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Field Office, Albuquerque
Kirtland Area Office
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AUG 3 0 1996

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. David Neleigh, Section Chief
New Mexico Federal Facilities Section
Multimedia Planning and Permitting Division
U.S. Environmental Protection Agency, Region 6
1445 Ross Avenue, Mail Stop 6PD-N
Dallas, Texas 75202-2733

Dear Mr. Neleigh:

Enclosed are two copies of the Report of the Mixed Waste Landfill Phase 2 RCRA Facility Investigation for Sandia National Laboratories, New Mexico (SNL/NM), EPA ID Number NM5890110518. This satisfies the requirements of Module IV of the DOE/SNL RCRA permit.

Upon your review please contact Mark Jackson at (505) 845-6288 to arrange a meeting to resolve any potential open issues.

Sincerely,

Brenda J. Harmeson
for Michael J. Zamorski
Acting Area Manager

Enclosures

Certification Statement for Approval and Final Release of Documents

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Document title and author: Report of the Mixed Waste Landfill Phase 2 RCRA Facility Investigation, SNL, Albuquerque, NM

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REPORT OF THE MIXED WASTE LANDFILL PHASE 2 RCRA FACILITY INVESTIGATION SANDIA NATIONAL LABORATORIES ALBUQUERQUE, NEW MEXICO

September 1996

Environmental
Restoration
Project

United States Department of Energy
Albuquerque Operations Office

REPORT OF THE MIXED WASTE LANDFILL PHASE 2 RCRA FACILITY INVESTIGATION SANDIA NATIONAL LABORATORIES, ALBUQUERQUE, NEW MEXICO

September 1996

Sandia National Laboratories
Department 7585: Environmental Restoration
for Landfills and Test Areas
Albuquerque, New Mexico 87185
for the United States Department of Energy
under contract DE-AC04-94AL85000

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ACRONYMS AND ABBREVIATIONS

ASTM	American Society for Testing and Materials
BH	borehole
BTEX	benzene, toluene, ethylbenzene, xylene
CLP	Contract Laboratory Program
C_n	Critical Number
CEC	cation exchange capacity
COC	contaminant of concern
CWL	Chemical Waste Landfill
DAC	Derived Air Concentration
DOE	U.S. Department of Energy
EDE	effective dose equivalent
EIFC	emission isolation flux chamber
EPA	U.S. Environmental Protection Agency
ER	Environmental Restoration
FID	flame ionization detector
FOP	field operating procedure
GC/MS	gas chromatography/mass spectrometry
Ge	germanium
GM	Geiger Müeller
GR	gamma ray
HEAST	Health Effects Assessment Summary Tables
HI	hazard index
HSWA	Hazardous and Solid Waste Amendments
ICP	Inductively Coupled Plasma
IP	Instantaneous Profile
IRIS	Integrated Risk Information System
IT	International Technology Corporation
KAFB	Kirtland Air Force Base
KUMSC	Kirtland Underground Munitions Storage Complex
LLOQ	lower limit of quantitation
MCL	maximum concentration limit
MDA	Minimum detectable activity
MODFLOW	USGS Modular Three-Dimensional Groundwater Flow Model
MWL	Mixed Waste Landfill
NESHAP	National Emission Standards for Hazardous Air Pollutants
NMED	New Mexico Environment Department
NPDES	National Pollutant Discharge Elimination System
NTU	nephelometric turbidity units
OU	operable unit
PID	photoionization detector
PIP	Project Implementation Plan
PM_{10}	Particulate Monitor (10 micron)
PQL	practical quantitation limit
Précis	Probabilistic Risk Evaluation and Characterization Investigation System
QA/QC	Quality Assurance/Quality Control
RAGS	Risk Assessment Guidance for Superfund
RCRA	Resource Conservation and Recovery Act
RETC	Retention Curve Code
RFD	reference dose
RFI	RCRA Facility Investigation
RME	Reasonable Maximum Exposure

ACRONYMS AND ABBREVIATIONS (Continued)

RPD	relative percent difference
SNL,NM	Sandia National Laboratories, New Mexico
SVOC	semi-volatile organic compound
SWHC	Site-Wide Hydrogeologic Characterization
SWMU	Solid Waste Management Unit
TA	technical area
TAL	target analyte list
TCE	trichloroethylene
ULOQ	upper limit of quantitation
USAF	U.S. Air Force
USGS	U.S. Geological Survey
UTL	upper tolerance limit
VOC	volatile organic compound
WRS	Wilcoxan Rank Sum
bgs	below ground surface
°C	degrees Celsius
Ci	curie
cm	centimeter
E_H	Redox Potential
famsl	feet above mean sea level
fbgs	feet below ground surface
ft	foot
g	gram
gal	gallon
in.	inch
K_{sat}	saturated hydraulic conductivity
m	meter
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
mi	mile
mm	millimeter
mmho/cm	micromhos per centimeter
mph	miles per hour
mrem/yr	millirem per year
mS/m	milliSiemens per meter
mV	millivolt
$ng/m^2/hr$	nanograms per square meter per hour
$ng/m^2/min$	nanograms per square meter per minute
pCi/g	picocuries per gram
pCi/L	Picocuries per liter
$pCi/m^2/hr$	picocuries per square meter per hour
ppbv	parts per billion by volume
ppmv	parts per million by volume
ppt	parts per thousand
s	second
$\mu Ci/m^3$	microcuries per cubic meter
µg/kg	microgram per kilogram
µg/L	microgram per liter
yr	year

Conversion Factors For Selected SI (Metric) Units

Multiply U.S. Customary Unit	**By**	**To Obtain SI (Metric) Unit**
Inches (in.)	2.54	Centimeters (cm)
Feet (ft)	0.304	Meters (m)
Miles (mi)	1.6	Kilometers (km)
Square feet (ft^2)	0.093	Square meters (m^2)
Acres	0.4	Hectares (ha)
Cubic feet (ft^3)	0.028	Cubic Meters (m^3)
Gallons (G)	3.8	Liters (L)
Ounces (oz)	28.6	Grams (g)
Pounds (lbs)	0.45	Kilograms (kg)
Parts per billion (ppb)	1	Micrograms per kilogram (µg/kg)
Parts per million (ppm)	1	Milligrams per kilogram (mg/kg)
Fahrenheit (°F)	-32 x 5/9	Celsius (°C)

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EXECUTIVE SUMMARY

The Mixed Waste Landfill is located approximately 5 miles southeast of Albuquerque International Airport and 4 miles south of Sandia National Laboratories Technical Area 1. The landfill is a fenced, 2.6 acre compound in the north-central portion of Technical Area 3. Mean elevation is 5381 ft.

The Mixed Waste Landfill was established in 1959 as a disposal area for low-level radioactive and mixed waste that was generated at Sandia National Laboratories research facilities. The landfill was opened originally as the "Area 3 Low-Level Radioactive Dump" when the low-level radioactive dump in Technical Area 2 was closed in March 1959. The Area 3 dump accepted low-level radioactive waste and minor amounts of mixed waste from March 1959 through December 1988. Approximately 100,000 ft^3 of low-level radioactive waste containing approximately 6300 curies of activity were disposed of at the landfill.

The Mixed Waste Landfill consists of two distinct disposal areas: the classified area, occupying 0.6 acres, and the unclassified area, occupying 2.0 acres. Low-level radioactive and mixed waste has been disposed of in both areas. Classified wastes have been buried in a series of vertical, cylindrical pits in the classified area. These wastes included materials which, by shape or content, contained information important to national security. Unclassified wastes have been buried in shallow, parallel trenches in the unclassified area. These wastes included materials which were of little or no security concern.

A Phase 1 RCRA Facility Investigation was conducted in 1989 and 1990 to determine if a release of RCRA contaminants had occurred at the Mixed Waste Landfill and to begin characterizing the nature and extent of any such release. The Phase 1 investigation indicated that tritium was the contaminant of primary concern. No organic contaminants were identified. A Phase 2 RCRA Facility Investigation was initiated in 1992 to thoroughly determine contaminant source, define the nature and extent of contamination, identify potential contaminant transport pathways, evaluate potential risks posed by the levels of contamination identified, and recommend remedial action, if warranted, for the landfill.

The Phase 2 RCRA Facility Investigation incorporated the Streamlining Approach, combining Data Quality Objectives and the Observational Approach. Non-intrusive field activities were conducted first to facilitate the efficiency and cost-effectiveness of intrusive field activities. Data collected during the Phase 2 RCRA Facility Investigation were evaluated using EPA-approved methods. Initially, a constituent population was statistically compared to natural background. Any constituent failing the statistical comparison was further analyzed for spatial distribution. Constituents that failed the statistical comparison to background and showed a strong spatial correlation were identified as potential contaminants of concern.

After a constituent was identified as a potential contaminant of concern, the sample population was compared to RCRA proposed Subpart S action levels and studied in a transport and risk assessment. Reasonable Maximum Exposure was used to assess risk. The basic risk assessment methodology defined by EPA was modified to include a quantitative uncertainty analysis technique.

The Phase 2 RCRA Facility Investigation was completed in 1995. The Phase 2 RCRA Facility Investigation consisted of reconnaissance radiological surveys, air monitoring, passive and active soil gas surveys, non-intrusive geophysical surveys, soil sampling for background metals and radionuclides, surface soil sampling, borehole drilling and sampling, vadose zone tests, aquifer tests, and risk assessment. The Phase 2 RCRA Facility Investigation confirmed the findings of the Phase 1 RCRA Facility Investigation; tritium is the contaminant of primary concern.

Tritium levels range from 1100 pCi/g in surface soils to 20,600 pCi/g in subsurface soils in the classified area of the landfill. The highest tritium levels are found within 30 ft of the surface in soils adjacent to and directly below classified area disposal pits. Below 30 ft bgs, tritium levels fall off rapidly to a few pCi/g of soil.

Tritium also occurs as a diffuse air emission from the landfill. A total of 0.294 Ci/yr is released from the landfill surface. The maximum radiological dose to an off-site receptor is 1.1×10^{-5} mrem/yr due to internal exposure to tritium. The maximum radiological dose to an on-site receptor due to combined soil and vapor ingestion is 0.29 mrem/yr.

A detailed risk assessment was conducted for the MWL and the results indicate that the MWL will not significantly affect human health or the environment under an industrial land-use scenario. MWL contaminants present little risk to groundwater or as air emissions to potential receptors. Tritium activities at the MWL will decrease steadily with time due to its relatively short half-life of 12.3 years. Tritium activity at the landfill will decrease to approximately 10% of its original activity within 3 half-lives. The risk to human health and the environment due to natural radiological sources is much greater than risk posed by the MWL.

Based on Phase 2 RCRA Facility Investigation data and risk assessment, the MWL is recommended for No Further Action with continued groundwater monitoring for tritium to 1999.

1. INTRODUCTION

1.1 MWL Background

The MWL is located approximately 5 mi southeast of Albuquerque International Airport and 4 mi south of SNL,NM TA 1 (Figure 1.1-1). The landfill occupies 2.6 acres in the north-central portion of TA 3 (Figure 1.1-2). A topographic map of the MWL and surrounding area is provided in Figure 1.1-3.

The MWL was operated from March 1959 to December 1988 as the primary disposal site for SNL,NM technical and remote test areas involved in nuclear weapons research and development. The MWL was opened originally as the "Area 3 Low-Level Radioactive Dump" when the existing low-level radioactive dump in TA 2 was closed in March 1959. Approximately 100,000 ft^3 of low-level radioactive waste and minor amounts of mixed waste containing approximately 6300 Ci of activity (at the time of disposal) were disposed of at the MWL. There is currently temporary, above-ground storage of containerized, low-level radioactive and mixed wastes at the landfill.

The MWL consists of two distinct disposal areas: the classified area, occupying 0.6 acres, and the unclassified area, occupying 2.0 acres (Figure 1.1-4). Wastes in the classified area were disposed of in a series of vertical, cylindrical pits. Historical records indicate that early pits were 3 to 5 ft in diameter and 15 ft deep. Later pits were 10 ft in diameter and 25 ft deep. Once pits were filled with waste, they were backfilled with soil then capped with concrete. Wastes in the unclassified area were disposed of in a series of parallel, north-south excavated trenches. Records indicate that trenches were 15 to 25 ft wide, 150 to 180 ft long, and 15 to 20 ft deep. Trenches were reportedly backfilled with soil on a quarterly basis and, once filled with waste, capped with originally excavated soils which had been stockpiled locally.

Wastes disposed of in classified area pits included depleted, natural, and enriched uranium, thorium, barium, enriched lithium, liquid scintillation vials and beakers, neutron generator tubes and targets, plutonium-contaminated wastes, and plutonium-contaminated weapons test-debris from the Nevada test site. Between 1959 and 1962, small quantities of radioactively contaminated inorganic acids and organic solvents were disposed of in Pit SP-1, located in the southeast corner of the classified area. Wastes disposed of in unclassified area trenches included construction and demolition materials, contaminated equipment and soils, lead shielding, wood crates, steel drums, shipping casks, cardboard boxes, and dry solids. Wastes disposed of in unclassified area trenches were disposed of at random with no regard to waste source or type.

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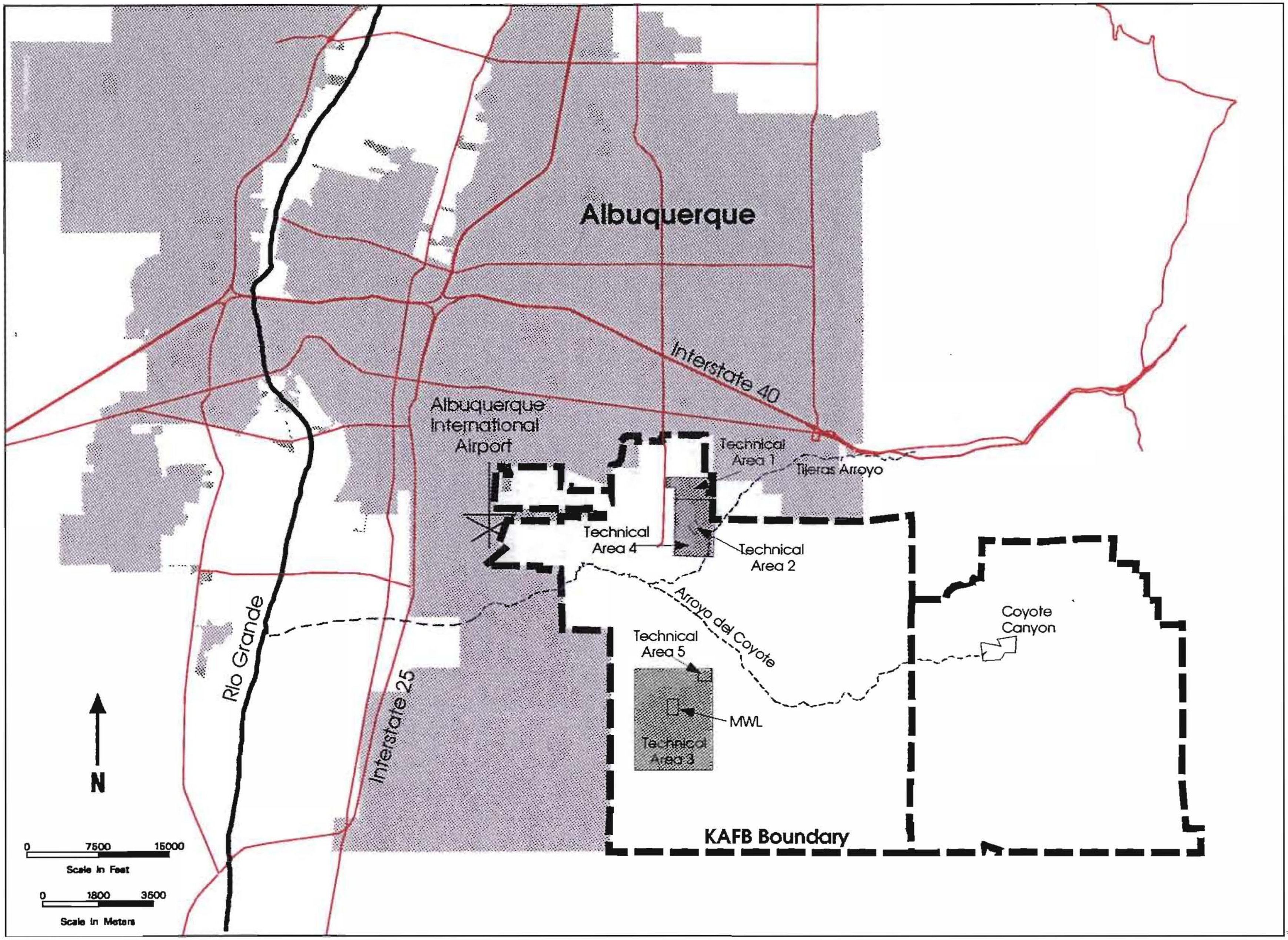

Figure 1.1-1 Location of Kirtland Air Force Base and SNL,NM

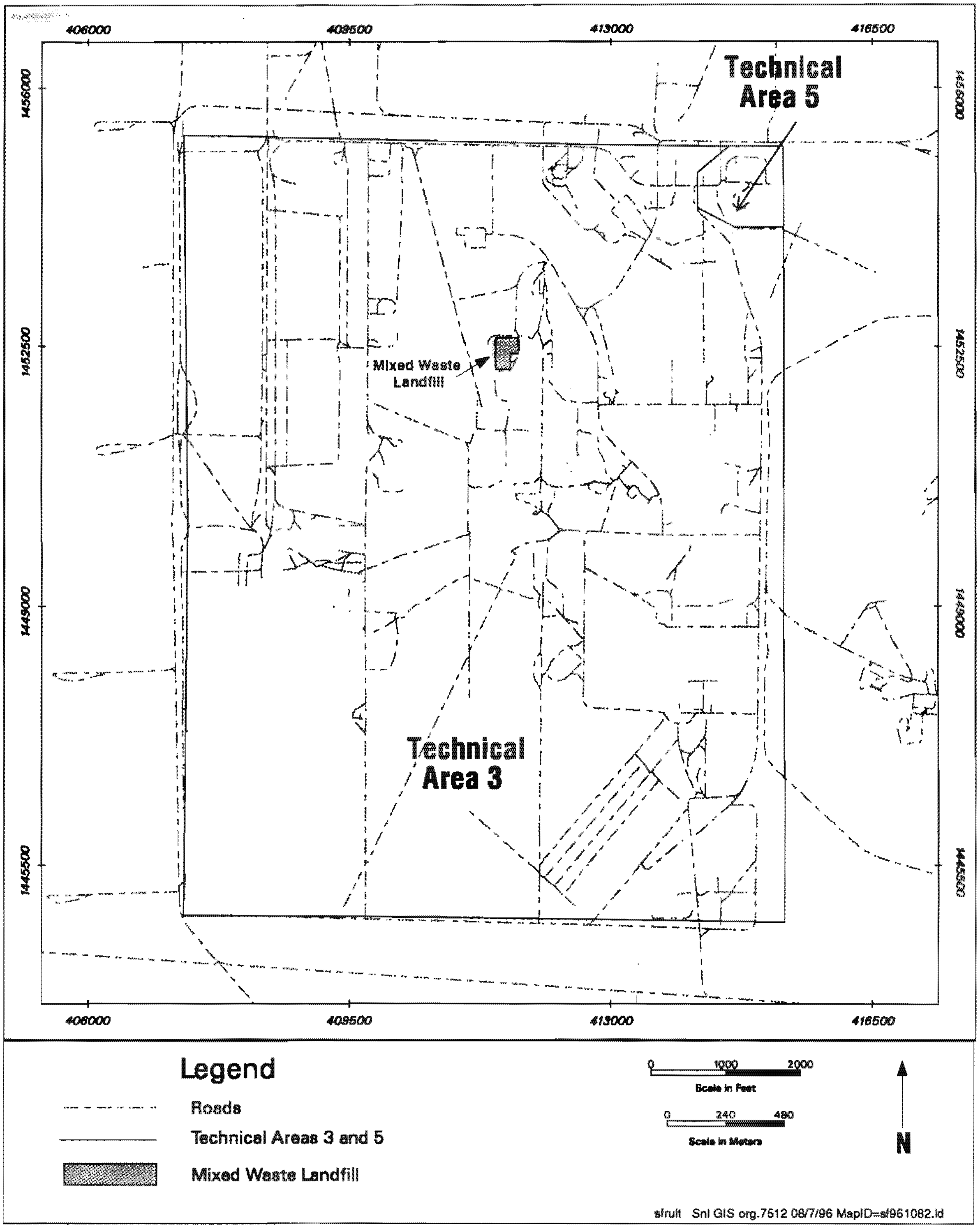

Figure 1.1-2 Location of Technical Area 3 and the Mixed Waste Landfill

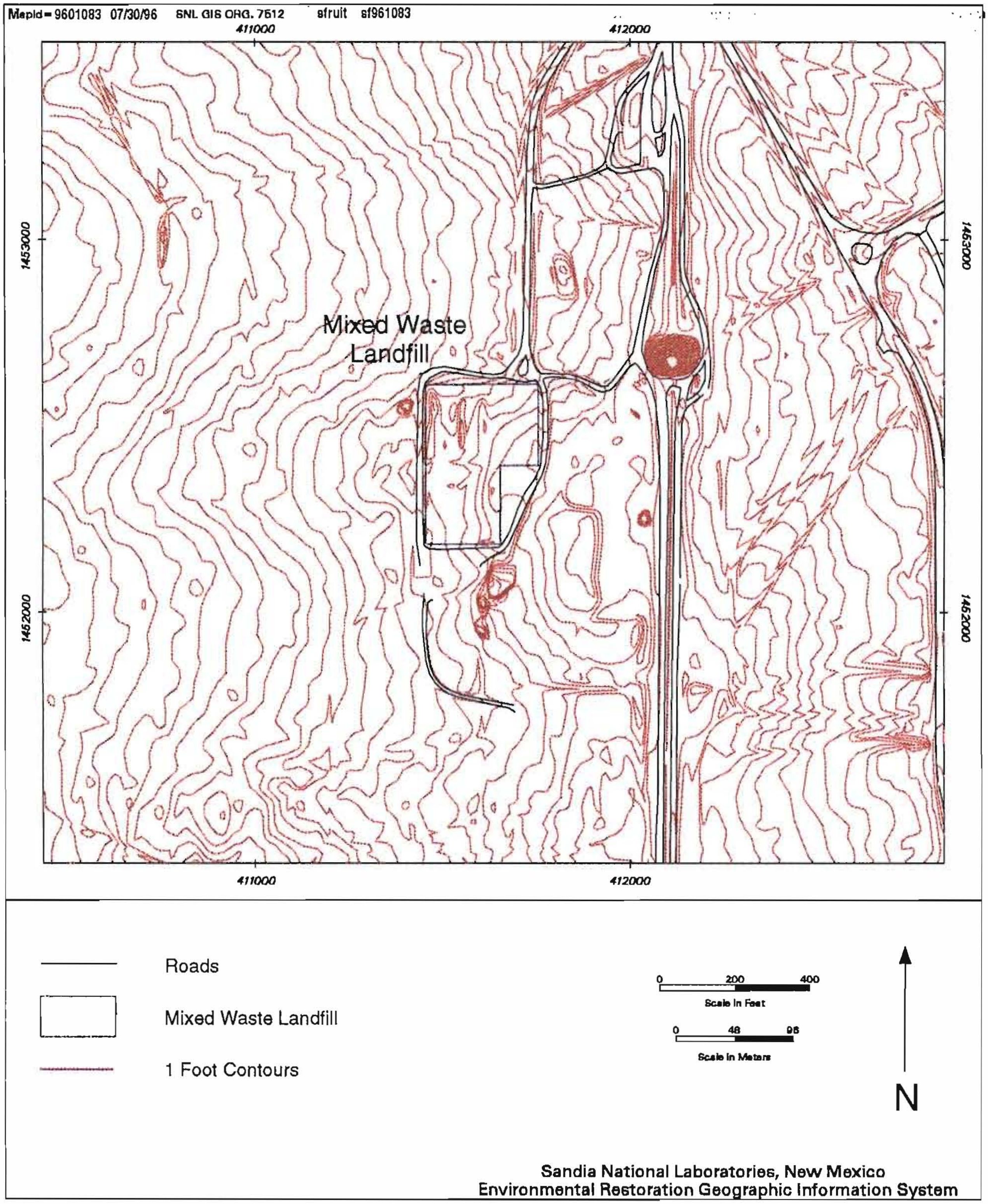

Figure 1.1-3 Topographic Map of the Mixed Waste Landfill

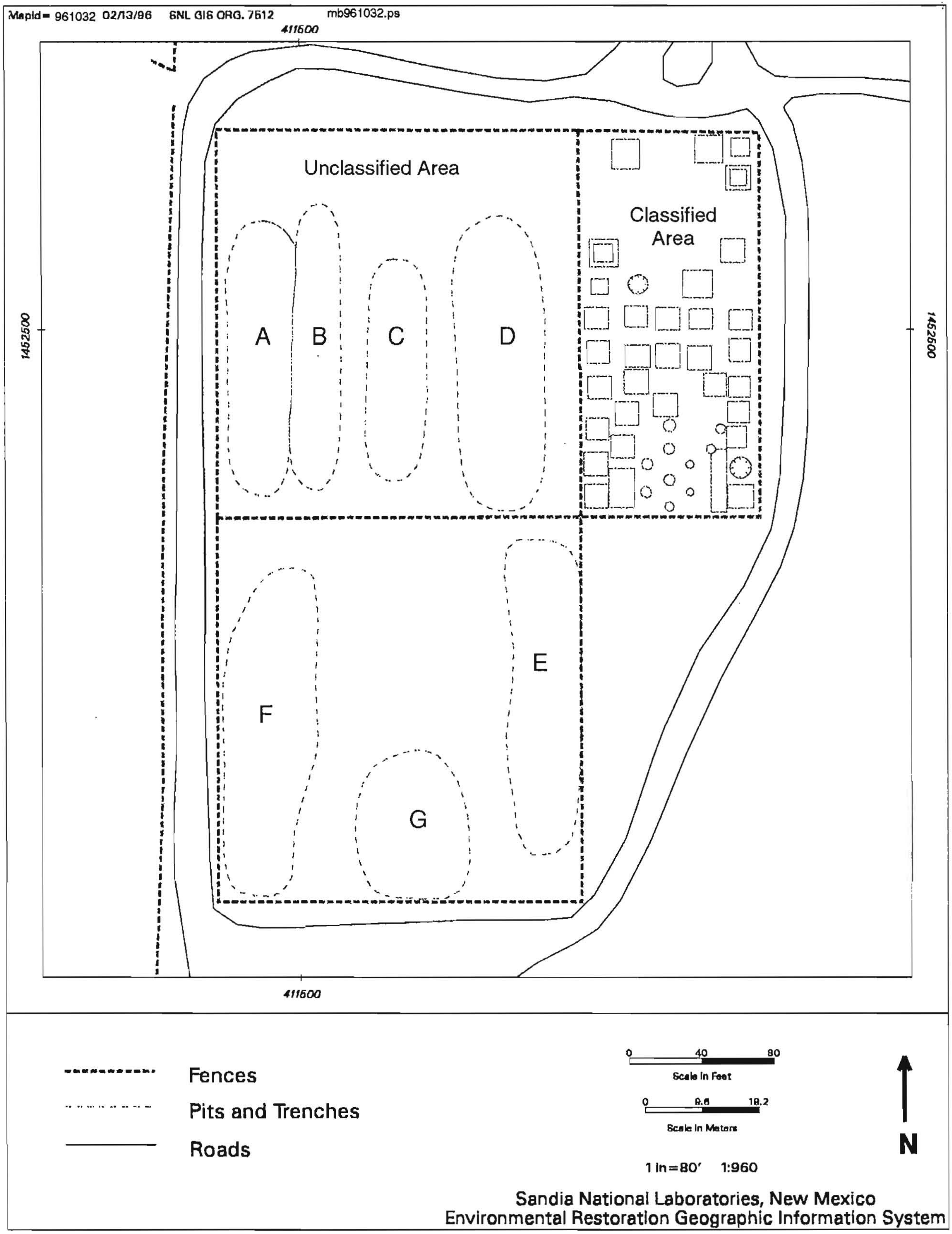

Figure 1.1-4 Mixed Waste Landfill

1.2 RFI Work Plan Overview and Objectives

MWL Phase 2 RFI field work was conducted in accordance with the *Mixed Waste Landfill Phase 2 RCRA Facility Investigation Work Plan* approved in May 1995 (SNL,NM, 1993) and the *Comment Responses to USEPA Notice of Deficiency* approved by EPA in May 1995 (SNL,NM 1994a). The MWL Phase 2 RFI Work Plan incorporated the Streamlining Approach and an investigation strategy that included radiological surveys; air monitoring; soil sampling for background metals and radionuclides; surface geophysical surveys; active and passive soil gas surveys; surface soil sampling for VOCs, SVOCs, TAL metals, and tritium; borehole sampling for VOCs, SVOCs, TAL metals, and radionuclides; vadose zone tests; aquifer tests; and risk assessment. The overall goal of the Phase 2 RFI Work Plan was to investigate the environmental impacts associated with disposal activities at the MWL.

1.3 Document of Understanding

In December of 1995, a Document of Understanding was signed between NMED, U.S. EPA Region 6, U.S. DOE, Los Alamos National Laboratory, and SNL,NM. The purpose of the document was to develop a cooperative effort among the parties to foster timely and cost-effective ER program implementation, standardization of ER program planning and execution, and development of annexes to the document which provide technical guidelines for criteria and processes for decision-making. Although the MWL Phase 2 RFI was completed prior to initial Document of Understanding/Annex training conducted for all parties, the Phase 2 RFI was conducted in accordance with general technical guidelines recommended in the document.

2. ENVIRONMENTAL SETTING

2.1 Climate

The weather for Albuquerque and vicinity, including SNL,NM, is typical of high-altitude, dry continental climates. The normal daily temperature ranges from 23°F to 52°F during winter months and from 57°F to 91°F during summer months. The average annual relative humidity is 46 percent, however, the relative humidity can range from a low of 5 percent to a high of 70 percent (Bonzon et al., 1974).

The average annual precipitation for the Albuquerque area is 8.5 in. Monthly precipitation can range from a minimum of less than 0.5 in. during winter months to 1.5 in. during summer months. Average annual snowfall in the Albuquerque area is 11 in. Summer precipitation, particularly July through August, is usually in the form of heavy thundershowers that typically last less than 1 hour at any given location (Williams, 1986). Average annual pan evaporation at Albuquerque International Sunport station 224 is 89 in. (U.S. National Weather Service, 1982).

Under normal conditions, wind speeds seldom exceed 32 mph and are generally less than 8 mph (Bonzon et al., 1974). Strong winds, often accompanied by blowing dust, occur mostly in late winter and early spring. During these months, the prevailing surface winds are from the southwest. Rapid night-time ground-cooling produces strong temperature inversions and strong winds through mountain canyons.

2.2 Surface Features

There are no permanent structures at the MWL. All disposal pits and trenches were excavated below grade. The only visible surface features are the caps above classified area pits, earthen berms above unclassified area trenches, and security fences which surround the compound.

The MWL rests on an expansive, relatively featureless, arid mesa. Elevations at the MWL range from 5385 ft above sea level on the east to 5375 ft above sea level on the west. Mean elevation is 5381 ft.

There are no natural surface run-off features. Surface run-off is regionally controlled and generally to the west. There are no man-made surface run-off controls. Surface run-off flows from the landfill to dirt roads which surround the compound.

2.3 Surface Water

Surface water at the MWL is rare. Some ponding along dirt roads occurs after heavy seasonal thundershowers. This water eventually evaporates or infiltrates into the vadose zone.

2.4 Geology

2.4.1 Regional Geology

The Albuquerque structural basin is one of the largest north-south trending basins in the Rio Grande trough. The basin is a compound graben measuring 90 mi long and 30 mi wide, bordered by uplifted fault blocks to the east and west (Bjorklund and Maxwell, 1961). The eastern boundary is marked by the Sandia, Manzanita, and Manzano mountains. The western boundary is marked by the Lucero uplift, with the Ladron Mountains to the south and Naciemento Mountains to the northwest.

Erosion from the surrounding highlands has filled the Albuquerque basin with up to 12,000 ft of sediments. This thick sequence of sediments, the Santa Fe Group, consists of braided channel, inter-channel, flood plain, and aeolian deposits. The Santa Fe Group thins toward the basin edges and is truncated by the bounding uplifts (Bjorklund and Maxwell, 1961).

2.4.2 Site-Specific Geology

The MWL is underlain exclusively by Santa Fe Group deposits. These deposits are characterized by great internal variability. Detailed correlations of individual lithologic units between monitoring wells and boreholes is difficult. In general, the Santa Fe Group deposits decrease in average grain size with depth.

2.5 Groundwater Hydrology

2.5.1 Regional Hydrology

The Rio Grande is the major surface hydrologic feature in the central Albuquerque basin. The Rio Grande flows from north to south through the basin and lies approximately 8 mi west of the MWL. The regional aquifer occurs in the unconsolidated and semi-consolidated sands, gravels, silts, and clays of the Santa Fe Group. The aquifer is generally unconfined, although semi-confined conditions may exist locally because of discontinuous, lenticular silt and clay-rich deposits.

Beneath KAFB, the regional aquifer flows toward the Rio Grande at an average gradient of approximately 10 ft/mi; however, local perturbations in the water table exist near municipal wells and from lithologic and structural controls. Before extensive development of the regional aquifer by the City of Albuquerque and KAFB, the predominant groundwater flow direction in the SNL,NM/KAFB area was southwest (Bjorklund and Maxwell, 1961); however, municipal pumping by the City of Albuquerque and KAFB has substantially affected the natural groundwater flow regime (Reeder et al., 1967; Kues, 1987). The KAFB production wells have a substantial effect on the hydraulic gradient in the area, creating a cone of depression in the potentiometric surface in the northeastern portion of KAFB. USGS projections indicate that maximum projected water-level declines from 1994 to 2020 range from 55 to 164 ft east of the Rio Grande and from 91 to 258 ft west of the Rio Grande (Kernodle et al., 1995).

2.5.2 Local Hydrology

Groundwater at the MWL occurs in the unconsolidated and semi-consolidated sedimentary deposits of the basin-fill aquifer. A relatively thick unsaturated zone of approximately 460 ft overlies the basin-fill aquifer of the Santa Fe Group deposits. The basin-fill aquifer underlying the MWL site is recharged primarily by inflow from the mountains to the east. Recharge resulting from direct infiltration of precipitation is insignificant due to the high evapotranspiration, low precipitation, and the extensive vadose zone. MWL groundwater monitoring records indicate that the aquifer has been dropping 0.81 ft/yr since 1990. Additional information on the groundwater hydrology at the MWL is presented in Section 5, Groundwater Monitoring.

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3. SAMPLING AND ANALYSIS

MWL Phase 2 RFI sampling and analysis followed standard EPA procedures for sample collection (EPA, 1987a), QA/QC control (EPA, 1980, 1987b), and statistical analysis (EPA, 1992). Each is discussed in the following sections.

3.1 Field Methods

The MWL field investigation followed phased approaches according to those proposed in the MWL Phase 2 RFI Work Plan (SNL,NM, 1993). Protocols for sampling and analysis followed the methodologies outlined in the ER Project Quality Assurance Project Plan and OPs developed specifically for the ER Project PIP (SNL,NM, 1995a and subsequent revisions). A complete list of OPs used during the Phase 2 RFI is provided in Table 3.1-1. Although much of the field work was conducted prior to the formal issuance of SNL,NM ER Project OPs, activities were conducted in accordance with generally accepted practices and professional experience and judgment, which ultimately formed the basis of ER Project OPs. All field work followed task-specific Health and Safety Plans.

Table 3.1-1 SNL,NM ER Project OPs Applicable to the MWL Phase 2 RFI

OP Number	Title
AOP 94-40	ER Project Site Posting and Security
FOP 94-01	Safety Meetings, Inspections, and Pre-Entry Briefings
FOP 94-05	Borehole Lithologic Logging
FOP 94-21	Shallow Soil Gas Sampling
FOP 94-22	Deep Soil Gas Sampling
FOP 94-23	Hand Auger and Thin-Wall Tube Sampler
FOP 94-25	Documentation of Field Activities
FOP 94-26	General Equipment Decontamination
FOP 94-27	Thin-Walled Tube Sampling of Soils
FOP 94-28	Health and Safety Monitoring of Organic Vapors (Flame Ionization Detector and Photoionization Detector)
FOP 94-34	Field Sample Management and Custody
FOP 94-38	Drilling Methods and Drill Site Management
FOP 94-52	Spade and Scoop Method for Collection of Soil Samples
FOP 94-57	Decontaminating Drilling and Other Field Equipment
FOP 94-68	Field Change Control
FOP 94-69	Personnel Decontamination (Level D, C & B Protection)
FOP 94-71	Land Surveying
FOP 94-78	Environmental Restoration Project Waste Management and Characterization Procedure
FOP 94-81	Establishment and Management of Less-Than-90-Day Accumulation Areas for Environmental Restoration Project Sites
FOP 95-23	Shallow Subsurface Drilling and Soil Sampling Using Hydraulic Augers or the Geoprobe® Soil Core Sampler

3.2 Analytical Data Evaluation

MWL Phase 2 RFI analytical data were reviewed to determine whether an analyte was present as a contaminant. This involved a statistical comparison to local background coupled with an examination of the analyte's spatial distribution (Section 3.4). Initially, an analyte's population was compared to local background using U.S. EPA approved methods. Any analyte failing the statistical comparison to background was further examined for spatial distribution. Analytes that failed the statistical comparison to background and showed a strong spatial correlation were identified as potential contaminants of concern.

Once an analyte was identified as a potential contaminant of concern, the sample population was compared to EPA RCRA proposed Subpart S (55 FR 30865) action levels and evaluated in a detailed transport and risk assessment (Section 7).

3.3 Quality Assurance/Quality Control

All MWL Phase 2 RFI activities followed strict QA/QC protocols. These protocols in part comprise the collection of the appropriate field QC samples including equipment blanks, method blanks, duplicate samples, matrix and matrix spike duplicate samples, and trip blanks. QA/QC samples accounted for no less than 5 percent of all samples collected for the MWL Phase 2 RFI.

The QA/QC samples proved to be invaluable during the evaluation of the analytical results. This was particularly germane when reviewing the analytical data for VOCs and SVOCs . Throughout the Phase 2 RFI, common laboratory contaminants including methylene chloride, acetone, 2-butanone, and bis-2(hexylethyl) phthalate were frequently identified in both field and QC samples. The consistent presence of these compounds in method blanks, trip blanks, and equipment blanks suggests that they are attributable to laboratory contamination. Accordingly, VOC and SVOC results for these analyses were discounted.

QA/QC procedures employed during the Phase 2 RFI also included verification and validation of the analytical results according to guidelines from AOP 94-27 (SNL,NM 1994b). This verification includes reviewing sample holding times, equipment rinsate, method and trip blank results, and comparing duplicate samples.

3.4 Statistical Analysis of Local Background

As part of the Phase 2 RFI, a statistical analysis of local background was performed. The methodology and analysis of results are summarized in the following sections. The purpose of the MWL local background analysis was to determine the background concentrations of metals and radionuclides that occur naturally in the MWL area. On 1 and 2 June 1994, 10 holes were drilled in undisturbed ground 600 ft west of the MWL with a 5 in. diameter solid stem auger. Two background soil samples were obtained from each hole; one at 6 ft bgs and one at 12 ft bgs. Analyses were conducted on each sample for TAL metals, gross alpha/beta, gamma spec, strontium-90, isotopic uranium, thorium, and plutonium, and tritium. Background soil sample locations are shown in Figure 3.4-1. Example statistical calculations for comparing MWL background data to Phase 2 RFI data are presented in Appendix A.

