90	U-TOTAL		23.2000	22.0000	ug/l
2084	08/29/89	U-TOTAL	<	25.0000	22.0000	ug/l
2084	11/28/89	U-TOTAL		32.0000	22.0000	ug/l
2084	05/24/90	U-TOTAL		30.4000	22.0000	ug/l
2084	11/11/90	U-TOTAL		26.9000	22.0000	ug/l
2106	02/07/89	U-TOTAL	<	61.0000	22.0000	ug/l
2106	03/02/90	U-TOTAL		88.6000	22.0000	ug/l
2106	06/15/90	U-TOTAL		50.9000	22.0000	ug/l
2106	09/06/90	U-TOTAL		56.0000	22.0000	ug/l
2106	05/07/91	U-TOTAL		67.8000	22.0000	ug/l
2106	09/17/91	U-TOTAL		53.1000	22.0000	ug/l
2106	11/07/91	U-TOTAL		50.0000	22.0000	ug/l
2106	02/06/92	U-TOTAL		68.8000	22.0000	ug/l
2106	05/20/92	U-TOTAL		77.3000	22.0000	ug/l
2106	08/06/92	U-TOTAL		56.9000	22.0000	ug/l
2106	10/13/92	U-TOTAL		53.6000	22.0000	ug/l
2648	10/16/91	U-TOTAL		27.0000	22.0000	ug/l
2821	10/22/92	U-TOTAL		32.0000	22.0000	ug/l
2822	10/27/92	U-TOTAL		60.9000	22.0000	ug/l
3001	08/16/89	U-TOTAL		25.0000	22.0000	ug/l
3001	02/09/90	U-TOTAL		23.9000	22.0000	ug/l

< = less than the minimum detectable activity

4772

RADIOLOGICAL RESULTS ABOVE THE RCRA GMP
ALTERNATE CONCENTRATION LIMITS

WELL	QUARTER	PARAMETER	DETECT	RESULT	AL	UNITS
3037	05/05/88	U-TOTAL		35.0000	22.0000	ug/l
3069	09/30/91	U-TOTAL		31.0000	22.0000	ug/l
3069	11/13/91	U-TOTAL		41.0000	22.0000	ug/l
3069	02/06/92	U-TOTAL		36.9000	22.0000	ug/l
3069	10/01/92	U-TOTAL		22.9000	22.0000	ug/l
3084	04/26/88	U-TOTAL		218.0000	22.0000	ug/l
3084	08/29/88	U-TOTAL		25.0000	22.0000	ug/l
3084	11/29/88	U-TOTAL	<	23.0000	22.0000	ug/l
3084	03/13/89	U-TOTAL		93.0000	22.0000	ug/l
3084	06/29/89	U-TOTAL		26.0000	22.0000	ug/l
3084	02/21/90	U-TOTAL		110.0000	22.0000	ug/l
3084	05/24/90	U-TOTAL		30.0000	22.0000	ug/l
3084	08/15/90	U-TOTAL		103.0000	22.0000	ug/l
3084	11/11/90	U-TOTAL		16400.00	22.0000	ug/l
3084	02/27/91	U-TOTAL		22500.00	22.0000	ug/l
3084	05/13/91	U-TOTAL		10200.00	22.0000	ug/l
3084	07/11/91	U-TOTAL		10650.00	22.0000	ug/l
3084	10/08/91	U-TOTAL		9180.000	22.0000	ug/l
3084	01/23/92	U-TOTAL		450.0000	22.0000	ug/l
3084	04/27/92	U-TOTAL		511.0000	22.0000	ug/l
3084	07/15/92	U-TOTAL		87.6000	22.0000	ug/l
3084	10/22/92	U-TOTAL		66.1000	22.0000	ug/l
4013	06/06/89	U-TOTAL		86.0000	22.0000	ug/l
4013	02/06/91	U-TOTAL		80.0000	22.0000	ug/l
4013	05/22/91	U-TOTAL		46.5000	22.0000	ug/l
4013	07/17/91	U-TOTAL		31.0000	22.0000	ug/l

< = less than the minimum
detectable activity

Appendix C
Confirmed Analytical Results
Above the RCRA GMP ACLs

CONFIRMED RADIOLOGICAL RESULTS ABOVE THE RCRA GMP
ALTERNATE CONCENTRATION LIMITS

WELL	QUARTER	PARAMETER	DETECT	RESULT	AL	UNITS
2008	04/23/90	GROSS ALPHA		29.5000	24.3000	pCi/L
2008	11/11/90	GROSS ALPHA		33.8000	24.3000	pCi/L
2008	02/07/91	GROSS ALPHA		31.2000	24.3000	pCi/L
2084	05/24/90	GROSS ALPHA		53.4000	24.3000	pCi/L
2084	11/11/90	GROSS ALPHA		109.0000	24.3000	pCi/L
2106	06/15/90	GROSS ALPHA		31.6000	24.3000	pCi/L
2106	02/06/92	GROSS ALPHA		25.0000	24.3000	pCi/L
2106	05/20/92	GROSS ALPHA		38.3000	24.3000	pCi/L
2106	08/06/92	GROSS ALPHA		25.2000	24.3000	pCi/L
2106	12/03/92	GROSS ALPHA		30.8000	24.3000	pCi/L
2648	11/15/90	GROSS ALPHA		43.2000	24.3000	pCi/L
2648	01/29/92	GROSS ALPHA		99.4000	24.3000	pCi/L
2649	11/16/90	GROSS ALPHA		28.4000	24.3000	pCi/L
2649	02/14/91	GROSS ALPHA	<	61.0000	24.3000	pCi/L
2649	01/27/92	GROSS ALPHA		60.3000	24.3000	pCi/L
3084	05/24/90	GROSS ALPHA		98.3000	24.3000	pCi/L
3084	11/11/90	GROSS ALPHA		6560.0000	24.3000	pCi/L
3084	02/27/91	GROSS ALPHA		6880.0000	24.3000	pCi/L
3084	05/13/91	GROSS ALPHA		8490.0000	24.3000	pCi/L
3084	01/23/92	GROSS ALPHA		393.0000	24.3000	pCi/L
3084	04/27/92	GROSS ALPHA		148.0000	24.3000	pCi/L
4013	02/06/91	GROSS ALPHA		52.5000	24.3000	pCi/L
4013	05/22/91	GROSS ALPHA		49.2000	24.3000	pCi/L
2084	11/11/90	GROSS BETA		70.0000	38.3000	pCi/L
2084	10/22/92	GROSS BETA		49.0000	38.3000	pCi/L
2106	06/15/90	GROSS BETA		47.2000	38.3000	pCi/L
2106	02/06/92	GROSS BETA		41.6000	38.3000	pCi/L
2643	11/15/90	GROSS BETA		73.2000	38.3000	pCi/L
2643	02/27/91	GROSS BETA		105.0000	38.3000	pCi/L
2643	01/29/92	GROSS BETA		64.2000	38.3000	pCi/L
2643	04/23/92	GROSS BETA		93.1000	38.3000	pCi/L
2643	07/16/92	GROSS BETA		135.0000	38.3000	pCi/L
2643	10/26/92	GROSS BETA		145.0000	38.3000	pCi/L
2648	11/15/90	GROSS BETA		62.3000	38.3000	pCi/L
2648	02/21/91	GROSS BETA		74.8000	38.3000	pCi/L
2648	01/29/92	GROSS BETA		684.0000	38.3000	pCi/L
2648	04/15/92	GROSS BETA		687.0000	38.3000	pCi/L
2648	07/14/92	GROSS BETA		443.0000	38.3000	pCi/L
2648	10/22/92	GROSS BETA		603.0000	38.3000	pCi/L
2649	02/14/91	GROSS BETA		347.0000	38.3000	pCi/L
2649	01/27/92	GROSS BETA		66.4000	38.3000	pCi/L
2649	04/21/92	GROSS BETA		337.0000	38.3000	pCi/L
2649	07/27/92	GROSS BETA		561.0000	38.3000	pCi/L
2649	10/27/92	GROSS BETA		1250.0000	38.3000	pCi/L

< = less than the minimum
detectable activity

4772

CONFIRMED RADIOLOGICAL RESULTS ABOVE THE RCRA GMP
ALTERNATE CONCENTRATION LIMITS

WELL	QUARTER	PARAMETER	DETECT	RESULT	AL	UNITS
3055	05/11/90	GROSS BETA		47.2000	38.3000	pCi/L
3055	01/09/92	GROSS BETA		41.1000	38.3000	pCi/L
3084	05/24/90	GROSS BETA		112.0000	38.3000	pCi/L
3084	11/11/90	GROSS BETA		7150.0000	38.3000	pCi/L
3084	02/27/91	GROSS BETA		9090.0000	38.3000	pCi/L
3084	05/13/91	GROSS BETA		6010.0000	38.3000	pCi/L
3084	01/23/92	GROSS BETA		351.0000	38.3000	pCi/L
3084	04/27/92	GROSS BETA		267.0000	38.3000	pCi/L
3084	10/22/92	GROSS BETA		45.1000	38.3000	pCi/L
2043	02/28/91	RA-226+RA-228		5.1100	3.8200	pCi/L
2043	05/30/91	RA-226+RA-228		3.8680	3.8200	pCi/L
2043	01/06/92	RA-226+RA-228	<	3.9400	3.8200	pCi/L
2055	07/08/92	RA-226+RA-228		4.1000	3.8200	pCi/L
2055	10/01/92	RA-226+RA-228		5.2000	3.8200	pCi/L
3008	07/08/92	RA-226+RA-228		4.6000	3.8200	pCi/L
3008	10/19/92	RA-226+RA-228		7.1000	3.8200	pCi/L
3010	05/21/91	RA-226+RA-228	<	3.8560	3.8200	pCi/L
3010	01/08/92	RA-226+RA-228		5.6150	3.8200	pCi/L
3010	10/01/92	RA-226+RA-228		9.7000	3.8200	pCi/L
3037	05/14/91	RA-226+RA-228	<	3.8450	3.8200	ug/l
3037	01/13/92	RA-226+RA-228		5.3150	3.8200	pCi/L
3037	10/01/92	RA-226+RA-228		5.4000	3.8200	pCi/L
3037	05/07/90	RA-226+RA-228	<	19.3550	3.8200	pCi/L
3066	04/06/92	RA-226+RA-228		4.4000	3.8200	pCi/L
3066	10/07/92	RA-226+RA-228		4.3000	3.8200	pCi/L
2027	06/27/89	U-TOTAL		46.0000	22.0000	ug/l
2027	01/21/92	U-TOTAL		330.0000	22.0000	ug/l
2084	08/29/89	U-TOTAL	<	25.0000	22.0000	ug/l
2084	11/28/89	U-TOTAL		32.0000	22.0000	ug/l
2084	05/24/90	U-TOTAL		30.4000	22.0000	ug/l
2084	11/11/90	U-TOTAL		26.9000	22.0000	ug/l
2106	02/07/89	U-TOTAL	<	61.0000	22.0000	ug/l
2106	03/02/90	U-TOTAL		88.6000	22.0000	ug/l
2106	06/15/90	U-TOTAL		50.9000	22.0000	ug/l
2106	09/06/90	U-TOTAL		56.0000	22.0000	ug/l
2106	05/07/91	U-TOTAL		67.8000	22.0000	ug/l
2106	09/17/91	U-TOTAL		53.1000	22.0000	ug/l
2106	11/07/91	U-TOTAL		50.0000	22.0000	ug/l
2106	02/06/92	U-TOTAL		68.8000	22.0000	ug/l
2106	05/20/92	U-TOTAL		77.3000	22.0000	ug/l
2106	08/06/92	U-TOTAL		56.9000	22.0000	ug/l
2106	10/13/92	U-TOTAL		53.6000	22.0000	ug/l
3001	08/16/89	U-TOTAL		25.0000	22.0000	ug/l
3001	02/09/90	U-TOTAL		23.9000	22.0000	ug/l