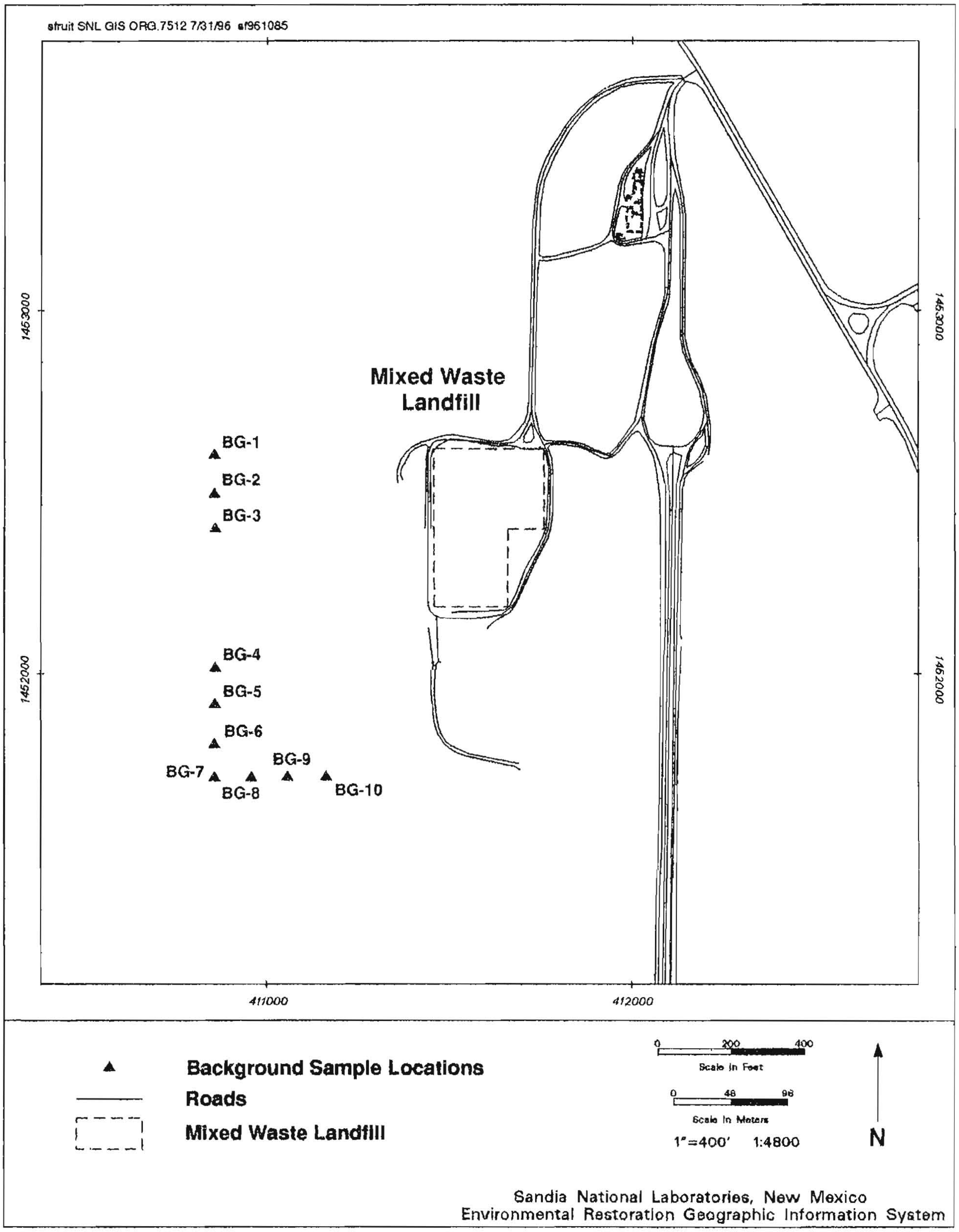

Figure 3.4-1 Background Soil Sample Locations

3.4.1 Background Concentration Determinations

To determine the range of background concentrations, the 95th UTL and 95th percentile were calculated for parametric and non-parametric data sets, respectively. The following steps were completed: 1) *a priori* screening of the data; 2) determination of the percentage of non-detects in the data sets, with a cutoff level of 15% non-detects; 3) distribution analysis of the portion of the data set that exhibited less than 15% non-detects, including coefficients of skewness, histograms, and probability plots; 4) a second screening of the data performed by the calculation of the T_n statistic for parametric data; and finally 5) calculation of the UTL for parametric data sets or the 95th percentile for non-parametric data sets.

3.4.2 *A Priori* Screening

The *a priori* test involved a visual inspection of the data to eliminate any outliers. The data were sorted from highest to lowest to facilitate the inspection. Maximum values that were a factor of three higher than their nearest neighbor were removed from the data set before the next test in the sequence was applied.

3.4.3 Determination of Parametic vs. Non-Parametric Data

The percentage of non-detect data in each of the data sets was determined. Those sets with fewer than 15% non-detect values were identified as eligible for parametric distribution analysis; those sets with greater than 15% non-detect values were identified as non-parametric.

The data were then transformed, or coded (EPA, 1992). Raw non-detect data were not equated with "zero" values; rather, they were replaced with a coded value of one-half of the PQL. Coded data sets tend to skew the data to the left and decrease the effectiveness of reporting the mean. Therefore, the median is reported as the measure of central tendency when greater than 15% of the data are non-detects (i.e., the data set is non-parametric).

3.4.4 Distribution Analyses

Distribution analyses were conducted on the data to determine whether the data were parametric (normal or lognormal) or non-parametric. The distribution analyses included computing the coefficients of skewness and producing histograms and probability plots for each analyte for normal and lognormal transformed data.

3.4.5 Calculation of T_n Statistic

The T_n statistic test was performed on data determined to be parametric (normal or lognormal) after the distribution analysis was completed to verify that no other statistical outliers existed. The test was run iteratively until the largest number in the data set passed. New mean and standard deviations were calculated for the data sets that had outliers removed in the T_n statistic analysis before the test was run again. The datum is considered an outlier if the T_n statistic exceeds the C_n identified in the 1992 EPA guidance for a given sample size.

3.4.6 Calculation of UTL and 95th Percentile

Basic statistical parameters, including the mean, standard deviation, and UTL, were calculated for each normal or lognormal parametric population data set. The UTL establishes a concentration range that is constructed to contain a specified proportion of the population with a specified confidence. The proportion of the population included is referred to as the coverage, and the probability with which the tolerance interval includes the proportion is referred to as the tolerance coefficient. The EPA-recommended coverage value of 95% and tolerance coefficient value of 95% were used to calculate the UTLs (EPA, 1992).

Non-parametric statistics were used when data sets did not exhibit normal or lognormal distributions, or when the percentage of non-detects exceeded 15%. For those data sets with fewer than 90% non-detects, the median (50th percentile) was used to describe central tendency, and the 95th percentile was used for background comparison.

3.4.7 Statistical Tests

Table 3.4-1 presents the results of *a priori* tests conducted on MWL background soil data. The X factor is the ratio of the maximum value to the next maximum. If the ratio is $\geq$ 3, it indicates the maximum value is anomalously high. None of the analytes examined were determined *a priori* to be outliers with the exception of strontium-90. The anomalously high strontium-90 value, 1.9 pCi/g, is most likely due to laboratory error.

Table 3.4-2 provides the results of probability plot, coefficient of skewness, and histogram for determining MWL background data distribution type. Aluminum, arsenic, chromium, magnesium, nickel, gross beta, and uranium-238 are normally distributed. Barium, beryllium, calcium, cobalt, copper, iron, lead, mangenese, potassium, vanadium, zinc, gross alpha, uranium-233/234, uranium-235, thorium-230, thorium-232, and tritium are lognormally distributed. Antimony, cadmium, and sodium are non-parametrically distributed.

Outliers were also tested using the T_n statistic (Table 3.4-3). Only the barium data set was censored for calculating MWL background values by removing the highest value (363 mg/kg). There are three possible reasons for the anomalously high barium value: 1) barium might exhibit a wide natural variation; 2) laboratory error; and 3) the value is anthropogenic, although well below the RCRA proposed Subpart S action level (6000 mg/kg).

Background values for selected parameters and their corresponding UTL or 95th percentile are presented in Table 3.4-4. RCRA proposed Subpart S action levels for analytes of interest are provided in Table 3.4-5.

Table 3.4-1 MWL Background Samples, *a Priori* Sampling

Analyte	Maximum Value	Next Maximum	X Factor	Result
Aluminum	6570 mg/kg	6300 mg/kg	1.04	Pass
Antimony	6.6	4.8	1.38	Pass
Arsenic	4.1	3.7	1.11	Pass
Barium	363	213	1.70	Pass
Beryllium	0.8	0.77	1.04	Pass
Cadmium	0.95	0.87	1.09	Pass
Calcium	70600	55800	1.27	Pass
Chromium	8.1	7.9	1.03	Pass
Cobalt	4.7	4.6	1.02	Pass
Copper	7.5	7.1	1.06	Pass
Iron	10900	10600	1.03	Pass
Lead	7.0	6.7	1.04	Pass
Magnesium	4330	4010	1.08	Pass
Manganese	224	209	1.07	Pass
Mercury	ND	ND	NA	NA
Nickel	8.3	8.1	1.02	Pass
Potassium	1370	1330	1.03	Pass
Selenium	ND	ND	NA	NA
Silver	ND	ND	NA	NA
Sodium	537	489	1.10	Pass
Thallium	ND	ND	NA	NA
Vanadium	20.8	20.6	1.01	Pass
Zinc	26.2	26.2	1.00	Pass
Gross Alpha	22 pCi/g	20 pCi/g	1.1	Pass
Gross Beta	28	26	1.08	Pass
Pu-238	0.044	0.042	1.05	Pass
Pu-239/240	0.044	0.043	1.02	Pass
Sr-90	1.9	0.6	3.17	Fail
Sr-90	0.6	0.55	1.09	Pass
Th-230	0.78	0.76	1.03	Pass
Th-232	1.0	0.91	1.10	Pass
Ur-233/234	0.82	0.79	1.04	Pass
Ur-235	0.052	0.042	1.24	Pass
Ur-238	0.76	0.74	1.03	Pass

Table 3.4-2 MWL Distribution Analysis Results

Parameter	Probability Plot	Histogram	Coefficient of Skewness[(a)]	Shapiro-Wilk[(b)]	Distribution Type
Aluminum	Normal	Normal	-0.39	0.933	Normal
Antimony	NA	NA	NA	NA	Non-parametric[(c)]
Arsenic	Normal	Normal	-0.12	0.98	Normal
Barium	Lognormal	Lognormal	1.19	0.90	Lognormal
Beryllium	Lognormal	Lognormal	0.55	0.92	Lognormal
Cadmium	NA	NA	NA	NA	Non-parametric[(c)]
Calcium	Lognormal	Lognormal	-0.14	0.99	Lognormal
Chromium	Normal	Normal	0.10	0.98	Normal
Cobalt	Lognormal	Lognormal	-0.19	0.94	Lognormal
Copper	Lognormal	Lognormal	-0.21	0.97	Lognormal
Iron	Lognormal	Lognormal	0.21	0.97	Lognormal
Lead	Lognormal	Lognormal	0.43	0.95	Lognormal
Magnesium	Normal	Normal	-0.07	0.97	Normal
Manganese	Lognormal	Lognormal	-0.01	0.98	Lognormal
Mercury	NA	NA	NA	NA	NA[(d)]
Nickel	Normal	Normal	-0.13	0.98	Normal
Potassium	Lognormal	Lognormal	-0.004	0.98	Lognormal
Selenium	NA	NA	NA	NA	NA[(d)]
Silver	NA	NA	NA	NA	NA[(d)]
Sodium	NA	NA	NA	NA	Non-parametric[(c)]
Thallium	NA	NA	NA	NA	NA[(d)]
Vanadium	Lognormal	Lognormal	0.26	0.91	Lognormal
Zinc	Lognormal	Lognormal	0.30	0.97	Lognormal
Gross Alpha	Lognormal	Lognormal	0.17	0.95	Lognormal
Gross Beta	Normal	Normal	-0.10	0.97	Normal
Plutonium-238	NA	NA	NA	NA	NA[(d)]
Plutonium-239/240	NA	NA	NA	NA	NA[(d)]
Uranium-233/234	Lognormal	Lognormal	0.09	0.96	Lognormal
Uranium-235	Lognormal	Lognormal	0.40	0.98	Lognormal
Uranium-238	Normal	Normal	-0.17	0.98	Normal
Thorium-230	Lognormal	Lognormal	-0.006	0.95	Lognormal
Thorium-232	Lognormal	Lognormal	0.28	0.98	Lognormal
Strontium-90	NA	NA	NA	NA	NA[(d)]
Tritium	Lognormal	Lognormal	-0.35	0.98	Lognormal

NA Not applicable
(a) Critical value for Coefficient of Skewness: -1 to 1.
(b) Critical value for Shapiro-Wilk was 0.911 for all parameters except barium, which had a critical value of 0.908.
(c) Distribution type is non-parametric because percentage of non-detects is greater than 15%.
(d) All analytical results were non-detect, therefore no statistics were performed.

Table 3.4-3 MWL T_n Statistic Analysis

Analyte	Distribution	Observation	Log Mean	Log Standard Deviation	T_n Statistic	Number of Samples	Upper 5%	Pass or Fail T_n Statistic
Aluminum	Normal	6570	5432	789	1.44	22	2.60	Pass
Antimony	Non-parametric	NA	NA	NA	NA	22	2.60	NA
Arsenic	Normal	4.1	2.71	0.74	1.88	22	2.60	Pass
Barium	Lognormal	5.89	4.82	0.37	2.87	22	2.60	Fail
Barium	Lognormal	5.36	4.77	0.29	2.01	21	2.58	Pass
Beryllium	Lognormal	-0.22	-0.67	0.20	2.20	22	2.60	Pass
Cadmium	Non-parametric	NA	NA	NA	NA	22	2.60	NA
Calcium	Lognormal	11.16	10.53	0.30	2.11	22	2.60	Pass
Chromium	Normal	8.1	6.03	1.13	1.82	22	2.60	Pass
Cobalt	Lognormal	1.55	1.23	0.16	1.99	22	2.60	Pass
Copper	Lognormal	2.01	1.62	0.22	1.74	22	2.60	Pass
Iron	Lognormal	9.30	8.94	0.19	1.92	22	2.60	Pass
Lead	Lognormal	1.95	1.64	0.16	1.93	22	2.60	Pass
Magnesium	Normal	4330	3284	597	1.75	22	2.60	Pass
Manganese	Lognormal	5.41	4.92	0.27	1.80	22	2.60	Pass
Mercury	NA	NA				22	2.60	
Nickel	Normal	8.3	6.00	1.21	1.89	22	2.60	Pass
Potassium	Lognormal	7.22	6.92	0.16	1.89	22	2.60	Pass
Selenium	Non-parametric	NA	NA	NA	NA	22	2.60	NA
Silver	NA	NA	NA	NA	NA	22	2.60	NA
Sodium	Non-parametric	NA	NA	NA	NA	22	2.60	NA
Thallium	NA	NA	NA	NA	NA	22	2.60	NA
Vanadium	Lognormal	3.03	2.69	0.21	1.66	22	2.60	Pass

Table 3.4-3 MWL T_n Statistic Analysis (Continued)

Analyte	Distribution	Observation	Log Mean	Log Standard Deviation	T_n Statistic	Number of Samples	Upper 5%	Pass or Fail T_n Statistic
Zinc	Lognormal	3.27	2.94	0.18	1.85	22	2.60	Pass
Gross Alpha	Lognormal	3.09	2.43	0.36	1.84	22	2.60	Pass
Gross Beta	Normal	28	20.91	3.65	1.94	22	2.60	Pass
Plutonium-238	NA	NA	NA	NA	NA	22	2.60	NA
Plutonium-239/240	NA	NA	NA	NA	NA	22	2.60	NA
Strontium-90	NA	NA	NA	NA	NA	22	2.60	NA
Thorium- 230	Lognormal	-0.25	-0.51	0.16	1.60	22	2.60	Pass
Thorium- 232	Lognormal	0	-0.37	0.16	2.28	22	2.60	Pass
Uranium-233/234	Lognormal	-0.20	-0.45	0.15	1.76	22	2.60	Pass
Uranium-235	Lognormal	-2.96	-3.83	0.38	2.29	22	2.60	Pass
Uranium-238	Normal	0.76	0.61	0.08	1.77	22	2.60	Pass

NA Not Applicable

Table 3.4-4 MWL Soil Upper Tolerance Limits

Analyte	Distribution	Censored	Log mean	Log Standard Deviation	Mean	Standard Deviation	One-sided Tolerance Factor (K)	Log UTL	95^{th} UTL/ 95^{th} %[a]	Number of Samples
Aluminum	Normal	No	NA	NA	5432	789	2.35	NA	7287	22
Antimony	Non-parametric	No	NA	NA	NA	NA	NA	NA	4.8	22
Arsenic	Normal	No	NA	NA	2.71	0.74	2.35	NA	4.45	22
Barium	Lognormal	Yes	4.77	0.29	NA	NA	2.35	5.46	235	22
Beryllium	Lognormal	No	-0.67	0.20	NA	NA	2.35	-0.19	0.82	22
Cadmium	Non-parametric	No	NA	NA	NA	NA	NA	NA	0.87	22
Calcium	Lognormal	No	10.53	0.30	NA	NA	2.35	11.24	75830	22
Chromium	Normal	No	NA	NA	6.03	1.13	2.35	NA	8.7	22
Cobalt	Lognormal	No	1.23	0.16	NA	NA	2.35	1.61	4.98	22
Copper	Lognormal	No	1.62	0.22	NA	NA	2.35	2.15	8.61	22
Iron	Lognormal	No	8.94	0.19	NA	NA	2.35	9.38	11812	22
Lead	Lognormal	No	1.64	0.16	NA	NA	2.35	2.01	7.48	22
Magnesium	Normal	No	NA	NA	3284	597	2.35		4687	22
Manganese	Lognormal	No	4.92	0.27	NA	NA	2.35	5.56	260	22
Mercury	NA	No	NA	NA	NA	NA	NA	NA	NA	22
Nickel	Normal	No	NA	NA	6.0	1.21	2.35.	NA	8.86	22
Potassium	Lognormal	No	6.92	0.16	NA	NA	2.35	7.30	1473	22
Selenium	NA	No	NA	NA	NA	NA	NA	NA	NA	22
Silver	NA	No	NA	NA	NA	NA	NA	NA	NA	22
Sodium	Non-parametric	No	NA	NA	NA	NA	NA	NA	489	22
Thallium	NA	No	NA	NA	NA	NA	NA	NA	NA	22
Vanadium	Lognormal	No	2.69	0.21	NA	NA	2.35	3.18	24.12	22
Zinc	Lognormal	No	2.94	0.18	NA	NA	2.35	3.35	28.6	22
Gross Alpha	Lognormal	No	2.43	0.36	NA	NA	2.35	3.27	26.2	22

Table 3.4-4 MWL Soil Upper Tolerance Limits (Continued)

Analyte	Distribution	Censored	Log mean	Log Standard Deviation	Mean	Standard Deviation	One-sided Tolerance Factor (K)	Log UTL	95th UTL/ 95th %[a]	Number of Samples
Gross Beta	Normal	No	NA	NA	20.9	3.65	2.35	NA	29.5	22
Plutonium-238	NA	No	NA	NA	NA	NA	NA	NA	0.042	22
Plutonium-239/240	NA	No	NA	NA	NA	NA	NA	NA	0.043	22
Strontium-90	NA	Yes	NA	NA	NA	NA	NA	NA	0.55	21
Thorium-230	Lognormal	No	-0.51	0.16	NA	NA	2.35	-0.13	0.88	22
Thorium-232	Lognormal	No	-0.37	0.16	NA	NA	2.35	0.01	1.01	22
Uranium-233/234	Lognormal	No	-0.45	0.15	NA	NA	2.35	-0.11	0.89	22
Uranium-235	Lognormal	No	-3.83	0.38	NA	NA	2.35	-2.93	0.05	22
Uranium-238	Normal	No	NA	NA	0.61	0.08	2.35		0.81	22

NA Not applicable

(a) 95th percentile used for non-parametric distributions; 95th UTL used for parametric distributions.

Table 3.4-5 RCRA Proposed Subpart S Action Levels

Analyte	mg/kg
Aluminum	—[(a)]
Antimony	30
Arsenic	20[(b)]
Barium	6000[(b)]
Beryllium	0.2
Cadmium	80[(b)]
Calcium	—[(c)]
Chromium	400
Cobalt	—[(a)]
Copper	—[(a)]
Iron	—[(c)]
Lead	400[(d)]
Magnesium	—[(c)]
Manganese	10,000[(a,b)]
Mercury	20
Nickel	2000
Potassium	—[(c)]
Selenium	400[(b)]
Silver	400[(b)]
Sodium	—[(c)]
Thallium	6[(e)]
Vanadium	600[(a,b)]
Zinc	20,000[(a,b)]

(a) Not listed as a RCRA constituent (40 CFR 261 Appendix VIII).

(b) Action level based on toxicity information contained in the IRIS database (EPA, 1995a) or the HEAST (EPA, 1995b) and a HI = 1.

(c) Metal is considered an essential nutrient as described in RAGS (Risk Assessment Guidance for Superfund, Vol 1: Human Health Evaluation Manual (EPA, 1989).

(d) Action level provided in "Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities," (EPA, 1994).

(e) Particular Thallium Compound was not identified in analysis. The IRIS Database, for all thallium compounds listed, gives RFDs in the narrow range $8X10^{-5}$ to $9X10^{-5}$. Based on the conservative value of $8X10^{-5}$, an action level of 6 mg/kg was calculated.

3.4.8 Comparison Tests

Two non-parametric, two parametric tests, and one test that utilized both parametric and non-parametric analyses were used to compare MWL background data to Phase 2 RFI data. The non-parametric tests included the WRS test and the Quantile test. The parametric test included Student's t-tests using assumptions of equal and of unequal variance. The Hot-Measurement Comparison uses either the 95th UTL calculation (for parametric data) or the 95th percentile calculation (in the case of non-parametric data) as recommended by EPA (1992). Non-parametric tests were applied to all soil data. However, parametric tests were not applied to non-parametric data.

The WRS test is performed by ordering all observations from background and a potentially contaminated area according to their magnitude and then assigning a rank from lowest to highest. The ranks in the potentially-contaminated area are summed and compared to a table of critical values to determine whether the area is contaminated.

The WRS test is a non-parametric test more powerful than the Quantile test for determining whether the potentially-contaminated area has concentrations uniformly higher than background (EPA, 1992). However, the WRS test allows for fewer non-detects than the Quantile test. As a general rule, the WRS test should be avoided if more than 40 percent of the measurements in the potentially contaminated area or background are non-detects. All soil analytical data were subjected to the WRS test in this analysis, although the test power was known to be greatly reduced when the non-detect percent was greater than 40.

The Quantile test is performed by separating background data and potentially contaminated data. The data are then ordered from highest to lowest. The number of background and potentially contaminated data points are calculated. The number of data points for background and the selected potentially contaminated area is then compared to a table that identifies how many of the highest measurements must come from the potentially contaminated area versus background to indicate contamination.

The Quantile test is a non-parametric test that has more power than the WRS test to detect when only a small portion of the site is contaminated. Also, the Quantile test can be used even when a fairly large proportion of the measurements is below the limit of detection (EPA, 1992).

The Hot-Measurement Comparison consists of comparing each measurement from the potentially contaminated area with an upper-limit concentration value. This upper-limit concentration value is such that any measurement from the potentially contaminated area that is equal to or greater than this value indicates an area of relatively high concentrations that must be further investigated (EPA, 1992). Concentrations exceeding the upper-limit value may indicate inappropriate sample collection, handling, or analysis procedures, or actual contamination. The upper-limit concentration value was calculated as previously described based on the 95th percentile for non-parametric data and the 95th UTL for parametric data.

The t-test is a parametric test that compares the means of two samples. To use the t-test statistic, both sampled populations must be approximately normal (or lognormal) distributed with approximately equal population variances, and the random samples must be selected independent of each other.

3.4.9 MWL Phase 2 RFI Comparison Tests

Comparison tests between MWL background data and the maximum concentrations for Phase 2 RFI data were performed for metals and radionuclides in accordance with the Phase 2 RFI Work Plan (SNL,NM, 1993). Discussions of the significance of the statistical tests on MWL background data and comparisons to the relevant RCRA proposed Subpart S action levels for each analyte are found in Sections 4.6 and 4.7. RCRA proposed Subpart S action levels are provided in Table 3.4-5.

3.5 Contaminant Fate and Transport and Risk Assessment

Contaminants of concern were evaluated in a preliminary, site-specific risk assessment to determine the potential impacts to human health. This approach used is consistent with EPA guidance (EPA, 1989) and with discussions between SNL,NM, EPA, and NMED. The risk assessment is based on an industrial future land-use scenario for the MWL, with institutional controls.

Extensive site characterization has provided representative concentrations of contaminants in surface and subsurface soils. Models were employed to supplement site characterization data to estimate contaminant concentrations in the air above the landfill and to predict future concentrations in groundwater below the landfill. The models employed use methods and mathematical models from published literature. Maximum concentration values were used in identified potential exposure pathways to calculate potential contaminant intakes and subsequent non-carcinogenic and carcinogenic risk values. As prescribed by EPA (1989), an RME approach was used.

The uncertainties in the risk assessment analysis are described in Section 7. The risk values estimated will be used to support decisions for further actions regarding the MWL. Section 7 provides the risk assessment results, and Appendix N contains further details relating to potential exposure pathways at the landfill.

4. MWL PHASE 2 RCRA FIELD INVESTIGATION ACTIVITIES

4.1 Radiation Survey

A walk-over radiation survey of the MWL was performed prior to field activities to identify areas of potential radiation exposure and to assist in establishing radiation health and safety protocols. A Bicron micro-R-meter, an Eberline ESP-2 NaI detector, and an Automess 6150AD2 Teletecter were used for the survey. Radiation readings were taken in the classified and unclassified areas and outside the fenced perimeter of the landfill.

Three areas of elevated radiation were detected, each in the classified area. Pits SP-4, 35, and 36 had surface contact readings of 0.5 mrem/hr, 50 mrem/hr, and 6 mrem/hr, respectively (Figure 4.1-1). Pits SP-4 and 36 have permanent concrete caps in place. Pit 35 has a stainless-steel cap with an operable, hinged door. No other areas of elevated radiation were detected in the classified area, the unclassified area or outside the fenced perimeter of the landfill. Background radiation at the MWL is 10 to 15 μrem/hr.

4.2 Air Emissions

In 1992, air monitoring was conducted at the MWL to measure radioactive and non-radioactive ambient air emissions from the landfill.

The MWL is designated as a diffuse radiological source due to known tritium surface contamination. Through wind action, fugitive dust can be suspended and transported downwind, causing an exposure to persons breathing air containing contaminated dust. The MWL is considered the most significant diffuse radiological source at SNL,NM.

Air samples were collected at the MWL and analyzed for beryllium, uranium, and plutonium. Samples were collected using Wedding & Associates high-volume PM_{10} air samplers. The air inlet is factory-calibrated to yield a particle cut-off of 10 μm for unit density particles when sampled at 40 ft^3/min.

Over 130 PM_{10} samples were collected at three locations at the MWL (Figure 4.2-1). Results are summarized in Table 4.2-1. Analysis of these samples showed that PM_{10} concentrations averaged less than 10 $\mu g/m^3$. Beryllium was not detected in any sample. Levels of uranium ranged from $2.4x10^{-4}$ to $1.4x10^{-3}$ $\mu g/m^3$. Plutonium-239 and -240 ranged from $1.6x10^{-4}$ to $2.7x10^{-4}$ pCi/m^3 and plutonium-238 ranged from $5.7x10^{-5}$ to $1.9x10^{-3}$ pCi/m^3. None of these elements were present in the environment at levels above background nor were any of the measured values above applicable DOE, federal, or state ambient air standards (Radian Corporation, 1994).

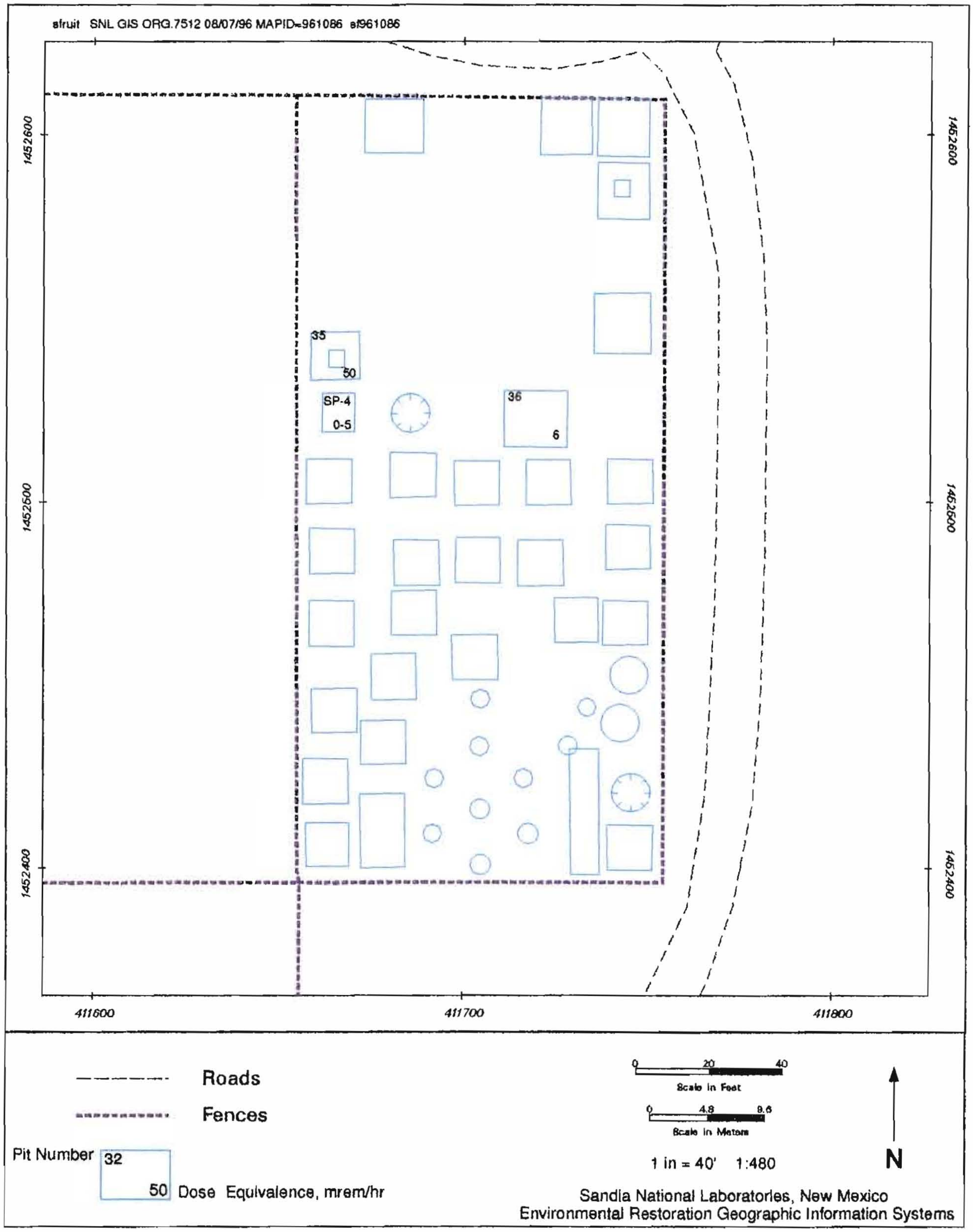

Figure 4.1-1 Mixed Waste Landfill Radiation Survey

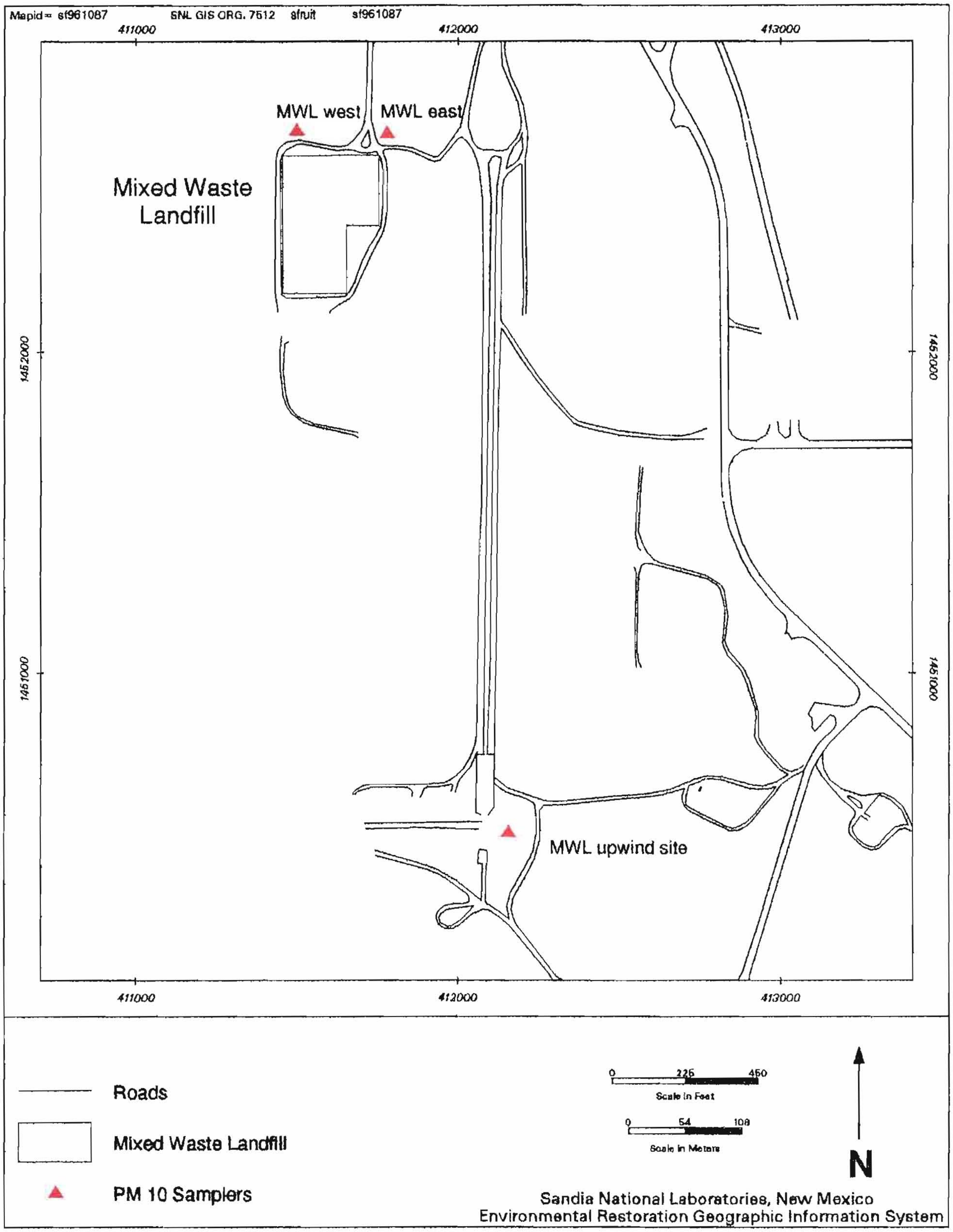

Figure 4.2-1 PM_{10} Sample Locations

Table 4.2-1 PM_{10} Sampling Results

Species	Average Concentration	Maximum Concentration	Minimum Concentration
MWL East Side PM_{10}			
PM_{10}	9.5	18.4	3
Beryllium	ND	ND	ND
Uranium	8.0×10^{-4}	1.4×10^{-3}	2.6×10^{-4}
Plutonium-239/240	NA	$2.7 \times 10^{-4} \pm 1.9 \times 10^{-4}$	ND
Plutonium-238	NA	$4.6 \times 10^{-4} \pm 2.7 \times 10^{-4}$	ND
MWL West Side PM_{10}			
PM_{10}	10.5	68.5	0.9
Beryllium	ND	ND	ND
Uranium	6.9×10^{-4}	1.3×10^{-3}	2.4×10^{-4}
Plutonium-239/240	NA	$2.5 \times 10^{-4} \pm 2.0 \times 10^{-4}$	ND
Plutonium-238	NA	$1.9 \times 10^{-3} \pm 5.7 \times 10^{-5}$	ND
MWL Upwind PM_{10}			
PM_{10}	9.0	19.4	3
Beryllium	ND	ND	ND
Uranium	1.0×10^{-3}	1.4×10^{-3}	2.4×10^{-4}
Plutonium-239/240	NA	$2.2 \times 10^{-4} \pm 1.6 \times 10^{-4}$	ND
Plutonium-238	NA	$1.2 \times 10^{-4} \pm 9.2 \times 10^{-5}$	ND

All concentrations in $\mu g/m^3$ except for Plutonium which is pCi/m^3.
ND Not Detected
NA Not Applicable

As part of the 1992 study, measurements were made of the rate at which tritiated water was being emitted from the landfill. Flux of tritiated water was measured at fifteen locations using an EIFC in conjunction with silica gel sorbent columns. 1992 tritium flux sampling locations are shown in Figure 4.2-2.

The EIFC is designed to make direct flux measurements of gaseous species from an isolated surface area. A schematic of an EIFC is presented in Figure 4.2-3. EIFCs were inserted into the soil at depths of one to two inches to effectively isolate the desired surface area. The silica gel columns were analyzed for tritium at Radian's radiochemistry lab in Austin, Texas. Condensate was collected and analyzed by liquid scintillation counting.

Results of tritium flux sampling are presented in Table 4.2-2. These data show that the highest measured emission rate occurred at sample location 6. This rate was approximately 6000 $pCi/m^2/hr$. If an emission rate of 6000 $pCi/m^2/hr$ were trapped in a 1.0 m^3 chamber it would take 3333 hours for an individual to inhale the DAC for tritium of 20$\mu Ci/m^3$. This is approximately 21 months of continuous exposure and inhalation in a 1.0 m^3 confined space.

Two samples were screened for gamma emissions to determine if a radioisotope, other than tritium, was trapped by the silica gel, possibly biasing the tritium determination. Two sorbent columns (from locations 8 and 9) were sealed inside the lead cave of a high-purity Ge detector and counted. The gamma spectrum showed no significant emissions beyond those associated with instrument background. Also, the count rate beyond the tritium region in the liquid scintillation spectrum was constant and showed no correlation with count rate in the tritium region. Therefore, no other radioisotope other than tritium was collected during sampling at the MWL.

Table 4.2-2 1992 Tritium Flux

Sampling Location	Flux ($pCi/m^2/hr$)[(a)]
1	156
2	909
3	3200
4	1970, 2020*
5	992, 1080*
6	6050, 6170*, 6110*, 6120*
7	622
8	1990
9	385
10	343, 376*
11	323
12	123
13	51, 57*
14	345
15	277

(a) Sample area equals 0.13 m^2.
* Replicate analytical analyses.