< = less than the minimum
detectable activity

CONFIRMED RADIOLOGICAL RESULTS ABOVE THE RCRA GMP
ALTERNATE CONCENTRATION LIMITS

WELL	QUARTER	PARAMETER	DETECT	RESULT	AL	UNITS
3037	05/05/88	U-TOTAL		35.0000	22.0000	ug/l
3069	09/30/91	U-TOTAL		31.0000	22.0000	ug/l
3069	11/13/91	U-TOTAL		41.0000	22.0000	ug/l
3069	02/06/92	U-TOTAL		36.9000	22.0000	ug/l
3069	10/01/92	U-TOTAL		22.9000	22.0000	ug/l
3084	04/26/88	U-TOTAL		218.0000	22.0000	ug/l
3084	08/29/88	U-TOTAL		25.0000	22.0000	ug/l
3084	11/29/88	U-TOTAL	<	23.0000	22.0000	ug/l
3084	03/13/89	U-TOTAL		93.0000	22.0000	ug/l
3084	06/29/89	U-TOTAL		26.0000	22.0000	ug/l
3084	02/21/90	U-TOTAL		110.0000	22.0000	ug/l
3084	05/24/90	U-TOTAL		30.0000	22.0000	ug/l
3084	08/15/90	U-TOTAL		103.0000	22.0000	ug/l
3084	11/11/90	U-TOTAL		16400.00	22.0000	ug/l
3084	02/27/91	U-TOTAL		22500.00	22.0000	ug/l
3084	05/13/91	U-TOTAL		10200.00	22.0000	ug/l
3084	07/11/91	U-TOTAL		10650.00	22.0000	ug/l
3084	10/08/91	U-TOTAL		9180.000	22.0000	ug/l
3084	01/23/92	U-TOTAL		450.0000	22.0000	ug/l
3084	04/27/92	U-TOTAL		511.0000	22.0000	ug/l
3084	07/15/92	U-TOTAL		87.6000	22.0000	ug/l
3084	10/22/92	U-TOTAL		66.1000	22.0000	ug/l
4013	06/06/89	U-TOTAL		86.0000	22.0000	ug/l
4013	02/06/91	U-TOTAL		80.0000	22.0000	ug/l
4013	05/22/91	U-TOTAL		46.5000	22.0000	ug/l
4013	07/17/91	U-TOTAL		31.0000	22.0000	ug/l

< = less than the minimum
detectable activity

Appendix D
Results of the
Wilk-Shapiro Test

1)
LOGIC If the type of distribution is normal for that parameter and well, and
If Proportion of Nondetects is less than or equal (< or =) to 20% nondetects for that parameter and well.

Then the following statistics are most appropriate for the given well:

Proportion of Nondetects: _____
N: _____
Type of Distribution: Normal
Mean: _____
Standard Deviation: _____
Standard Error of Mean: _____
Coefficient of Variation: _____
Maximum Value: _____
Minimum Value: _____
Max/Min Ratio: _____

The above descriptive statistics were calculated substituting 1/2 the limit of detection for all nondetect values.

2)
LOGIC If the type of distribution is normal for that parameter and well, and
If Proportion of Nondetects is greater than (>) 20% nondetects but less than (<) 50% nondetects for that parameter and well.

Then enter the following statistics are most appropriate for the given well:

Proportion of Nondetects: _____
N: _____
Type of Distribution: Normal
Median: _____
Maximum Value: _____
Minimum Value: _____
Max/Min Ratio: _____

The above descriptive statistics were calculated substituting 1/2 the limit of detection for all nondetect values.

3)
LOGIC If the type of distribution is normal for that parameter and well, and
If Proportion of Nondetects is greater than or equal to (> or =) 50% nondetects but less than (<) 100% nondetects for that parameter and well.

Then the following statistics are most appropriate for the given well:

Proportion of Nondetects: _____
N: _____
Type of Distribution: Normal
Mean: <_____
Maximum Value: _____
Minimum Value: <_____
Max/Min Ratio: >_____

The above descriptive statistics were calculated using the limit of detection for all nondetect values.

4)
LOGIC If Proportion of Nondetects is equal to (=) 100% nondetects for that parameter and well.

Then the following statistics are most appropriate for the given well:

Proportion of Nondetects: 1.000
N: _____
Type of Distribution: Undeterminable
Mean: <_____

The above descriptive statistics were calculated using the limit of detection for all nondetect values.

5)
LOGIC If the type of distribution is nonnormal for that parameter and well, and
If the CV is greater than (>) approximately 90.0(%), and
If Max/Min ratio is greater than (>) approximately 15, and

If the Proportion of Nondetects is less than or equal to (< or =) 20% nondetects for that parameter and well.

Then the following statistics are most appropriate for the given well:

Proportion of Nondetects: _____
N: _____
Type of Distribution: Nonnormal (i.e., Lognormal)
Geometric Mean: _____
Q3 - Q1: _____
Coefficient of Variation: _____
Maximum Value: _____
Minimum Value: _____
Max/Min Ratio: _____

The above descriptive statistics were calculated substituting 1/2 the limit of detection for all nondetect values.

6)
LOGIC If the type of distribution is nonnormal for that parameter and well, and
If CV is greater than (>) approximately 90.0(%), and
If Max/Min ratio if greater than (>) approximately 15, and

If Proportion of Nondetects is greater than (>) 20% nondetects but less than (<) 50% nondetects for that parameter and well.

Then the following statistics are most appropriate for the given well:

Proportion of Nondetects: _____
N: _____
Type of Distribution: Nonnormal (i.e., Lognormal)
Median: _____
Maximum Value: _____
Minimum Value: _____
Max/Min Ratio: _____

The above descriptive statistics were calculated substituting 1/2 the limit of detection for all nondetect values.

4772

LOGIC If the type of distribution is nonnormal for that parameter and well, and
If CV is greater than (>) approximately 90.0(%), and
If Max/Min ratio is greater than (>) approximately 15, and

If Proportion of Nondetects is greater than or equal to (> or =) 50% nondetects but less than (<) 100% nondetects for that parameter and well.

Then the following statistics are most appropriate for the given well:

Proportion of Nondetects: _____
N: _____
Type of Distribution: Nonnormal (i.e., Lognormal)
Geometric Mean: <_____
Maximum Value: _____
Minimum Value: <_____
Max/Min Ratio: >_____

The above descriptive statistics were calculated using the limit of detection for all nondetect values.