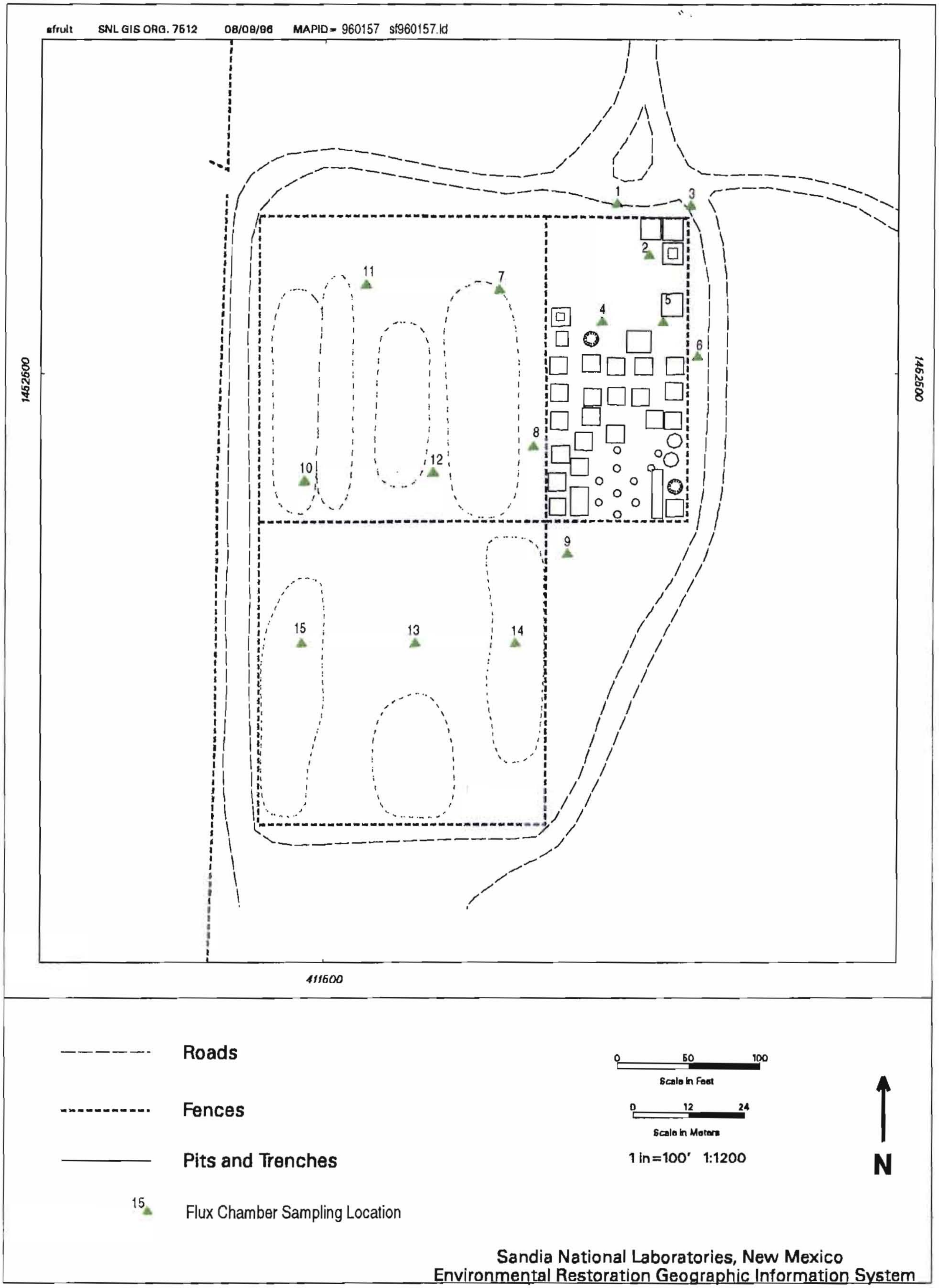

Figure 4.2-2 1992 Tritium Flux Sampling Locations

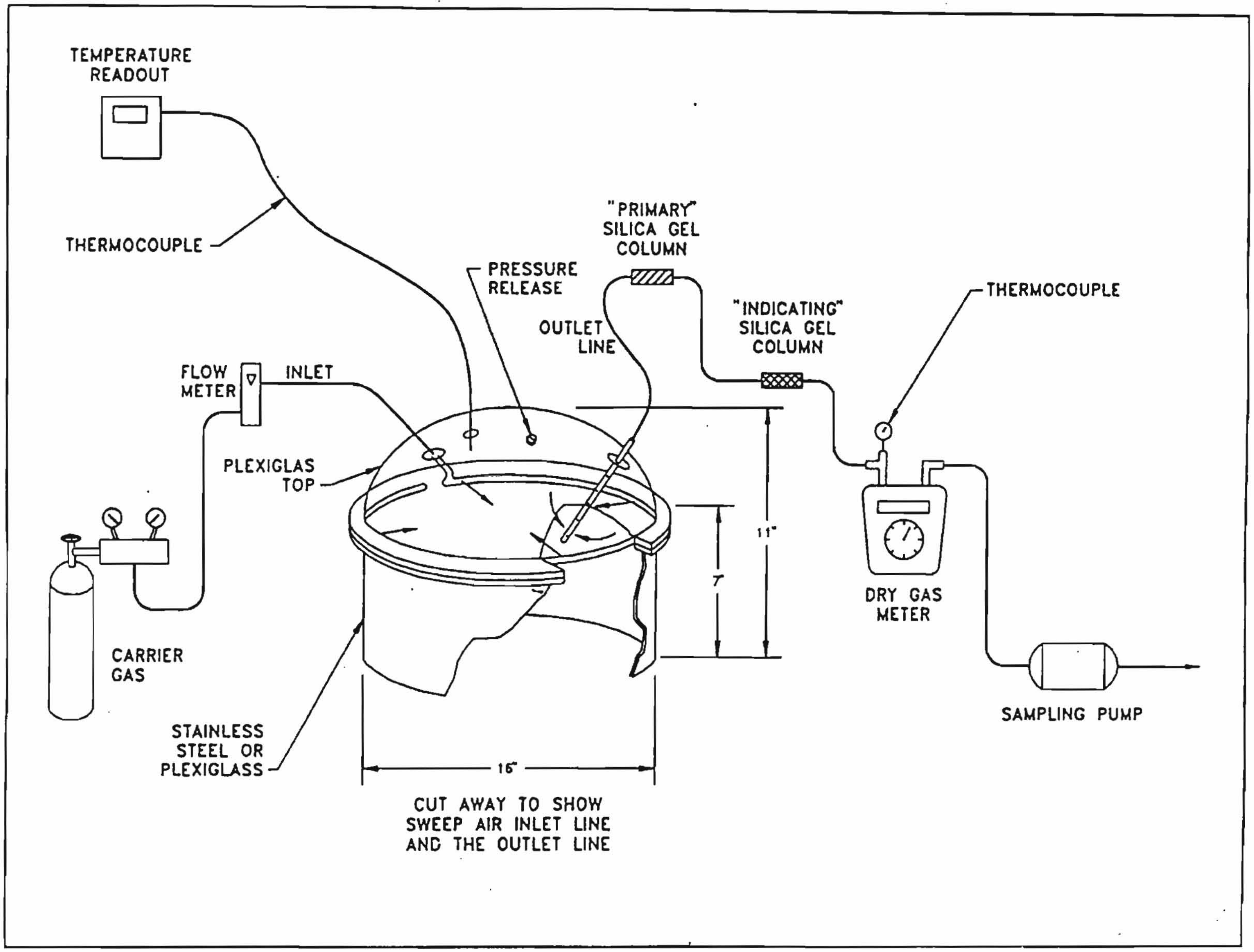

Figure 4.2-3 EIFC Schematic

In another 1992 air monitoring study, PM_{10}'s were placed around the MWL while groundwater monitoring well MW-4 was drilled to a depth of 552 feet beneath Trench D. This air monitoring was designed to quantify potential radionuclide release during intrusive environmental characterization activities. Results showed no difference in airborne radionuclide activity between PM_{10}'s located immediately adjacent to drilling operations and PM_{10}'s located upwind and downwind from the MW-4 drill-site.

In 1993, the classified area of the MWL was subject to intensive tritium flux sampling. Sampling strategy was based on tritium emission rates obtained during the 1992 Radian study. Twenty seven sampling locations were scoped for the 1993 study. Twenty sample locations were selected within the classified area. Six sample locations were selected outside the classified area to determine the extent of tritium migration from the classified area. One sample location was located west of the landfill to be used as a background station. 1993 tritium flux sampling locations are presented in Figure 4.2-4.

Flux of tritiated water was measured using the same methodology as in the 1992 study. Results of the 1993 study are presented in Table 4.2-3. Tritium flux varied from slightly over 100 pCi/m²/hr at sample location 10, the background station, to just over 166,000 pCi/m²/hr at sample location 23, inside the classified area. As shown in the 1992 study, tritium emission rates are greatest in the classified area. Emission rates drop by two orders of magnitude outside the classified area and by three orders of magnitude outside the unclassified area. These data show that the classified area is the primary source of tritium at the landfill. 1993 tritium flux is presented in Figure 4.2-5.

Table 4.2-3 1993 Tritium Flux

Sampling Location	Flux (pCi/m²/hr)	Sampling Location	Flux (pCi/m²/hr)
1	132	15	4290
2	1580	16	107,000
3	210	17	6870
4	1600	18	9460
5	12,100	19	1300
6	978	20	1060
7	498	21	324
8	858	22	1610
9	141,000	23	166,000
10	126	24	1670
11	1310	25	4250
12	786	26	1020
13	1180	27	336
14	3810	—	—

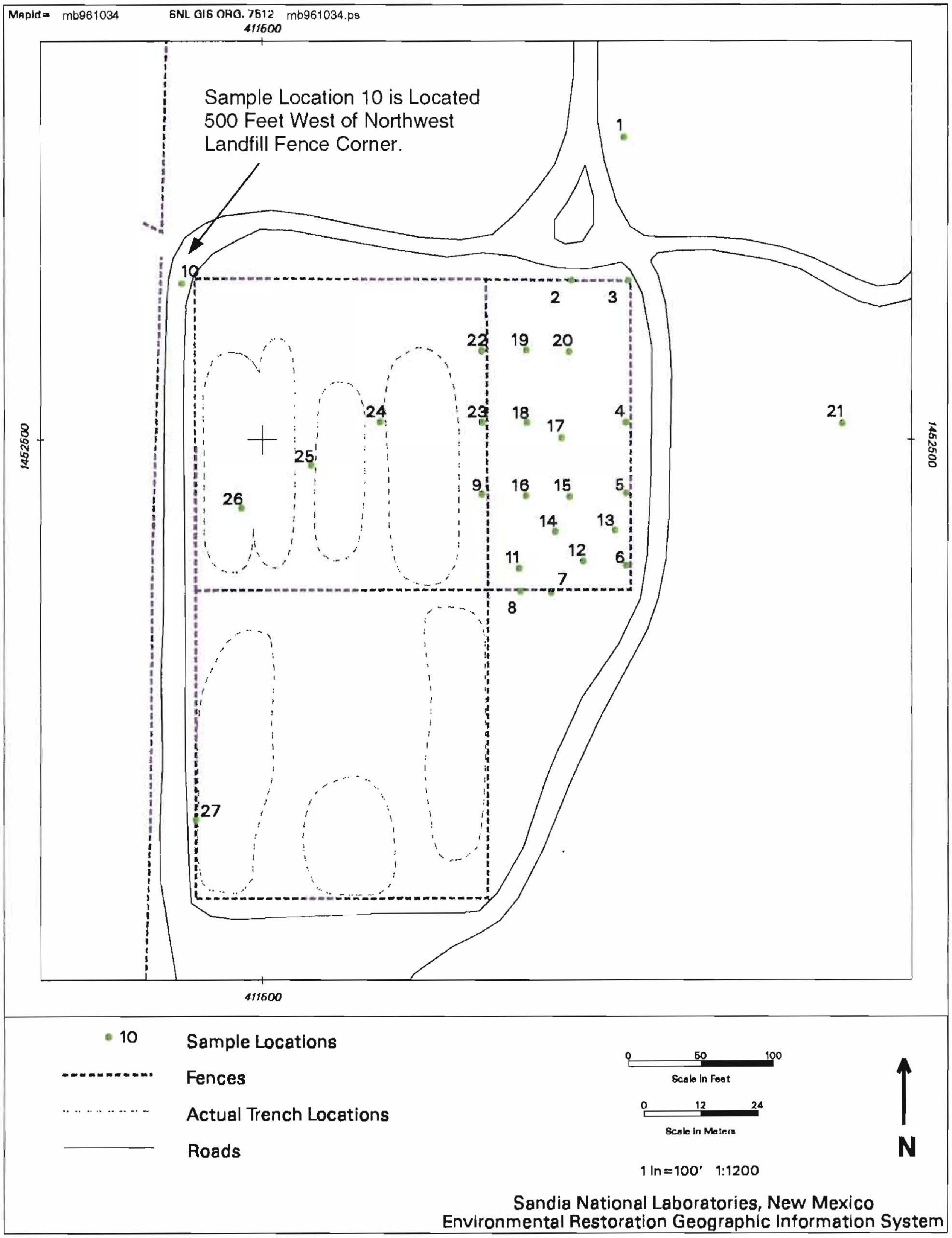

Figure 4.2-4 1993 Tritium Flux Sampling Locations

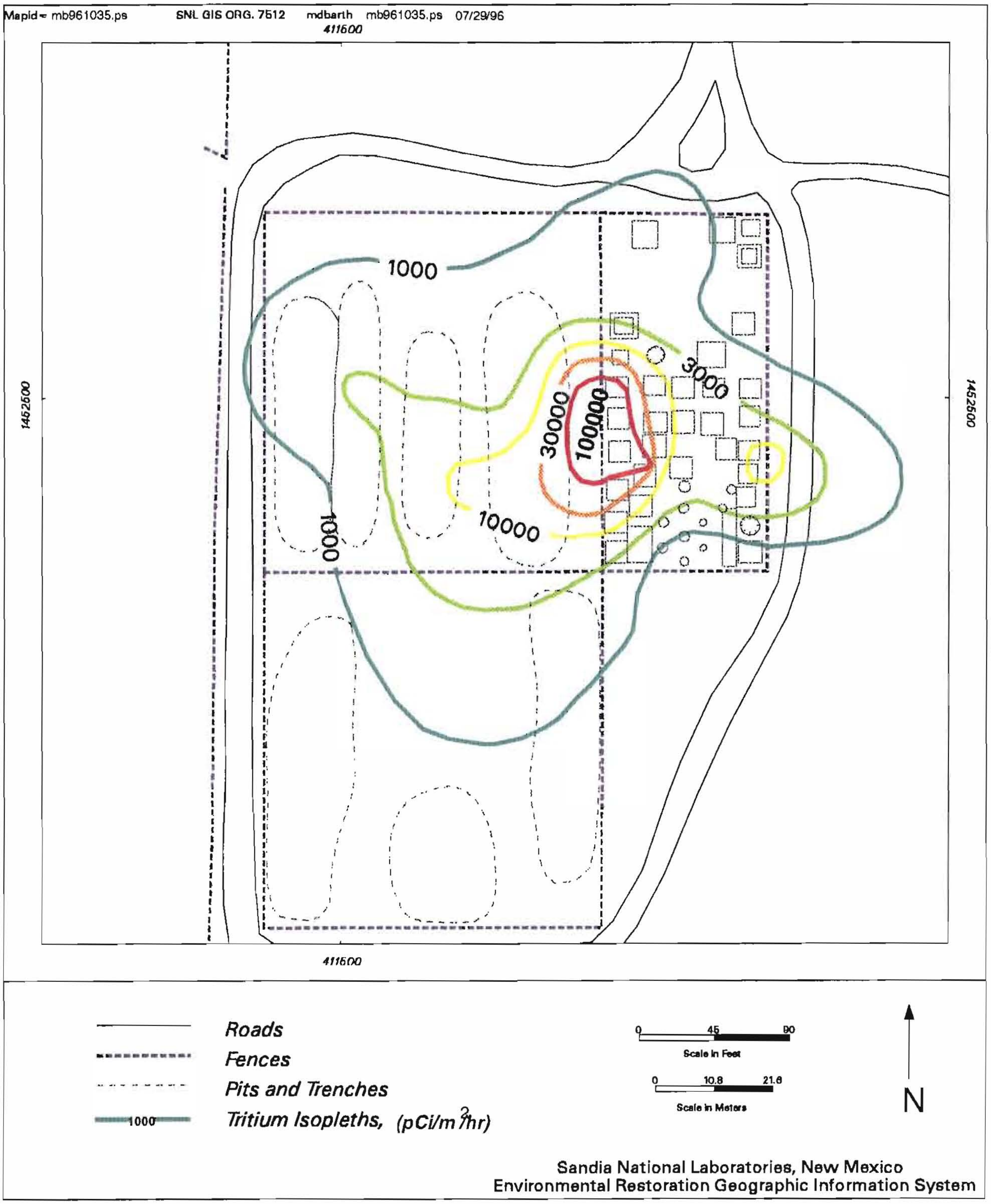

Figure 4.2-5 1993 Tritium Flux

4.2.1 1993 MWL Radiological Release

A total of eight facilities at SNL,NM release measurable quantities of airborne radionuclides. Seven of the eight sources are point releases. The MWL is the only diffuse source with a measurable release. Table 4.2-4 summarizes the complete radionuclide release inventory for SNL,NM in 1993. Based on studies at the MWL, 0.294 Ci of tritium was calculated to be released from the 107,500 ft^2 landfill in 1993 (Radian Corporation, 1994).

4.2.2 MWL Dose Assessment

Facility dose assessments were calculated using EPA's CAP88-PC computer code. The CAP88-PC computer model is a set of computer programs, databases, and associated utility programs for estimating dose and risk from point and areal sources of radionuclide air releases. CAP88-PC consists of modified versions of the AIRDOS-EPA (Moore et al., 1979) and DARTAB (ORNL, 1981) computer code.

The radiological dose to the maximally exposed individual from routine operations at SNL,NM's eight facilities was calculated using the CAP88-PC code. Tables 4.2-5 and 4.2-6 summarize doses to boundary receptors and KAFB receptors, respectively. Individual doses were computed for each of these receptors from each contributing facility. Individual doses were summed to yield the cumulative composite dose (from all facilities) at each receptor. The composite dose analysis yielded a maximum dose impact location for NESHAP at the KUMSC receptor site, located approximately 1 mi northwest of SNL,NM TA 5. The EDE to the maximally exposed individual at KUMSC was calculated to be 0.0016 mrem/yr, well below the NESHAP dose standard of 10 mrem/yr. The MWL contributes 0.5% of the total EDE due to internal exposure from tritium inhalation.

4.3 Non-Intrusive Geophysical Surveys

Non-intrusive geophysical surveys were utilized to determine the location and approximate dimension of disposal trenches before intrusive characterization activities were initiated. The location of unclassified area trenches and unconfirmed reports of burials outside the landfill were of great concern to field personnel. These concerns were addressed using a combination of complementary, non-intrusive geophysical surveys.

The northern half of the unclassified area was surveyed in October 1992. The outside perimeter of the landfill was surveyed in August 1993. The southern half of the unclassified area wasn't surveyed until June 1995. The southern half of the unclassified area had been used for temporary, above-ground storage of low-level radioactive and mixed waste and was surveyed once the containers were removed. Classified area pits were marked and documented well enough to preclude the need for geophysical surveys.

4.3.1 Northern Unclassified Area Geophysical Surveys

Engineering design map 91342 shows the location of 4 trenches, A, B, C, and D, in the northern half of the unclassified area of the landfill (Figure 4.3-1). The design map indicates trenches of equal length, width, depth, and spacing on the 1-acre site. Field observations, however, did not support the designed configuration. There are only 3 earthen berms on-site, presumably indicating three trenches. Each berm is of different length, width, and spacing. The north and south ends of each observed berm is marked with a steel fence post.

Table 4.2-4 SNL,NM Radionuclide Releases for 1993

Location	Source Type	Release	Ci/yr
Annular Core Research Reactor (ACRR)	Point	Ar-41	2.7
		Kr-83m	0.068
		Kr-85	3.7×10^{-6}
		Kr-85m	0.14
		Kr-87	0.17
		Kr-88	0.36
		Rb-86	1.1×10^{-7}
		Rb-87	1.0×10^{-14}
		Rb-88	0.41
		Rb-89	0.0011
		Xe-131m	5.7×10^{-6}
		Xe-133	0.026
		Xe-133m	0.0013
		Xe-135	0.40
		Xe-135m	0.18
		Xe-138	0.0019
Sandia Pulse Reactor (SPR)	Point	Ar-41	0.48
Hermes III	Point	N-13	0.58
		O-15	0.005
Particle Beam Fusion Accelerator II (PBFA)	Point	N-13	0.042
		O-15	0.005
Time-of-Flight Lab (TOF)	Point	H-3	6.0×10^{-5}
Tandem Accelerator	Point	C-11	4.2×10^{-5}
		N-13	9.9×10^{-5}
		O-15	0.0017
		F-18	9.4×10^{-6}
Radiation Lab	Point	H-3	1.0×10^{-5}
		C-14	2.0×10^{-12}
		N-13	1.0×10^{-8}
		Ar-41	1.0×10^{-9}
		Cm-244	7.0×10^{-11}
		Pb-210	4.0×10^{-13}
		U-238	4.0×10^{-12}
		Pu-239	6.0×10^{-12}
		Am-241	1.0×10^{-11}
Mixed Waste Landfill	Diffuse	H-3	0.294

Table 4.2-5 Annual Effective Dose Equivalent (mrem/yr) to Boundary Receptors

Receptor	Rad Lab	Tandem	TOF Lab	ACRR	SPR	Hermes	PBFA II	MWL
Tijeras	1.8×10^{-9}	4.1×10^{-10}	4.7×10^{-9}	1.8×10^{-4}	1.5×10^{-5}	6.5×10^{-7}	4.7×10^{-8}	2.3×10^{-5}
City Landfill	1.0×10^{-9}	8.3×10^{-11}	3.7×10^{-9}	3.4×10^{-5}	3.2×10^{-6}	1.2×10^{-7}	8.4×10^{-9}	7.1×10^{-6}
Airport	2.7×10^{-9}	1.6×10^{-9}	5.5×10^{-9}	1.4×10^{-4}	1.2×10^{-5}	5.0×10^{-6}	3.6×10^{-7}	8.8×10^{-6}
SE Corner of NW Base Housing	1.2×10^{-8}	1.2×10^{-8}	1.2×10^{-8}	1.0×10^{-4}	9.0×10^{-6}	4.7×10^{-5}	3.6×10^{-6}	1.2×10^{-5}
Eubank Gate	6.5×10^{-9}	1.0×10^{-7}	1.5×10^{-8}	1.3×10^{-4}	1.1×10^{-5}	1.4×10^{-5}	1.0×10^{-6}	1.1×10^{-5}
NE Resident	1.0×10^{-9}	2.1×10^{-10}	3.7×10^{-9}	3.1×10^{-5}	3.0×10^{-6}	2.8×10^{-7}	2.1×10^{-8}	5.9×10^{-6}
E Resident	6.8×10^{-10}	1.7×10^{-11}	3.2×10^{-9}	6.3×10^{-6}	6.4×10^{-7}	1.5×10^{-8}	1.1×10^{-9}	4.0×10^{-6}
Isleta Gate	7.3×10^{-10}	1.9×10^{-11}	3.3×10^{-9}	1.0×10^{-5}	1.0×10^{-6}	1.1×10^{-8}	7.8×10^{-10}	5.1×10^{-6}
W Resident	8.7×10^{-10}	3.5×10^{-11}	3.5×10^{-9}	1.7×10^{-5}	1.6×10^{-6}	4.0×10^{-8}	2.8×10^{-9}	5.7×10^{-6}

Table 4.2-6 Annual Effective Dose Equivalent (mrem/yr) to KAFB Receptors

Receptor	Rad Lab	Tandem	TOF Lab	ACRR	SPR	Hermes	PBFA II	MWL
KUMSC	2.8×10^{-9}	2.7×10^{-9}	1.0×10^{-9}	1.6×10^{-3}	5.9×10^{-5}	1.7×10^{-5}	1.2×10^{-6}	8.5×10^{-6}
KAFB Landfill	4.5×10^{-9}	1.9×10^{-8}	1.5×10^{-9}	2.2×10^{-4}	1.8×10^{-5}	7.1×10^{-5}	5.4×10^{-6}	2.8×10^{-6}
Raytheon/ DNA	2.0×10^{-8}	3.1×10^{-8}	6.5×10^{-9}	1.6×10^{-4}	1.3×10^{-5}	1.5×10^{-4}	1.3×10^{-5}	2.6×10^{-6}
Rinchem	1.7×10^{-8}	2.8×10^{-7}	5.4×10^{-9}	1.6×10^{-4}	1.4×10^{-5}	1.1×10^{-4}	9.9×10^{-6}	2.3×10^{-6}
Golf Course Lobby	1.6×10^{-9}	2.1×10^{-9}	5.6×10^{-10}	3.0×10^{-4}	2.0×10^{-5}	1.0×10^{-5}	7.3×10^{-7}	2.0×10^{-6}
Golf Course Maintenance	1.8×10^{-9}	6.9×10^{-9}	6.5×10^{-10}	5.1×10^{-4}	3.2×10^{-5}	3.2×10^{-5}	2.2×10^{-6}	1.7×10^{-6}
Riding Club	1.0×10^{-9}	9.3×10^{-10}	3.8×10^{-10}	6.3×10^{-4}	3.5×10^{-5}	3.9×10^{-6}	2.3×10^{-6}	3.1×10^{-6}
CERF	3.5×1^{-10}	1.2×10^{-10}	1.5×10^{-10}	8.2×10^{-5}	7.3×10^{-6}	2.9×10^{-7}	2.8×10^{-7}	1.5×10^{-6}
Lovelace	6.8×10^{-10}	2.1×10^{-10}	2.9×10^{-10}	8.3×10^{-5}	7.8×10^{-6}	2.1×10^{-7}	2.1×10^{-8}	1.5×10^{-6}
Manzano	6.5×10^{-10}	5.4×10^{-10}	2.5×10^{-10}	2.1×10^{-4}	1.4×10^{-5}	2.2×10^{-6}	1.5×10^{-8}	2.3×10^{-6}
Credit Union	4.5×10^{-6}	2.2×10^{-7}	1.3×10^{-6}	9.8×10^{-5}	8.6×10^{-6}	2.1×10^{-5}	1.6×10^{-7}	1.8×10^{-6}
North Base Housing	3.1×10^{-8}	1.8×10^{-7}	9.6×10^{-9}	1.0×10^{-4}	9.1×10^{-6}	1.9×10^{-5}	1.4×10^{-6}	1.7×10^{-6}
Building 887	2.3×10^{-8}	6.7×10^{-6}	7.1×10^{-9}	1.2×10^{-4}	1.0×10^{-5}	3.1×10^{-5}	2.2×10^{-6}	1.8×10^{-6}
Trailer Village	1.6×10^{-8}	9.1×10^{-5}	5.1×10^{-9}	1.4×10^{-4}	1.2×10^{-5}	2.9×10^{-5}	2.0×10^{-6}	2.0×10^{-6}

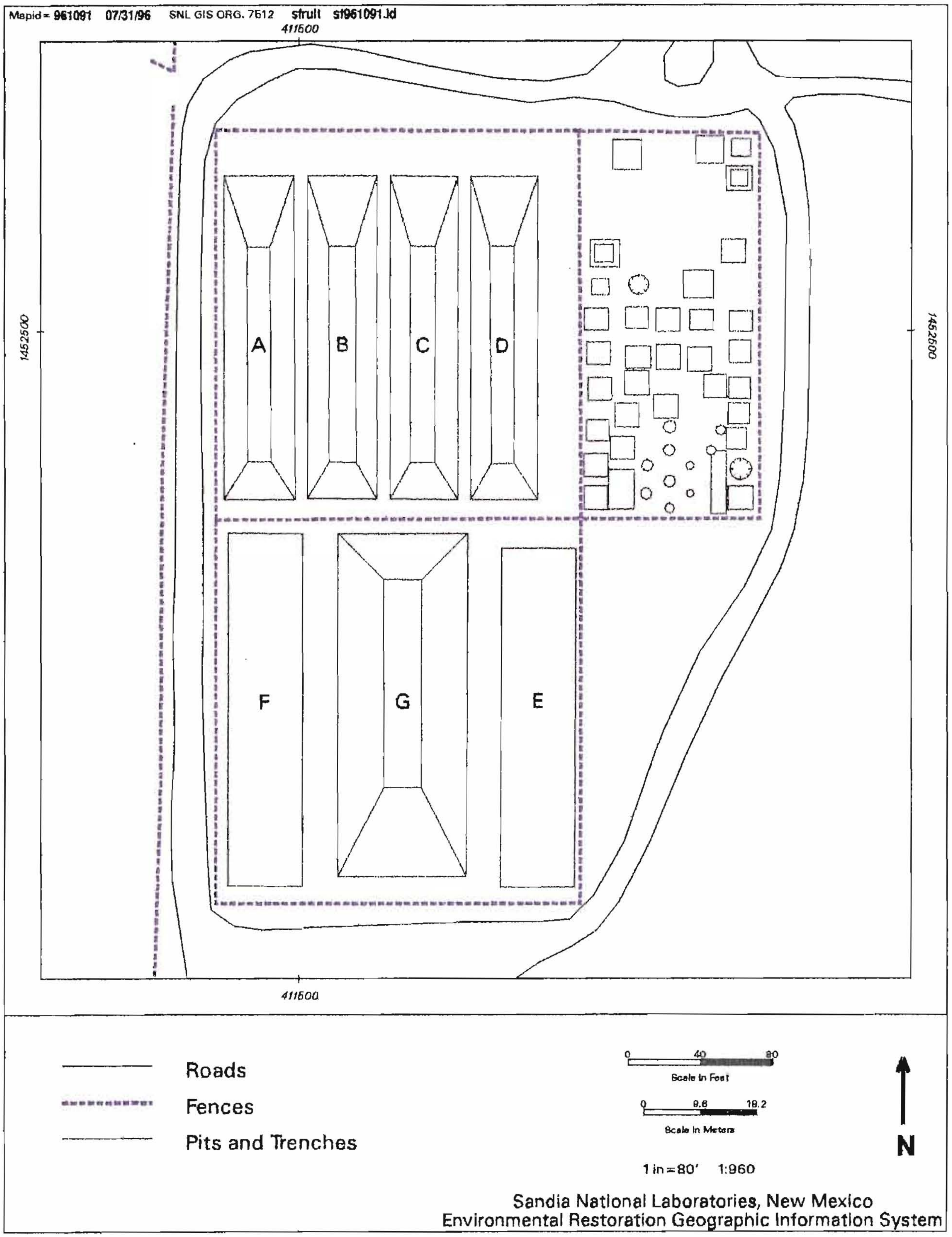

Figure 4.3-1 MWL Engineering Design Map 91342

4.3.2 Survey Design

The northern half of the unclassified area covers approximately 43,000 ft^2 and is fenced on all sides. The 1-acre site was grided on 5-foot centers starting with the northwest corner of the landfill (Figure 4.3-2). The northwest cornerpost was designated as the origin, (0,0), with 5 foot stations staked to the east along the north fenceline as 5E, 10E, 15E, ... to 200E and south along the west fenceline as 5S, 10S, 15S, ... to 215S. This grid and point of origin was used for all Phase 2 RFI activities. Each 5-foot grid station was occupied for data acquisition with a Geonics EM-31 and a Geometrics 856AX total field magnetometer. Readings were taken from west to east then east to west along successive survey lines with spatial control maintained within 6 in. A Geonics EM-61 high resolution metal detector, a wheel-mounted instrument with an encoder that automatically triggers data acquisition during a traverse, was pulled along each grid line with data acquired every 8 in. All data were recorded in the field with data loggers.

4.3.3 Ground Conductivity Survey

The Geonics EM-31 was operated in the vertical dipole mode and both ground conductivity and the in-phase component of the induced magnetic field were recorded. The EM-31 has an effective depth of penetration of approximately 18 feet. EM-31 ground conductivity and in-phase field data were processed with DAT31 (Geonics, 1992) and compiled and plotted with Geosoft Mapping and Processing System, a PC-based mapping and processing software package (Geosoft, 1994).

4.3.4 Magnetic Gradient Survey

A Geometrics G-856AX proton precession magnetometer operated in the gradient mode was used to acquire vertical magnetic gradient data. The vertical magnetic gradient survey utilized two magnetic sensors deployed on the same vertical staff. The top and bottom sensors were positioned 9.2 ft and 4.6 ft above the ground, respectively. The vertical magnetic gradient was calculated by subtracting the top sensor reading from the bottom sensor reading, then dividing by the sensor separation. The gradient data were reduced using MAGLOC (TerraSense, 1993) and compiled and plotted with Geosoft Mapping and Processing System.

4.3.5 Metal Detection Survey

The Geonics EM-61 was utilized to discriminate between soil conductivity and highly conductive ferrous and non-ferrous metallic objects. The EM-61 has an effective depth of penetration of approximately 10 feet. EM-61 response data were processed with DAT61 (Geonics, 1994) and compiled and plotted with Geosoft Mapping and Processing System.

4.3.6 EM-31 Ground Conductivity Results

EM-31 ground conductivity data are presented in Figure 4.3-3. Areas of low conductivity are shown in blue and areas of high conductivity are shown in red. The contour interval is 5 mS/m.

Ground conductivity values vary from 15 mS/m to well over 200 mS/m near the fences. Typical background conductivity values outside the MWL are on the order of 15 mS/m. There is a distinct feature along grid line 155E, between 60S and 100S, marked by high-amplitude, low-conductivity anomalies. The magnitude and limited extent of these anomalies indicates buried metal. There are also two broad areas of low conductivity centered on grid line 100E. These features may indicate areas of undisturbed ground or the burial of low density, non-conductive material.

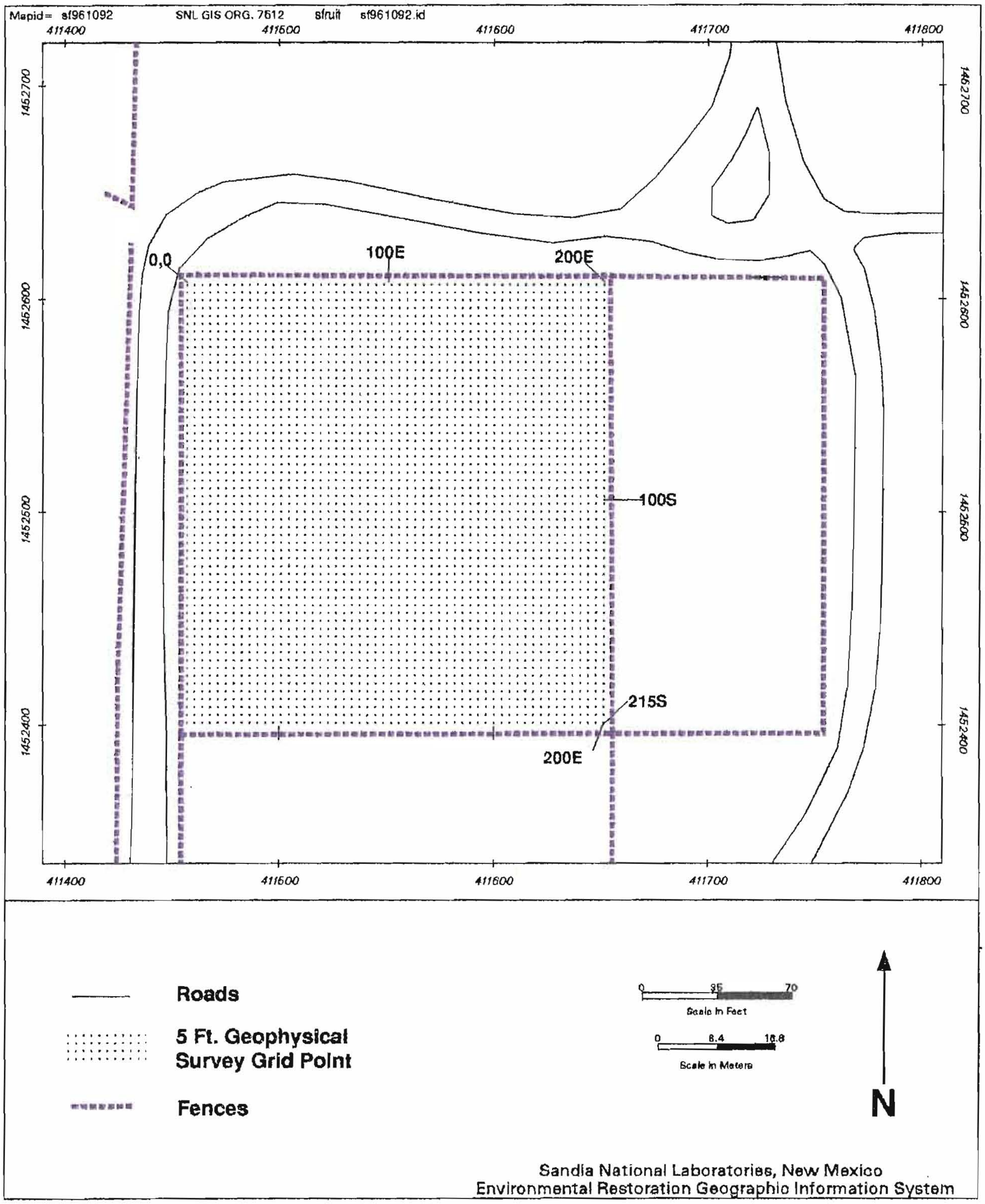

Figure 4.3-2 MWL Survey Grid

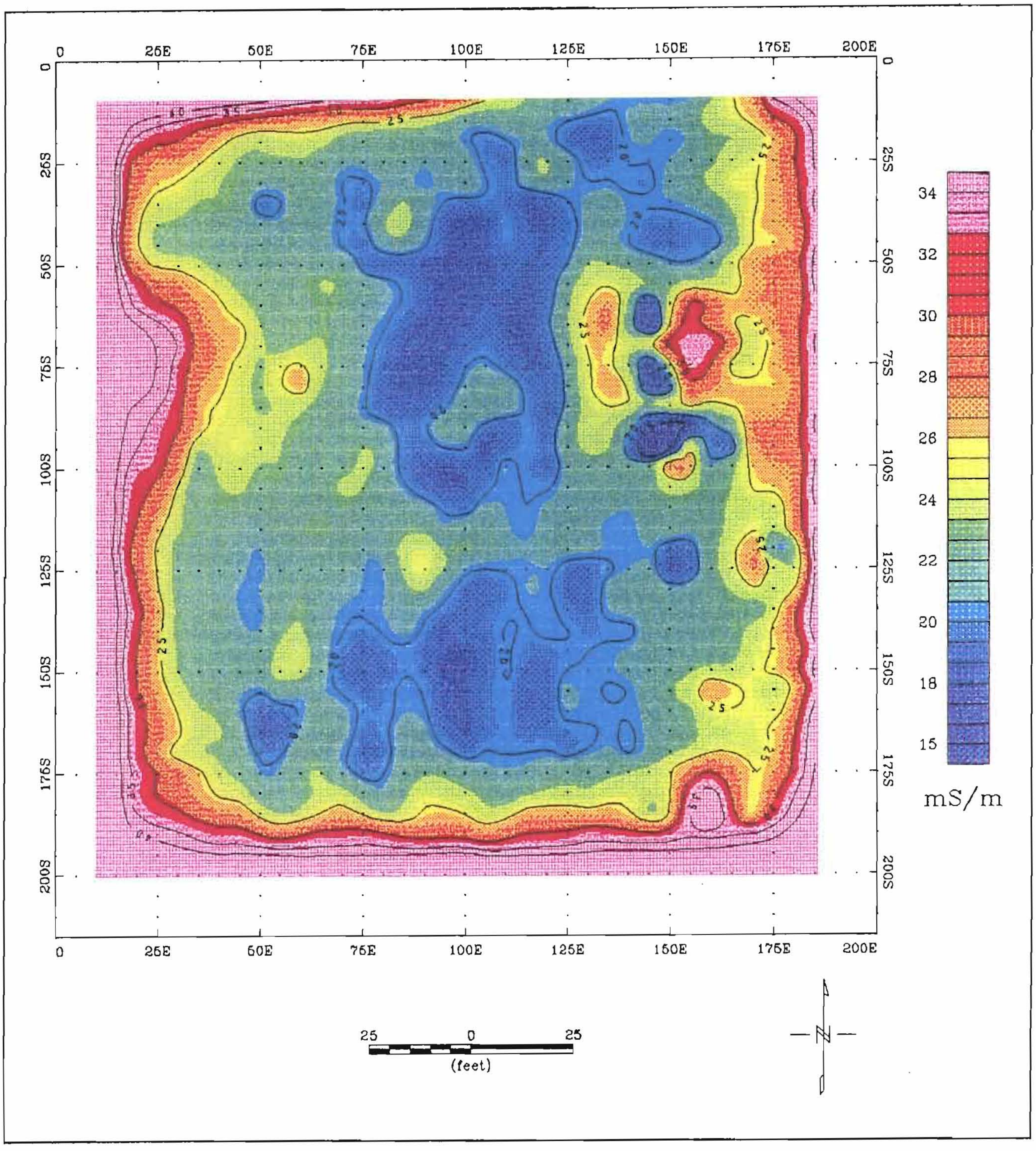

Figure 4.3-3 EM-31 Ground Conductivity

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EM-31 in-phase data are presented in Figure 4.3-4. Negative in-phase data are shown in blue, positive in-phase data are shown in green through pink. Contour lines are drawn at 0, 2, 4, 8, 12, 16, 20, and 24 ppt/100. Two distinct lineaments occur along grid lines 100E and 155E. There appear to be two coalescing lineaments along grid lines 20E and 55E. The feature along line 155E is quite pronounced, with closely spaced high- and low-amplitude anomalies, indicating a significant mass of buried metal. The feature along grid line 100E is distinct but of less magnitude, perhaps indicating less buried metal. The coalescing linear features along grid lines 20E and 55E probably represent two very closely spaced disposal trenches.