PARAMETER	WELL NUMBER	PROPORTION OF NONDETECTS	N	TYPE OF DISTRIBUTION	MEAN	MEDIAN	GEOMETRIC MEAN	STANDARD DEVIATION	Q3-Q1	STANDARD ERROR OF MEAN	COEFFICIENT OF VARIATION	MAXIMUM VALUE	MINIMUM VALUE	MAX/MIN RATIO
GROSS ALPHA	1008	0.333	6	Normal	20.1750	17.8500	5.6501	19.5518	41.5500	7.98200	96.91	42.900	< 0.40000	> 107.250
	1024	0.500	4	Normal	< 1.6650	< 1.6800	< 1.3989	0.9748	1.4700	0.48740	58.55	2.800	< 0.50000	> 5.600
	1025	0.167	6	Normal	12.5098	12.3000	4.7345	10.6641	18.2000	4.35359	85.25	27.200	0.05880	462.585
	1027	0.000	8	Normal	138.8875	140.5000	126.3410	60.8065	103.7500	21.49833	43.78	223.000	58.6000	3.805
	1031	0.125	8	Nonnormal	64.7313	32.6000	25.0494	108.4017	29.0500	38.32581	167.46	330.000	< 1.90000	> 173.684
without outlier	1031	0.143	7	Normal	26.8357	31.4000	17.3316	17.4955	23.0000	6.61269	65.19	54.000	< 1.90000	> 28.632
	1038	0.000	8	Normal	30.1463	9.6350	13.6712	35.1350	54.3500	12.42209	116.55	93.400	3.60000	25.944
	1039	0.800	5	Normal	< 2.8578	< 3.0000	< 2.0198	2.2137	3.3000	0.99000	77.46	5.800	< 0.58900	> 9.847
	1042	0.200	5	Normal	25.1220	10.4000	7.5160	38.8320	6.8400	17.36621	154.57	94.000	< 0.50000	> 188.000
without outlier	1042	0.250	4	Normal	7.9025	8.7300	3.9967	5.8160	8.4950	2.90801	73.60	13.900	< 0.50000	> 27.800
	1052	0.286	7	Normal	8.3157	5.9000	3.2266	9.4032	14.9000	3.55407	113.08	25.900	< 0.60000	> 43.167
	1064	0.000	5	Normal	6.0580	5.5000	5.4583	3.1755	2.9100	1.42013	52.42	11.100	3.00000	3.700
	1074	0.333	6	Normal	6.7646	3.8900	1.8309	7.2353	12.0000	2.95379	106.96	18.000	< 0.01500	> 1200.000
	1079	0.000	5	Normal	3.3140	3.0500	2.9496	1.5944	2.3000	0.71302	48.11	5.000	1.22000	4.098
	1080	0.333	6	Normal	10.0792	4.2650	3.5946	12.1055	23.5050	4.94203	120.10	26.400	< 0.90000	> 29.333
	1081	0.125	8	Nonnormal	90.0225	21.6500	18.0329	192.7436	37.3850	68.14515	214.11	565.000	< 0.50000	> 1130.000
without outlier	1081	0.143	7	Normal	22.1686	18.2000	11.0244	19.2265	29.1700	7.26693	86.73	56.100	< 0.50000	> 112.200
	1082	0.000	9	Normal	200.7778	189.0000	176.0160	88.1019	111.0000	29.36730	43.88	320.000	41.00000	7.805
	1083	0.000	7	Normal	45.0981	58.2000	19.8780	26.3808	40.0000	9.97099	58.50	71.500	0.08680	823.733
	1085	0.000	7	Normal	3765.7140	3160.0000	3193.4900	2391.0170	3640.0000	903.71940	63.49	8140.000	1670.00000	4.874
	1160	0.500	2	Normal	< 3.4000	< 3.4000	< 3.3630	0.7071	1.0000	0.50000	20.80	3.900	< 2.90000	> 1.345
	1229	0.000	4	Normal	18.1250	11.0000	14.7880	15.1326	15.9500	7.56630	83.49	40.800	9.70000	4.206
	1276	0.250	4	Normal	9.9625	8.5500	5.8920	8.8296	10.8750	4.41481	88.63	22.000	< 1.50000	> 14.667
	1332	0.250	4	Normal	9.5250	5.6000	5.3385	11.1300	12.4500	5.58498	116.85	25.900	< 2.00000	> 12.950
	1523	0.500	4	Normal	< 7.8500	< 3.5500	< 4.8669	9.8618	10.3000	4.83089	123.08	22.300	< 2.00000	> 11.150
	1643	0.000	4	Normal	45.8250	43.7000	43.6354	16.4694	26.7500	8.23472	35.94	65.800	30.10000	2.186
	1644	0.000	4	Normal	60.0000	63.3500	58.0691	23.4894	38.1000	11.74472	39.15	82.000	31.30000	2.620
	1645	0.000	4	Normal	25.7500	12.7000	15.8439	30.8405	36.8000	15.42025	119.77	71.500	6.10000	11.721
	1646	0.000	4	Normal	638.0000	279.0000	391.0480	791.3145	848.0000	395.65730	124.42	1820.000	166.00000	10.964
	2008	0.000	8	Normal	15.8225	9.2500	10.4837	13.2962	24.5100	4.70090	84.03	33.800	1.90000	17.789
	2010	0.000	7	Nonnormal	36.1886	10.7000	14.5557	68.8288	11.4000	26.01482	190.19	192.000	5.90000	32.542
without outlier	2010	0.000	6	Normal	10.2200	9.3600	9.4694	4.4940	6.1000	1.83467	43.97	17.800	5.90000	3.017
	2024	0.167	6	Normal	9.2667	4.1250	4.0808	13.0472	8.5000	5.32650	140.80	35.000	< 0.90000	> 38.889
	2027	0.000	7	Normal	11.5171	11.0000	4.8427	7.7249	13.1000	2.91972	67.07	23.000	0.01950	1179.487
GROSS ALPHA	2037	0.143	7	Normal	4.0382	2.1000	1.1535	4.8278	9.6000	1.82475	119.55	11.700	0.01740	672.414
	2043	0.333	6	Normal	7.1475	1.3100	2.2378	9.7026	18.3350	3.96107	135.75	20.300	< 0.60000	> 33.833
	2051	0.200	5	Normal	4.2180	1.6900	2.4353	5.1735	2.4000	2.31364	122.65	13.200	< 1.20000	> 11.000
	2052	0.125	8	Normal	12.0175	8.2500	6.2737	11.6867	17.4800	4.13187	97.25	33.100	< 1.00000	> 33.100
	2055	0.286	7	Normal	4.5829	4.7800	2.3777	4.2129	7.8300	1.59233	91.93	11.400	< 0.70000	> 16.286
	2064	0.833	6	Nonnormal	< 3.1933	< 1.2750	< 1.5453	4.9468	1.6100	2.01952	154.91	13.200	< 0.40000	> 33.[illegible]
without outlier	2064	1.000	5	Normal	< 0.5960	< 0.5500	< 0.5031	0.3703	0.3750	0.16562	62.14	< 2.310	< 0.40000	5.[illegible]
	2066	0.000	5	Normal	5.3740	3.9000	3.5014	4.9269	6.3700	2.20338	91.68	12.700	0.90000	14.[illegible]
	2070	0.400	5	Normal	3.7400	2.5000	2.1337	4.5446	1.3000	2.03239	121.51	11.700	< 0.80000	> 14.6[illegible]
	2084	0.286	7	Normal	29.5929	14.2000	10.0184	39.3108	52.4500	14.85809	132.84	109.000	< 1.40000	> 77.86[illegible]
	2106	0.000	6	Normal	28.9833	28.0000	28.5376	5.7084	6.6000	2.33044	19.70	38.300	23.00000	1.6[illegible]
	2120	0.000	3	Normal	6.0000	2.5000	4.2340	6.2362	10.9000	3.60046	103.94	13.200	2.30000	5.7[illegible]
	2421	0.500	4	Normal	< 4.9925	< 2.9350	< 2.5998	5.9180	8.2850	2.95898	118.54	13.400	< 0.70000	> 19.1[illegible]
	2643	0.000	7	Normal	12.2714	10.4000	9.3740	10.6786	7.3000	4.03613	87.02	35.100	2.80000	12.536

PARAMETER	WELL NUMBER	PROPORTION OF NONDETECTS	N	TYPE OF DISTRIBUTION	MEAN	MEDIAN	GEOMETRIC MEAN	STANDARD DEVIATION	Q3-Q1	STANDARD ERROR OF MEAN	COEFFICIENT OF VARIATION	MAXIMUM VALUE	MINIMUM VALUE	MAX/MIN RATIO
	2848	0.000	6	Normal	31.9000	17.8500	17.3081	35.9961	32.1000	14.69535	112.84	99.400	2.00000	49.700
	2849	0.200	5	Normal	20.2800	6.3000	8.9758	24.7786	23.0000	11.08176	122.19	60.300	< 2.00000	> 30.150
	2821	0.000	1	Undeterminable	12.1000	12.1000	12.1000	0.0000	0.0000	0.00000	0.00	12.100	12.10000	1.000
	2822	0.000	1	Undeterminable	27.2000	27.2000	27.2000	0.0000	0.0000	0.00000	0.00	27.200	27.20000	1.000
	3001	0.375	8	Normal	6.4551	1.5000	1.5396	9.6264	8.7350	3.40343	149.13	27.900	< 0.02100	> 1328.571
	3004	0.000	1	Undeterminable	98.0000	98.0000	98.0000	0.0000	0.0000	0.00000	0.00	98.000	98.00000	1.000
	3008	0.429	7	Normal	1.9343	2.0200	1.1551	1.3331	2.7400	0.50387	68.92	< 3.600	< 0.20000	18.000
	3010	0.000	7	Normal	12.3771	9.7000	10.6190	6.3814	9.0000	2.41192	51.56	21.000	2.70000	7.778
	3011	0.400	5	Normal	4.5180	2.1400	1.4332	6.6530	3.6000	2.97532	147.26	16.100	< 0.30000	> 53.667
	3024	0.500	6	Normal	< 2.9540	< 0.9470	< 1.5876	3.7938	3.6300	1.54883	128.43	10.100	< 0.50000	> 20.200
	3037	0.667	6	Normal	< 4.3280	< 1.6000	< 1.1794	6.5205	4.1500	2.66198	150.66	17.200	< 0.01800	> 955.556
	3043	0.400	5	Normal	0.9300	1.0000	0.6564	0.7319	1.0000	0.32734	78.70	1.950	< 0.40000	> 4.875
	3055	0.500	6	Normal	< 5.2100	< 5.1250	< 2.9330	4.6680	8.7100	1.90569	89.60	9.900	< 0.60000	> 16.500
	3064	1.000	5	Normal	< 1.0018	< 0.6000	< 0.6969	1.1239	0.1090	0.50264	112.19	< 3.000	< 0.30000	10.000
	3066	0.000	4	Normal	5.8475	5.4950	5.2009	3.1167	4.4950	1.55834	53.30	9.900	2.50000	3.960
	3067	0.750	4	Normal	< 0.7925	< 0.7000	< 0.6783	0.4962	0.6850	0.24811	62.61	1.470	< 0.30000	> 4.900
	3069	0.000	6	Nonnormal	344.5200	10.2000	24.3655	815.9390	15.3000	333.10570	236.83	2010.000	5.42000	370.849
without outlier	3069	0.000	5	Normal	11.4240	9.2000	10.0807	6.9607	3.2000	3.11294	60.93	23.300	5.42000	4.300
	3070	0.250	4	Normal	2.2750	2.0500	1.5698	1.8998	3.0500	0.94989	83.51	4.600	< 0.80000	> 5.750
	3084	0.000	8	Normal	2823.0500	270.5000	318.4710	3758.3690	6665.6000	1328.78400	133.13	8490.000	4.60000	1845.652
	3106	0.500	4	Normal	< 3.7250	< 1.1500	< 1.5761	5.6097	6.3500	2.80487	150.60	12.100	< 0.50000	> 24.200
GROSS ALPHA	3120	0.000	3	Normal	1.8333	1.5000	1.6115	1.1372	2.2000	0.65659	62.03	3.100	0.90000	3.444
	3421	0.333	3	Normal	9.3333	3.2000	3.7794	12.8493	23.4000	7.41852	137.67	24.100	< 1.40000	> 17.214
	3821	0.000	1	Undeterminable	7.1000	7.1000	7.1000	0.0000	0.0000	0.00000	0.00	7.100	7.10000	1.000
	4001	0.500	6	Normal	< 1.0142	< 0.7500	< 0.4444	0.7862	1.0000	0.32097	77.52	2.180	0.00530	411.321
	4008	0.600	5	Normal	< 0.9515	< 0.5000	< 0.3732	1.1963	0.4130	0.53502	125.73	3.030	0.01470	206.122
without outlier	4008	0.750	4	Normal	< 0.2178	< 0.2250	< 0.1315	0.1615	0.2209	0.08073	74.13	< 0.813	0.01470	< 55.306
	4010	0.286	7	Normal	2.3786	1.8900	1.6442	2.1033	2.4600	0.79496	88.43	< 13.000	0.60000	< 21.667
	4011	0.600	5	Normal	< 2.5600	< 1.2000	< 1.5474	3.1005	1.0000	1.38658	121.11	< 8.000	< 0.40000	20.000
	4013	0.286	7	Nonnormal	15.8343	1.8000	2.6173	24.0241	48.6500	9.08025	151.72	52.500	0.08990	583.982
	4064	0.750	4	Normal	< 2.0625	< 2.1500	< 1.6822	1.3524	2.3250	0.67620	65.57	< 3.250	< 0.70000	4.643
	4067	0.500	4	Normal	< 1.1925	< 0.8350	< 1.0838	0.7391	0.7850	0.36954	61.98	2.300	0.80000	2.875
GROSS BETA	1008	0.167	6	Normal	25.2500	19.2000	9.2829	25.9576	24.7000	10.59716	102.80	72.900	< 0.20000	> 364.500
	1024	0.750	4	Normal	< 0.8375	< 0.7750	< 0.7364	0.4715	0.7750	0.23574	56.30	1.400	< 0.40000	> 3.500
	1025	0.429	7	Normal	23.5929	22.2000	5.0467	25.9077	51.6000	9.79219	109.81	63.900	< 0.10000	> 639.000
	1027	0.000	8	Normal	152.4000	129.0000	135.8520	87.2639	86.9000	30.85243	57.26	345.000	78.00000	4.423
	1031	0.111	9	Nonnormal	135.7670	97.3000	88.8598	155.0297	50.4000	51.67655	114.19	538.000	< 21.00000	> 25.619
	1038	0.250	8	Normal	39.5738	22.2500	10.0470	44.9986	78.3300	15.90939	113.71	109.000	< 0.70000	> 155.714
	1039	1.000	7	Normal	< 3.6543	< 1.2800	< 1.9837	4.0782	6.6000	1.54143	111.60	< 11.000	< 0.60000	18.333
	1042	0.429	7	Normal	9.7643	10.5000	3.4394	9.1060	20.0000	3.44174	93.26	20.900	< 0.30000	> 69.667
	1052	0.250	8	Normal	9.2700	2.4400	3.3854	12.1051	15.9100	4.27979	130.58	31.500	< 0.40000	> 78.750
	1064	0.600	5	Normal	< 4.4160	< 4.0000	< 2.7169	4.2034	2.8200	1.87980	95.18	11.300	< 0.40000	> 28.250
	1074	0.444	9	Nonnormal	61.1669	8.7200	3.5982	156.5995	18.0500	52.19985	256.02	478.000	< 0.02500	>19120.000
without outlier	1074	0.500	8	Normal	< 9.0628	< 4.7950	< 1.9529	10.1336	18.0000	3.58278	111.81	24.700	< 0.02500	> 988.000
	1079	0.286	7	Normal	5.3814	3.3500	2.9912	5.9153	8.3200	2.23578	109.92	16.800	< 0.70000	> 24.000
	1080	0.167	6	Normal	21.2183	19.5500	8.2601	19.7664	35.8900	8.06961	93.16	48.400	< 0.60000	> 80.667
	1081	0.444	9	Nonnormal	68.1500	15.6000	7.1918	159.2401	26.6000	53.08004	233.66	490.000	< 0.30000	> 1633.333
without outlier	1081	0.500	8	Normal	< 15.4188	< 10.8000	< 4.2429	19.4834	21.0500	6.88842	126.36	57.300	< 0.30000	> 191.000