4.3.7 Magnetic Gradient Results

Magnetic gradient data are presented in Figure 4.3-5. Negative gradient values trend toward blue and positive gradient values trend toward pink. The contour interval is 100 gamma/m.

Three distinct linear features occur along grid lines 20E, 100E, and 155E and an additional, more subtle linear feature occurs along grid line 55E. Spurious dipolar anomalies are prevalent in the magnetic gradient data indicating random orientation of buried metal objects. At least three large metal objects occur along grid line 155E at 85S, 100S and 195S. At least one large metal object occurs along grid line 100E at 140S and one along grid line 20E at 90S.

The location of trenches A, B, C, and D is quite evident when one superimposes EM-31 in-phase data and positive vertical magnetic gradient data. This superposition is presented in Figure 4.3-6. The exact outline of each trench is difficult to determine but the general location of the disposal trenches can be inferred to be:

Trench A: Along grid line 20E between 50S and 200S.
Trench B: Along grid line 55E between 45S and 175S.
Trench C: Along grid line 100E between 70S and 185S.
Trench D: Along grid line 155E between 50S and 205S.

4.3.8 Metal Detection Results

EM-61 response data are presented in Figure 4.3-7. Increasing response trends toward pink. Contours are drawn at 5, 25, 50, 100, 200 and 500 mV. EM-61 response data ranges from a few mV (background) to several hundred mV.

The location and outline of each disposal trench is obvious. Disposal trenches occur along grid line 20E between 50S and 200S; along grid line 55E between 30S and 170S; along grid line 100E between 70S and 180S; and along grid line 155E between 50S and 200S. The "as-built" configuration was, as suspected, quite different from the engineered design as drawn on engineering design map 91342 (compare Figures 4.3-1 and 4.3-7). The actual disposal trenches are not of equal length, width, and spacing on the 1-acre disposal site and were not commonly constructed with sloping walls.

4.3.9 Southern Unclassified Area Geophysical Surveys

The Geonics EM-61 and an Geometrics G-858 cesium-vapor magnetometer were used for trench delineation in the southern half of the unclassified area.

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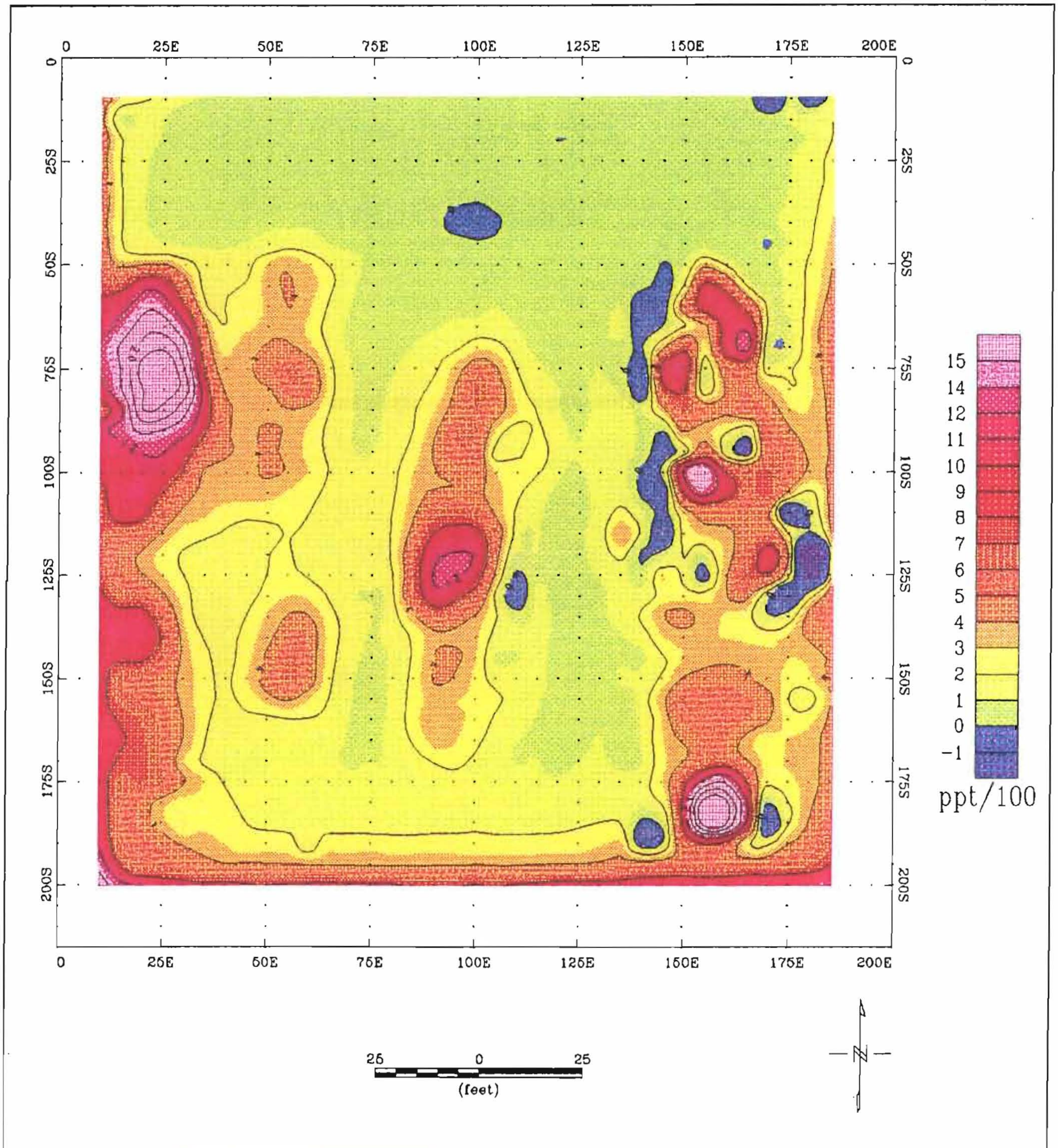

Figure 4.3-4 EM-31 In-Phase

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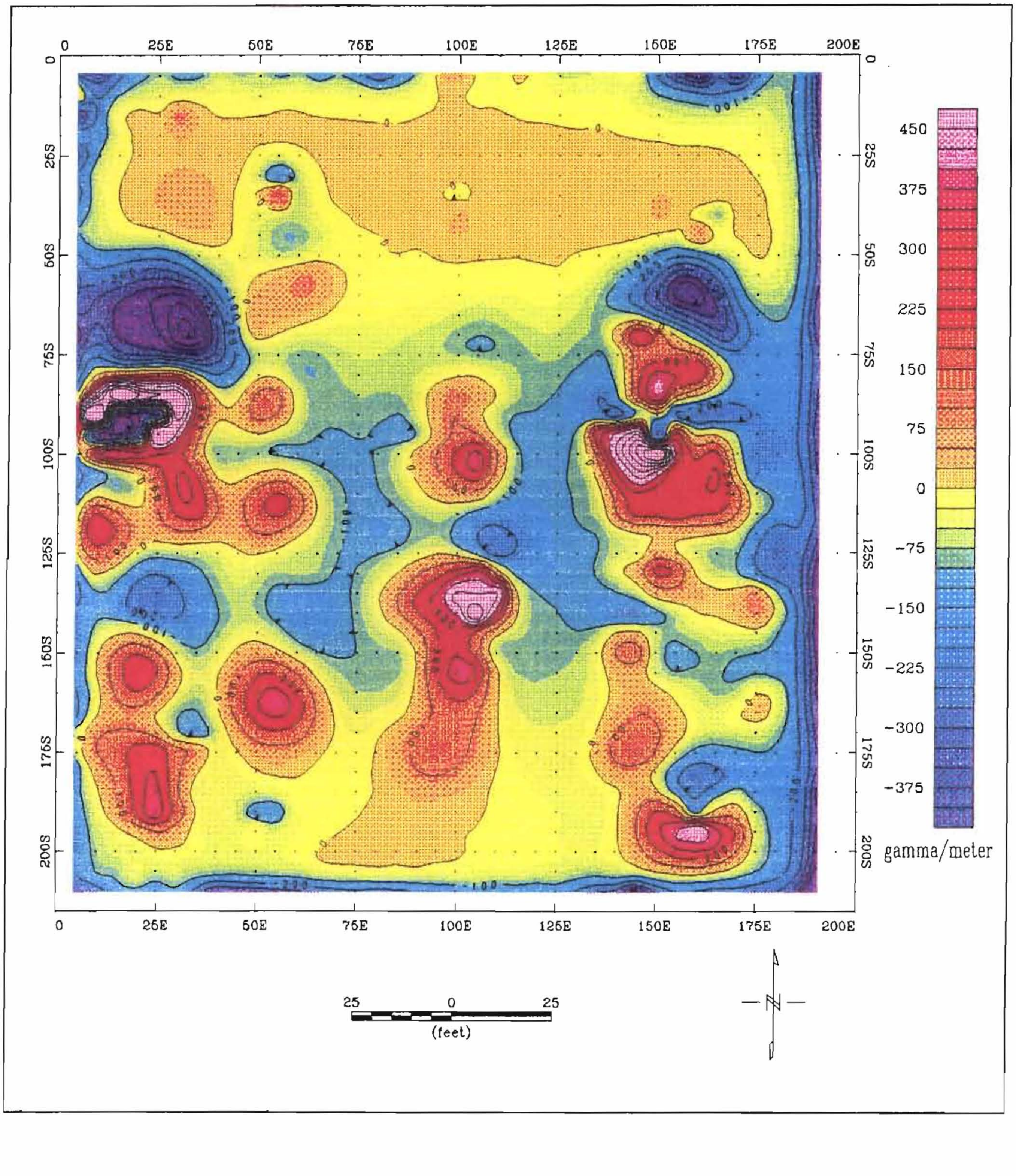

Figure 4.3-5 Vertical Magnetic Gradient

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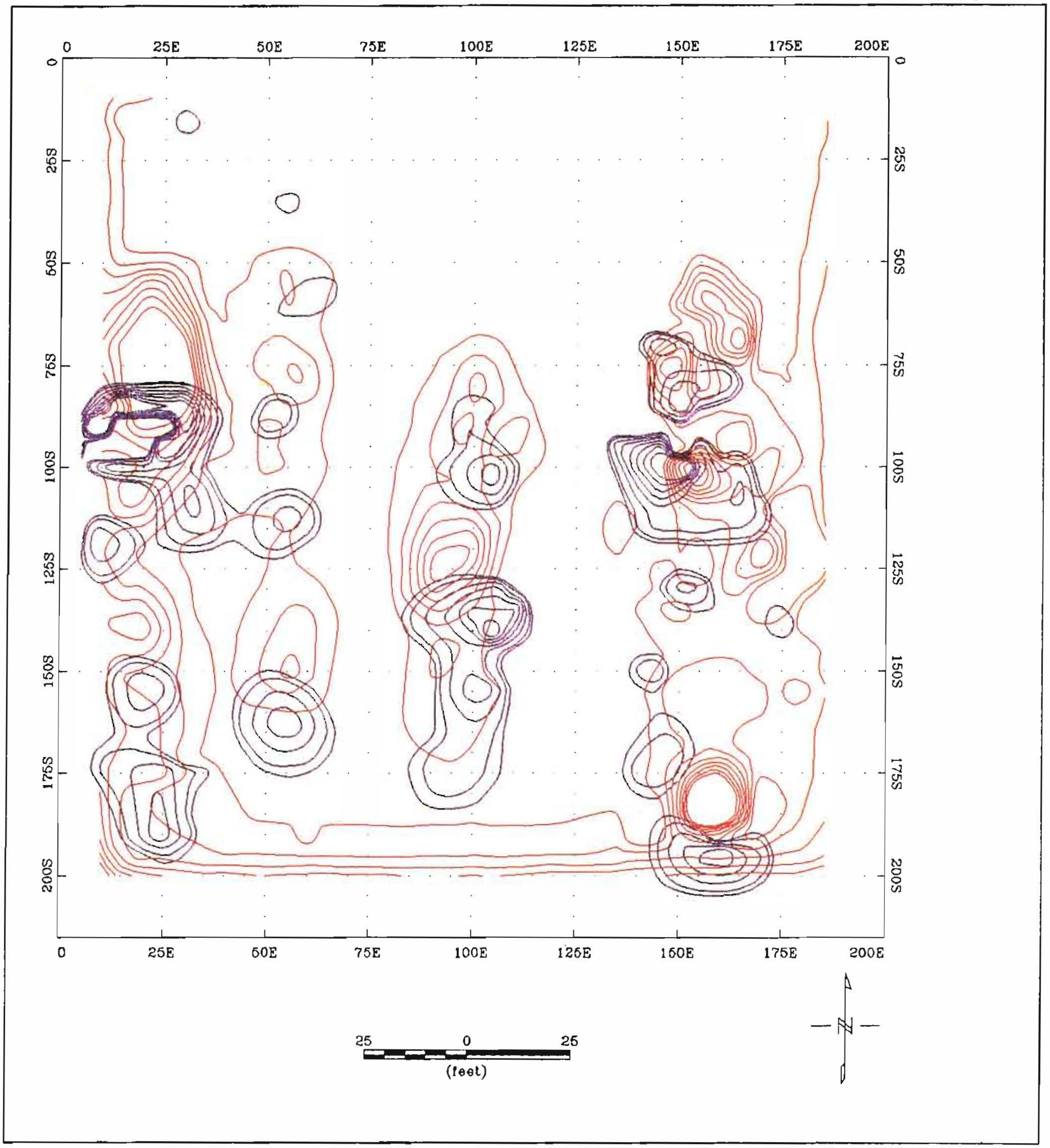

Figure 4.3-6 Superposition of EM-31 In-Phase and Vertical Magnetic Gradient

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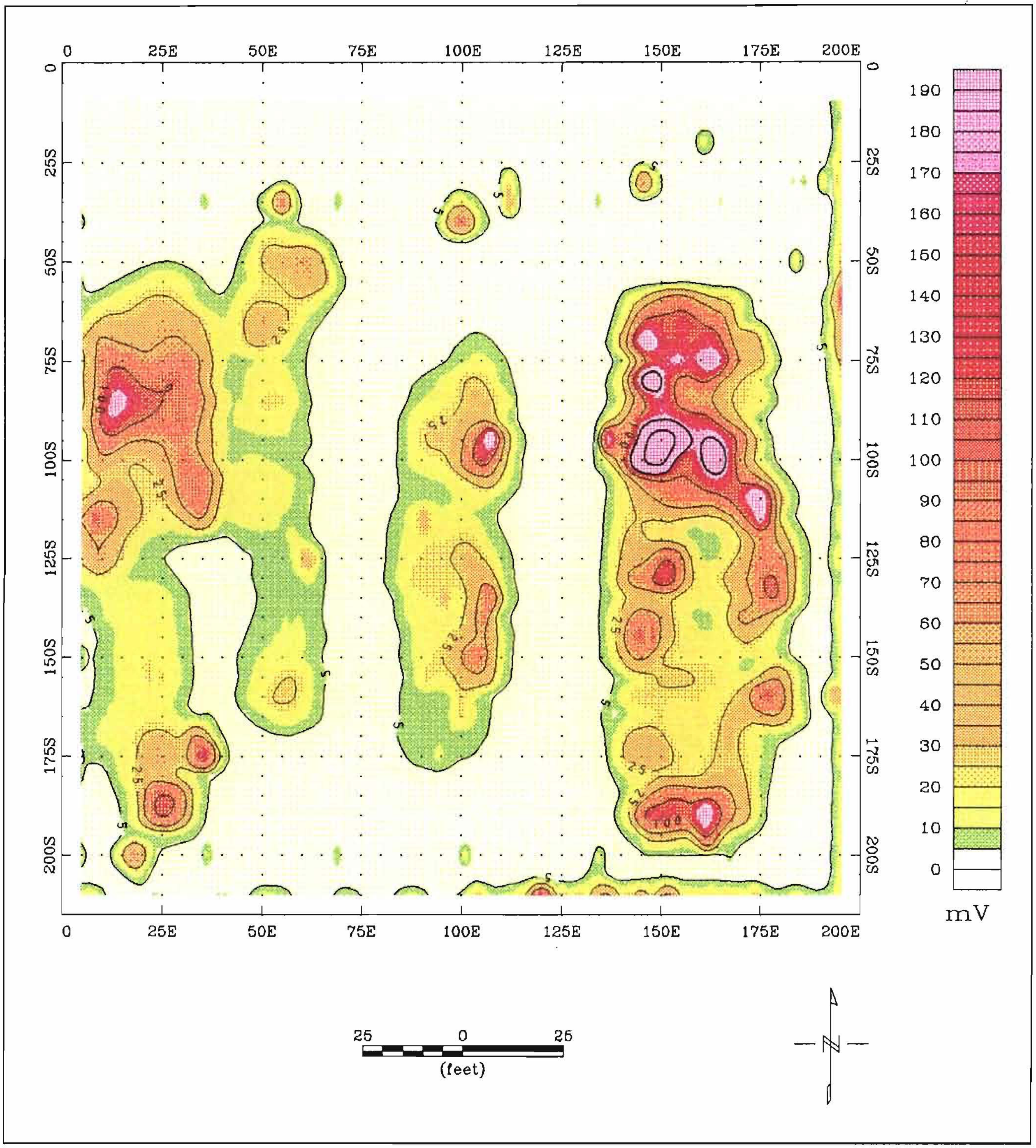

Figure 4.3-7 EM-61 Response

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EM-61 response data are presented in Figure 4.3-8. Increasing response trends toward pink. Contours are drawn at 5, 50, 100, 300, 500, and 500 mV. EM-61 response data ranges from a few mV (background) to several hundred mV.

Magnetic gradient data are presented in Figure 4.3-9. Negative gradient values trend toward blue and positive gradient values trend toward pink. The contour interval is 100 gamma/m.

The location and outline of Trench E and F is obvious. The "as built" configuration is similar to the engineered design as drawn on engineering design map 91342 (compare Figures 4.3-1 and 4.3-8). Numerous, individual metal objects are visible in each trench. The geophysical signature for Trench G, however, is quite limited compared to what is shown on Figure 4.3-1. Trench G was open and active at the time the landfill was closed in December 1988. Apparently, Trench G was only partially filled with waste before it was backfilled and the landfill closed.

4.3.10 MWL Perimeter Geophysical Surveys

Reports of burials outside the fenced perimeter of the landfill were investigated with the EM-31 and a Schonstedt 52B fluxgate magnetometer. Results confirm that there are no undocumented burials within 100 ft of the MWL fence.

4.4 Surface Soil Sampling for Tritium

In July 1993, 92 surface soil samples were collected at the MWL for tritium analysis. Sampling density and location were based on MWL historical records and 1982 tritium sampling results (Millard et al., 1983). Sampling was expanded to include the southern half of the unclassified area which was not sampled in 1982. 1993 sample locations are presented in Figure 4.4-1.

1982 and 1993 sampling results are presented in Figure 4.4-2 and 4.4-3 respectively. 1993 data closely resemble 1982 data. 1993 tritium activities are greatest within the classified area of the landfill and seem to form concentric rings around Pit 33. The maximum tritium activity observed during the 1993 program, 1103 pCi/g, occurred on the south side of Pit 33. The maximum tritium activity observed during the 1982 program, 10,400 pCi/g, occurred on the east side of Pit 33.

Historical records reveal that a total of 1,861 Ci of tritium were disposed of at the MWL from March 1959 to January 1983. 1,451 Ci were disposed of in the classified area of the landfill. 822 Ci of the amount disposed of in the classified area were disposed of in Pit 33 between May 1979 and January 1983. The remaining 410 Ci of the tritium disposed of at the MWL were probably disposed of in unclassified area Trenches A through D. Trench A, the first active trench, was excavated in late 1962 and Trench C, the last active trench, was backfilled and capped in early 1980. Figure 4.4-4 depicts the amount of tritium disposed of in specific pits in the classified area of the landfill from 1959 to 1983. No information has been found to date on the quantity of tritium disposed of in Trenches A through D.

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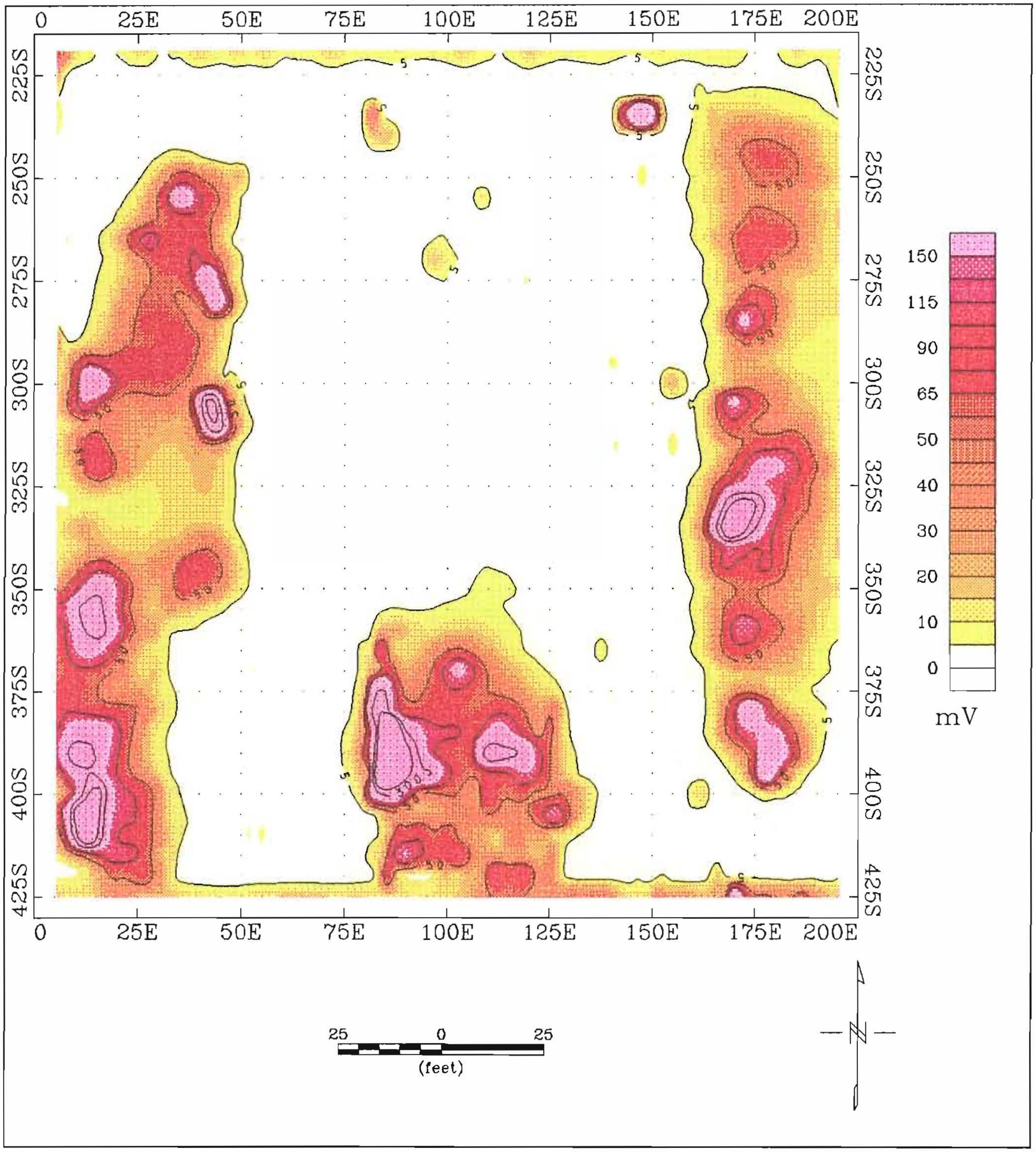

Figure 4.3-8 EM-61 Response

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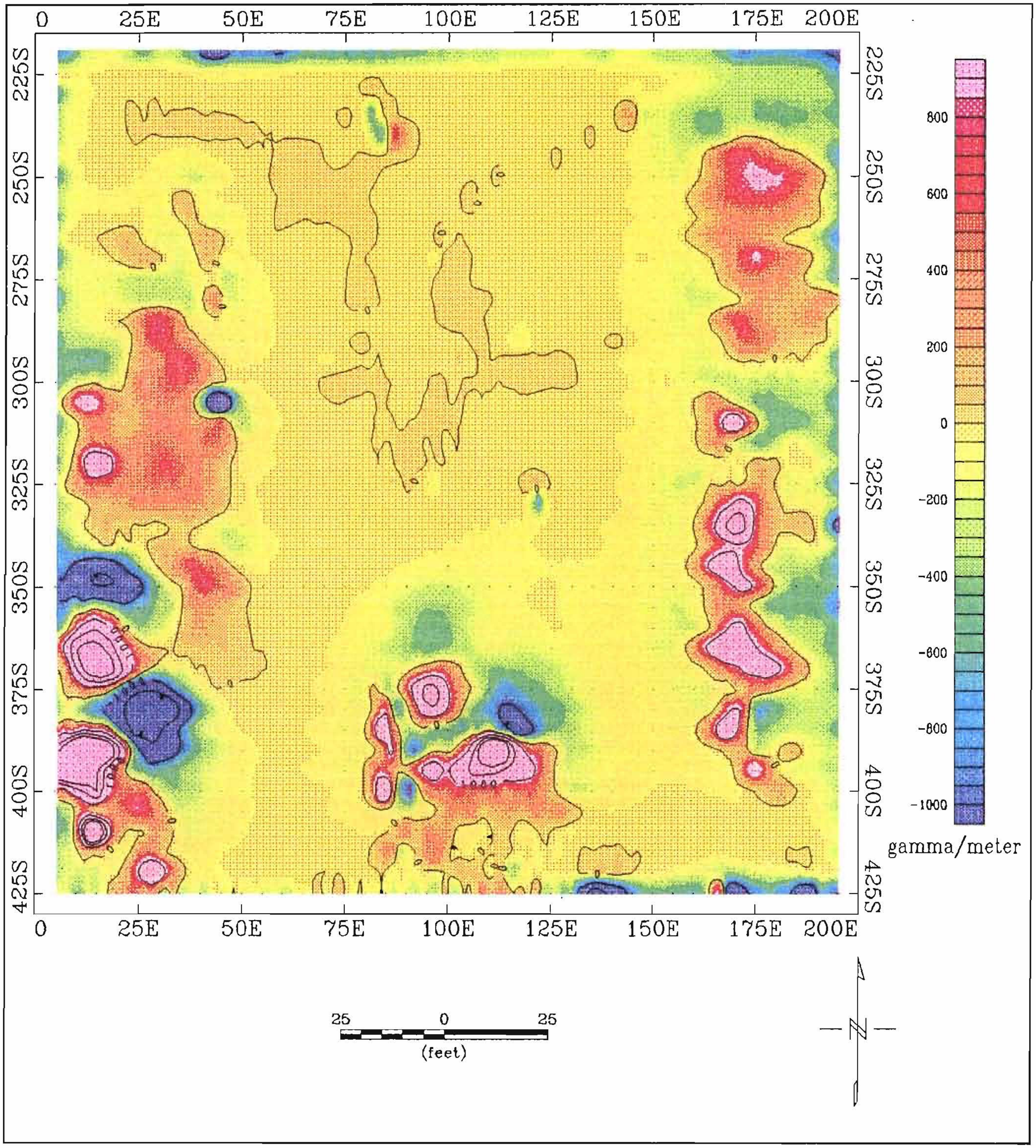

Figure 4.3-9 Vertical Magnetic Gradient

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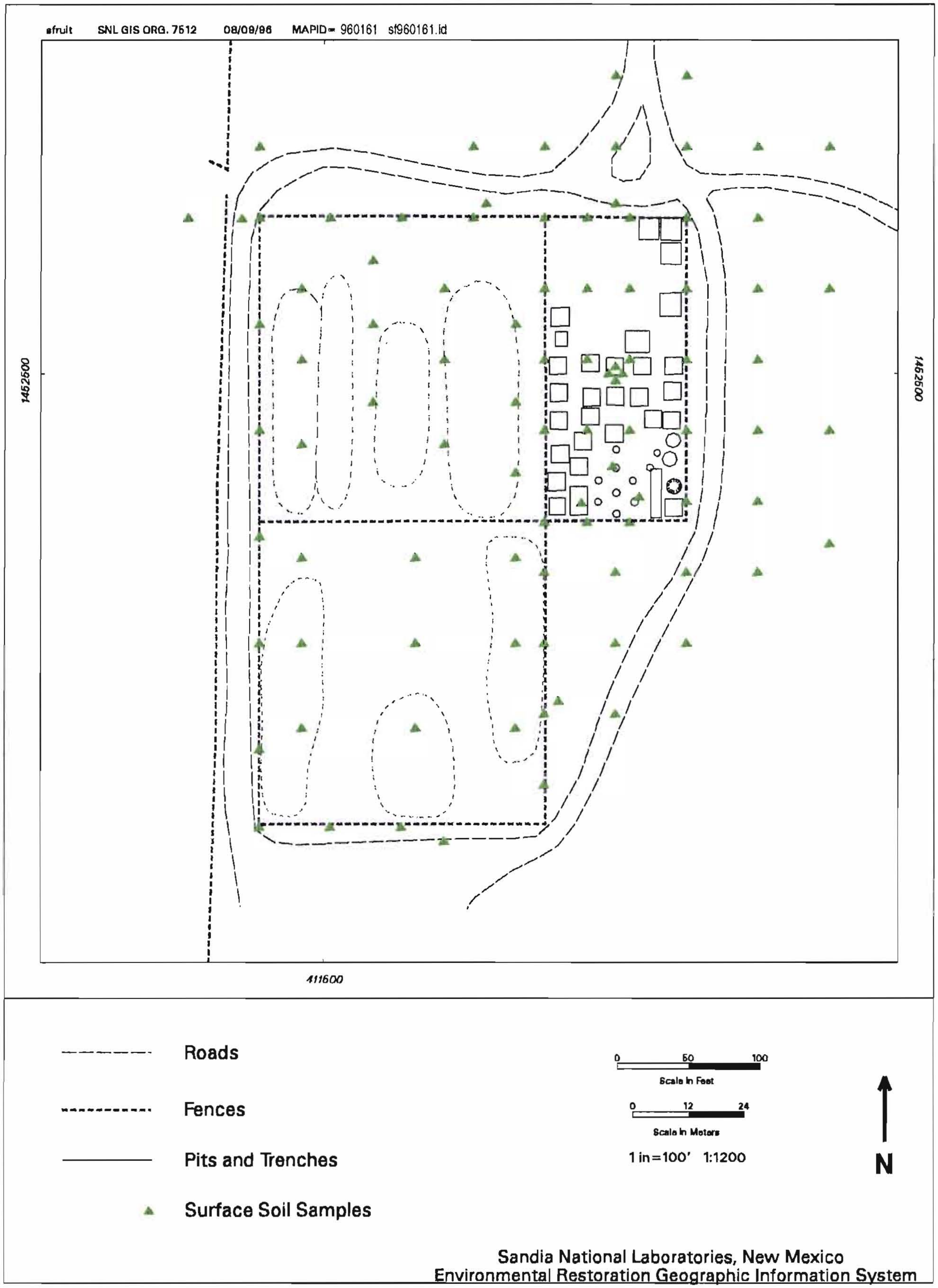

Figure 4.4-1 Tritium Surface Soil Sampling Locations

Figure 4.4-2 1982 Tritium Surface Soil Sampling Results

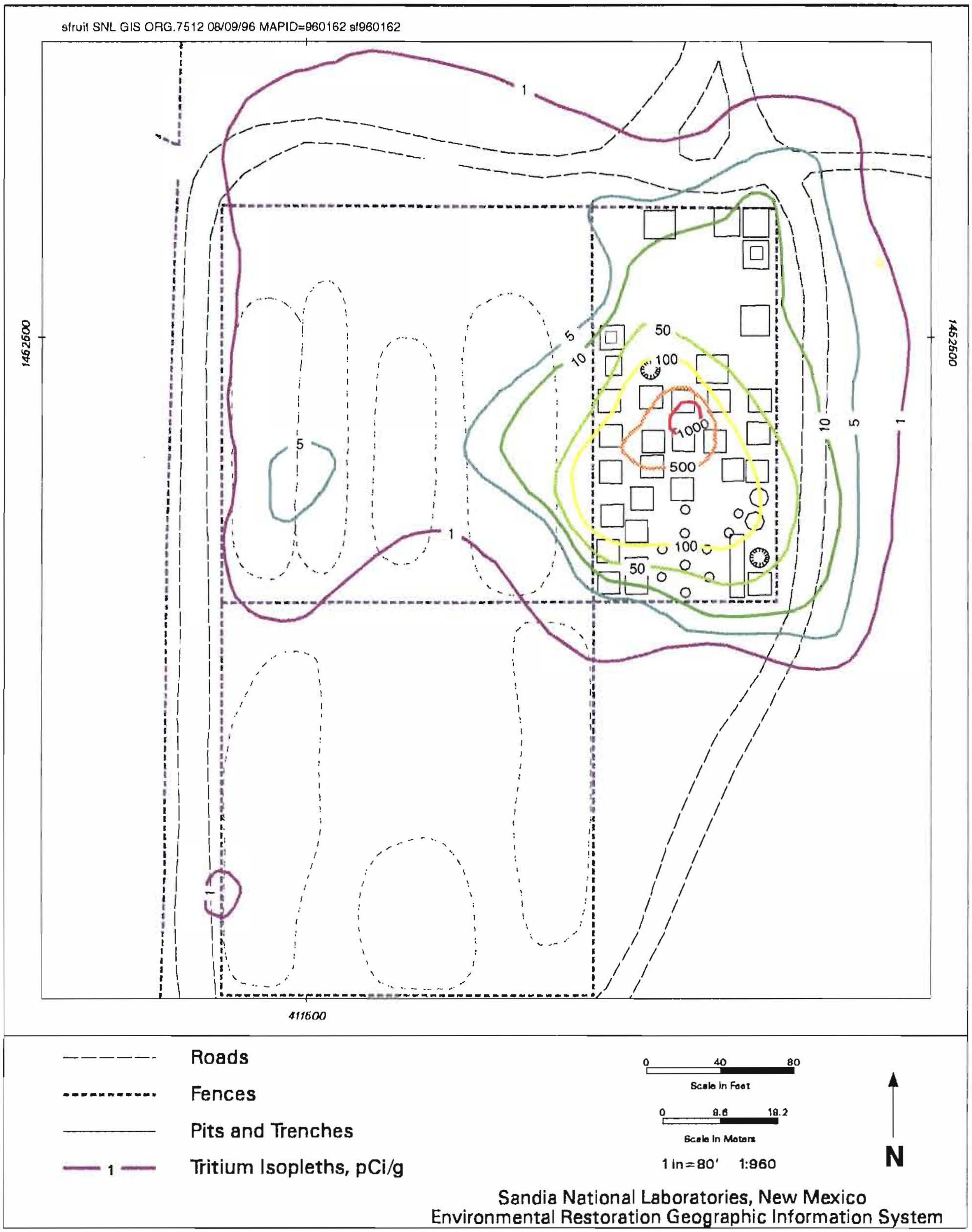

Figure 4.4-3 1993 Tritium Surface Soil Sampling Results

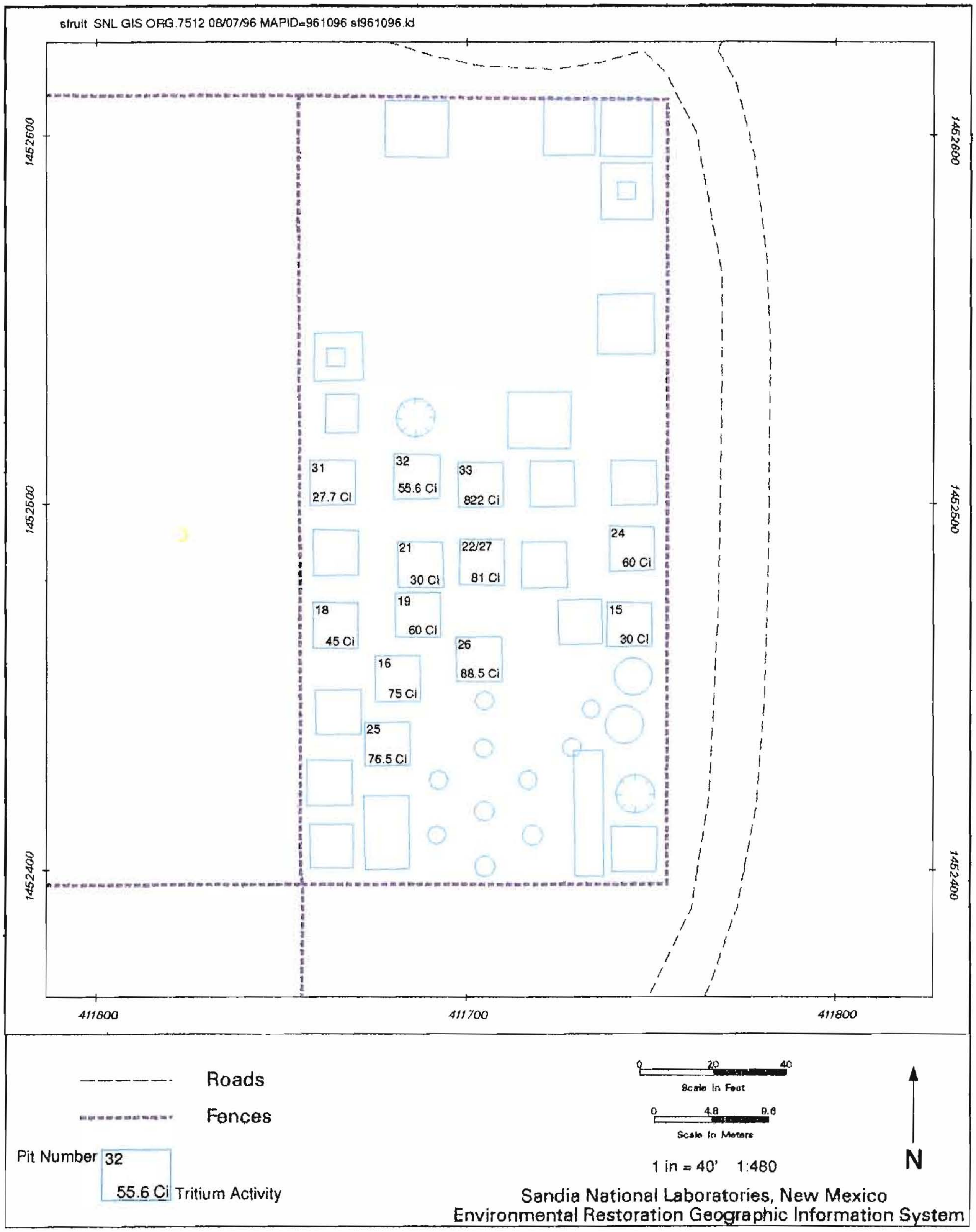

Figure 4.4-4 Classified Area Tritium Disposal, 1959-1983

1993 tritium activities are one order of magnitude lower than 1982 tritium activities. The distribution of tritium in surface soils in and around the MWL is attributed to historical tritium disposal practices at the MWL. 78% of the total tritium disposed of at the MWL was disposed of in the classified area. 57% of the total tritium disposed of in the classified area was disposed of in Pit 33. 1982 and 1993 tritium activity and distribution in surface soils substantiate MWL disposal records. Tritium distribution is restricted primarily to the northern half of the MWL. The greatest concentration of tritium occurs in the classified area with activity levels forming concentric rings around Pit 33.

4.5 Soil Gas Surveys

Soil gas surveys were used to assess the nature and extent of VOCs in surface and near-surface soils at the MWL. Passive soil gas surveys were employed as a surface reconnaissance tool because large areas of the landfill could be sampled over a short period of time for relatively low cost. Passive soil gas surveys identified surface areas with anomalous soil gas emission rates. Active soil gas surveys were then employed to obtain more quantitative soil gas information at depth. Passive and active soil gas sampling locations were identified using the same grid established for geophysical surveys described in Section 4.3-2.

4.5.1 Passive Soil Gas Surveys

Quadrel Services, Inc., Ijamsville, Maryland, was selected to perform passive soil gas surveys at the MWL because of their surface-based, non-intrusive sampling technology. Quadrel developed a proprietary soil gas sampling method, EMFLUX^R, which is based on sampling of the soil gas flux at the surface using a hemispherical flux chamber containing a proprietary adsorbent cartridge. EMFLUX^R sampling equipment is illustrated in Figure 4.5-1. Samples are typically collected over a 72-hour period and analyzed by GC/MS using CLP procedures. Transfer of the adsorbed gases from the cartridge into a GC/MS system is accomplished through the standard purge and trap sampling system (NETAC, 1989).

Two passive soil gas sampling surveys were conducted at the MWL in 1993. A total of 93 EMFLUX^R flux chambers were deployed during the two sampling events. Analysis of the EMFLUX^R adsorbent cartridges was performed by Quadrel's contract laboratory, Maryland Spectral Services, Inc., Baltimore, Maryland. Maryland Spectral Services analyzed all EMFLUX^R sample cartridges with GC/MS equipment, using a modified EPA Method 8240 (Table 4.5-1). Each cartridge was analyzed for VOCs specified on EPA's standard Target Compound List for the EPA CLP. Laboratory results, reported in nanograms of a specific contaminant recovered per cartridge, were then converted by Quadrel to average flux reported in ng/m^2/min using the subtended area of the collector shell and the period of exposure for each sample. In addition to the 93 field samples collected, nine control samples and two trip blanks were incorporated into the two rounds of sampling for QA/QC.

4.5.1.1 First-Round EMFLUX^R Sampling

First-round passive soil gas sampling was conducted by Quadrel and SNL,NM personnel from 30 July to 2 August 1993. Seventy-one EMFLUX^R flux chambers were deployed at the MWL. First-round sampling locations are shown in Figure 4.5-2. Of the 71 flux chambers deployed, 51 were placed in and around the classified area: 18 inside the fenced perimeter and 33 outside the fenced perimeter. The remaining 20 flux chambers were placed in the unclassified area. Sampling was focused on the classified area because it is the oldest section of the landfill.

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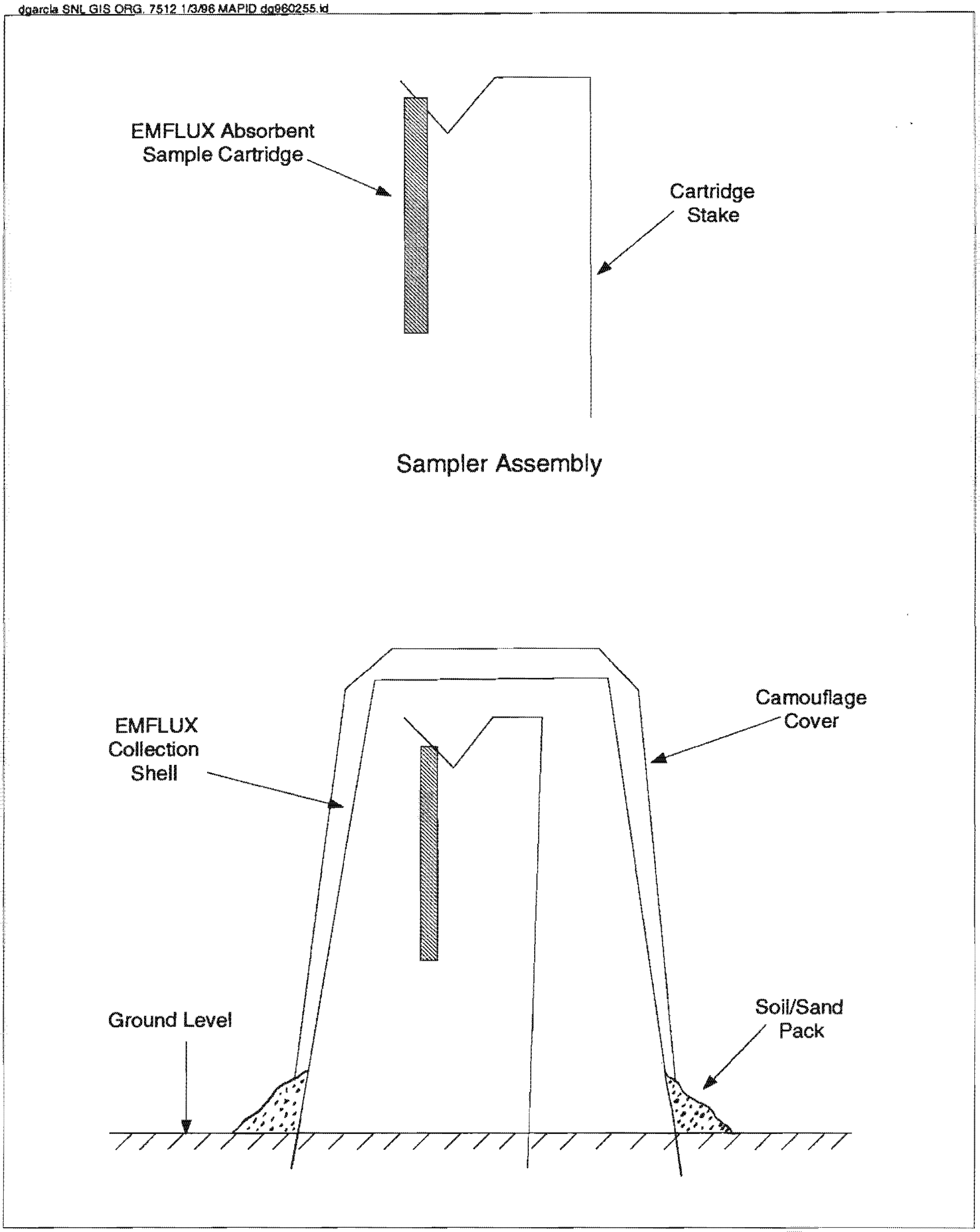

Figure 4.5-1 EMFLUX Sampling Equipment Schematic

Table 4.5-1 EMFLUX Modified Laboratory Procedures

After exposure, EMFLUX^R cartridges are analyzed as follows:	
A.	The GC/MS equipment to be used is calibrated in accordance with the EPA Contract Laboratory method for low waters.
B.	The exposed cartridge is placed in a Tekmar Autosampler chamber where it is desorbed at 270 degrees C for 11 minutes at 40 ml/min helium, through a sparging vessel containing five ml of water with internal standards and surrogates into a three-component trap on a Tekmar Liquid Sample Concentrator. The three components in the secondary trap are Tenax, silica gel, and coconut charcoal.
C.	The secondary trap is thermally desorbed at 220 degrees C into a Restek 502.2 capillary column, per the EPA CLP Statement of Work.
D.	Following the Statement of Work, the GC/MS is scanned between 35 and 260 Atomic Mass Units at two seconds per scan.
E.	The internal standard method is used to determine the amounts of analytes found.
F.	The compounds found are measured against five ml of aqueous standard analyzed previously.

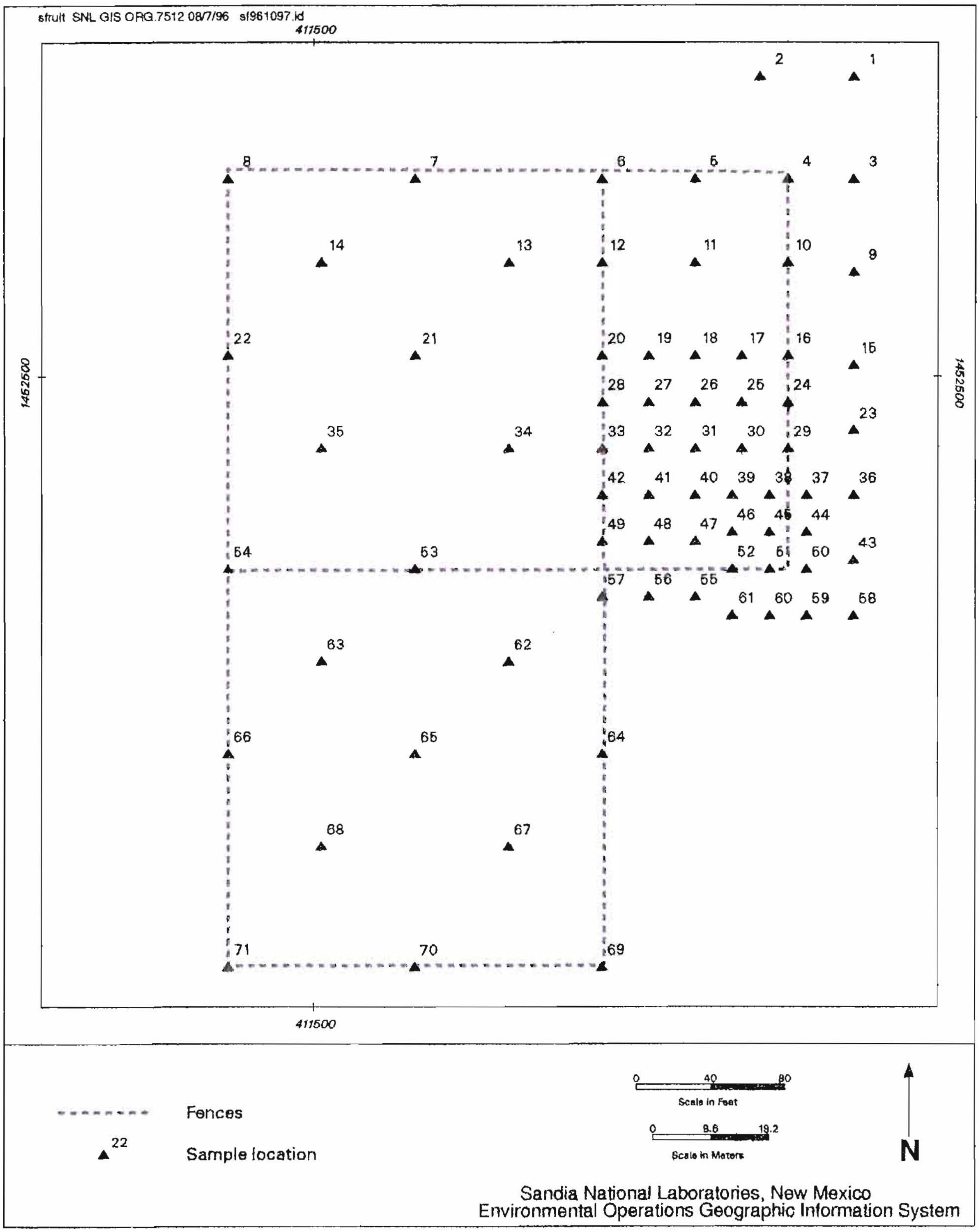

Figure 4.5-2 First-Round Passive Soil Gas Sampling Locations

Results of first-round passive soil gas sampling are presented in Table 4.5-2. This table provides the coordinates for each sample collected, the sample location number, and VOC flux. Twelve VOCs were detected in surface soil gas at the MWL. Each VOC is discussed in the following sections.

Tetrachloroethene (PCE)

PCE was detected at 48 of the 71 sample locations (Figure 4.5-3). The highest flux occurs in the northern unclassified area. PCE flux at sample locations 35, 21, 14, and 22 are 396.2 $ng/m^2/min$, 359.6 $ng/m^2/min$, 241.4 $ng/m^2/min$, and 199.9 $ng/m^2/min$, respectively. Sample locations 35 and 14 are directly above Trench B; sample location 21 is directly above Trench C; and sample location 22 is adjacent to Trench A. Flux at sample locations 13 (56.3 $ng/m^2/min$) and 34 (48.5 $ng/m^2/min$) are directly above Trench D.

Trichloroethene (TCE)

TCE was detected at 36 of the 71 locations sampled (Figure 4.5-4). The highest TCE flux occurs in the classified area. TCE flux at sample locations 48, 18, and 47 are 327.4 $ng/m^2/min$, 190.1 $ng/m^2/min$, and 59.2 $ng/m^2/min$, respectively. The remaining classified area flux is below 22.7 $ng/m^2/min$. The highest TCE flux in the northern unclassified area, 8.9 $ng/m^2/min$ (sample location 14) and 6.7 $ng/m^2/min$ (sample location 35), occurs directly above Trench B. TCE was detected at only two sample locations in the southern unclassified area.

1,1,1-Trichloroethane (TCA)

1,1,1-TCA was detected at 24 of the 71 locations sampled (Figure 4.5-5). The highest flux, 23.5 $ng/m^2/min$, occurs at sample location 35, directly above Trench B. All other 1,1,1-TCA flux levels are much lower than sample location 35. The highest flux in the classified area occurs at sample location 48 (2.5 $ng/m^2/min$). 1,1,1-TCA was detected at only two sample locations in the southern unclassified area.

Toluene, Ethylbenzene, Xylene

Toluene was detected at 17 of the 71 locations sampled (Figure 4.5-6). The highest flux, 2.2 $ng/m^2/min$, occurs at sample location 35, directly above Trench B. Of the remaining toluene flux, all but two of the values exceeding 1.4 $ng/m^2/min$ occur in the northern unclassified area above Trenches C and D, and adjacent to Trench A. A flux rate of 1.6 $ng/m^2/min$ occurs at sample location 58, in the southeast corner of the classified area, outside the fence. A flux of 1.9 $ng/m^2/min$ occurs at sample location 63 in the southern unclassified area, directly above Trench F.

It is questionable whether toluene detects are part of the common BTEX grouping used to identify gasoline and other petroleum compounds. No benzene was reported at any sample location; and, although ethylbenzene (1.2 $ng/m^2/min$ at sample location 39) and xylene (0.8 $ng/m^2/min$ at sample location 13) were detected, xylene was detected with toluene only at sample location 13.

Table 4.5-2 First-Round Passive Soil Gas Flux ($ng/m^2/min$)[a]

Sample Location X Coordinate[b] (feet)	Sample Location Y Coordinate[c] (feet)	Sample Number	tetrachloro-ethene (PCE)[d]	trichloro-ethene (TCE)[d]	1,1,1-trichloro-ethane (1,1,1-TCA)[d]	1,1,2-trichloro-trifluoroethane[d]	dichloro-ethyne[e]	toluene[d]	acetone[d]	isopropyl ether[d]	1,1-dichloro-ethene[d]	styrene[d]	ethly-benzene[d]	xylene[d]
335	50	1	1.1	U	U	U	U	U	U	U	U	U	U	U
285	50	2	4.2	U	U	U	U	U	U	U	U	U	U	U
335	-5	3	U	U	U	U	U	U	U	U	U	U	U	U
300	-5	4	0.9	U	U	U	U	U	U	U	U	U	U	U
250	-5	5	3.5	U	U	U	U	U	U	U	U	U	U	U
200	-5	6	U	U	U	U	U	U	U	U	U	U	U	U
100	-5	7	45.5	3.7	U	U	U	1.3	U	U	U	U	U	U
0	-5	8	25.3	1.8	U	U	U	1	U	U	U	U	U	U
335	-55	9	U	U	U	U	U	U	U	U	U	U	U	U
300	-50	10	U	U	1	U	U	1	0.7	U	U	U	U	U
250	-50	11	0.8	1.1	U	U	U	U	U	U	U	U	U	U
200	-50	12	0.9	U	1.1	U	U	U	U	U	U	U	U	U
150	-50	13	56.3	2.1	U	U	U	1.8	3.6	U	U	U	U	0.8
50	-50	14	241.4	8.9	U	U	1.1	1.6	U	U	U	U	U	U
335	-105	15	U	U	U	U	U	U	U	U	U	U	U	U
300	-100	16	U	U	1.1	0.9	U	U	U	U	U	U	U	U
275	-100	17	2.5	2.8	U	U	1.3	U	U	U	U	U	U	U
250	-100	18	5.9	190.1	0.25	1.2	U	U	U	U	U	U	U	U
225	-100	19	23.8	17.8	U	U	2.3	1.4	U	U	U	U	U	U
200	-100	20	12.8	3.2	U	U	U	1	U	U	U	U	U	U
100	-100	21	359.6	1.3	1.1	U	U	1.6	U	U	U	U	U	U
0	-100	22	199.9	2.1	U	U	U	1.7	U	U	U	U	U	U
335	-140	23	U	U	U	U	U	U	U	U	U	U	U	U
300	-125	24	U	1.4	1.3	0.3	U	U	U	U	U	U	U	U
275	-125	25	2.5	3.9	U	U	0.9	U	U	U	U	U	U	U
250	-125	26	0.9	19	U	U	1.7	U	U	U	U	U	U	U

(a) $ng/m^2/min$ - nanograms per square meter per minute
(b) East: positive; west: negative
(c) North: positive; south: negative
(d) Volatile organics analyzed by EPA GC/MS method 8240 (modified).
(e) Dichloroethyne was tentatively identified by mass spectral comparison with the National Bureau of Standards Library.
U Below reported quantitation level

Table 4.5-2 First-Round Passive Soil Gas Flux (ng/m²/min)[a] (Continued)

Sample Location X Coordinate[b] (feet)	Sample Location Y Coordinate[c] (feet)	Sample Number	tetrachloro-ethene (PCE)[d]	trichloro-ethene (TCE)[d]	1,1,1-trichloro-ethane (1,1,1-TCA)[d]	1,1,2-trichloro-trifluoroethane[d]	dichloro-ethyne[e]	toluene[d]	acetone[d]	isopropyl ether[d]	1,1-dichloro-ethene[d]	styrene[d]	ethly-benzene[d]	xylene[d]
225	-125	27	4.1	7.2	U	U	1.7	U	U	U	U	U	U	U
200	-125	28	0.8	U	U	0.1	U	U	U	U	U	U	U	U
300	-150	29	U	U	1.2	U	U	U	U	U	U	U	U	U
275	-150	30	U	U	U	U	U	U	U	U	U	U	U	U
250	-150	31	3.1	2.7	U	U	1.3	1.1	U	U	U	U	U	U
225	-150	32	7.1	1.1	0.8	U	U	U	U	U	U	U	U	U
200	-150	33	1.7	1.7	1	U	U	U	U	U	U	U	U	U
150	-150	34	48.5	U	U	U	U	U	U	U	U	U	U	U
50	-150	35	396.2	6.7	23.5	U	U	2.2	U	U	1.3	U	U	U
335	-175	36	U	U	U	U	U	U	U	U	U	U	U	U
310	-175	37	U	U	1.2	0.1	U	U	U	U	U	U	U	U
290	-175	38	U	1.4	1.4	U	U	U	U	U	U	U	U	U
270	-175	39	3.8	5.7	U	U	U	U	U	0.9	U	U	1.2	U
250	-175	40	1.5	15.9	U	U	1.3	U	U	35.7	U	U	U	U
225	-175	41	U	U	U	U	U	U	U	U	U	U	U	U
200	-175	42	U	0.9	0.9	U	U	U	U	U	U	U	U	U
335	-210	43	U	U	U	U	U	U	U	U	U	U	U	U
310	-195	44	U	U	U	U	U	1	U	U	U	U	U	U
290	-195	45	U	2.4	0.9	U	1.4	U	U	U	U	U	U	U
270	-195	46	6.7	22.7	2	1	1.7	U	U	U	U	U	U	U
250	-200	47	5.4	59.2	U	U	0.9	1.1	U	U	U	U	U	U
225	-200	48	9.4	327.4	2.5	U	103.3	U	U	U	U	U	U	U
200	-200	49	1.6	2	2.1	U	U	U	U	U	U	U	U	U
310	-215	50	1.3	U	U	U	U	U	U	U	U	U	U	U
290	-215	51	U	1.7	1.1	0.2	U	U	U	U	U	U	U	U
270	-215	52	1.3	5.2	1.2	U	U	U	U	U	U	U	U	U

(a) ng/m²/min - nanograms per square meter per minute
(b) East: positive; west: negative
(c) North: positive; south: negative
(d) Volatile organics analyzed by EPA GC/MS method 8240 (modified).
(e) Dichloroethyne was tentatively identified by mass spectral comparison with the National Bureau of Standards Library.
U Below reported quantitation level

Table 4.5-2 First-Round Passive Soil Gas Flux (ng/m^2/min)[(a)] (Concluded)

Sample Location X Coordinate[(b)] (feet)	Sample Location Y Coordinate[(c)] (feet)	Sample Number	tetrachloro-ethene (PCE)[(d)]	trichloro-ethene (TCE)[(d)]	1,1,1-trichloro-ethane (1,1,1-TCA)[(d)]	1,1,2-trichloro-trifluoroethane[(d)]	dichloro-ethyne[(e)]	toluene[(d)]	acetone[(d)]	isopropyl ether[(d)]	1,1-dichloro-ethene[(d)]	styrene[(d)]	ethly-benzene[(d)]	xylene[(d)]
100	-215	53	1.2	U	0.9	0.2	U	U	U	U	U	U	U	U
0	-215	54	22.6	U	U	U	U	1.6	U	U	U	U	U	U
250	-230	55	7.1	3	U	U	U	U	U	U	U	U	U	U
225	-230	56	1.8	1.2	1.2	U	U	U	U	U	U	U	U	U
200	-230	57	4.4	1.4	2.3	0.2	U	U	3.9	U	U	U	U	U
335	-240	58	2.8	U	U	U	U	1.6	U	U	U	U	U	U
310	-240	59	U	U	U	U	U	U	U	U	U	1	U	U
290	-240	60	3.7	U	U	U	U	U	U	U	U	U	U	U
270	-240	61	3.7	0.8	U	U	U	U	U	U	U	U	U	U
150	-265	62	2.1	U	U	U	U	0.8	22	U	U	U	U	U
50	-265	63	7.3	U	U	U	U	1.9	17.2	U	U	U	U	U
200	-315	64	3.4	U	U	U	U	U	U	U	U	U	U	U
100	-315	65	1.4	U	U	U	U	U	U	U	U	U	U	U
0	-315	66	7	U	U	U	U	U	U	U	U	U	U	U
150	-365	67	5	1.1	0.8	U	U	U	8.7	U	U	U	U	U
50	-365	68	2.6	U	U	U	U	U	U	U	U	U	U	U
200	-430	69	U	U	0.8	U	U	U	U	U	U	U	U	U
100	-430	70	U	0.9	U	U	U	U	0.4	U	U	U	U	U
0	-430	71	U	U	U	U	U	U	1.5	U	U	U	U	U

(a) ng/m^2/min - nanograms per square meter per minute
(b) East: positive; west: negative
(c) North: positive; south: negative
(d) Volatile organics analyzed by EPA GC/MS method 8240 (modified).
(e) Dichloroethyne was tentatively identified by mass spectral comparison with the National Bureau of Standards Library.
U Below reported quantitation level

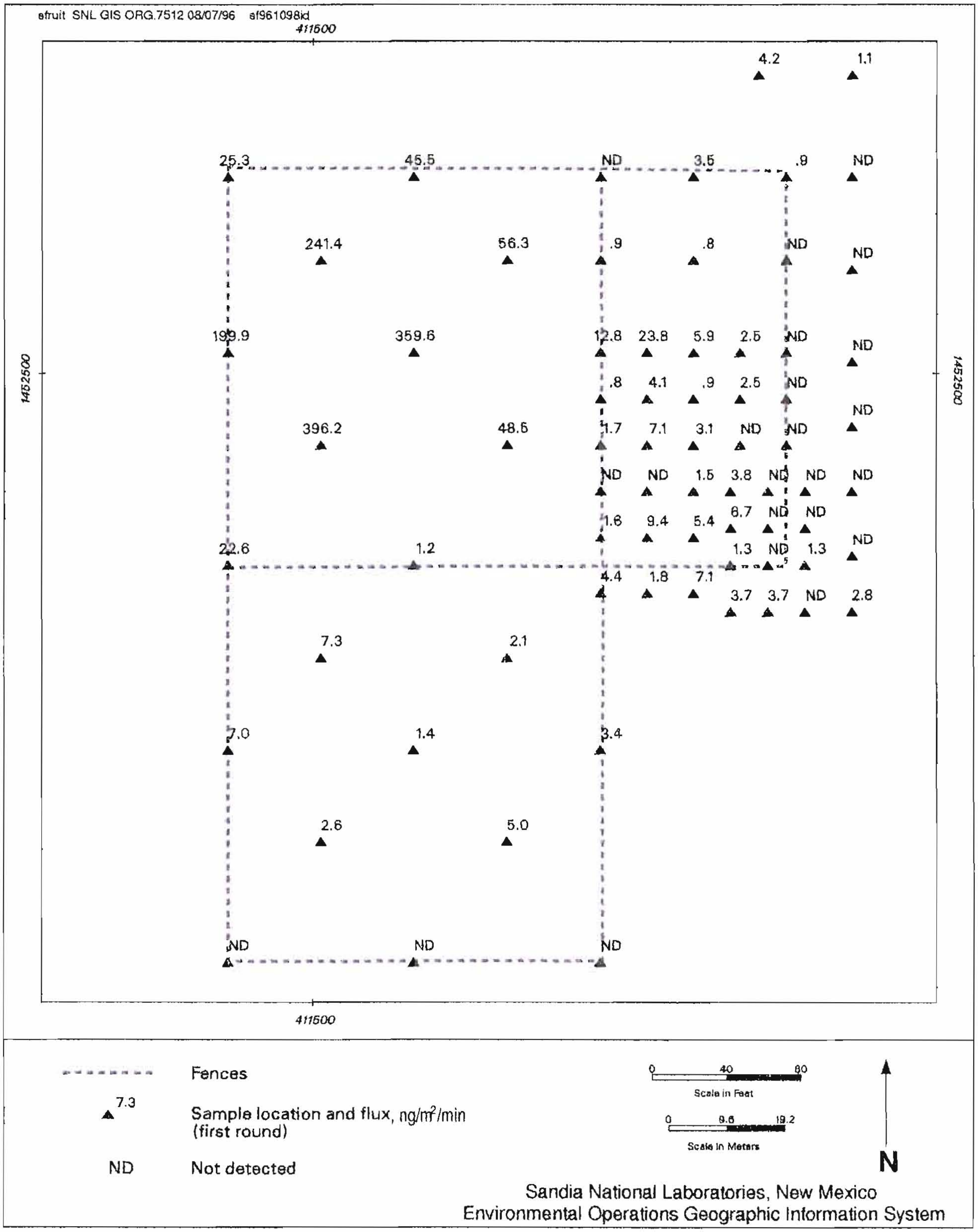

Figure 4.5-3 PCE Flux

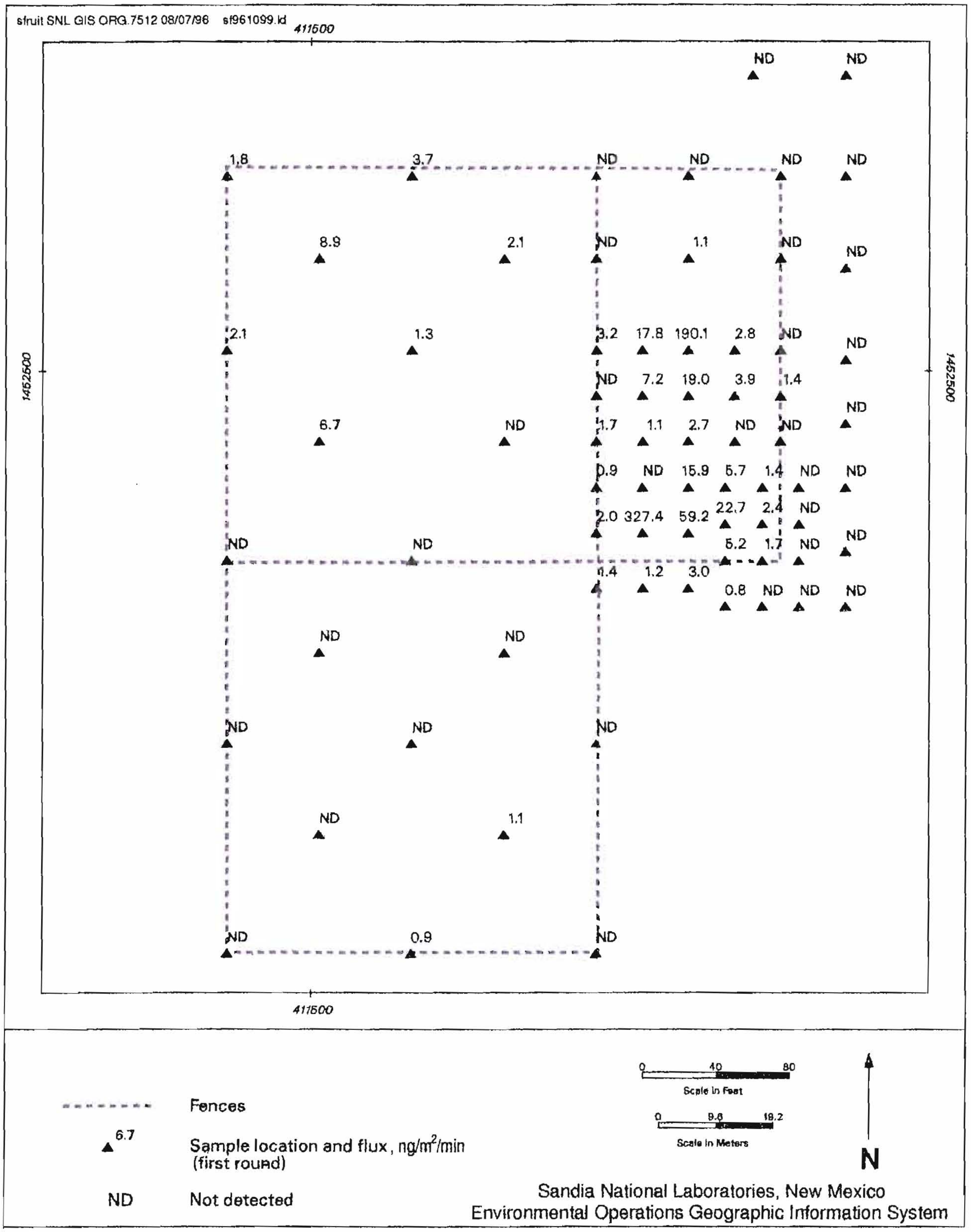

Figure 4.5-4 TCE Flux

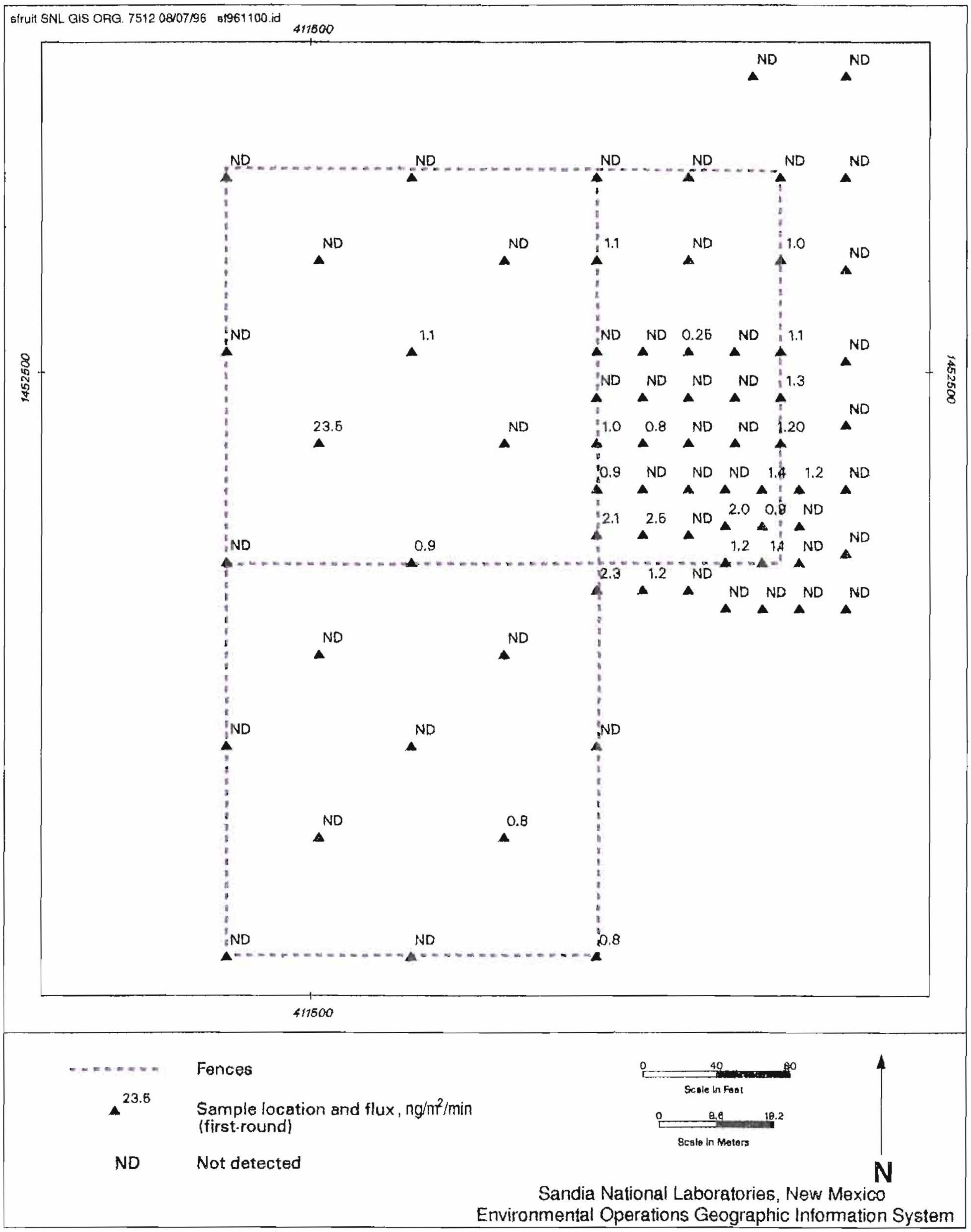

Figure 4.5-5 1,1,1-TCA Flux

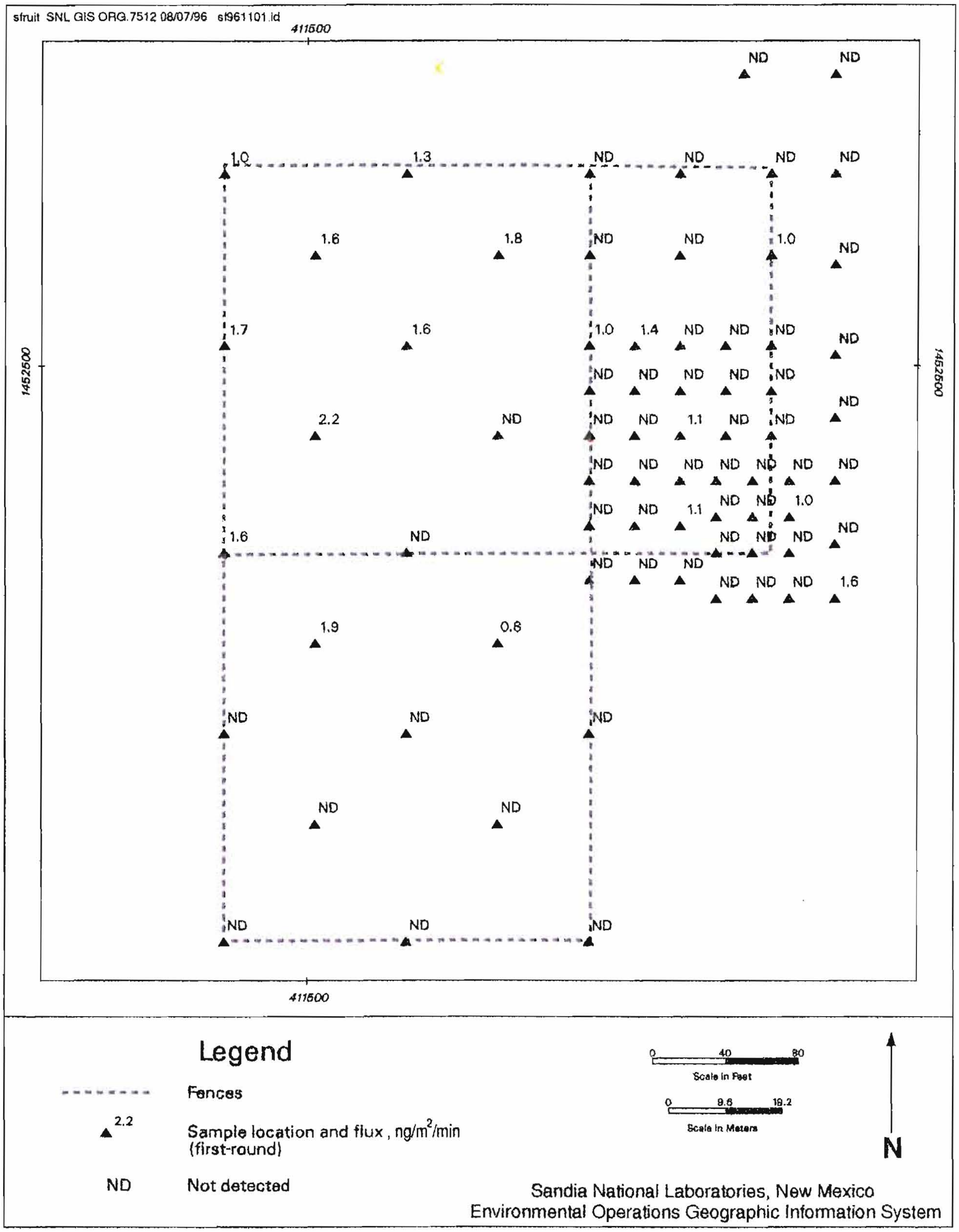

Figure 4.5-6 Toluene Flux

1,1,2-Trichloro-trifluoroethane

1,1,2-trichloro-trifluoroethane was detected at 9 of the 71 locations sampled (Figure 4.5-7). The highest flux occurs at sample locations 18 (1.2 ng/m^2/min), 46 (1.0 ng/m^2/min), and 16 (0.9 ng/m^2/min).