PARAMETER	WELL NUMBER	PROPORTION OF NONDETECTS	N	TYPE OF DISTRIBUTION	MEAN	MEDIAN	GEOMETRIC MEAN	STANDARD DEVIATION	Q3-Q1	STANDARD ERROR OF MEAN	COEFFICIENT OF VARIATION	MAXIMUM VALUE	MINIMUM VALUE	MAX/MIN RATIO
	1082	0.000	9	Normal	266.0670	295.0000	247.0960	90.2723	74.0000	30.09077	33.93	403.000	83.60000	4.821
	1083	0.000	7	Normal	103.4390	100.0000	45.3557	60.0447	84.3000	22.69475	58.05	185.000	0.17300	1069.364
	1085	0.000	7	Normal	2065.7100	2430.0000	1425.7400	1200.9700	2040.0000	453.92390	58.14	3430.000	100.00000	34.300
	1160	0.500	2	Normal	< 5.5000	< 5.5000	< 4.2426	4.9497	7.0000	3.50000	90.00	9.000	< 2.00000	> 4.500
	1229	0.250	4	Normal	13.8750	5.4500	5.6450	20.0821	22.3500	10.04103	144.74	43.800	< 1.60000	> 27.375
	1278	0.250	4	Normal	15.9875	18.8500	9.9393	10.8631	16.1250	5.43158	67.95	25.100	< 2.30000	> 10.913
	1332	0.500	4	Normal	< 35.0250	< 26.4000	< 11.8798	40.5037	65.7500	20.25185	115.64	85.200	< 2.10000	> 40.571
	1523	0.500	4	Normal	< 6.2250	< 3.7000	< 4.0706	6.7114	8.7500	3.35569	107.81	16.000	< 1.50000	> 10.667
	1643	0.250	4	Normal	53.1625	50.0000	20.4853	46.1931	64.6750	23.09657	86.89	112.000	< 1.30000	> 86.154
GROSS BETA	1644	0.000	4	Normal	80.7250	95.7000	53.3409	53.5117	79.5500	26.75585	66.29	124.000	7.50000	16.533
	1645	0.250	4	Normal	102.7380	27.8000	17.1767	168.8148	185.8250	84.40741	164.32	355.000	< 0.70000	> 507.143
without outlier	1645	0.333	3	Normal	18.6500	19.3000	6.2591	17.9838	35.9500	10.38296	96.43	36.300	< 0.70000	> 51.857
	1646	0.000	4	Normal	288.0000	289.0000	287.3690	21.9393	36.0000	10.96966	7.62	311.000	263.00000	1.183
	2008	0.286	7	Normal	14.5821	12.9000	5.4864	12.7300	22.1250	4.81150	87.30	36.800	< 0.20000	> 184.000
	2010	0.333	6	Normal	7.2067	8.0950	3.2132	5.9847	12.4500	2.44322	83.04	13.600	< 0.60000	> 22.667
	2024	0.286	7	Normal	7.4971	6.6500	3.5795	5.9841	13.9500	2.26177	79.82	15.200	< 0.50000	> 30.400
	2027	0.429	7	Normal	6.3404	3.2700	1.4369	8.2109	13.1000	3.10344	129.50	21.600	< 0.02600	> 830.769
	2037	0.500	8	Normal	< 6.8406	< 4.8500	< 2.0215	7.0484	12.9000	2.49198	103.04	17.200	< 0.02500	> 688.000
	2043	0.200	5	Normal	7.5880	7.7700	3.4463	7.7914	5.9300	3.48443	102.68	20.100	< 0.40000	> 50.250
	2051	0.111	9	Normal	10.7150	9.7200	6.3494	8.9804	9.8000	2.99347	83.81	29.600	1.00000	29.600
	2052	0.375	8	Normal	14.1600	5.9150	3.3082	21.3805	18.5250	7.55916	150.99	62.900	< 0.40000	> 157.250
	2055	0.286	7	Normal	4.0000	4.1800	1.8766	3.3981	6.7500	1.28435	84.95	8.750	< 0.30000	> 29.167
	2064	0.333	6	Normal	5.3633	5.1400	2.2550	4.7673	9.5500	1.94624	88.89	11.600	< 0.30000	> 38.667
	2066	0.200	5	Normal	5.5500	4.4500	2.7910	5.0700	7.4000	2.26738	91.35	12.300	< 0.40000	> 30.750
	2070	0.200	5	Normal	15.3960	21.6000	6.7501	11.9430	16.8200	5.34109	77.57	27.800	< 0.40000	> 69.500
	2084	0.125	8	Normal	29.9188	27.0000	17.9287	21.2138	21.0500	7.50021	70.90	70.000	< 0.90000	> 77.778
	2106	0.000	6	Normal	29.3000	30.0000	25.0862	14.6328	21.8000	5.97372	49.94	47.200	7.20000	6.556
	2120	0.500	4	Normal	< 10.9225	< 6.3450	< 4.4835	13.7118	19.1550	6.85592	125.54	30.400	< 0.60000	> 50.667
	2421	0.500	4	Normal	< 2.7425	< 2.6100	< 1.7108	2.4834	4.2850	1.24170	90.55	5.150	< 0.60000	> 8.583
	2643	0.000	7	Normal	91.1286	93.1000	79.5409	42.4133	70.8000	16.03073	46.54	145.000	22.40000	6.473
	2648	0.000	6	Normal	425.6830	523.0000	289.1930	290.4898	609.2000	118.59200	68.24	687.000	62.30000	11.027
	2649	0.000	6	Normal	433.2670	342.0000	243.4130	445.1398	494.6000	181.72760	102.74	1250.000	38.20000	32.723
	2821	0.000	1	Undeterminable	82.1000	82.1000	82.1000	0.0000	0.0000	0.00000	0.00	82.100	82.10000	1.000
	2822	0.000	1	Undeterminable	62.5000	62.5000	62.5000	0.0000	0.0000	0.00000	0.00	62.500	62.50000	1.000
	3001	0.250	8	Normal	6.7446	3.6800	2.1239	7.7452	9.9075	2.73836	114.84	21.200	< 0.02400	> 883.333
	3004	0.000	1	Undeterminable	137.0000	137.0000	137.0000	0.0000	0.0000	0.00000	0.00	137.000	137.00000	1.000
	3008	0.286	7	Normal	4.0607	2.7900	2.2314	3.8673	6.7050	1.46171	95.24	10.900	< 0.40000	> 27.250
	3010	0.143	7	Normal	13.3857	13.4000	7.6447	9.3647	21.1000	3.53953	69.96	24.100	< 0.80000	> 30.125
	3011	0.600	5	Normal	< 3.7480	< 5.6000	< 1.9185	3.1136	5.7000	1.39245	83.07	6.340	< 0.30000	> 21.133
	3024	0.500	6	Normal	< 3.8250	< 1.7650	< 2.0570	4.1734	8.5000	1.70378	109.11	9.220	< 0.50000	> 18.440
	3037	0.500	8	Normal	< 10.5033	< 11.8000	< 3.5835	9.0758	15.8500	3.20879	86.41	24.500	< 0.02600	> 942.308
	3043	0.429	7	Normal	2.9679	2.2900	1.2421	2.8844	5.1900	1.09019	97.19	7.300	< 0.20000	> 36.500
GROSS BETA	3055	0.167	6	Normal	20.6667	22.4500	11.0942	13.8386	14.7000	5.64958	66.96	41.100	< 0.60000	> 68.500
	3064	0.500	6	Normal	< 3.0100	< 3.0000	< 2.1290	2.2083	3.4400	0.90154	73.37	6.100	< 0.40000	> 15.250
	3066	0.429	7	Normal	7.5686	9.2000	4.4368	5.0478	10.4000	1.90787	66.69	< 22.000	< 1.00000	22.000
	3067	0.250	4	Normal	5.7425	5.9600	2.5603	5.0482	8.4150	2.52411	87.91	10.900	< 0.30000	> 36.333
	3069	0.000	6	Nonnormal	6442.8800	12.4000	39.2334	15753.7100	14.1400	6431.42500	244.51	38600.000	4.80000	8041.667
without outlier	3069	0.000	5	Normal	11.4520	8.6000	9.8871	6.8229	9.4400	3.05128	59.58	20.900	4.80000	4.354