Dichloroethyne

Dichloroethyne was tentatively identified by mass spectral comparison with the National Bureau of Standards library at 12 of the 71 locations samples (Figure 4.5-8). Eleven dichloroethyne detects are within the classified area. The highest flux occurs at sample location 48 (103.3 ng/m^2/min). Dichloroethyne occurred at one sample location (sample location 14) in the northern unclassified area. It was not detected in the southern unclassified area.

Acetone

Acetone was detected at 8 of the 71 locations sampled (Figure 4.5-9). Six of the eight acetone detects are in the southern unclassified area. The highest flux occurs at sample locations 62 (22 ng/m^2/min) and 63 (17.2 ng/m^2/min), directly above Trenches E and F. A flux of 8.7 ng/m^2/min occurs at sample location 67, directly above Trench E. The two remaining acetone detects occur at sample locations 10 and 13 in the classified and northern unclassified areas, respectively.

Other Compounds

Isopropyl ether was detected in the classified area at sample location 39 (0.9 ng/m^2/min) and at sample location 40 (35.7 ng/m^2/min). 1,1-dichloroethene, a by-product of 1,1,1-TCA, was detected in the northern unclassified area at sample location 35 (1.3 ng/m^2/min). Styrene, a minor component of many petroleum products, was detected at sample location 59 (1.0 ng/m^2/min).

4.5.1.2 Second-Round EMFLUX^R Sampling

Second-round passive soil gas sampling was conducted from 15 September to 20 September 1993. Second-round sampling was conducted for three reasons: 1) to resample 5 first-round sample locations to check for EMFLUX^R repeatability; 2) to determine VOC flux west of the landfill; and 3) to determine background VOC flux. To accomplish this, 22 EMFLUX^R flux chambers were deployed. Second-round sampling locations are shown in Figure 4.5-10. Sample locations 18, 19, 20, 21, and 22 were repeated first-round sample locations (Figure 4.5-2). Background sample locations are represented by second-round sample locations 13, 14, 15, 16, and 17.

Results of second-round passive soil gas sampling at the MWL are presented in Table 4.5-3. Table 4.5-3 provides the coordinates for each sample collected, the sample location number, and VOC flux. Sample location 10 results were lost due to laboratory instrument malfunction; therefore, the number of samples actually analyzed was 21. Four VOCs were detected in surface soil gas at the MWL. Each VOC is discussed in the following sections.

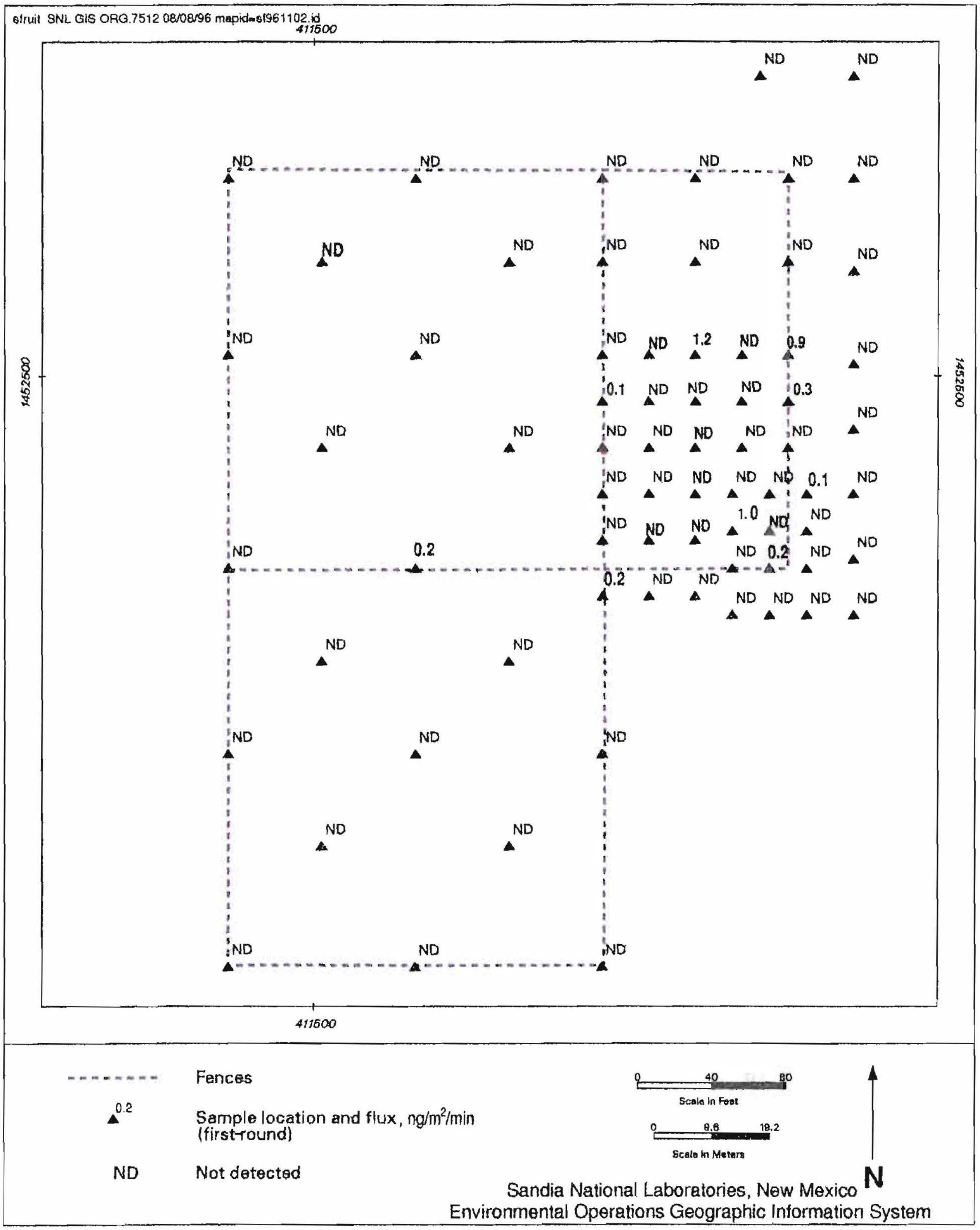

Figure 4.5-7 1,1,2-Trichloro-trifluoroethane Flux

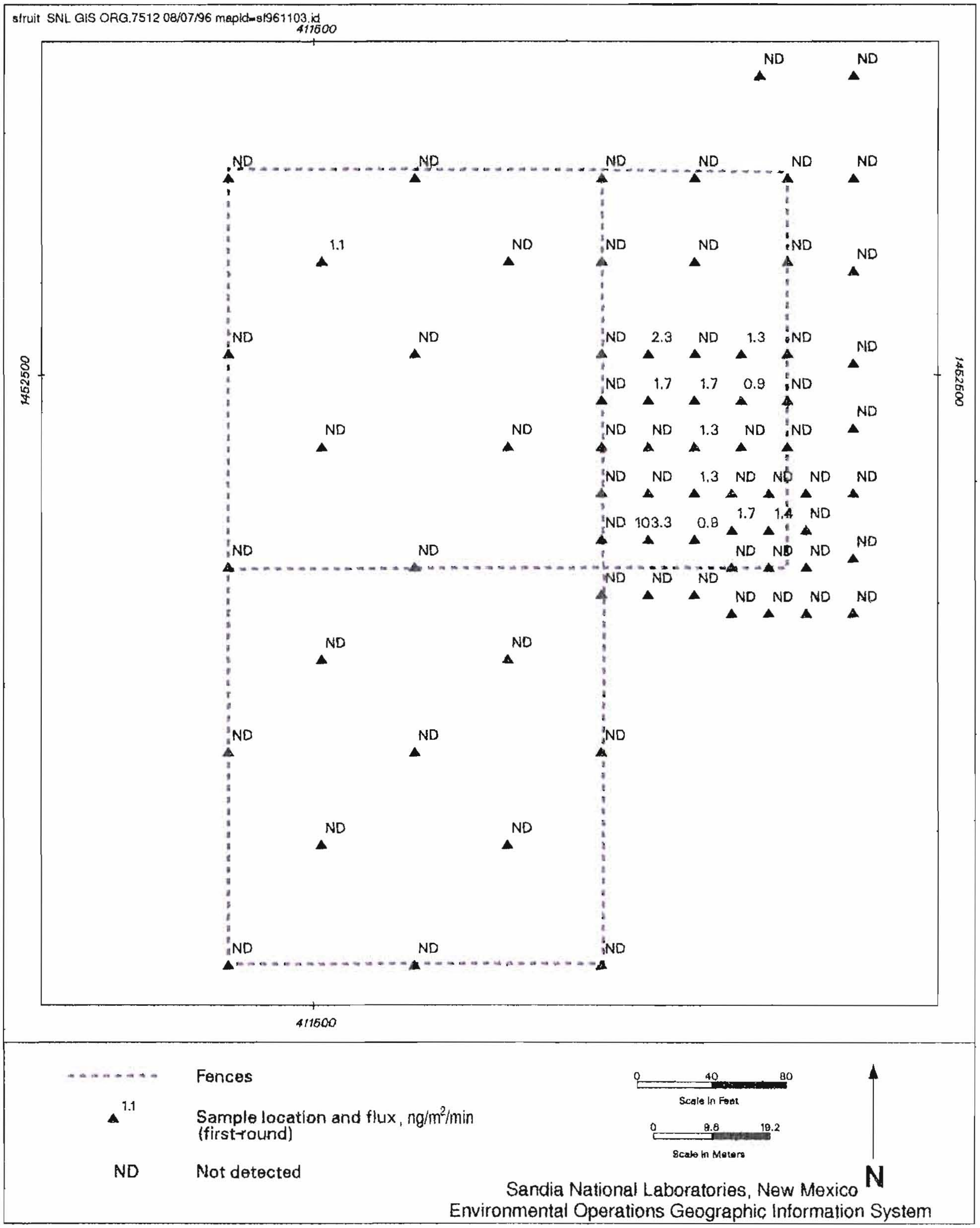

Figure 4.5-8 Dichloroethyne Flux

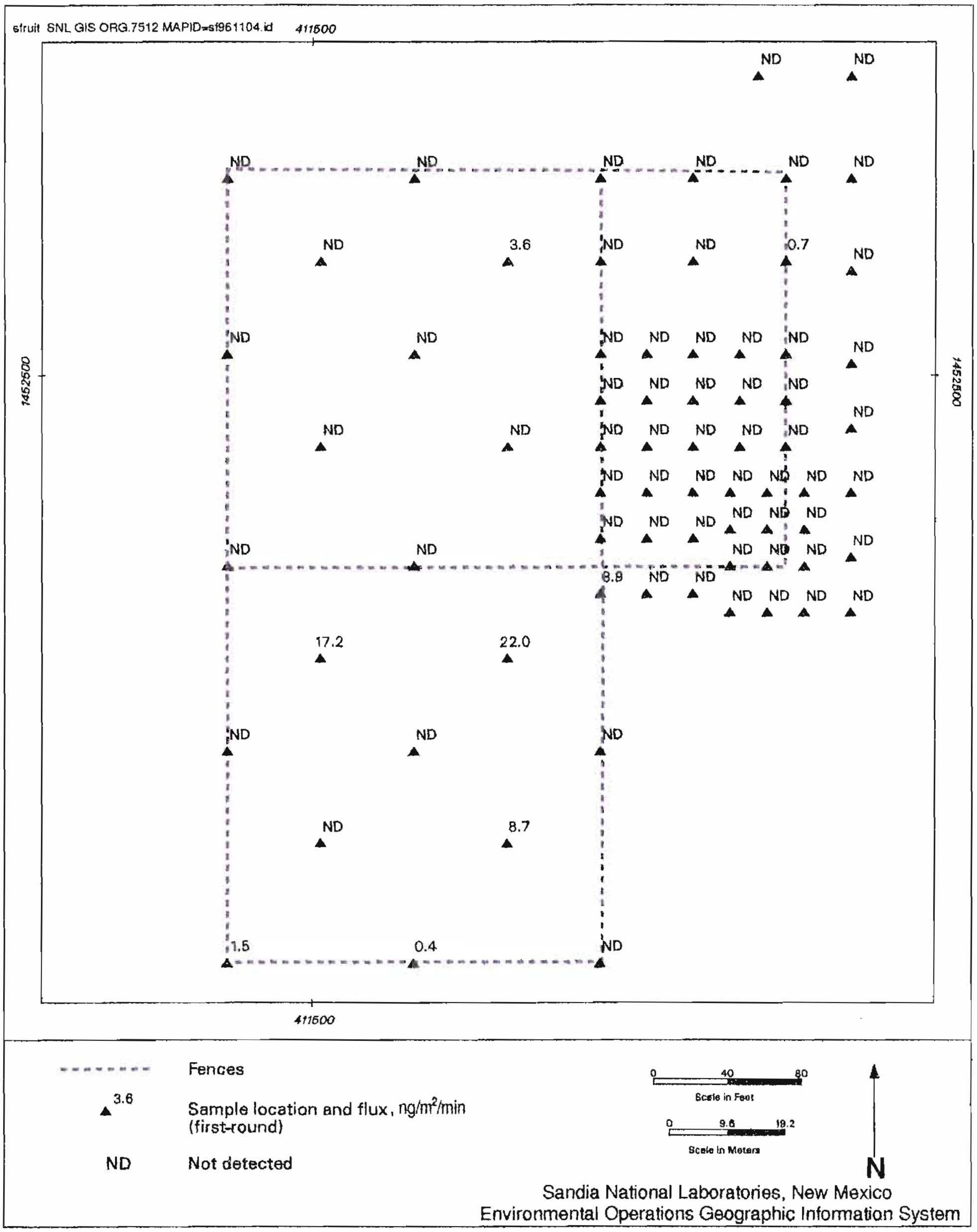

Figure 4.5-9 Acetone Flux

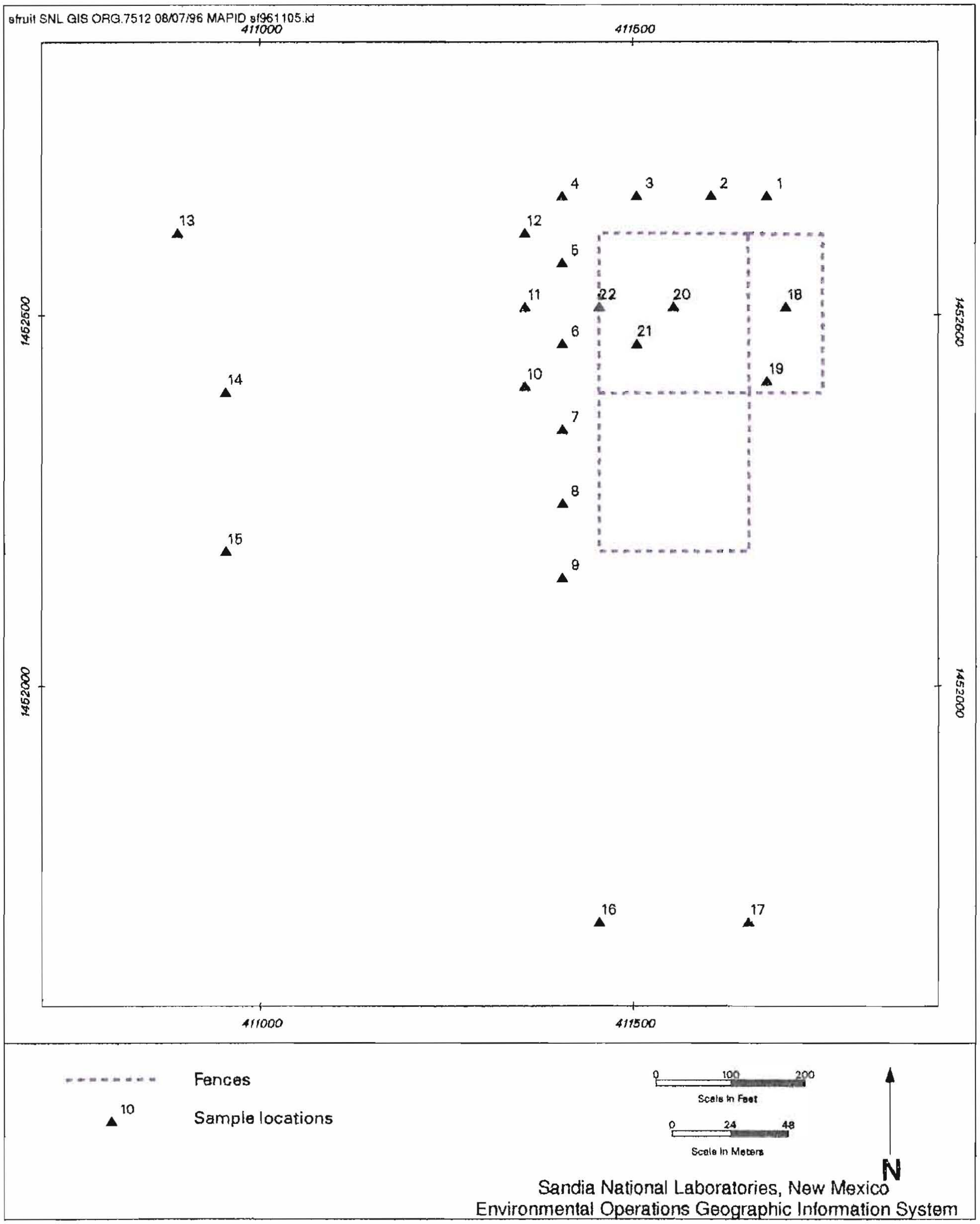

Figure 4.5-10 Second-Round Passive Soil Gas Sampling Locations

Table 4.5-3 Second-Round Passive Soil Gas Flux ($ng/m^2/min$)[(a)]

Sample Location X Coordinate[(b)] (feet)	Sample Location Y Coordinate[(c)] (feet)	Sample Number	tetrachloro-ethene (PCE)[(d)]	trichloro-ethene (TCE)[(d)]	1,1,1-trichloro-ethane (1,1,1-TCA)[(d)]	1,1-dichloro-ethene[(d)]
225	50	1	11.5	1.1	U	U
150	50	2	7.5	U	U	U
50	50	3	17.6	U	U	U
-50	50	4	9.1	U	U	U
-50	-40	5	27.5	1.7	U	U
-50	-150	6	15.2	0.9	U	U
-50	-265	7	5.1	0.6	U	U
-50	-365	8	1.1	0.6	U	U
-50	-465	9	U	U	U	U
-100	-207	10	NA	NA	NA	NA
-100	-100	11	12.6	0.9	U	U
-100	0	12	3.6	U	U	U
-564	0	13	U	U	U	U
-500	-215	14	U	U	U	U
-500	-430	15	U	U	U	U
0	-930	16	U	U	U	U
200	-930	17	U	U	U	U
250	-100	18[(e)]	18.6	129.1	0.6	U
225	-200	19[(e)]	16	158	1.4	U
100	-100	20[(e)]	164.4	0.74	0.9	U
50	-150	21[(e)]	220.7	3.2	15.7	1.6
0	-100	22[(e)]	66.7	0.6	U	U

(a) $ng/m^2/min$ - nanograms per square meter per minute
(b) East: positive; west: negative
(c) North: positive; south: negative
(d) Volatile organics analyzed by EPA GC/MS method 8240 (modified).
(e) Sample numbers 18 through 22 were resampled first-round locations for purposes of verification.
NA Not analyzed (sample number 10 was lost due to laboratory equipment malfunction)
U Below reported quantitation level

Tetrachloroethene (PCE)

PCE was detected at 15 of the 21 locations sampled (Figure 4.5-11). The highest flux occurs at sample locations 21 (220.7 ng/m^2/min) and 20 (164.4 ng/m^2/min) in the northern unclassified area, directly above Trenches B and C. A flux of 66.7 ng/m^2/min occurs at sample location 22, adjacent to Trench A . Second-round flux corresponds well with flux obtained from the same locations during first-round sampling.

Trichloroethene (TCE)

TCE was detected at 11 of the 21 locations sampled (Figure 4.5-12). The highest flux occurs at sample locations 19 (158 ng/m^2/min) and 18 (129.1 ng/m^2/min) in the classified area. Again, results of second-round sampling correspond well with results of first-round sampling.

1,1,1-Trichloroethane (TCA)

1,1,1-TCA was detected at 4 of the 21 locations sampled (Figure 4.5-13). The highest flux occurs at sample location 21 (15.7 ng/m^2/min) in the northern unclassified area. A flux of 1.4 ng/m^2/min occurs at sample location 19 in the classified area. These results correspond well with first-round sample results where the same two sample locations showed the highest 1,1,1-TCA flux.

1,1-Dichloroethene

1,1-dichloroethene was detected at sample location 21 (1.6 ng/m^2/min) in the northern unclassified area. This compound was detected at the same sample location (sample location 35) during first-round sampling. No other detects of this compound were reported during first- or second-round passive soil gas sampling.

Background Sample Locations

No VOCs were detected in background passive soil gas samples from locations west and south of the landfill.

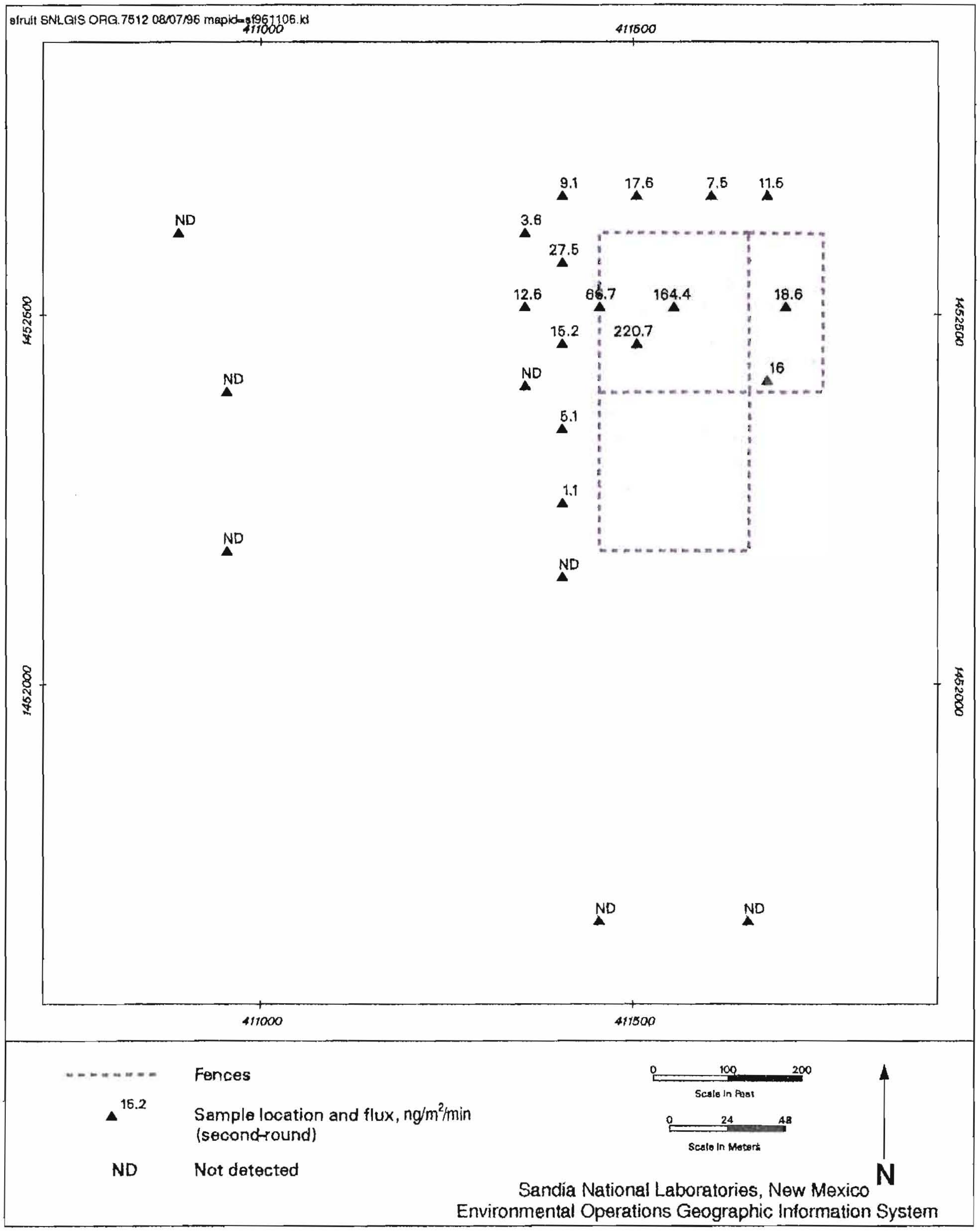

Figure 4.5-11 PCE Flux

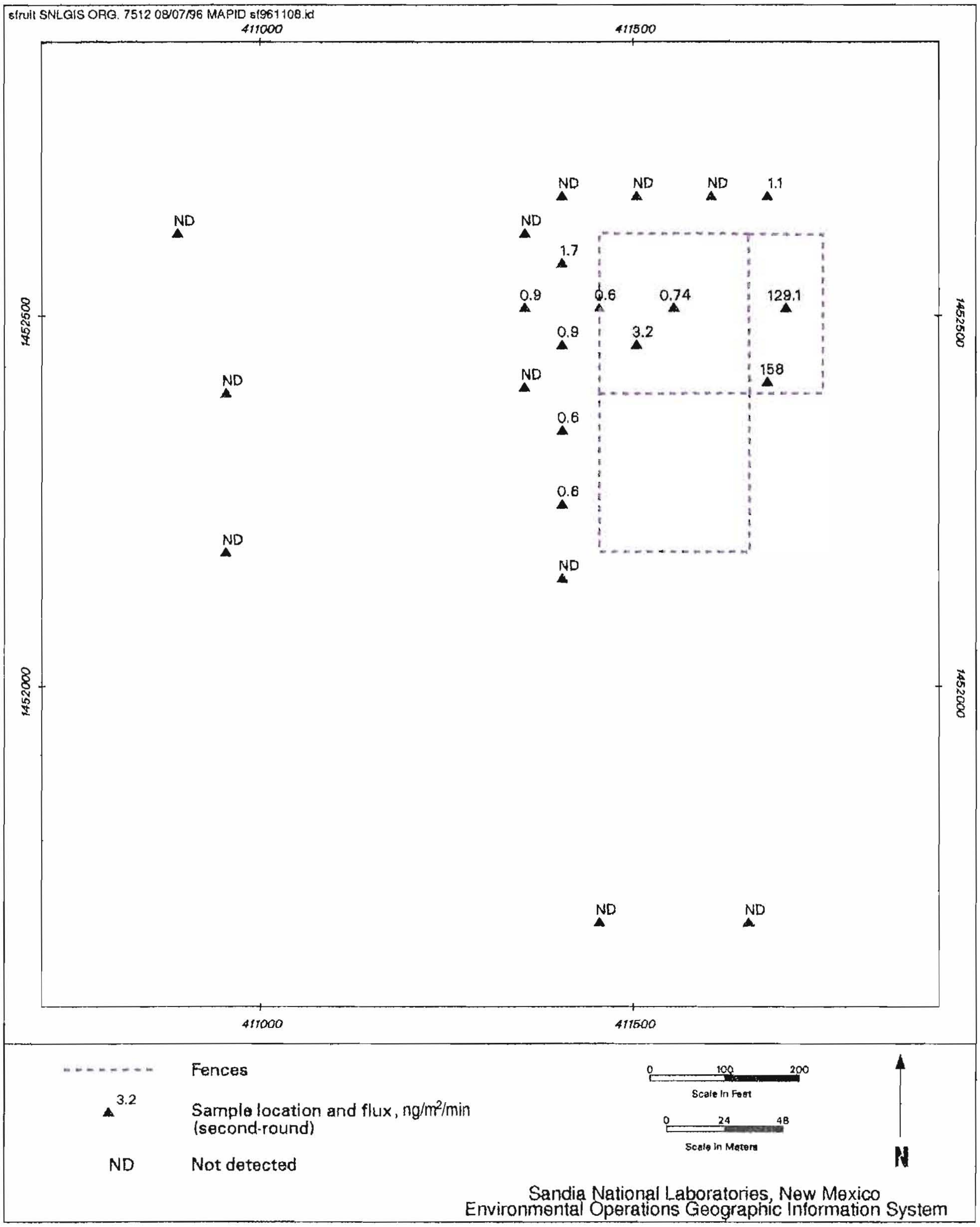

Figure 4.5-12 TCE Flux

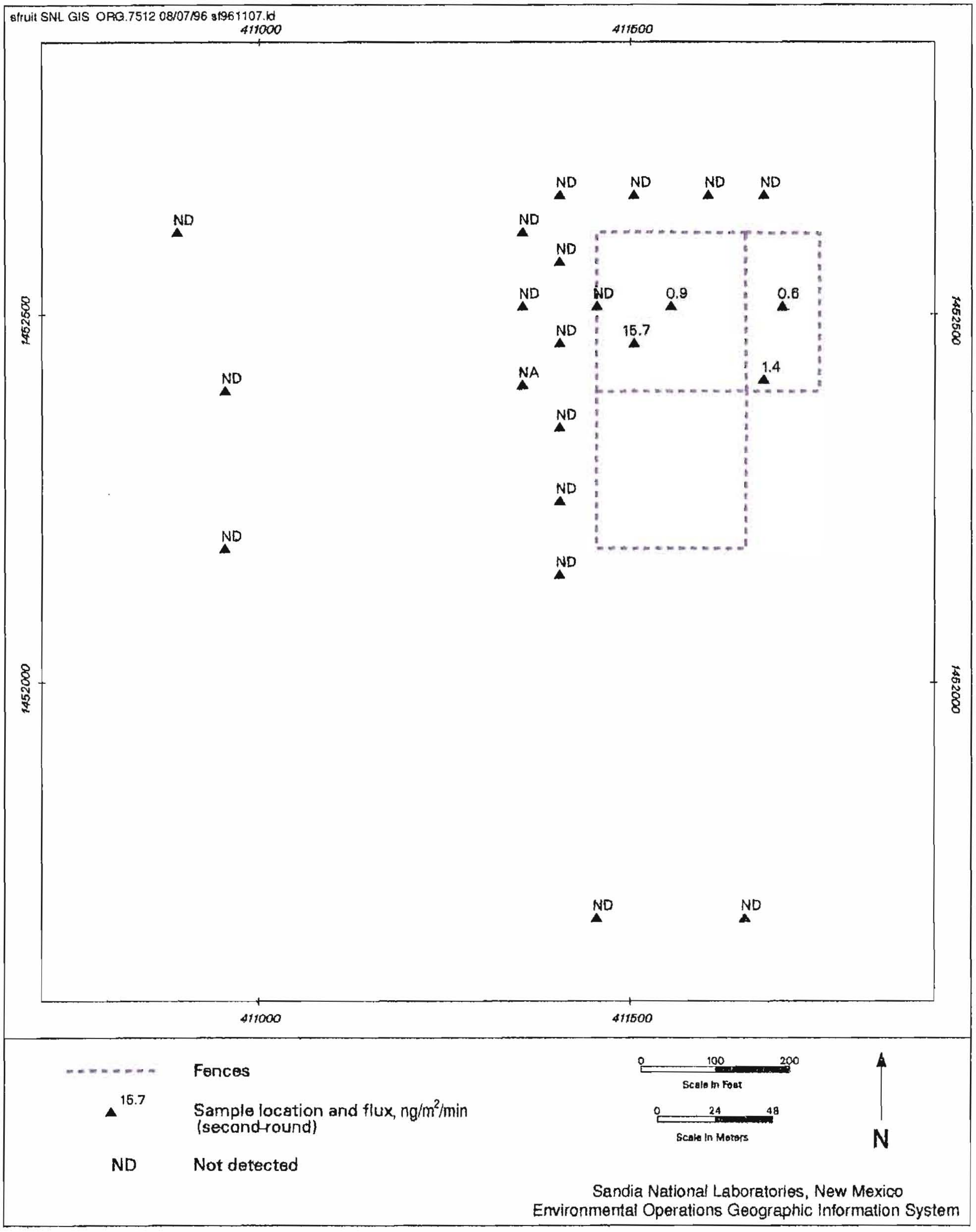

Figure 4.5-13 1,1,1-TCA Flux

4.5.2 Active Soil Gas Sampling

1993 EMFLUX^R passive soil gas sampling identified 12 VOCs in surface soil gas at the MWL. This technique was effective as a qualitative "yes-no" screening tool but provided an integrated measure of VOC concentration over time only. Active soil gas sampling was conducted at the MWL as a quantitative follow-up to EMFLUX^R passive soil gas sampling.

Three rounds of active soil gas sampling were conducted at the MWL. First-round sampling was performed in June 1994; second-round sampling was performed in August 1994; and third-round sampling was performed in October 1994.

4.5.2.1 Active Soil Gas Sampling Methodology

Active soil gas sampling was based on EMFLUX^R sampling results. Active soil gas sampling locations were selected at or within close proximity to anomalous passive soil gas areas. In some cases, however, it was not possible to sample every passive soil gas area. For example, it was not possible to sample within the classified area or the southern unclassified area. Sampling was not attempted in the classified area because it was not possible to maneuver the truck-mounted GeoProbe between disposal pits. Sampling was not conducted within the southern unclassified area because the area was being used for temporary, aboveground storage of low-level radioactive and mixed waste. Although active soil gas sampling was not conducted in these two areas, samples were obtained outside the fenced perimeters of each.

Nineteen soil gas samples were collected during first-round sampling; 12 were collected during second-round sampling; and 12 were collected during third-round sampling. Two samples were obtained at each location; one at 10 ft bgs and one at 30 ft bgs. Sample locations for each round of sampling are shown in Figure 4.5-14.

4.5.2.2 Active Soil Gas Sample Collection Equipment

Active soil gas samples were collected using a modified version of a soil gas collection system manufactured by GeoProbe Inc. The system consists of a truck-mounted hydraulic hammer, three-foot lengths of steel drive-pipe, reusable hardened steel drive-points, disposable polyethylene tubing, and a constant-discharge air pump (Figure 4.5-15). The GeoProbe system was modified by substituting a low-flow air pump for the GeoProbe-supplied vacuum pump. This modification allowed insertion of a PID and an FID into the gas stream to monitor exhaust gas prior to and during the sample collection process. Monitoring of the exhaust gas helped to define the appropriate time to pull a sample.

Active soil gas samples were collected in two types of containers: 500 ml glass septum-port gas sampling bulbs with Teflon stopcocks; and 6-liter Summa canisters. First-round samples taken at 10 ft bgs were collected in glass bulbs only. First-round samples taken at 30 ft bgs were collected in both glass bulbs and Summa canisters. Second- and third-round soil gas samples from 10 ft bgs and 30 ft bgs were collected in Summa canisters only.

4.5.2.3 Active Soil Gas Sample Collection Procedures

Active soil gas sampling was conducted by driving steel pipe with a reusable drive-point to the desired sample depth using the GeoProbe hydraulic hammer. At the desired sample depth, the drive-pipe was retracted approximately 3 in. to create a sampling void between the drive-pipe and the drive-point. A polyethylene sample tube was then inserted down the drive-pipe and threaded onto the drive-point.