4272

108

PARAMETER	WELL NUMBER	PROPORTION OF NONDETECTS	N	TYPE OF DISTRIBUTION	MEAN	MEDIAN	GEOMETRIC MEAN	STANDARD DEVIATION	Q3-Q1	STANDARD ERROR OF MEAN	COEFFICIENT OF VARIATION	MAXIMUM VALUE	MINIMUM VALUE	MAX/MIN RATIO
	3070	0.250	4	Normal	13.0475	8.6450	4.5814	16.2224	20.6050	7.81120	116.67	34.700	< 0.40000	> 86.750
	3084	0.000	8	Normal	2881.9400	309.0000	523.2740	3847.7490	6501.4500	1360.36500	133.51	9090.000	30.40000	299.013
	3106	0.167	6	Normal	5.9033	5.0450	3.5968	4.4935	1.5300	1.83448	76.12	14.000	< 0.40000	> 35.000
	3120	0.333	3	Normal	0.7667	0.8000	0.4820	0.6508	1.3000	0.37565	84.87	1.400	< 0.20000	> 7.000
	3421	0.667	3	Normal	< 4.5667	< 0.8000	< 1.5874	6.8734	12.1000	3.96835	150.51	12.500	< 0.40000	> 31.250
	3821	0.000	1	Undeterminable	13.8000	13.8000	13.8000	0.0000	0.0000	0.00000	0.00	13.800	13.80000	1.000
	4001	0.556	9	Normal	< 3.4360	< 2.7900	< 1.5726	3.5712	2.7300	1.19042	103.94	11.800	< 0.02400	> 491.667
	4008	0.714	7	Normal	< 1.7620	< 1.9000	< 0.7788	1.5832	2.4800	0.59840	89.85	4.230	< 0.02400	> 176.250
	4010	0.500	6	Normal	< 2.9283	< 3.4850	< 1.8934	2.0735	4.4000	0.84649	70.81	5.000	< 0.40000	> 12.500
	4011	0.250	4	Normal	1.1200	1.1150	0.8879	0.7146	0.8900	0.35728	63.80	2.000	< 0.50000	> 4.000
	4013	0.143	7	Normal	13.8443	10.8000	3.7642	14.5405	28.0000	5.49581	105.03	37.900	0.02980	1271.812
	4064	0.400	5	Normal	5.3070	3.3000	2.4791	5.5817	7.6150	2.49621	105.18	13.400	< 0.50000	> 26.800
	4067	0.750	4	Normal	< 1.2750	< 0.7500	< 0.7396	1.4683	1.9500	0.73414	115.16	3.400	< 0.20000	> 17.000
RA-226	1008	0.364	11	Nonnormal	0.8235	0.5000	0.6419	0.7620	0.5000	0.22974	92.52	2.960	0.25000	11.840
	1024	0.571	7	Normal	< 0.3110	< 0.2000	< 0.2518	0.2216	0.3700	0.08374	71.24	0.700	< 0.12000	> 5.833
	1025	0.000	9	Normal	0.8523	0.7000	0.4970	0.4671	0.5030	0.15570	71.61	1.560	0.12100	12.893
	1027	0.556	9	Normal	< 0.4574	< 0.2000	< 0.2945	0.4663	0.4600	0.15542	101.93	1.500	< 0.10000	> 15.000
	1030	1.000	1	Undeterminable	< 1.0000	< 1.0000	< 1.0000	0.0000	0.0000	0.00000	0.00	< 1.000	< 1.00000	1.000
	1031	0.000	12	Normal	2.5881	2.8500	2.2623	1.0531	1.2700	0.30400	40.69	3.950	0.44000	8.977
	1038	0.385	13	Normal	0.5625	0.5000	0.4391	0.3770	0.3000	0.10457	67.03	1.460	< 0.11000	> 13.273
	1039	0.667	12	Normal	< 0.5389	< 0.3800	< 0.4088	0.3736	0.7710	0.10784	69.32	< 1.000	0.10000	< 10.000
	1042	0.000	6	Normal	0.8483	0.6500	0.6004	0.7849	0.7300	0.32044	92.52	2.300	0.20000	11.500
	1052	0.375	8	Normal	0.5506	0.3880	0.2903	0.5250	0.9975	0.18582	95.36	1.300	< 0.08700	> 14.943
	1064	0.200	5	Normal	0.4302	0.5000	0.2903	0.3388	0.3210	0.15154	78.76	0.922	< 0.10000	> 9.220
	1074	0.250	8	Normal	0.5481	0.4080	0.3247	0.6235	0.4235	0.22045	113.76	2.000	< 0.12000	> 16.667
	1079	0.111	9	Normal	0.6047	0.4480	0.3760	0.6022	0.5030	0.20073	99.59	2.000	< 0.10000	> 20.000
	1080	0.000	6	Normal	1.0632	0.9645	0.7944	0.7899	1.2000	0.32247	74.30	2.210	0.24000	9.208
	1081	0.556	9	Normal	< 0.4254	< 0.2400	< 0.2811	0.4159	0.5000	0.13864	97.76	1.290	< 0.09800	> 13.163
	1082	0.444	9	Normal	0.3015	0.1300	0.1926	0.2772	0.5128	0.09239	91.94	0.700	0.08740	8.009
	1083	0.429	7	Normal	0.2970	0.1810	0.1733	0.2742	0.5270	0.10363	92.32	0.667	< 0.09800	> 6.806
RA-226	1085	0.000	5	Normal	0.6024	0.7000	0.4340	0.4326	0.6980	0.19345	71.81	1.100	0.11000	10.000
	1160	0.000	2	Normal	1.1000	1.1000	0.9798	0.7071	1.0000	0.50000	64.28	1.600	0.60000	2.667
	1229	0.000	4	Normal	1.3278	1.4000	1.2805	0.3812	0.5445	0.19062	28.71	1.700	0.81100	2.096
	1276	0.000	4	Normal	1.0873	1.0745	0.8793	0.7053	1.1255	0.35267	64.87	1.900	0.30000	6.333
	1332	0.000	4	Normal	2.5850	2.9000	2.4331	0.9053	1.2700	0.45265	35.02	3.240	1.30000	2.492
	1523	0.000	4	Normal	1.5925	1.2000	1.4356	0.9268	1.0850	0.46338	58.20	2.970	1.00000	2.970
	1643	0.167	6	Normal	0.8867	0.7500	0.8141	0.4200	0.6000	0.17148	47.37	1.600	0.56000	2.857
	1644	0.000	5	Normal	13.2540	16.3000	12.4702	4.7627	7.6700	2.12993	35.93	17.300	7.34000	2.357
	1645	0.250	4	Normal	0.2765	0.2500	0.2021	0.2128	0.3030	0.10639	76.98	0.556	< 0.10000	> 5.560
	1646	0.250	4	Normal	0.2658	0.2000	0.1871	0.2421	0.2815	0.12103	91.08	0.613	< 0.10000	> 6.130
	2008	0.125	8	Normal	0.3663	0.3000	0.2741	0.3184	0.1755	0.11257	86.94	1.100	< 0.11000	> 10.000
	2010	0.125	8	Normal	0.8796	0.7790	0.5628	0.7748	0.7655	0.27395	88.09	2.530	< 0.10000	> 25.300
	2024	0.375	8	Normal	0.3826	0.3103	0.2902	0.2564	0.3425	0.09065	67.02	0.800	< 0.09000	> 8.889
	2027	0.250	12	Normal	1.0138	1.1000	0.8949	0.4964	0.9000	0.14331	48.97	1.780	0.48100	3.701
	2037	0.273	11	Normal	0.7232	0.6550	0.6769	0.2973	0.5000	0.08964	41.11	1.380	0.47000	2.936
	2043	0.000	9	Normal	1.6958	1.8000	1.5031	0.8228	1.5620	0.27426	48.52	2.760	0.72400	3.812
	2051	0.111	9	Normal	0.5126	0.4490	0.4071	0.3150	0.4530	0.10501	61.46	0.969	< 0.15000	> 6.460
	2052	0.125	8	Normal	0.6671	0.6335	0.6200	0.2779	0.3370	0.09826	41.66	1.200	0.37000	3.243

109

PARAMETER	WELL NUMBER	PROPORTION OF NONDETECTS	N	TYPE OF DISTRIBUTION	MEAN	MEDIAN	GEOMETRIC MEAN	STANDARD DEVIATION	Q3-Q1	STANDARD ERROR OF MEAN	COEFFICIENT OF VARIATION	MAXIMUM VALUE	MINIMUM VALUE	MAX/MIN RATIO
	2055	0.000	8	Normal	0.8311	0.7945	0.7105	0.4640	0.3600	0.16404	55.83	1.790	0.19000	9.421
	2064	0.125	8	Normal	0.4540	0.3660	0.3729	0.2714	0.4320	0.09595	59.78	0.869 <	0.19000 >	4.574
	2066	0.125	8	Normal	0.7691	0.6805	0.5310	0.5667	0.8190	0.20035	73.68	1.740	0.13000	13.385
	2070	0.500	6	Normal	< 0.3398	< 0.1950	< 0.2565	0.2842	0.4420	0.11602	83.63	< 0.791	0.10000 <	7.910
	2084	0.000	10	Normal	0.8549	0.7635	0.7206	0.4858	0.7280	0.15363	56.83	1.600	0.25000	6.400
	2106	0.250	4	Normal	0.5400	0.4000	0.3708	0.5070	0.6800	0.25351	93.89	1.260 <	0.20000 >	6.300
	2120	0.333	6	Normal	0.8817	0.5500	0.7588	0.5539	1.0900	0.22613	62.83	1.600	0.50000	3.200
	2421	0.500	4	Normal	< 1.2500	< 1.1500	< 1.2193	0.3317	0.5000	0.16583	26.53	1.700 <	1.00000 >	1.700
	2643	0.143	7	Normal	0.5009	0.3685	0.4569	0.2357	0.4720	0.08909	47.06	0.846	0.30000	2.820
	2648	0.167	6	Normal	0.4803	0.4730	0.3434	0.3480	0.7190	0.14206	72.45	0.917	0.10000	9.170
	2649	0.167	6	Normal	0.4572	0.4395	0.3420	0.2825	0.3550	0.11533	61.79	0.859 <	0.10000 >	8.590
	2821	0.000	1	Undeterminable	0.2000	0.2000	0.2000	0.0000	0.0000	0.00000	0.00	0.200	0.20000	1.000
	2822	1.000	1	Undeterminable	< 0.2000	< 0.2000	< 0.2000	0.0000	0.0000	0.00000	0.00 <	0.200 <	0.20000	1.000
	3001	0.300	10	Normal	0.4592	0.5000	0.3318	0.3115	0.5550	0.09850	67.83 <	1.000	0.10000 <	10.000
	3008	0.583	12	Normal	< 0.6854	< 0.8460	< 0.5426	0.3712	0.7450	0.10715	54.16 <	1.000 <	0.11000	9.091
	3010	0.571	14	Normal	< 0.6262	< 0.6735	< 0.4703	0.3849	0.8000	0.10286	61.46 <	1.000	0.10300 <	9.709
RA-226	3011	0.364	11	Normal	0.6673	0.5000	0.5963	0.3299	0.5000	0.09946	49.44	1.220	0.27200	4.485
	3024	0.545	11	Normal	< 0.7799	< 0.9000	< 0.6791	0.2996	0.3800	0.09035	38.42 <	1.100 <	0.10000	11.000
	3037	0.333	12	Normal	0.8423	0.7510	0.7672	0.4545	0.5000	0.13121	53.96	2.060	0.46000	4.478
	3043	0.286	14	Nonnormal	1.3709	0.5940	0.8546	2.1132	0.7000	0.56478	154.15	8.500	0.50000	17.000
	3055	0.167	12	Normal	0.9725	1.0550	0.8501	0.4522	0.8500	0.13053	46.50	1.600	0.25400	6.299
	3064	0.556	9	Normal	< 0.7694	< 0.9000	< 0.7145	0.2736	0.4100	0.09121	35.56 <	1.000	0.30000 <	3.333
	3066	0.300	10	Normal	0.7926	0.7850	0.6445	0.4668	0.6890	0.14761	58.89	1.400	0.29000	4.828
	3067	0.500	8	Normal	< 0.7594	< 0.9375	< 0.6728	0.3190	0.5000	0.11279	42.01 <	1.000	0.20000 <	5.000
	3069	0.636	11	Normal	< 0.9283	< 1.0000	< 0.6818	0.6222	0.5000	0.18760	67.03	2.400	0.10000	24.000
	3070	0.778	9	Normal	< 0.8486	< 1.0000	< 0.7517	0.3451	0.2630	0.11503	40.67	1.300 <	0.20000 >	6.500
	3084	0.545	11	Normal	< 0.6083	< 0.5010	< 0.4216	0.4856	0.8700	0.14640	79.83	1.600 <	0.10000 >	16.000
	3106	0.583	12	Nonnormal	< 0.7473	< 1.0000	< 0.6689	0.3192	0.5500	0.09214	42.71 <	1.000	0.27000 <	3.704
	3120	0.500	6	Normal	< 0.9408	< 0.8225	< 0.8281	0.5666	0.5000	0.23130	60.22	2.000	0.50000	4.000
	3421	0.333	3	Normal	0.7667	0.5000	0.6542	0.5508	1.0000	0.31798	71.84	1.400	0.40000	3.500
	3821	1.000	1	Undeterminable	< 0.1000	< 0.1000	< 0.1000	0.0000	0.0000	0.00000	0.00 <	0.100 <	0.10000	1.000
	4001	0.583	12	Nonnormal	< 0.5928	< 0.2750	< 0.3660	0.6441	0.8150	0.18594	108.66	2.290 <	0.09700 >	23.608
without outlier	4001	0.636	11	Normal	< 0.2547	< 0.2000	< 0.1993	0.1723	0.4000	0.05194	67.64 <	1.000 <	0.09700	10.309
	4008	0.727	11	Normal	< 0.5006	< 0.4000	< 0.3407	0.3954	0.8700	0.11920	78.97 <	1.000 <	0.09800	10.204
	4010	0.364	11	Normal	0.4498	0.5000	0.3782	0.2285	0.3180	0.06891	50.81 <	1.000 <	0.15000	6.667
	4011	0.167	6	Normal	0.6212	0.4000	0.5081	0.4368	0.8500	0.17834	70.33	1.200	0.27700	4.332
	4013	0.400	10	Normal	0.4313	0.4090	0.3616	0.2310	0.2100	0.07304	53.56 <	1.000 <	0.13000	7.692
	4064	0.500	6	Normal	< 0.6567	< 0.7000	< 0.5406	0.3961	0.7000	0.16169	60.31 <	1.040	0.20000 <	5.200
	4067	0.400	5	Normal	0.4230	0.4000	0.3882	0.1901	0.1850	0.08502	44.95 <	1.000	0.20000 <	5.000
RA-228	1008	0.636	11	Normal	< 2.2127	< 2.5200	< 1.9482	0.9332	1.9000	0.28137	42.17 <	3.000 <	0.51000	5.882
	1024	0.818	11	Normal	< 2.8000	< 1.6000	< 1.6016	3.0560	2.5300	0.92143	109.14 <	10.800 <	0.13000	83.077
	1025	0.692	13	Nonnormal	< 4.3608	< 2.3400	< 2.4317	5.6105	1.4500	1.55606	128.66 <	17.000	0.40000 <	42.500
	1027	0.833	12	Normal	< 1.8136	< 1.1000	< 1.2724	1.5568	2.3685	0.44942	85.84 <	5.500 <	0.30000	18.333
	1030	1.000	1	Undeterminable	< 3.0000	< 3.0000	< 3.0000	0.0000	0.0000	0.00000	0.00 <	3.000 <	3.00000	1.000
	1031	0.750	12	Normal	< 2.0533	< 2.5000	< 1.5856	1.2353	2.1700	0.35660	60.16 <	3.460 <	0.30000	11.533
	1038	0.692	13	Normal	< 2.1355	< 2.9000	< 1.8089	1.1026	1.9000	0.30580	51.63 <	3.720 <	0.48000	7.750
	1039	0.667	12	Normal	< 2.7276	< 3.0000	< 1.9938	2.2106	1.6600	0.63816	81.05	8.880 <	0.30000 >	29.600
	1042	0.800	10	Normal	< 1.9510	< 2.2550	< 1.4346	1.2376	2.2000	0.39135	63.43 <	3.400	0.30000 <	11.333

4272

110

PARAMETER	WELL NUMBER	PROPORTION OF NONDETECTS	N	TYPE OF DISTRIBUTION		MEAN		MEDIAN		GEOMETRIC MEAN	STANDARD DEVIATION	Q3-Q1	STANDARD ERROR OF MEAN	COEFFICIENT OF VARIATION		MAXIMUM VALUE		MINIMUM VALUE		MAX/MIN RATIO
	1052	0.667	12	Nonnormal	<	2.7533	<	2.6500	<	1.9667	2.5840	1.8500	0.74017	93.12	<	10.100		0.30000	<	33.667
	1064	0.500	6	Nonnormal	<	4.1667	<	2.0500	<	2.1117	5.9166	1.5000	2.41546	142.00		16.100	<	0.30000	>	53.667
without outlier	1064	0.600	5	Normal	<	1.3000	<	1.5000	<	0.9281	0.8711	0.9500	0.38955	67.00		2.400	<	0.30000	>	8.000
RA-228	1074	0.769	13	Nonnormal	<	4.7592	<	3.0000	<	2.3746	8.5825	2.5000	2.38036	180.33	<	33.000	<	0.30000		110.000
without outlier	1074	0.750	12	Normal	<	1.5917	<	1.5000	<	1.1339	1.1821	1.5250	0.34124	74.27		3.830	<	0.30000	>	12.767
	1079	0.692	13	Normal	<	2.1800	<	2.7000	<	1.6141	1.4278	2.0000	0.39599	65.49	<	5.140		0.30000	<	17.133
	1080	0.727	11	Normal	<	2.4609	<	2.9600	<	2.2820	0.9304	1.4000	0.28053	37.81	<	4.110	<	1.10000		3.736
	1081	0.769	13	Nonnormal	<	3.1938	<	2.0000	<	2.3437	3.8632	1.4000	1.07147	120.96	<	15.800	<	0.96000		16.458
	1082	0.571	14	Normal	<	2.4850	<	2.9300	<	2.1542	0.9944	1.0000	0.26575	40.01	<	3.760	<	0.40000		9.400
	1083	0.833	12	Nonnormal	<	4.0767	<	3.0000	<	2.1889	6.4113	1.8350	1.85078	157.27	<	24.000	<	0.30000		80.000
	1085	0.667	6	Normal	<	1.6000	<	1.6500	<	1.2893	0.9423	1.2000	0.38471	58.90	<	3.000	<	0.30000		10.000
	1160	0.000	2	Normal		0.9000		0.9000		0.8944	0.1414	0.2000	0.10000	15.71		1.000		0.80000		1.250
	1229	0.000	3	Normal		3.7000		2.8000		3.0018	2.8583	5.5000	1.65025	77.25		6.900		1.40000		4.929
	1276	0.000	3	Normal		2.2667		2.3000		2.2205	0.5508	1.1000	0.31798	24.30		2.800		1.70000		1.647
	1332	0.500	4	Normal	<	2.3275	<	2.4500	<	2.0600	1.1649	1.8550	0.58246	50.05	<	3.510	<	0.90000		3.900
	1523	0.750	4	Normal	<	1.7100	<	1.5700	<	1.0967	1.5298	2.6200	0.76492	89.46		3.300	<	0.40000	>	8.250
	1643	0.333	6	Normal		2.0950		1.8450		1.9665	0.9161	0.6000	0.37400	43.73		3.880		1.40000		2.771
	1644	0.200	5	Normal		1.6350		1.5950		1.5971	0.3815	0.3800	0.17063	23.34	<	3.190		1.10000	<	2.900
	1645	0.333	3	Normal		0.8333		0.6000		0.4762	0.8737	1.7000	0.50443	104.84		1.800	<	0.20000	>	9.000
	1646	0.333	3	Normal		0.4500		0.4000		0.3634	0.3279	0.6500	0.18930	72.86		0.800	<	0.30000	>	2.667
	2008	0.846	13	Normal	<	2.0692	<	2.2700	<	1.6557	1.0420	1.8000	0.28900	50.36	<	3.200	<	0.30000		10.667
	2010	0.750	12	Nonnormal	<	3.7758	<	3.0000	<	3.1039	3.1317	1.1600	0.90405	82.94	<	13.000	<	1.30000		10.000
	2024	0.750	12	Normal	<	2.3492	<	2.9500	<	1.9700	1.0546	1.2500	0.30443	44.89	<	3.720		0.30000	<	12.400
	2027	0.692	13	Normal	<	2.3685	<	3.0000	<	1.8554	1.4454	1.8000	0.40089	61.03	<	5.580		0.40000	<	13.950
	2037	0.727	11	Normal	<	2.2309	<	1.7000	<	1.9212	1.2624	1.9000	0.38062	56.58	<	4.760		0.90000	<	5.289
	2043	0.615	13	Normal	<	2.2092	<	2.3500	<	1.7302	1.3578	2.0500	0.37652	61.45	<	4.800	<	0.30000		16.000
	2051	0.615	13	Normal	<	2.1760	<	2.4100	<	1.9565	0.8621	1.3900	0.23910	39.62	<	3.100	<	0.56800		5.458
	2052	0.600	10	Normal	<	2.7980	<	2.4950	<	2.4166	1.6304	1.8900	0.51558	58.27		5.900		1.10000		5.364
	2055	0.600	10	Normal	<	2.5480	<	2.5000	<	2.2185	1.3004	2.4400	0.41123	51.04		4.300		1.00000		4.300
	2064	0.750	12	Normal	<	2.0833	<	2.2500	<	1.5253	1.2523	1.7300	0.36149	60.11	<	4.120	<	0.12000		34.333
	2066	0.750	12	Normal	<	2.2125	<	2.5000	<	1.9291	0.9768	1.5450	0.28198	44.15	<	3.240	<	0.40000		8.100
	2070	0.636	11	Normal	<	2.6673	<	3.0000	<	2.3547	1.4348	1.6000	0.43261	53.79		6.200		1.10000		5.636
	2084	0.615	13	Normal	<	2.4131	<	2.7000	<	2.3002	0.7397	1.1100	0.20514	30.65		3.700	<	1.20000	>	3.083
	2106	0.667	12	Normal	<	2.5275	<	3.0000	<	2.2458	1.1142	1.5650	0.32166	44.08	<	4.560		0.90000	<	5.067
	2120	0.500	6	Normal	<	2.3450	<	2.4850	<	2.2488	0.6863	1.2000	0.28016	29.26	<	3.000		1.30000	<	2.308
	2421	0.500	4	Normal	<	1.9750	<	2.1500	<	1.6277	1.2176	2.0500	0.60879	61.65	<	3.000		0.60000	<	5.000
	2643	0.167	6	Normal		1.7440		1.8500		1.6512	0.5996	1.0300	0.24479	34.38		2.400		0.99400		2.414
RA-228	2648	0.167	6	Normal		1.6417		1.1500		1.2205	1.3349	1.4600	0.54496	81.31		3.990		0.30000		13.300
	2649	0.000	5	Normal		1.8040		1.9000		1.7024	0.6614	0.7400	0.29580	36.66		2.700		1.00000		2.700
	2821	1.000	1	Undeterminable	<	0.3000	<	0.3000	<	0.3000	0.0000	0.0000	0.00000	0.00	<	0.300	<	0.30000		1.000
	2822	0.000	1	Undeterminable		1.8000		1.8000		1.8000	0.0000	0.0000	0.00000	0.00		1.800		1.80000		1.000
	3001	0.667	9	Normal	<	1.8733	<	1.7700	<	1.3951	1.1701	2.0100	0.39005	62.46	<	3.440	<	0.20000		17.200
	3008	0.667	12	Normal	<	3.2525	<	3.0000	<	3.0766	1.1892	1.1500	0.34330	36.56		6.200	<	1.80000	>	3.444
	3010	0.643	14	Normal	<	2.9543	<	3.0000	<	2.4487	2.0152	1.7000	0.53860	68.21		8.700	<	0.88000	>	9.886
	3011	0.727	11	Normal	<	1.8918	<	2.0000	<	1.4370	1.0931	1.9000	0.32959	57.78	<	3.000	<	0.23000		13.043
	3024	0.636	11	Normal	<	2.5118	<	3.0000	<	2.0504	1.4040	1.9000	0.42331	55.89	<	5.000		0.40000	<	12.500
	3037	0.455	11	Normal		2.1641		1.7850		1.8755	1.1866	1.0500	0.35778	54.83		4.330		0.50000		8.660
	3043	0.714	14	Normal	<	2.2019	<	2.3300	<	1.8214	1.1499	1.7000	0.30732	52.22	<	3.800		0.37600	<	10.106