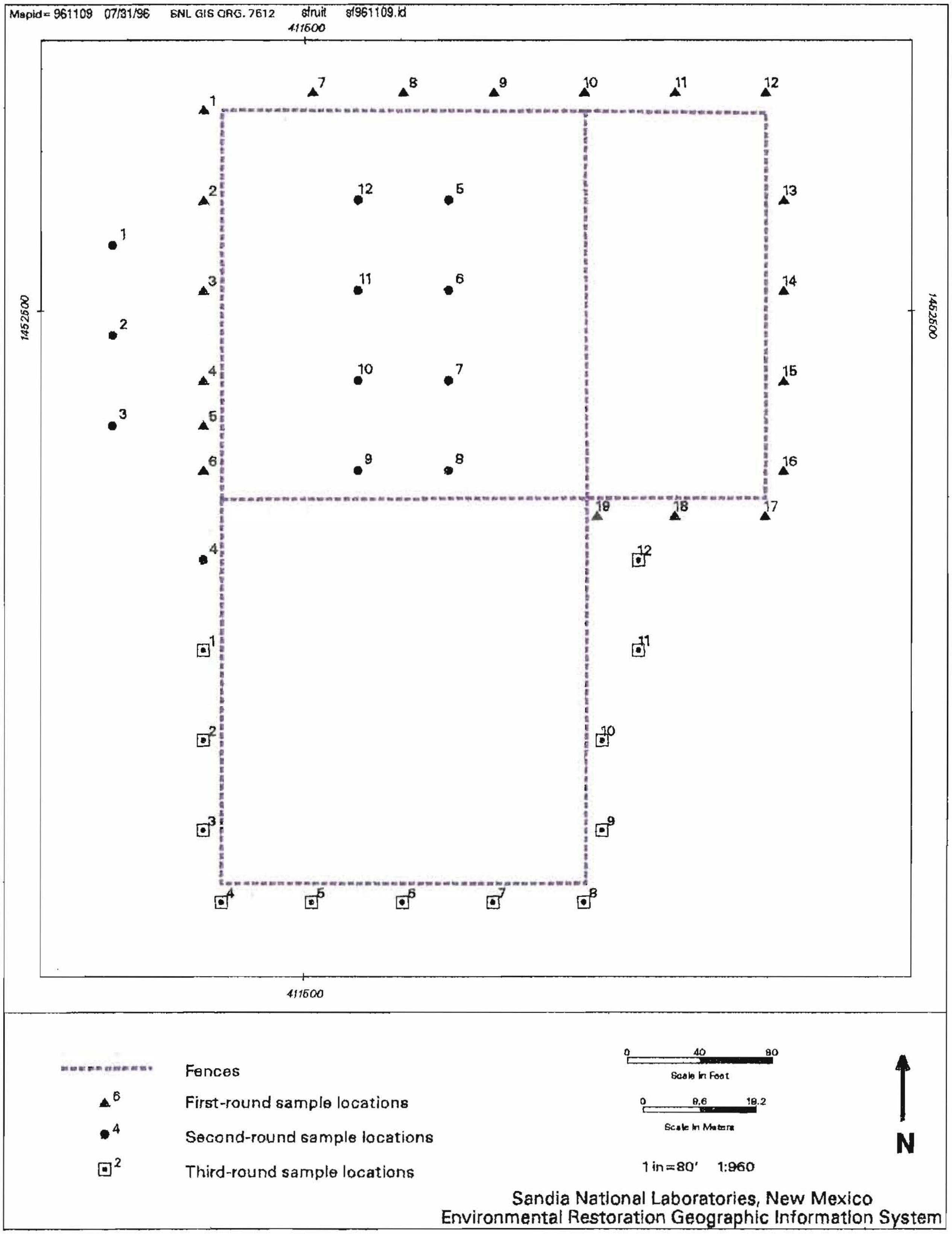

Figure 4.5-14 Active Soil Gas Sampling Locations

dgarcia SNLGIS ORG 7512 12/20/95 mapid dg960269.id

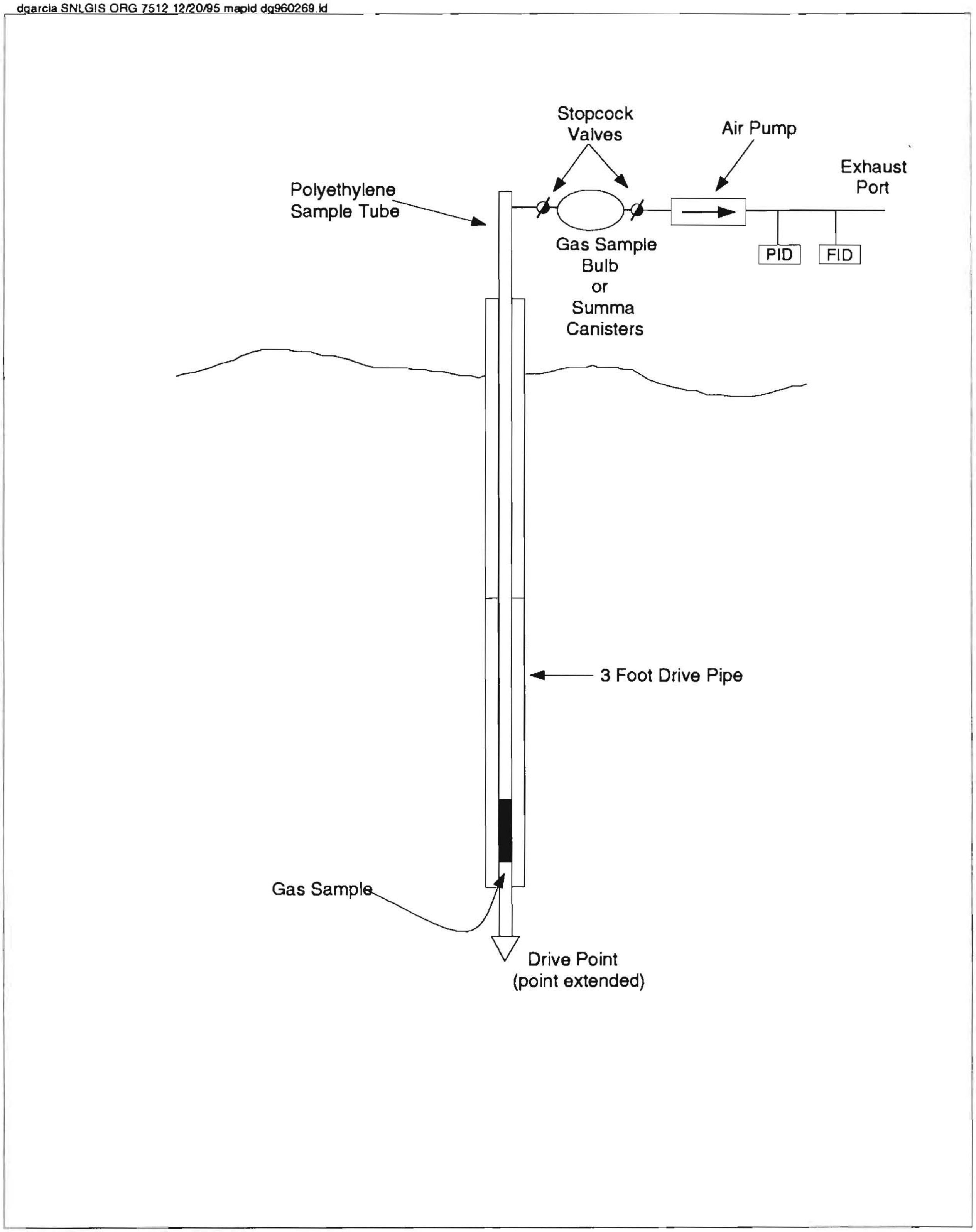

Figure 4.5-15 Active Soil Gas Sampling Schematic

The upper end of the polyethylene sample tube was then connected to the influent port of a gas-sampling box. The gas-sampling box contained a 110-volt air-pump, a flow regulator, two three-way valves (upper and lower), a vacuum gauge, an air-flow gauge, two threaded sampling ports (upper and lower), a threaded air inlet port, and an air exhaust tee with two threaded ports. Under normal operation, air is drawn by the air pump into the back of the gas-sampling box via 1/4-in. polyethylene tubing. Air enters through the air inlet port, interacts with the flow regulator and the gauges, and exits through the air exhaust port. The two three-way valves can be used to isolate part of the tubing within the gas-sampling box to allow either purging or sampling from either the upper (Summa) port or the lower (glass bulb) port. The tee fitting at the exhaust port allows PID and FID monitoring of the VOC exhaust stream without impeding gas flow.

All field equipment for soil gas sampling was decontaminated prior to sampling at each location and depth. GeoProbe drive-pipe and drive-points were washed with a solution of Alconox and distilled water, rinsed with distilled water, and allowed to air-dry. Polyethylene sample tubing was purged with nitrogen gas for approximately 20 minutes after each soil gas sample was collected. After purging, the tube was checked with the PID and FID to ensure that it was completely evacuated of VOCs. The steel drive-pipe was sealed at the ground surface with a mud paste to prevent preferential flow along the annulus.

4.5.2.4 Active Soil Gas Sample Analysis

First-round soil gas samples collected in 500 ml glass bulbs were analyzed by SNL,NM personnel with an on-site Viking Spectra Trak 600 GC/MS. Soil gas samples collected in Summa canisters were submitted to Encotec, Ann Arbor, Michigan for EPA Method TO-14 analysis.

Second- and third-round active soil gas samples were collected in Summa canisters only and sent for off-site analysis because the on-site Viking GC/MS was under repair. As a result, no glass bulb analyses were conducted during second- and third-round sampling.

Five equipment blanks were collected during the three rounds of active soil gas sampling. Trace levels of several target analytes were detected in the equipment blanks. PCE, TCE, and benzene were detected in a first-round equipment blank; methylene chloride, PCE, and TCE were detected in the second-round equipment blanks, and methylene chloride was detected in one of the two third-round equipment blanks. The concentrations of contaminants detected in the equipment blanks were below the laboratory's quantitation limit and therefore not considered to impact the quality of the data.

A duplicate soil gas sample was collected approximately once per day or once per ten samples. These duplicate samples were collected using the same procedures as the primary soil gas samples.

4.5.2.5 Active Soil Gas Sampling Results

Results of first-, second-, and third-round active soil gas sampling are presented in Tables 4.5-4, 4.5-5, and 4.5-6, respectively. A total of 43 locations were sampled. Each table provides the coordinates for each sample collected, the sample number, the sample depth, and VOC concentrations detected. Eight VOCs were detected in the three rounds of sampling. A discussion of VOCs at 10 ft bgs and 30 ft bgs is provided in the following sections.

Table 4.5-4 First-Round Active Soil Gas Sampling Results (ppbv)[a]

Sample Location X Coordinate[b] (feet)	Sample Location Y Coordinate[c] (feet)	Sample Point	Depth (fbgs)[d]	dichloro-difluoro-methane[e]	tetrachloro-ethene (PCE)[e]	1,1,1-trichloro-ethane (1,1,1-TCA)[e]	trichloro-ethene (TCE)[e]	trichlorofluoro-methane[e]	1,1,2-trichloro-1,2,2-trifluoro-ethane[e]
-10	0	1	10	NA	251 E	30	131	NA	NA
-10	-50	2	10	NA	521 E	23	210	NA	NA
-10	-100	3	10	NA	1080 E	124	310 E	NA	NA
-10	-150	4	10	NA	627 E	260 E	279 E	NA	NA
-10	-175	5	10	NA	339 E	72	185	NA	NA
-10	-200	6	10	NA	186	58	114	NA	NA
50	10	7	10	NA	247 E	U	124	NA	NA
100	10	8	10	NA	205	12 J	123	NA	NA
150	10	9	13	NA	279 E	52	210	NA	NA
200	10	10	10	NA	130	19 J	126	NA	NA
250	10	11	10	NA	87	U	86	NA	NA
300	10	12	10	NA	45	11 J	53	NA	NA
310	-50	13	10	NA	30	13 J	72	NA	NA
310	-100	14	10	NA	48	16 J	113	NA	NA
310	-150	15	10	NA	33	9 J	93	NA	NA
310	-200	16	10	NA	34	24	84	NA	NA
310	-225	17	10	NA	32	17 J	76	NA	NA
250	-225	18	10	NA	56	51	435 E	NA	NA
207	-225	19	10	NA	69	188	220	NA	NA

(a) ppbv - parts per billion by volume
(b) East: positive; west: negative
(c) North: positive; south: negative
(d) fbgs - feet below ground surface
(e) Soil gas samples collected in 500 ml glass bulbs and analyzed with the GC/MS at TA-3, Bldg. 6540 by SNL,NM personnel.
NA Not analyzed
E Estimated concentration greater than the ULOQ
J Estimated concentration less than the lower limit of quantitation (reported down to 1/10th the LLOQ)
U Below reported quantitation level

Table 4.5-4 First-Round Active Soil Gas Sampling Results (ppbv)[(a)] (Continued)

Sample Location X Coordinate[(b)] (feet)	Sample Location Y Coordinate[(c)] (feet)	Sample Point	Depth (fbgs)[(d)]	dichloro-difluoro-methane[(e)]	tetrachloro-ethene (PCE)[(e)]	1,1,1-trichloro-ethane (1,1,1-TCA)[(e)]	trichloro-ethene (TCE)[(e)]	trichlorofluoro-methane[(e)]	1,1,2-trichloro-1,2,2-trifluoro-ethane[(e)]
-10	0	1	30	NA	749 E	78	443 E	NA	NA
-10	-50	2	30	NA	958 E	69	465 E	NA	NA
-10	-100	3	30	NA	1666 E	175	682 E	NA	NA
-10	-150	4	30	NA	1479 E	337 E	776 E	NA	NA
-10	-175	5	26	NA	580 E	150	406 E	NA	NA
-10	-200	6	26	NA	464 E	67	334 E	NA	NA
50	10	7	30	NA	748 E	53	318 E	NA	NA
100	10	8	30	NA	742 E	87	524 E	NA	NA
150	10	9	30	NA	429 E	58	376 E	NA	NA
150	10	9d	30d	NA	461 E	95	373 E	NA	NA
200	10	10	30	NA	302 E	40	338 E	NA	NA
250	10	11	30	NA	154	86	233 E	NA	NA
300	10	12	30	NA	85	21 J	163	NA	NA
310	-50	13	27	NA	67	36	216	NA	NA
310	-100	14	28	NA	85	32	349 E	NA	NA
310	-150	15	30	NA	77	27	334 E	NA	NA
310	-200	16	28	NA	63	21 J	216	NA	NA
310	-225	17	30	NA	74	48	298 E	NA	NA
250	-225	18	30	NA	135	101	683 E	NA	NA
207	-225	19	30	NA	193	316 E	653 E	NA	NA

(a) ppbv - parts per billion by volume
(b) East: positive; west: negative
(c) North: positive; south: negative
(d) fbgs - feet below ground surface
(e) Soil gas samples collected in 500 ml glass bulbs and analyzed with the GC/MS at TA-3, Bldg. 6540 by SNL,NM personnel.
NA Not analyzed
E Estimated concentration greater than the ULOQ
J Estimated concentration less than the lower limit of quantitation (reported down to 1/10th the LLOQ)
U Below reported quantitation level
d Duplicate sample

Table 4.5-4 First-Round Active Soil Gas Sampling Results (ppbv)[a] (Concluded)

Sample Location X Coordinate[b] (feet)	Sample Location Y Coordinate[c] (feet)	Sample Point	Depth (fbgs)[d]	dichloro-difluoro-methane[e]	tetrachloro-ethene (PCE)[e]	1,1,1-trichloro-ethane (1,1,1-TCA)[e]	trichloro-ethene (TCE)[e]	trichlorofluoro-methane[e]	1,1,2-trichloro-1,2,2-trifluoro-ethane[e]
-10	0	1	30	110	450	U	230	U	190
-10	-50	2	30	440	1200	U	450	U	280
-10	-100	3	30	1300	1700	150	530	U	280
-10	-150	4	30	2300	1300	170	490	U	250
-10	-175	5	26	640	240	U	120	U	U
-10	-200	6	26	1200	670	U	330	U	220
50	10	7	30	160	1000	U	460	U	310
100	10	8	30	120	800	U	400	U	290
150	10	9	30	U	480	U	350	U	310
150	10	9d	30d	100	450	U	320	U	270
200	10	10	30	U	280	U	250	U	280
250	10	11	30	U	150	U	160	U	180
300	10	12	30	U	U	U	120	U	140
310	-50	13	27	U	U	U	140	U	U
310	-100	14	28	U	U	U	240	U	130
310	-150	15	30	U	U	U	250	160	130
310	-200	16	28	U	U	U	210	U	100
300	-225	17	30	U	U	U	230	U	100
250	-225	18	30	120	150	U	630	270	140
207	-225	19	30	280	260	320	630	740	170

(a) ppbv - parts per billion by volume
(b) East: positive; west: negative
(c) North: positive; south: negative
(d) fbgs = feet below ground surface
(e) Soil gas samples collected in 6-liter Summa canisters and analyzed by EPA Method TO-14 (modified high level) at Encotec, Ann Arbor, MI.
U Below reported quantitation level
d Duplicate sample

Table 4.5-5 Second-Round Active Soil Gas Sampling Results (ppbv)[a]

Sample Location X Coordinate[b] (feet)	Sample Location Y Coordinate[c] (feet)	Sample Point	Depth (fbgs)[d]	dichloro-difluoro-methane[e]	tetrachloro-ethene (PCE)[e]	1,1,1-trichloro-ethane (1,1,1-TCA)[e]	trichloro-ethene (TCE)[e]	trichlorofluoro-methane[e]	1,1,2-trichloro-1,2,2-trifluoro-ethane[e]	methylene chloride[e]
-60	-85	1	10	U	110	U	U	U	U	U
-60	-125	2	10	U	160	U	U	U	U	U
-60	-175	3	10	U	77	50	51	U	20	100
-60	-175	3d	10d	U	91	U	58	U	30	U
-10	-250	4	10	U	62	10	39	12	35	U
125	-50	5	10	U	240	U	100	U	U	U
125	-100	6	10	170	240	U	U	U	U	U
125	-150	7	10	400	310	U	100	U	U	U
125	-200	8	10	320	200	U	110	U	U	U
75	-200	9	10	1800S	380	U	180	U	100	U
75	-150	10	10	29000E	1700	U	U	U	U	U
75	-100	11	10	2000	5200S	280	540	U	U	U
75	-50	12	10	U	1700	U	290	U	U	U
-60	-85	1	30	170	450	U	230	U	160	U
-60	-125	2	30	170	360	U	190	U	110	U
-60	-175	3	28.5	260	280	U	210	U	130	U
-10	-250	4	30	360	270	U	230	U	150	U
125	-50	5	30	170	520	U	270	U	170	U
125	-100	6	30	550	720	U	280	U	140	U
125	-150	7	30	1400S	1100	200	540	140	330	U
125	-200	8	30	1200	790	130	520	300	270	U
75	-200	9	25	3200S	690	150	370	U	220	U
75	-150	10	30	25000E	2700	U	U	U	U	U
75	-150	10d	30d	18000S	2300	750	600	U	320	U
75	-100	11	27	3600	5900	U	U	U	U	U
75	-50	12	30	600	1600	U	570	240	U	U

(a) ppbv = parts per billion by volume
(b) East: positive; west: negative
(c) North: positive; south: negative
(d) fbgs = feet below ground surface
(e) Soil gas samples were collected in 6-liter Summa canisters and analyzed by EPA Method TO-14 (low level) at Encotec, Ann Arbor, MI.
S Results due to (secondary) dilution
E Estimated value (concentration was too large to be accurately dil uted within the linear range of the calibration curve).
U Below reported quantitation level
d Duplicate sample

Table 4.5-6 Third-Round Active Soil Gas Sampling Results (ppbv)[(a)]

Sample Location X Coordinate[(b)] (feet)	Sample Location Y Coordinate[(c)] (feet)	Sample Point	Depth (fbgs)[(d)]	dichloro-difluoro-methane[(e)]	tetrachloro-ethene (PCE)[(e)]	1,1,1-trichloro-ethane (1,1,1-TCA)[(e)]	trichloro-ethene (TCE)[(e)]	trichlorofluoro-methane[(e)]	1,1,2-trichloro-1,2,2-trifluoro-ethane[(e)]	methylene chloride[(e)]	chloroform[(e)]
-10	-300	1	10	U	130E	29	140E	27	U	U	U
-10	-350	2	10	U	44	14	36	17	U	U	U
-10	-400	3	10	U	U	U	U	30	U	U	U
0	-440	4	10	U	U	U	13	17	44	U	U
50	-440	5	10	U	26	15	35	29	120	U	U
100	-440	6	10	U	19	18	42	41	19	14	U
150	-440	7	10	U	23	16	43	29	20	U	U
200	-440	8	10	U	28	15	49	U	U	U	U
210	-400	9	10	U	83	33	98	83	38	U	U
210	-350	10	10	U	260E	62	120	37	U	U	U
225	-300	11	10	U	U	U	120	190	U	U	U
225	-250	12	10	U	76	60	230E	110	U	U	U
-10	-300	1	30	U	300E	63	350E	180E	U	U	U
-10	-350	2	30	U	140E	44	220E	52	170E	U	U
-10	-400	3	30	U	45	68	77	67	260E	U	U
-10	-400	3d	30d	U	50	19	60	43	100	U	U
0	-440	4	30	U	19	34	38	16	U	U	U
50	-440	5	30	U	47	26	99	50	U	U	U
100	-440	6	30	U	50	36	130	U	U	U	U
150	-440	7	30	U	68	41	160	80	43	U	U
200	-440	8	30	U	77	41	210E	55	25	U	U
210	-400	9	30	U	120	65	250E	120	U	U	U
210	-350	10	30	U	280E	77	250E	230E	78	U	14
225	-300	11	30	U	140	77	270	610E	130	U	U
225	-250	12	30	U	140	U	390	370	130	U	U
225	-250	12d	30d	100	50	U	420	380	130	U	U

(a) ppbv - parts per billion by volume
(b) East: positive; west: negative
(c) North: positive; south: negative
(d) fbgs - feet below ground surface
(e) Soil gas samples were collected in 6-liter Summa canisters and analyzed by EPA Method TO-14 (low level) at Encotec, Ann Arbor, MI.
E Estimated value (concentration was too large to be accurately diluted within the linear range of the calibration curve).
U Below reported quantitation level

4.5.2.6 VOCs in Soil Gas at 10 Feet

VOCs in soil gas at 10 ft bgs are shown in Figures 4.5-16 through 4.5-21. First-round samples were not analyzed for dichloro-difluoromethane; trichloro-fluoromethane; or 1,1,2-trichloro-1,2,2-trifluoroethane as discussed in Section 4.5.2.4. Three rounds of sampling at the MWL show dichloro-difluoromethane; trichloro-fluoromethane; 1,1,2-trichloro-1,2,2-trifluoroethane; TCE; 1,1,1-TCA; and PCE to be present in soil gas at 10 ft bgs.

Dichloro-difluoromethane was detected at 6 sample locations in the northern unclassified area (Figure 4.5-16). Dichloro-difluoromethane ranged from 170 ppb to 29,000 ppb (second-round sample location 10), with the highest VOC concentration reported at 10 feet bgs in the three rounds of active soil gas sampling. Sample 10 is located between Trenches B and C, in close proximity to passive soil gas sample location 35 (Figure 4.5-2). The highest PCE and 1,1,1-TCA flux observed during passive soil gas sampling occurred at sample location 35.

Trichloro-fluoromethane was detected at 12 sample locations outside the fenced perimeter of the southern unclassified area (Figure 4.5-17). Trichloro-fluoromethane ranged from 12 ppb at the northwest corner to 190 ppb on the east. The highest trichloro-fluoromethane concentration occurred east of the southern unclassified area.

1,1,2-trichloro-1,2,2-trifluoroethane was detected at 8 sample locations ranging from 19 ppb to 120 ppb (Figure 4.5-18). Five of the eight sample points are along the southern fenceline of the southern unclassified area.

TCE was detected at 38 sample locations (Figure 4.5-19). TCE ranged from 13 ppb at the southwest corner of the southern unclassified area to 540 ppb at second-round sample location 11 in the northern unclassified area. Sample 11 is located between Trenches B and C, in close proximity to passive soil gas sample location 14. The highest TCE concentrations observed during active soil gas sampling occurred at sample locations along the west and north fencelines of the northern unclassified area. Elevated TCE concentrations were observed also along the southern fenceline of the classified area.

1,1,1-TCA was detected at 29 sample locations ranging from 9 ppb to 280 ppb at second-round sample location 11 (Figure 4.5-20). Elevated 1,1,1-TCA concentrations are observed also along the western fenceline of the northern unclassified area and in the southwest corner of the classified area.

PCE was detected at 40 sample locations ranging from 19 ppb to 5,200 ppb at second-round sample location 11 (Figure 4.5-21). The highest PCE concentrations occurred in the northern unclassified area, between Trenches B and C. Three adjacent sample locations between Trenches B and C showed PCE ranging from 1,700 ppb to 5,200 ppb. Elevated PCE concentrations occurred also along the west and north fencelines of the northern unclassified area.