PARAMETER	WELL NUMBER	PROPORTION OF NONDETECTS	N	TYPE OF DISTRIBUTION	MEAN	MEDIAN	GEOMETRIC MEAN	STANDARD DEVIATION	Q3-Q1	STANDARD ERROR OF MEAN	COEFFICIENT OF VARIATION	MAXIMUM VALUE	MINIMUM VALUE	MAX/MIN RATIO
	3055	0.636	11	Normal	< 2.0609	< 2.3000	< 1.7209	0.9872	1.9300	0.29765	47.90	< 3.000	< 0.30000	10.000
	3064	0.667	9	Normal	< 2.4311	< 3.0000	< 2.2172	0.9277	1.3100	0.30924	38.16	3.200	0.90000	3.556
	3066	0.750	12	Normal	< 2.1817	< 2.7250	< 1.9133	0.9752	1.9000	0.28152	44.70	< 3.000	0.60000	< 5.000
	3067	0.625	8	Normal	< 2.3088	< 2.8850	< 2.1022	0.9197	1.6500	0.32515	39.83	< 3.000	1.00000	< 3.000
	3069	0.727	11	Normal	< 2.3955	< 2.9900	< 2.0889	0.8857	1.1000	0.26706	36.98	< 3.000	< 0.30000	10.000
	3070	0.667	9	Nonnormal	< 3.9211	< 3.0000	< 3.0975	3.3222	0.0000	1.10739	84.73	12.300	0.80000	15.375
without outlier	3070	0.750	8	Normal	< 1.6244	< 1.5000	< 1.5502	0.5138	0.3500	0.18157	31.62	< 4.990	0.80000	< 6.238
	3084	0.583	12	Normal	< 2.4042	< 2.7800	< 2.1972	0.9128	1.2500	0.26351	37.97	< 3.500	0.90000	< 3.889
	3106	0.750	12	Nonnormal	< 3.0425	< 3.0000	< 2.3591	2.3585	1.1500	0.68083	77.52	9.910	< 0.30000	> 33.033
	3120	0.667	6	Normal	< 2.1733	< 3.0000	< 1.4878	1.4154	2.7000	0.57785	65.13	< 3.240	< 0.30000	10.800
	3421	0.000	2	Normal	0.7500	0.7500	0.6000	0.6364	0.9000	0.45000	84.85	1.200	0.30000	4.000
	3821	0.000	1	Undeterminable	2.7000	2.7000	2.7000	0.0000	0.0000	0.00000	0.00	2.700	2.70000	1.000
	4001	0.800	10	Normal	< 1.8930	< 1.5500	< 1.5739	1.0001	1.6000	0.31627	52.83	< 3.000	< 0.30000	10.000
	4008	0.727	11	Normal	< 3.4900	< 3.0000	< 2.5034	3.3052	2.7000	0.99655	94.70	12.200	< 0.79000	> 15.443
without outlier	4008	0.800	10	Normal	< 1.5295	< 1.5250	< 1.2272	0.9188	1.4000	0.29054	60.07	< 6.400	< 0.79000	8.101
	4010	0.545	11	Normal	< 2.4709	< 2.5200	< 1.8969	1.8917	2.0000	0.57036	76.56	< 7.010	0.50000	< 14.020
	4011	0.600	5	Normal	< 1.2800	< 1.1000	< 0.9793	1.0354	0.6000	0.46303	80.89	< 3.000	< 0.30000	10.000
	4013	0.600	10	Normal	< 2.7890	< 2.7500	< 2.5475	1.2804	0.9000	0.40491	45.91	5.800	1.16000	5.000
	4064	0.667	6	Normal	< 2.0017	< 2.6550	< 1.3986	1.3074	2.6000	0.53373	65.31	< 3.000	< 0.30000	10.000
	4067	0.600	5	Normal	< 1.4940	< 1.3000	< 1.0675	1.1712	1.8700	0.52377	78.39	< 3.000	< 0.30000	10.000
	1008	0.200	10	Normal	8.4550	7.0500	5.0613	8.7034	4.6000	2.75228	102.94	31.100	< 0.50000	> 62.200
	1024	0.313	16	Nonnormal	1.1530	0.8000	0.8980	0.9574	0.9500	0.23935	83.04	4.000	0.50000	8.000
	1025	0.056	18	Nonnormal	8.8500	7.4500	7.7714	6.6678	3.3000	1.57161	75.34	34.500	4.60000	7.500
	1027	0.118	17	Normal	240.0590	203.0000	70.8594	200.1244	213.0000	48.53730	83.36	727.000	1.00000	727.000
U-TOTAL	1028	0.500	2	Normal	< 69.0000	< 69.0000	< 68.9928	1.4142	2.0000	1.00000	2.05	< 70.000	68.00000	< 1.029
	1030	0.500	2	Normal	< 15.5000	< 15.5000	< 5.4772	20.5061	29.0000	14.50000	132.30	30.000	< 1.00000	> 30.000
	1031	0.000	15	Nonnormal	17.2400	12.7000	13.3742	14.9045	9.3000	3.84834	86.45	63.100	3.00000	21.033
	1038	0.111	18	Normal	6.0433	5.0500	5.4007	3.0864	3.7000	0.72746	51.07	12.600	3.70000	3.405
	1039	0.182	11	Normal	1.1238	1.3600	0.9588	0.4956	0.4000	0.14944	44.11	1.800	< 0.50000	> 3.600
	1042	0.083	12	Normal	19.1583	20.5000	16.1948	9.3634	15.8500	2.70299	48.87	30.000	6.00000	5.000
	1052	0.125	16	Nonnormal	3.8719	2.7000	2.8052	3.4175	3.0500	0.85438	88.26	12.400	< 1.00000	> 12.400
	1064	0.125	8	Normal	5.6900	5.3500	5.5456	1.4819	0.8000	0.52394	26.04	< 9.900	3.92000	< 2.526
	1074	0.059	17	Normal	3.4588	3.1000	3.1428	1.5977	1.4000	0.38749	46.19	7.000	1.20000	5.833
	1079	0.111	18	Normal	2.1211	2.0000	1.8848	0.8725	1.2000	0.20565	41.13	4.200	< 0.50000	> 8.400
	1080	0.125	16	Normal	4.8813	4.2500	4.3921	1.6940	3.0000	0.42350	36.19	7.300	2.50000	2.920
	1081	0.059	17	Nonnormal	30.3882	19.0000	23.2463	25.5528	15.3000	6.19747	84.09	94.000	3.40000	27.647
	1082	0.167	18	Nonnormal	623.5360	628.5000	415.1350	237.6887	135.5000	56.01904	38.12	< 1437.000	< 0.50000	2874.000
without outlier	1082	0.118	17	Nonnormal	660.2000	632.0000	642.1190	185.2247	122.0000	44.92359	28.06	< 1437.000	465.00000	< 3.090
	1083	0.063	16	Normal	92.2500	94.1500	89.9931	20.7389	31.5000	5.18473	22.48	128.000	66.00000	1.939
	1085	0.000	9	Normal	4089.3300	4330.0000	1938.2500	2255.7590	1770.0000	751.91970	55.16	7230.000	4.00000	1807.500
	1160	0.667	3	Nonnormal	< 6.0000	< 0.5000	< 1.6198	9.5263	16.5000	5.50000	158.77	17.000	< 0.50000	> 34.000
without outlier	1160	1.000	2	Undeterminable	< 0.2500	< 0.2500	< 0.2500	0.0000	0.0000	0.00000	0.00	< 0.500	< 0.50000	1.000
	1229	0.000	5	Normal	19.2400	11.6000	11.7849	22.0774	1.7000	9.87333	114.75	58.000	2.30000	25.217
without outlier	1229	0.000	4	Normal	9.5500	11.4500	7.9123	4.8898	5.5000	2.44489	51.20	13.000	2.30000	5.652
	1276	0.000	5	Normal	19.2000	16.0000	16.8210	11.6775	1.7000	5.22236	60.82	39.000	7.90000	4.937
	1332	0.000	5	Normal	6.6400	3.2000	4.0759	6.3705	8.9000	2.84897	95.94	16.200	0.70000	23.143
	1523	0.000	5	Normal	14.5600	12.6000	12.5628	7.6976	10.9000	3.44247	52.87	22.600	4.50000	5.022
	1643	0.000	7	Normal	173.8570	162.0000	98.4567	114.3757	92.0000	43.22997	65.79	383.000	2.00000	191.500

4728

112

PARAMETER	WELL NUMBER	PROPORTION OF NONDETECTS	N	TYPE OF DISTRIBUTION	MEAN	MEDIAN	GEOMETRIC MEAN	STANDARD DEVIATION	Q3-Q1	STANDARD ERROR OF MEAN	COEFFICIENT OF VARIATION	MAXIMUM VALUE	MINIMUM VALUE	MAX/MIN RATIO
	1844	0.143	7	Normal	133.6280	118.0000	126.0560	52.7321	87.8000	19.93084	39.46	230.000	87.70000	2.623
	1845	0.000	6	Normal	29.8500	29.9500	28.7897	8.6137	8.9000	3.51651	28.86	43.300	18.00000	2.406
	1846	0.000	6	Normal	935.5000	758.5000	862.3620	463.9404	330.0000	189.40290	49.59	1830.000	556.00000	3.291
	2008	0.143	14	Normal	15.5571	16.4000	14.6880	4.6397	4.9000	1.24003	29.82	< 25.400	5.00000	< 5.080
	2010	0.083	16	Normal	11.7500	12.5000	9.6722	6.2780	9.5000	1.56950	53.43	21.000	2.00000	10.500
	2024	0.133	15	Normal	9.1333	7.8000	7.2988	5.7862	8.6000	1.48884	63.13	23.000	< 2.00000	> 11.500
	2027	0.167	18	Nonnormal	27.5000	7.3500	8.8388	76.1394	5.4000	17.94623	276.87	330.000	2.10000	157.143
without outlier	2027	0.176	17	Nonnormal	9.7059	7.0000	7.1436	10.1966	4.9000	2.47304	105.06	46.000	2.10000	21.905
	2037	0.059	17	Normal	5.8824	6.0000	4.7727	3.2129	4.1000	0.77925	54.62	13.000	< 1.00000	> 13.000
U-TOTAL	2043	0.353	17	Nonnormal	1.7494	0.7000	0.8296	3.6166	0.5000	0.87715	206.73	15.500	0.30000	51.667
without outlier	2043	0.375	16	Nonnormal	0.8900	0.6500	0.6909	0.7474	0.5000	0.18685	83.98	2.740	0.30000	9.133
	2051	0.235	17	Normal	1.4000	1.0000	1.1082	0.8542	1.1000	0.20718	61.02	3.000	< 0.50000	> 6.000
	2052	0.231	13	Normal	8.4369	8.2300	5.7953	5.7529	3.6000	1.59557	68.19	23.200	< 1.00000	> 23.200
	2055	0.071	14	Normal	3.2621	3.4950	2.8854	1.4797	1.9000	0.39548	45.36	5.700	0.90000	6.333
	2064	0.333	12	Normal	1.8250	1.2000	1.1683	1.6525	2.3000	0.47703	90.55	4.900	< 0.50000	> 9.800
	2066	0.722	18	Nonnormal	< 0.9870	< 0.8830	< 0.6716	1.0247	0.6000	0.24154	103.82	< 4.200	0.10000	< 42.000
	2070	0.364	11	Normal	1.4409	1.0000	1.0021	1.3786	1.3000	0.41565	95.67	4.900	< 0.50000	> 9.800
	2084	0.167	18	Normal	18.2944	18.2000	17.2637	6.4492	6.3000	1.52009	35.25	32.000	12.00000	2.667
	2106	0.083	12	Normal	55.7917	54.8000	51.6426	19.4147	17.8500	5.60455	34.80	88.600	16.00000	5.537
	2120	0.167	6	Normal	11.2750	10.7000	11.0399	2.6378	2.9000	1.07686	23.39	< 17.300	9.40000	< 1.840
	2421	0.750	4	Normal	< 0.7500	< 0.8000	< 0.6999	0.3000	0.5000	0.15000	40.00	< 1.000	< 0.40000	2.500
	2643	0.000	9	Normal	9.0000	8.9000	7.7886	4.1551	2.6000	1.38504	46.17	15.400	1.70000	9.059
	2648	0.000	8	Normal	15.9750	15.4000	15.0076	6.0937	9.5000	2.15446	38.15	27.000	9.60000	2.813
	2649	0.000	8	Normal	7.8375	7.6500	7.7872	0.9561	1.6000	0.33803	12.20	9.300	6.70000	1.388
	2821	0.000	1	Undeterminable	32.0000	32.0000	32.0000	0.0000	0.0000	0.00000	0.00	32.000	32.00000	1.000
	2822	0.000	1	Undeterminable	60.9000	60.9000	60.9000	0.0000	0.0000	0.00000	0.00	60.900	60.90000	1.000
	3001	0.200	15	Normal	12.4281	15.0000	5.5153	9.5725	19.8000	2.47161	77.02	25.000	0.50000	50.000
	3004	0.000	1	Undeterminable	18.7000	18.7000	18.7000	0.0000	0.0000	0.00000	0.00	18.700	18.70000	1.000
	3008	0.250	16	Nonnormal	1.7075	1.0000	1.0531	1.9566	1.5500	0.48914	114.59	7.700	0.10000	77.000
	3010	0.111	18	Normal	11.4939	11.8000	10.7001	4.0191	5.5000	0.94730	34.97	20.000	3.60000	5.556
	3011	0.417	12	Normal	1.3833	0.5000	0.8522	1.3816	1.5500	0.39883	99.87	4.200	0.10000	42.000
	3024	0.533	15	Nonnormal	< 2.5228	< 1.0000	< 1.1964	3.7673	2.2000	0.97270	149.33	14.000	0.20000	70.000
	3037	0.067	15	Nonnormal	4.4867	1.6000	1.9801	8.7709	2.1000	2.26463	195.49	35.000	0.60000	58.333
without outlier	3037	0.071	14	Nonnormal	2.3071	1.5500	1.6128	2.4718	1.0000	0.66062	107.14	9.400	0.60000	15.667
	3043	0.556	18	Nonnormal	< 1.2889	< 1.0000	< 0.7334	1.4716	0.5000	0.34687	114.18	5.700	0.10000	57.000
	3055	0.647	17	Nonnormal	< 1.2235	< 1.0000	< 0.9867	0.9737	0.1000	0.23617	79.58	< 4.200	0.30000	< 14.000
	3064	0.727	11	Nonnormal	< 1.0682	< 1.0000	< 0.7592	1.0868	0.5000	0.32768	101.74	< 4.200	0.10000	< 42.000
	3066	0.529	17	Nonnormal	< 1.2353	< 1.0000	< 1.0882	0.7062	0.2000	0.17127	57.17	2.900	< 0.50000	> 5.800
	3067	0.545	11	Nonnormal	< 1.4000	< 1.0000	< 0.9729	1.4581	0.5000	0.43963	104.15	4.400	0.40000	11.000
	3069	0.231	13	Normal	14.3308	5.0000	5.8005	14.9653	21.4000	4.15062	104.43	41.000	< 1.00000	> 41.000
	3070	0.636	11	Normal	< 1.5909	< 1.0000	< 1.1687	1.3960	1.5000	0.42092	87.75	< 4.200	0.50000	< 8.400
	3084	0.056	18	Nonnormal	3926.7890	106.5000	305.2690	6859.7210	9150.0000	1616.85200	174.69	22500.000	21.00000	1071.429
	3106	0.182	11	Nonnormal	1.7091	1.2000	1.3929	1.5300	0.4000	0.46131	89.52	6.200	< 1.00000	> 6.200
without outlier	3106	0.200	10	Normal	1.2600	1.2000	1.1997	0.3688	0.2000	0.11662	29.27	1.900	< 1.00000	> 1.900
U-TOTAL	3120	0.833	6	Normal	< 2.7483	< 1.3000	< 1.5634	3.2217	3.7000	1.31525	117.22	8.690	< 0.50000	> 17.380
without outlier	3120	1.000	5	Normal	< 0.7800	< 0.5000	< 0.5547	0.7718	0.5500	0.34518	98.95	< 4.200	< 0.50000	8.400
	3421	0.333	3	Normal	0.8833	0.7000	0.8676	0.7422	1.4500	0.42850	84.02	1.700	< 0.50000	> 3.400
	3821	0.000	1	Undeterminable	10.9000	10.9000	10.9000	0.0000	0.0000	0.00000	0.00	10.900	10.90000	1.000

1/3

PARAMETER	WELL NUMBER	PROPORTION OF NONDETECTS	N	TYPE OF DISTRIBUTION		MEAN		MEDIAN		GEOMETRIC MEAN	STANDARD DEVIATION	Q3-Q1	STANDARD ERROR OF MEAN	COEFFICIENT OF VARIATION		MAXIMUM VALUE		MINIMUM VALUE		MAX/MIN RATIO
	4001	0.625	16	Normal	<	1.0813	<	1.0000	<	0.8803	0.6784	0.2500	0.16961	62.75		2.500		0.10000		25.000
	4008	0.588	17	Nonnormal	<	1.0941	<	1.0000	<	0.8920	0.8511	0.2000	0.20642	77.78		4.000		0.20000		20.000
	4010	0.600	15	Nonnormal	<	1.6897	<	1.0000	<	1.1884	1.7595	2.0000	0.45430	104.13		6.800		0.40000		17.000
	4011	0.375	8	Normal		1.7436		1.4000		0.9553	1.7358	2.1250	0.61371	99.56		5.300	<	0.19720	>	26.876
	4013	0.083	12	Nonnormal		22.1833		4.0000		6.1865	31.7949	37.0500	9.17841	143.33		86.000		0.90000		95.556
	4084	0.286	7	Normal		1.0243		1.0200		0.8083	0.6769	1.3000	0.25583	66.08		2.000		0.40000		5.000
	4087	0.571	7	Normal	<	0.5429	<	0.5000	<	0.4507	0.3309	0.7000	0.12509	60.96	<	1.000		0.20000	<	5.000