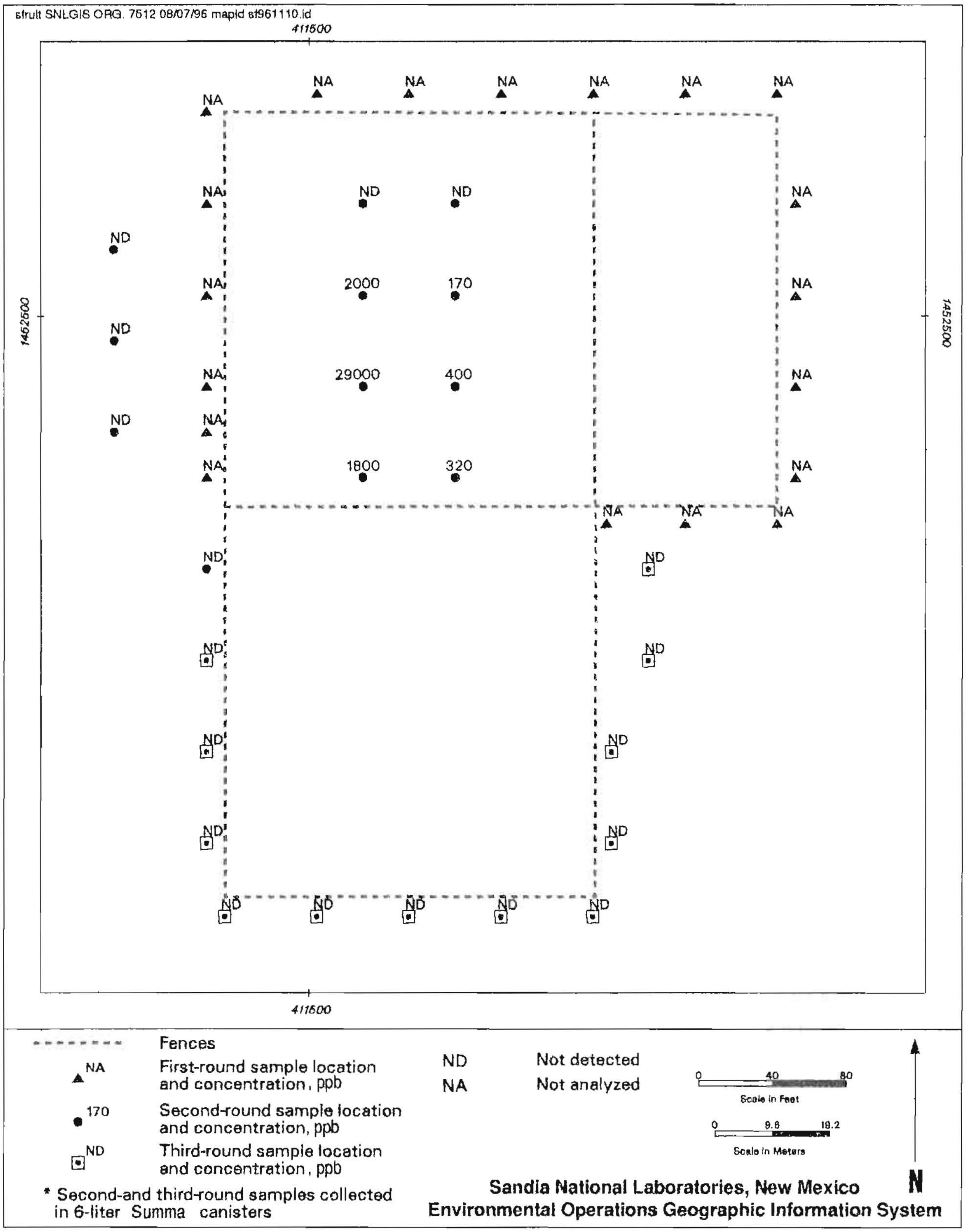

Figure 4.5-16 Dichloro-difluoromethane in Soil Gas at 10 ft

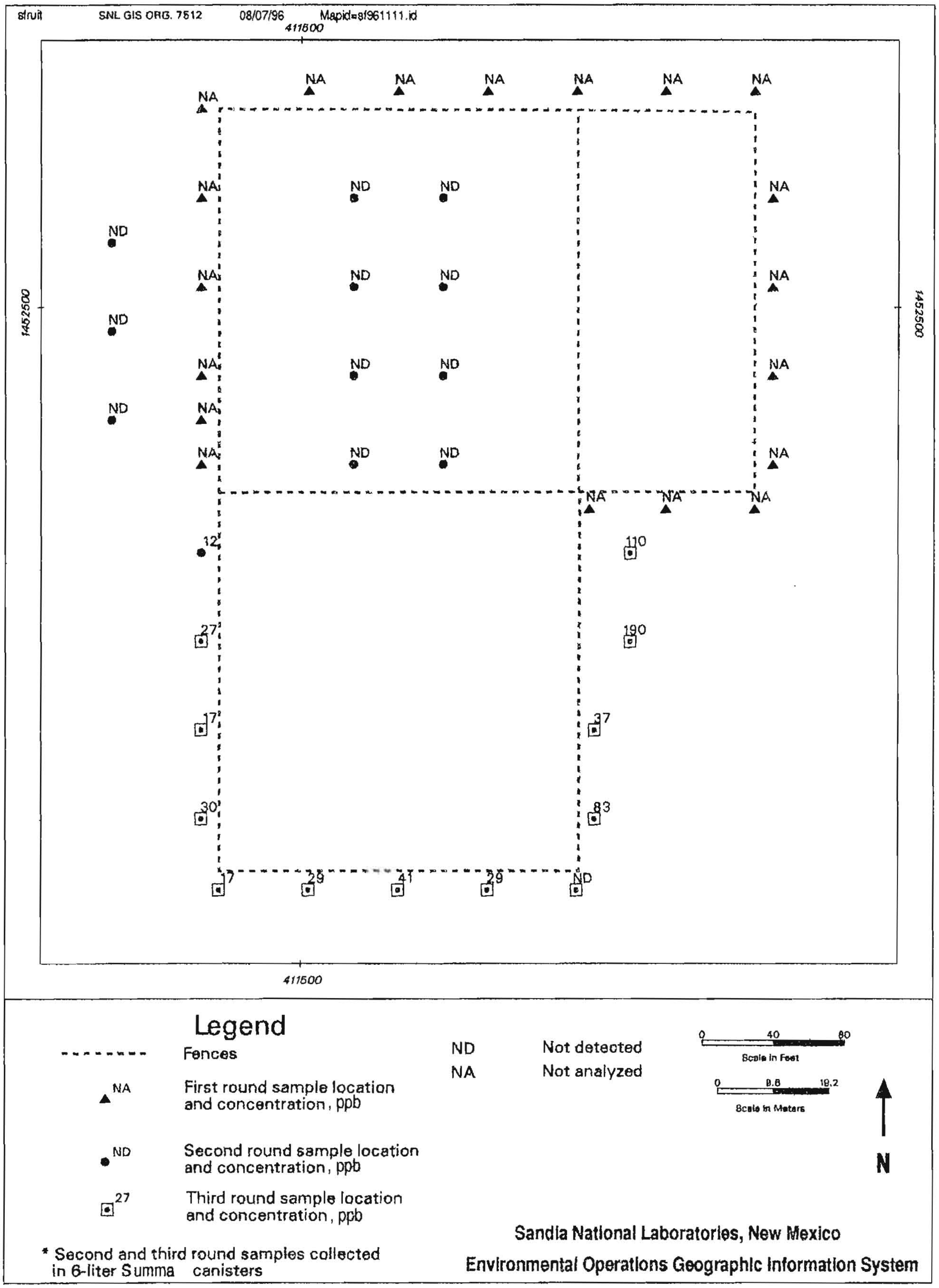

Figure 4.5-17 Trichloro-fluoromethane in Soil Gas at 10 ft

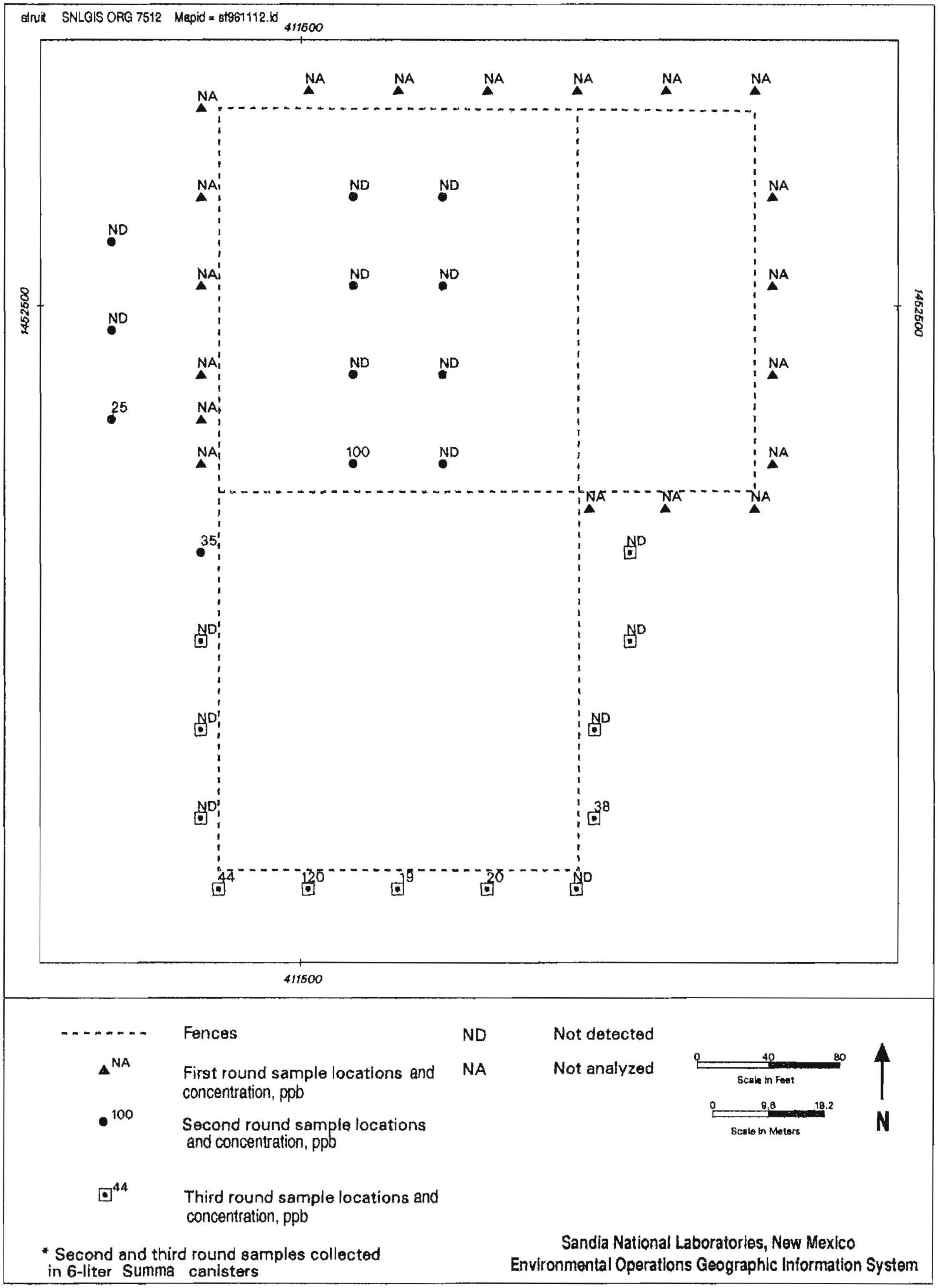

Figure 4.5-18 1,1,2-trichloro-1,2,2-trifluoroethane in Soil Gas at 10 ft

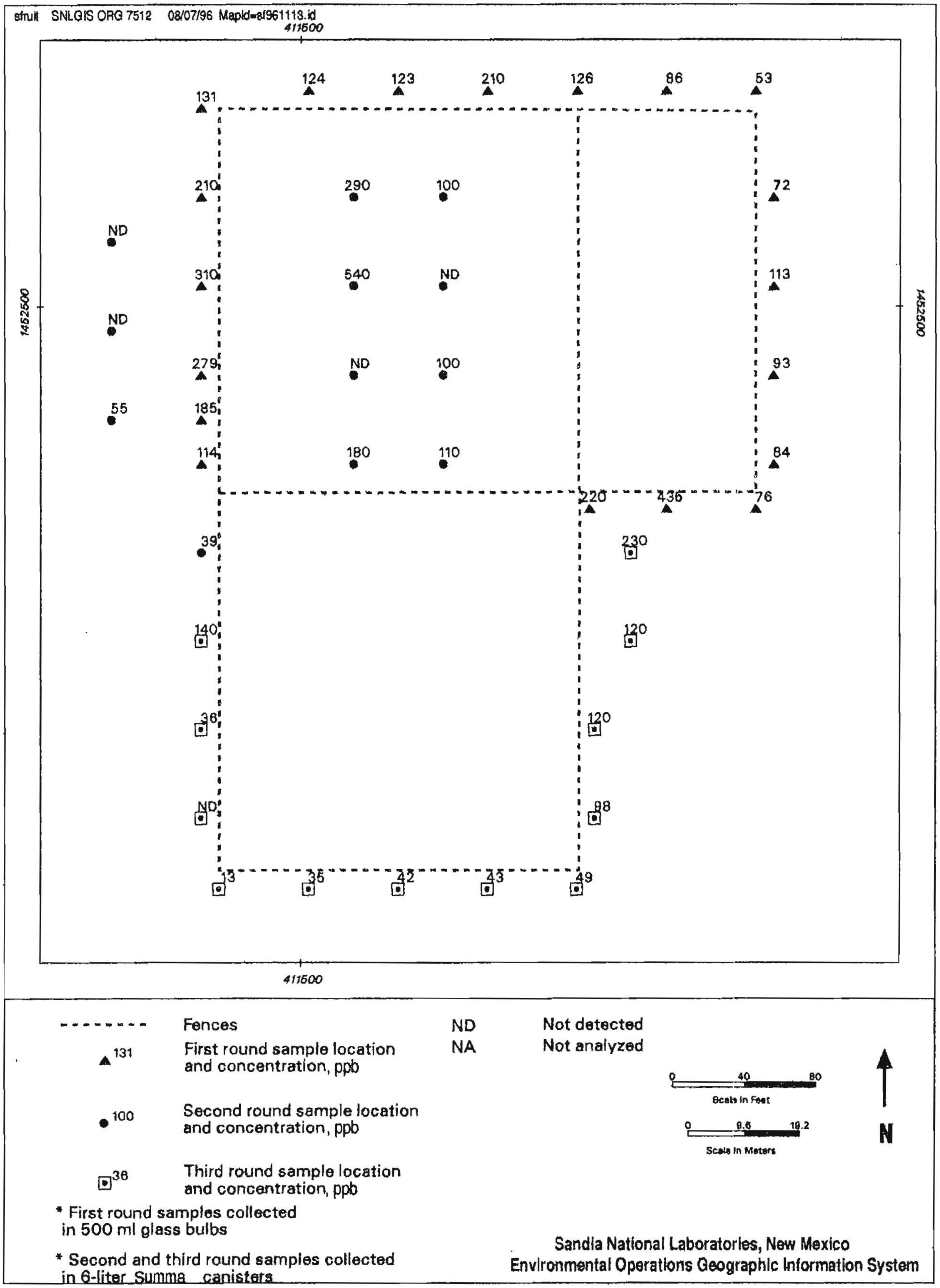

Figure 4.5-19 TCE in Soil Gas at 10 ft

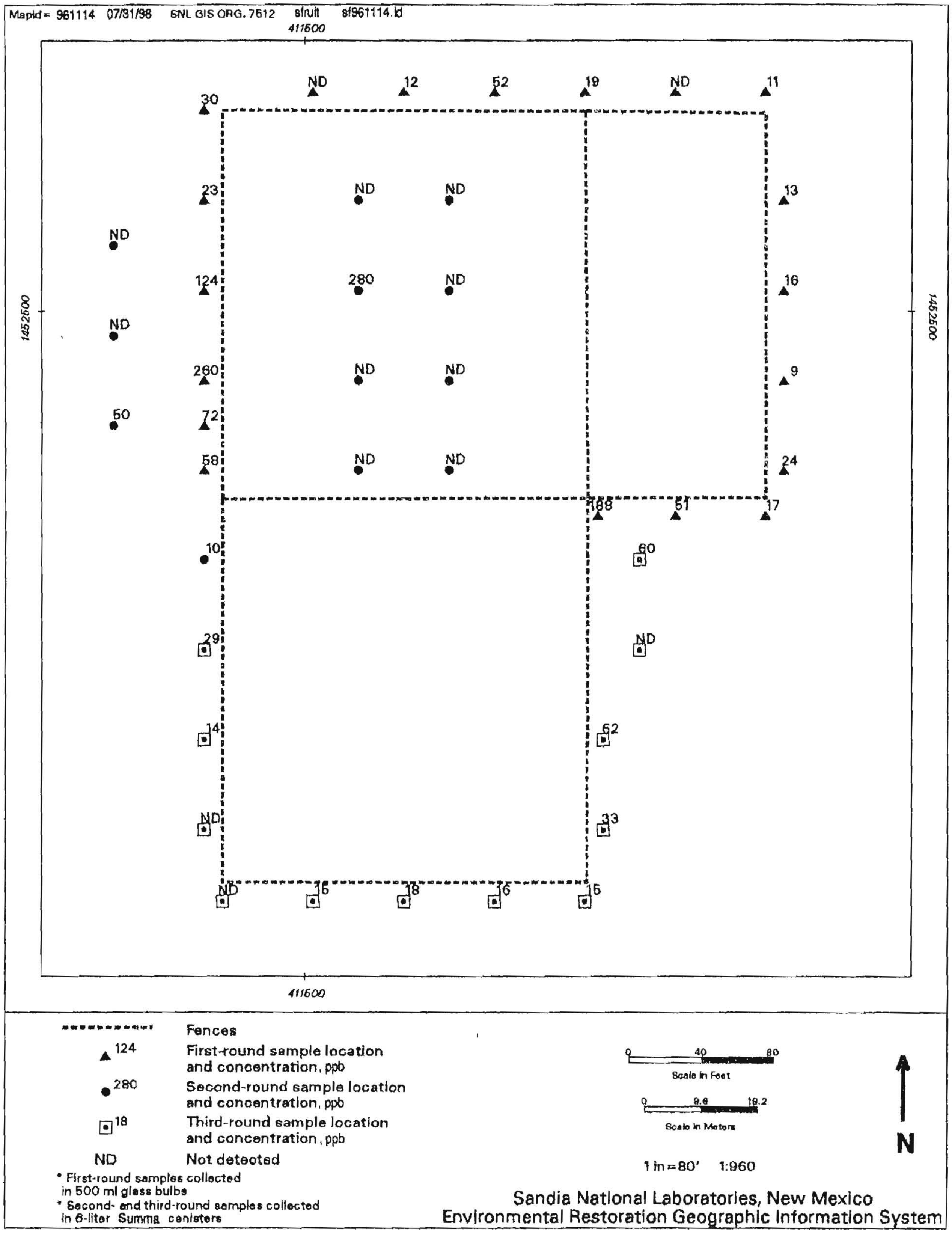

Figure 4.5-20 1,1,1-TCA in Soil Gas at 10 ft

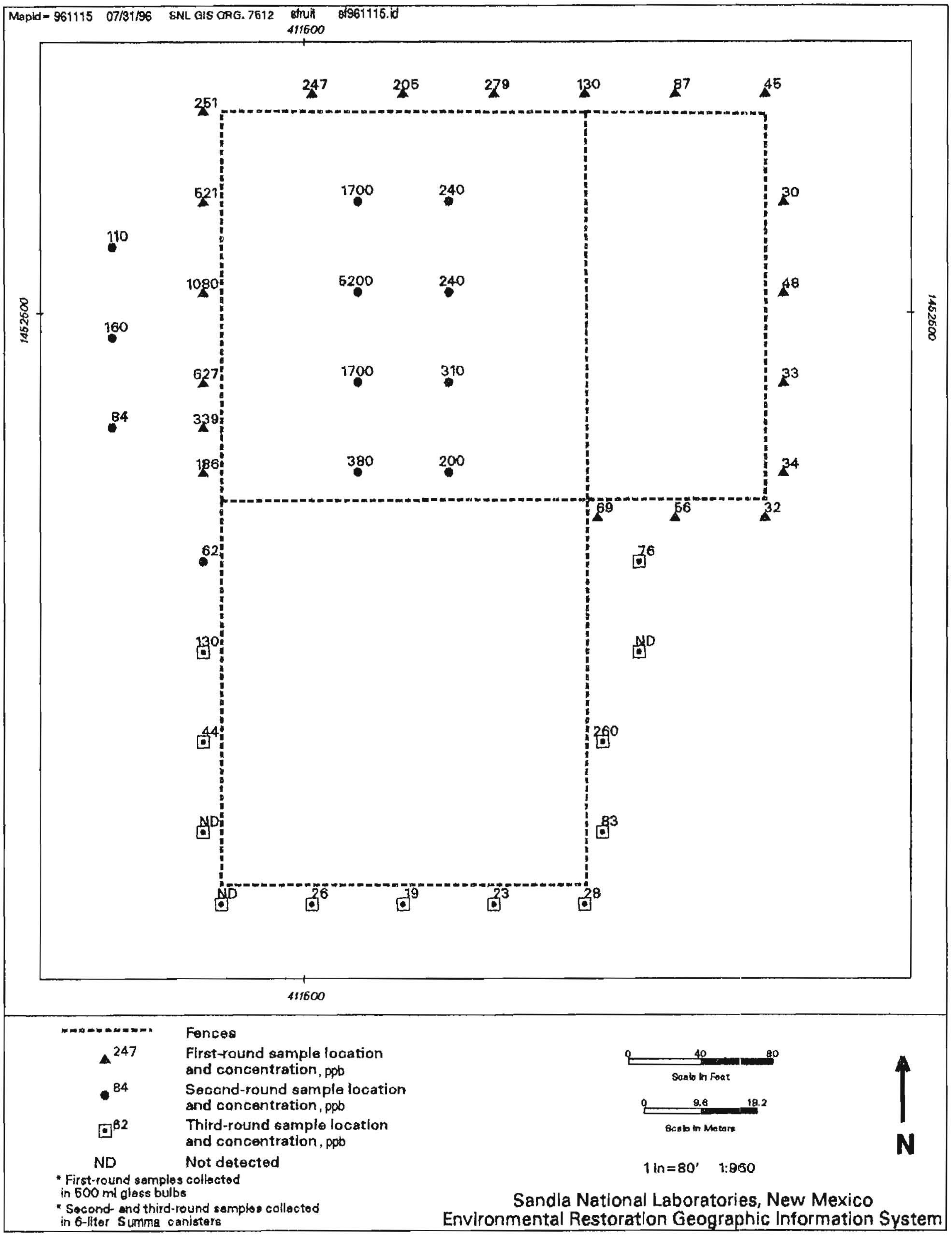

Figure 4.5-21 PCE in Soil Gas at 10 ft

4.5.2.7 VOCs in Soil Gas at 30 Feet

VOCs observed in soil gas at 30 feet bgs are shown in Figures 4.5-22 through 4.5-27. Figures 4.5-25, 4.5-26, and 4.5-27 show two VOC concentrations at each first-round sampling location. One number indicates the concentration obtained by on-site analysis of the 500 ml glass bulb sample, and the other value indicates the concentration obtained by off-site analysis of the 6-liter Summa canister sample.

The results of three rounds of sampling at the MWL show dichloro-difluoromethane; trichloro-fluoromethane; 1,1,2-trichloro-1,2,2-trifluoroethane; TCE; 1,1,1-TCA; and PCE to be present in soil gas at 30 ft bgs. In addition, methylene chloride was detected at two sample locations during second- and third-round sampling and chloroform was detected at one sample location during third-round sampling.

Dichloro-difluoromethane was detected at 24 sample locations ranging from 50 ppb to 21,500 ppb (second-round sample location 10), the highest VOC concentration observed at 30 ft bgs in the three rounds of active soil gas sampling (Figure 4.5-22). Sample 10 is between Trenches B and C, where the highest concentration of dichloro-difluoromethane at 10 ft bgs was observed (Figure 4.5-16). Concentrations of dichloro-difluoromethane observed at five of the eight sample locations in northern unclassified area (between Trenches B and C and between Trenches C and D) ranged from 1,200 ppb to 21,500 ppb. Elevated concentrations occurred also along the west fenceline of the northern unclassified area.

Trichloro-fluoromethane was detected at 17 sample locations, primarily around the perimeter of the southern unclassified area and in the northern unclassified area (Figure 4.5-23). Concentrations ranged from 16 ppb at the southwest corner of the southern unclassified area to 740 ppb in the southwest corner of the classified area. The highest trichloro-fluoromethane concentrations were observed along the fenceline in the northeast corner of the southern unclassified area. Elevated concentrations occurred also at three sample locations in the northern unclassified area.

1,1,2-trichloro-1,2,2-trifluoroethane was detected at 34 sample locations ranging from 25 ppb to 330 ppb (Figure 4.5-24). The highest 1,1,2-trichloro-1,2,2-trifluoroethane concentrations were observed along the north and west fencelines of the northern unclassified area. Elevated concentrations occurred also at the southwest corner of the classified area, and along the west and east fencelines of the southern and classified areas, respectively.

TCE was detected at 42 of the 43 locations sampled (Figure 4.5-25). First-round sample concentrations obtained from glass bulb analyses ranged from 163 ppb to 776 ppb. First-, second-, and third-round TCE concentrations obtained from Summa canisters ranged from 120 ppb to 630 ppb. The highest TCE concentrations occurred at sample locations in the northern unclassified area, along the west fenceline of the northern unclassified area, and along the south fenceline of the classified area.

1,1,1-TCA was detected at all of the first-round sampling locations (Figure 4.5-26). First- round sample concentrations from glass bulb analysis ranged from 21 ppb to 337 ppb. First-, second-, and third-round 1,1,1-TCA concentrations from analysis of Summa canisters ranged from 26 ppb to 750 ppb. The highest 1,1,1-TCA concentrations occurred along the west fenceline and in the northern unclassified area, and in the southwest corner of the classified area. 1,1,1-TCA occurred also around the entire perimeter of the southern unclassified area.

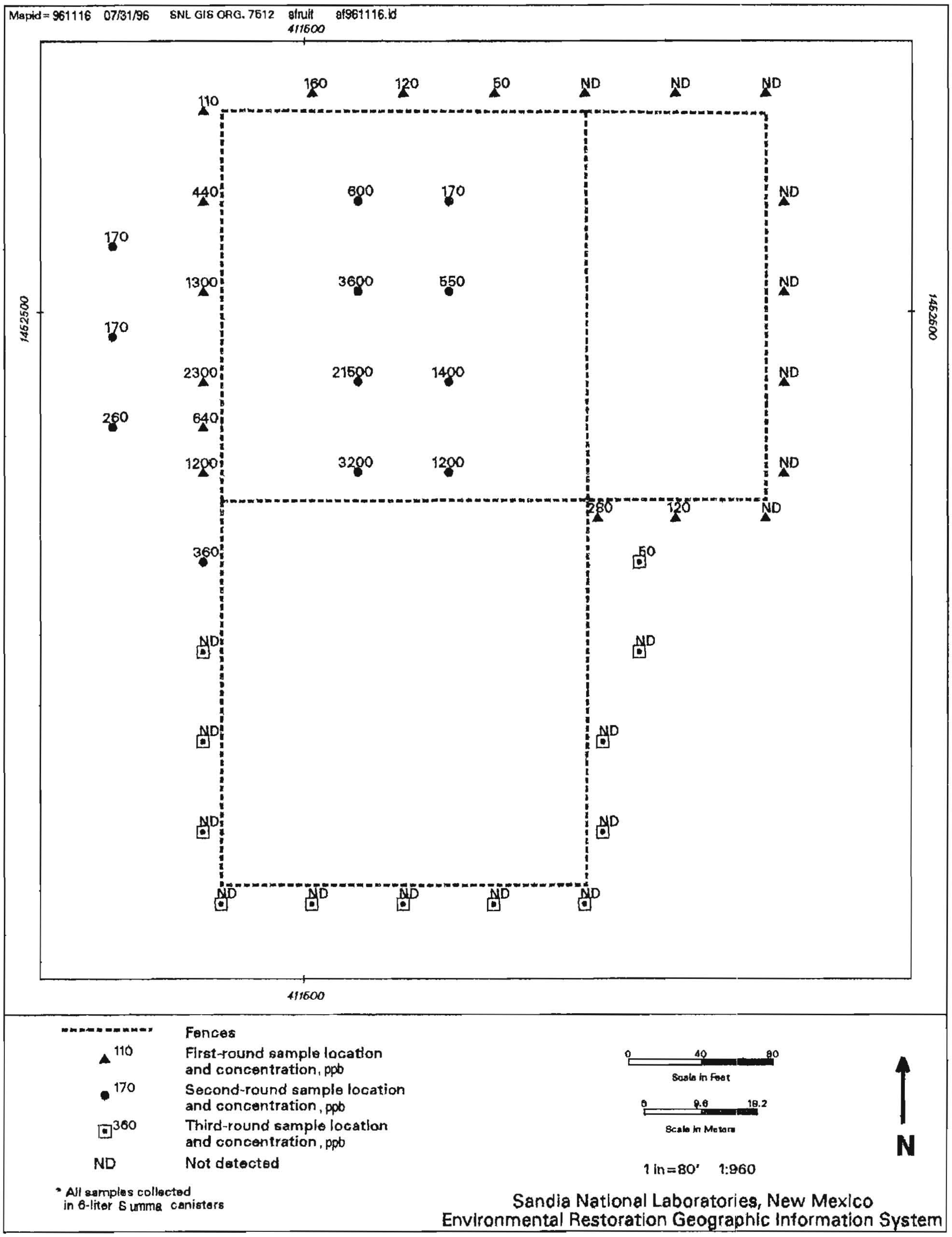

Figure 4.5-22 Dichloro-difluoromethane in Soil Gas at 30 ft

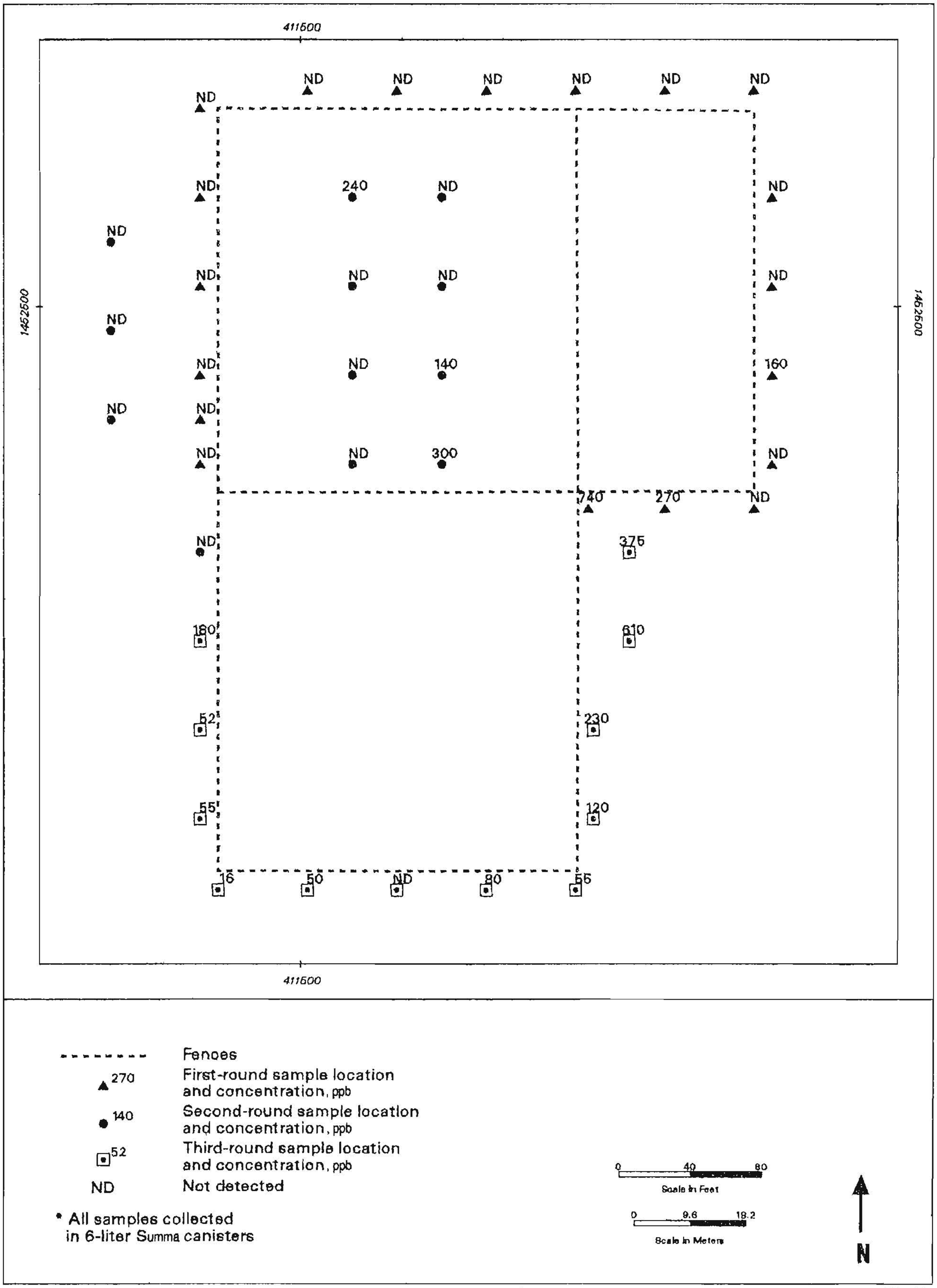

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Figure 4.5-23 Trichloro-fluoromethane in Soil Gas at 30 ft

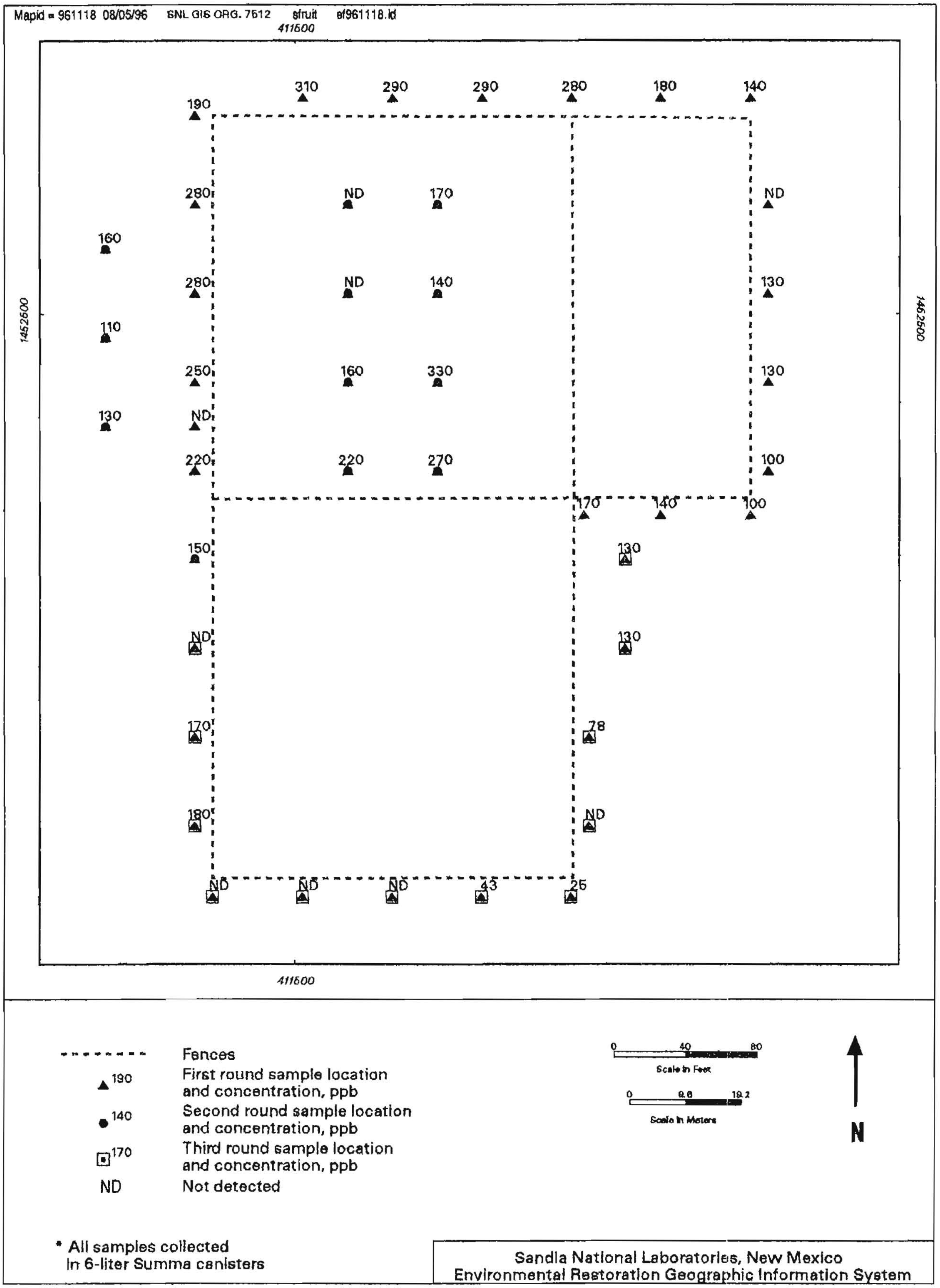


Figure 4.5-24 1,1,2-trichloro-1,2,2-trifluoroethane in Soil Gas at 30 ft

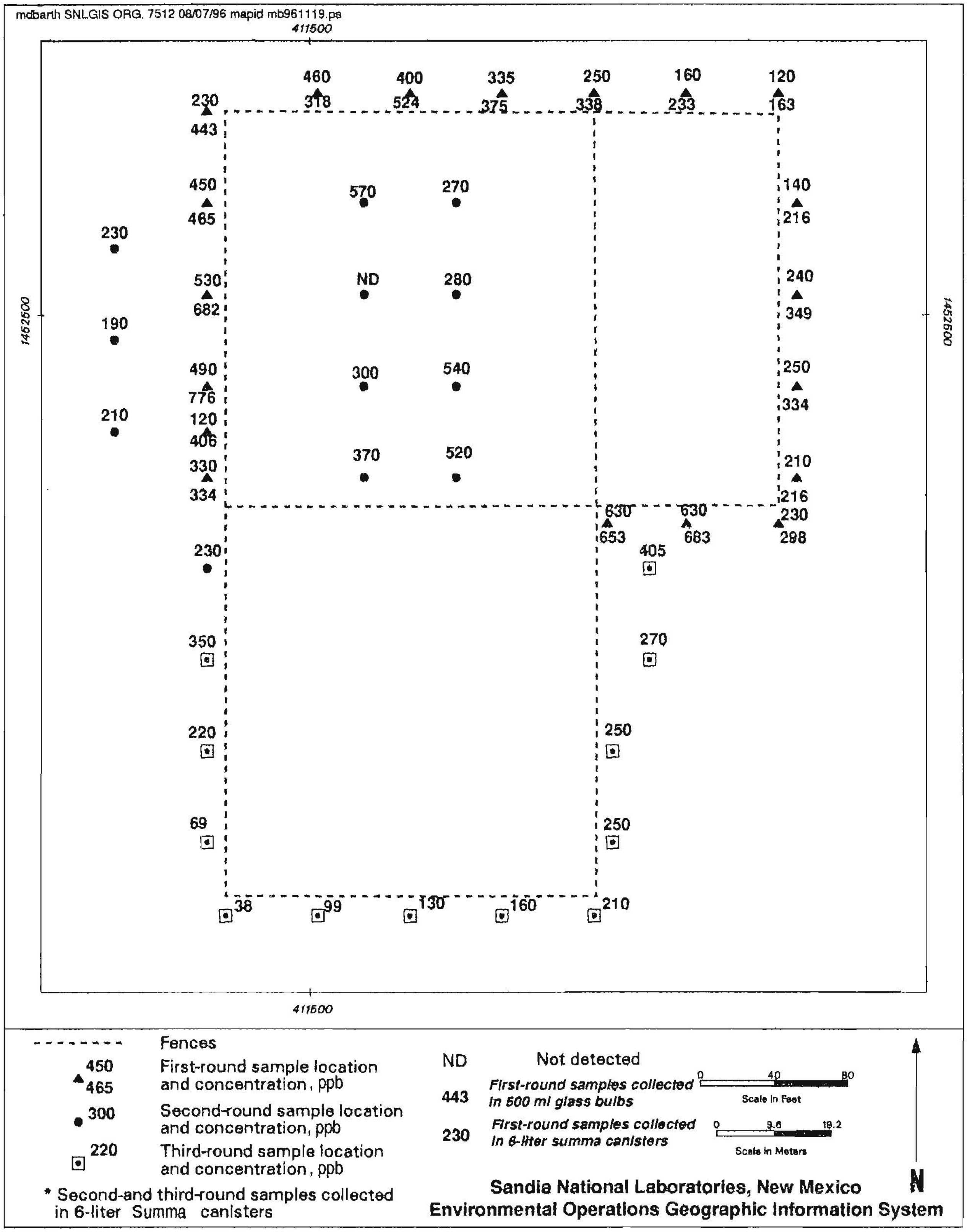


Figure 4.5-25 TCE in Soil Gas at 30 ft

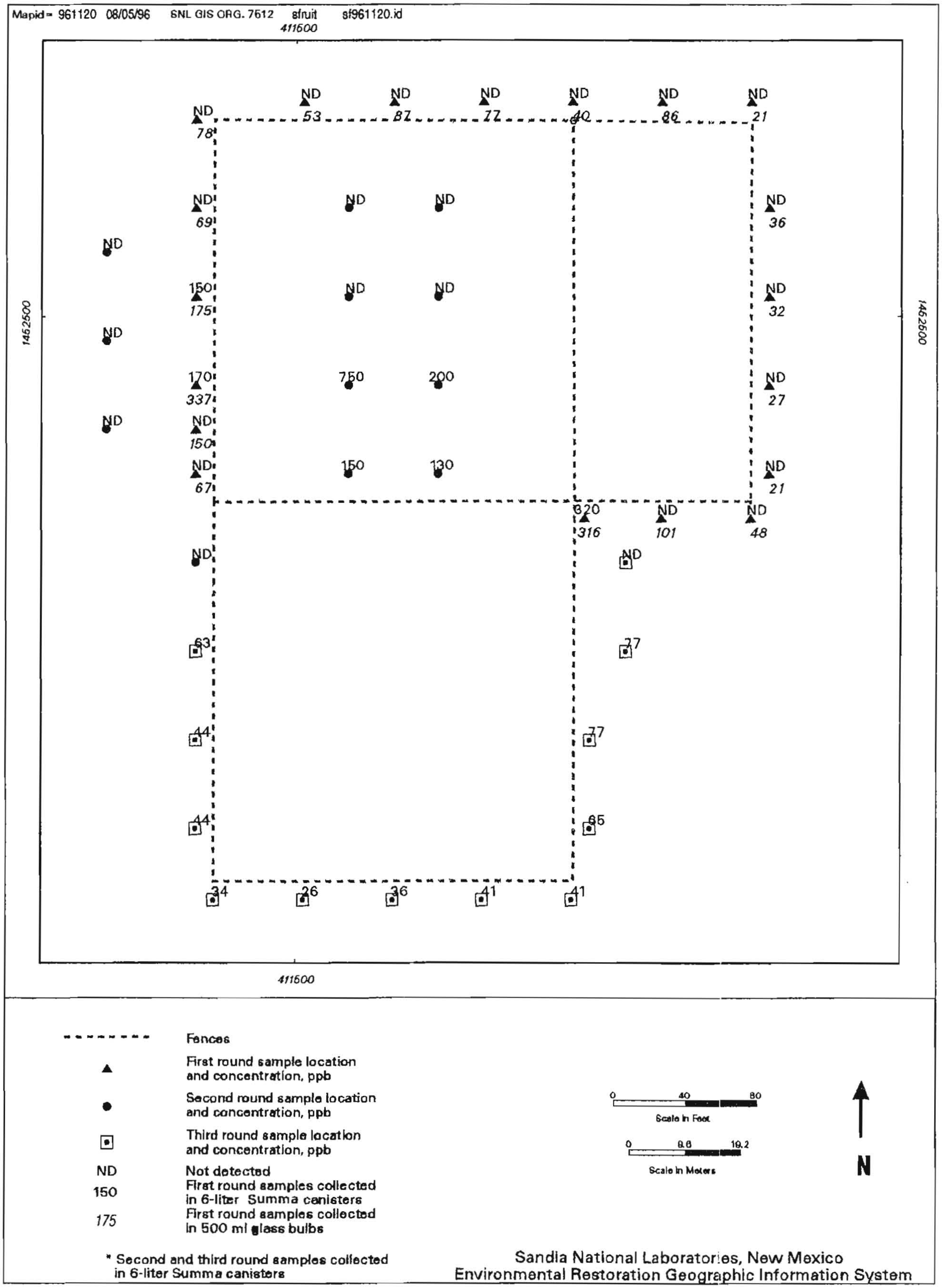


Figure 4.5-26 1,1,1-TCA in Soil Gas at 30 ft

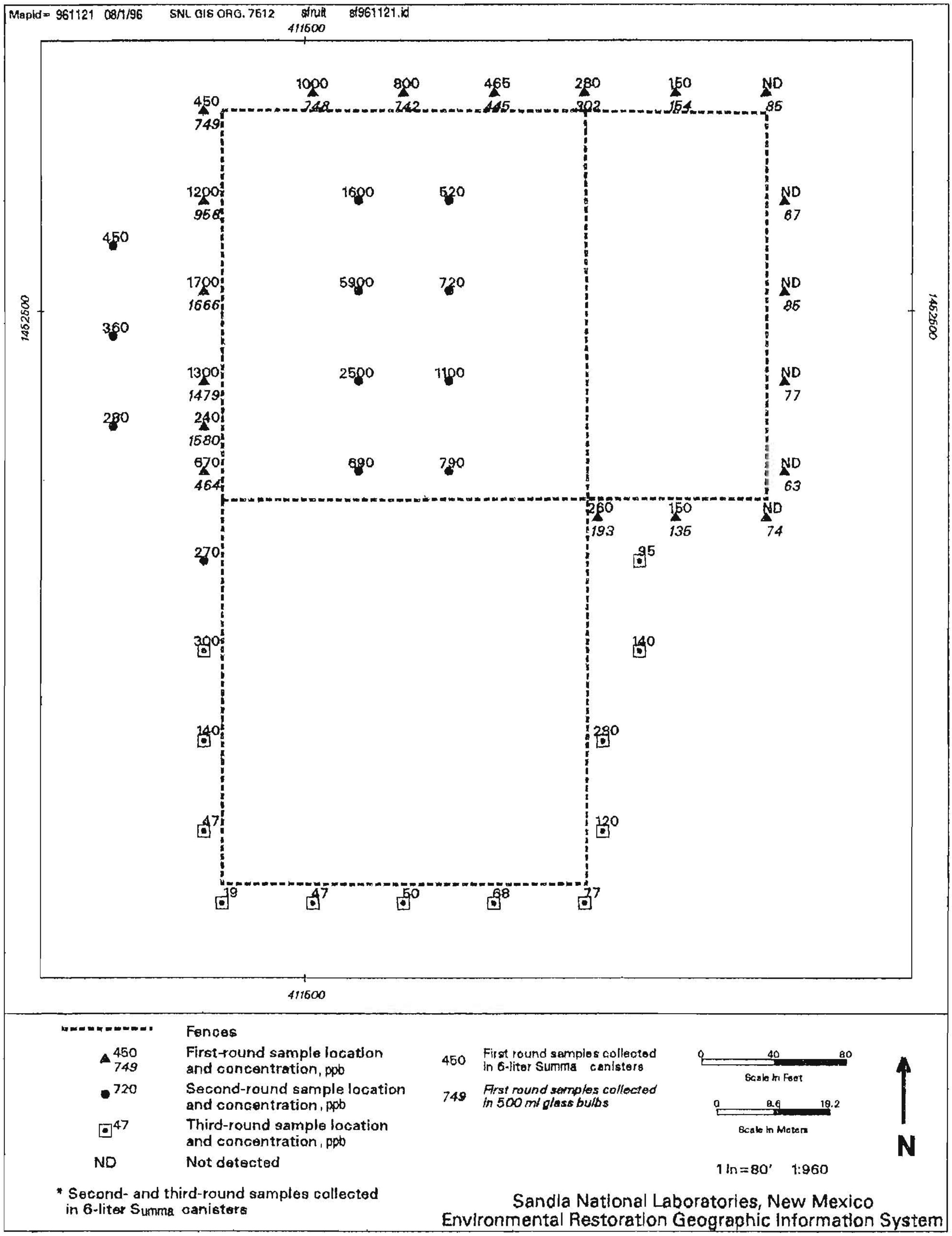


Figure 4.5-27 PCE in Soil Gas at 30 ft

PCE was detected at all first-round sampling locations (Figure 4.5-27). First-round sample concentrations from glass bulb analyses ranged from 63 ppb to 1,666 ppb. First-, second-, and third-round sample PCE concentrations from Summa canister analysis ranged from 19 ppb at the southwest corner of the southern unclassified area to 5,900 ppb in the northern unclassified area (second-round sample location 11). The highest 10 ft bgs PCE concentration (5,200 ppb) occurred also at second-round sample location 11 (Figure 4.5-21). The highest PCE concentrations occurred in the northern unclassified area between Trenches B and C, and between Trenches C and D. Elevated PCE concentrations occurred also along the north and west fencelines of the northern unclassified area, and around the entire perimeter of the southern unclassified area.

Methylene chloride was detected at two sample locations. 100 ppb was measured at second-round sample location 3 (a duplicate sample taken at the same location showed no measurable concentration of methylene chloride), and 14 ppb was measured at third-round sample location 6. No other measurable concentrations of methylene chloride were observed during active soil gas sampling. Trace levels of methylene chloride were present in each equipment blank taken during second-round sampling, and in one of two equipment blanks taken during third-round sampling.

Chloroform was detected at a single sample location (third-round sample location 10) at 14 ppb. No other measurable concentrations of chloroform were observed during active soil gas sampling.

4.5.2.8 Total VOCs

Twelve VOCs were detected during passive soil gas sampling. Major VOCs include PCE; TCE; 1,1,1-TCA; toluene; 1,1,2-trichlorotrifluoroethane; acetone; and dichloroethyne. Six major VOCs were detected during active soil gas sampling. These include PCE; TCE; 1,1,1-TCA; trichloro-trifluoromethane; dichloro-difluoromethane; and 1,1,2-trichloro-1,2,2-trifluoroethane. Toluene; 1,1,2-trichloro-trifluoroethane; acetone; and dichloroethyne were not detected during active soil gas sampling. Total VOCs in soil gas at 10 ft and 30 ft bgs are presented in Figures 4.5-28 and 4.5-29.

Total active soil gas concentrations at 10 ft and 30 ft bgs corresponded quite well. Total VOC concentrations increase generally with depth. Sample locations showing the highest concentrations of total VOCs at 10 ft bgs were typically the same sample locations that showed the highest concentrations at 30 ft bgs. There are three areas where total VOC concentration at 10 ft bgs and 30 ft bgs are higher than they are in other areas of the landfill. The highest concentration of total VOCs occurs in the northern unclassified area between Trenches B and C and between Trenches C and D. Elevated concentrations occur also along the west fenceline of the northern unclassified area and in the northeast corner of the southern unclassified area.

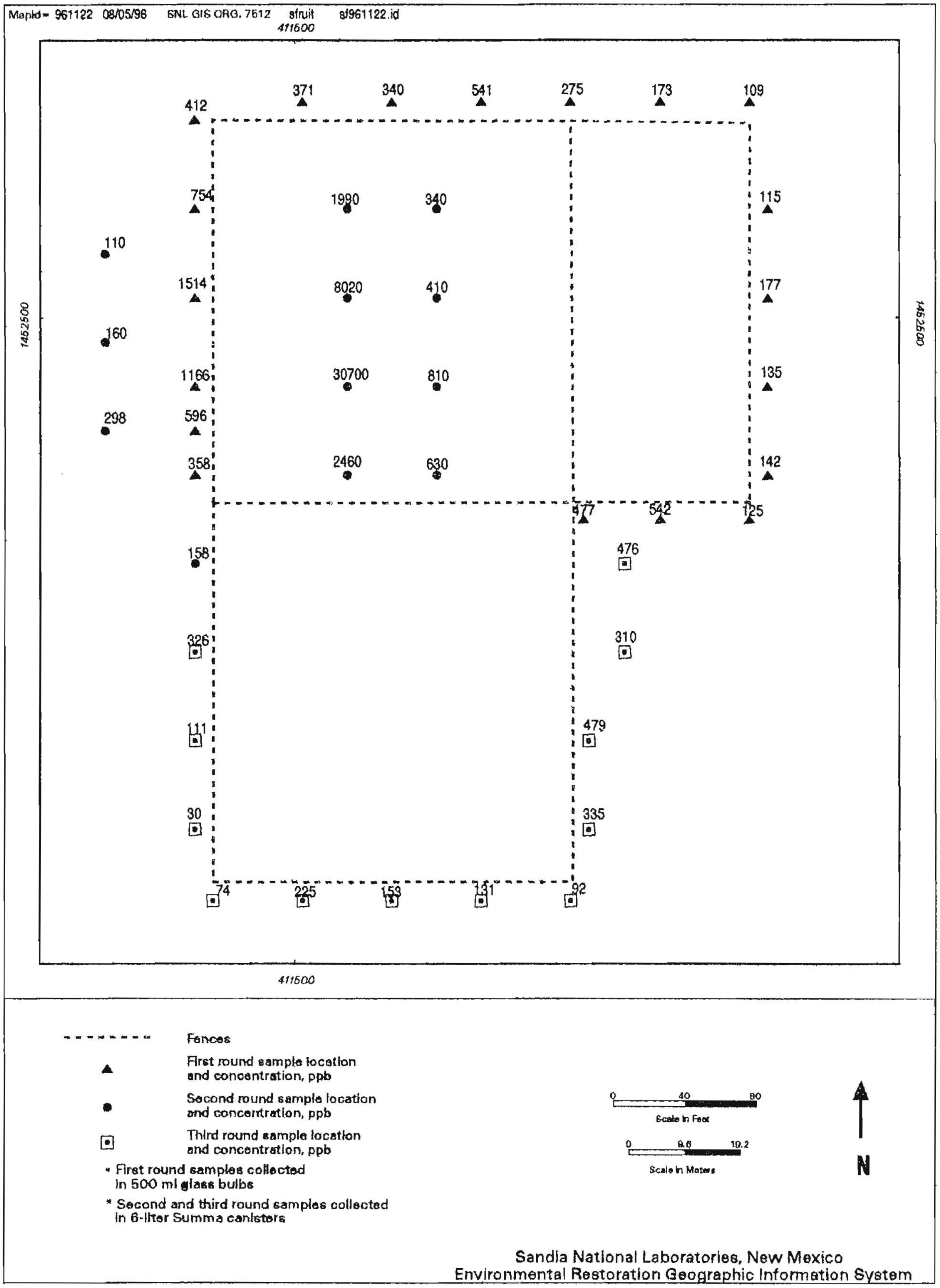


Figure 4.5-28 Total VOCs in Soil Gas at 10 ft

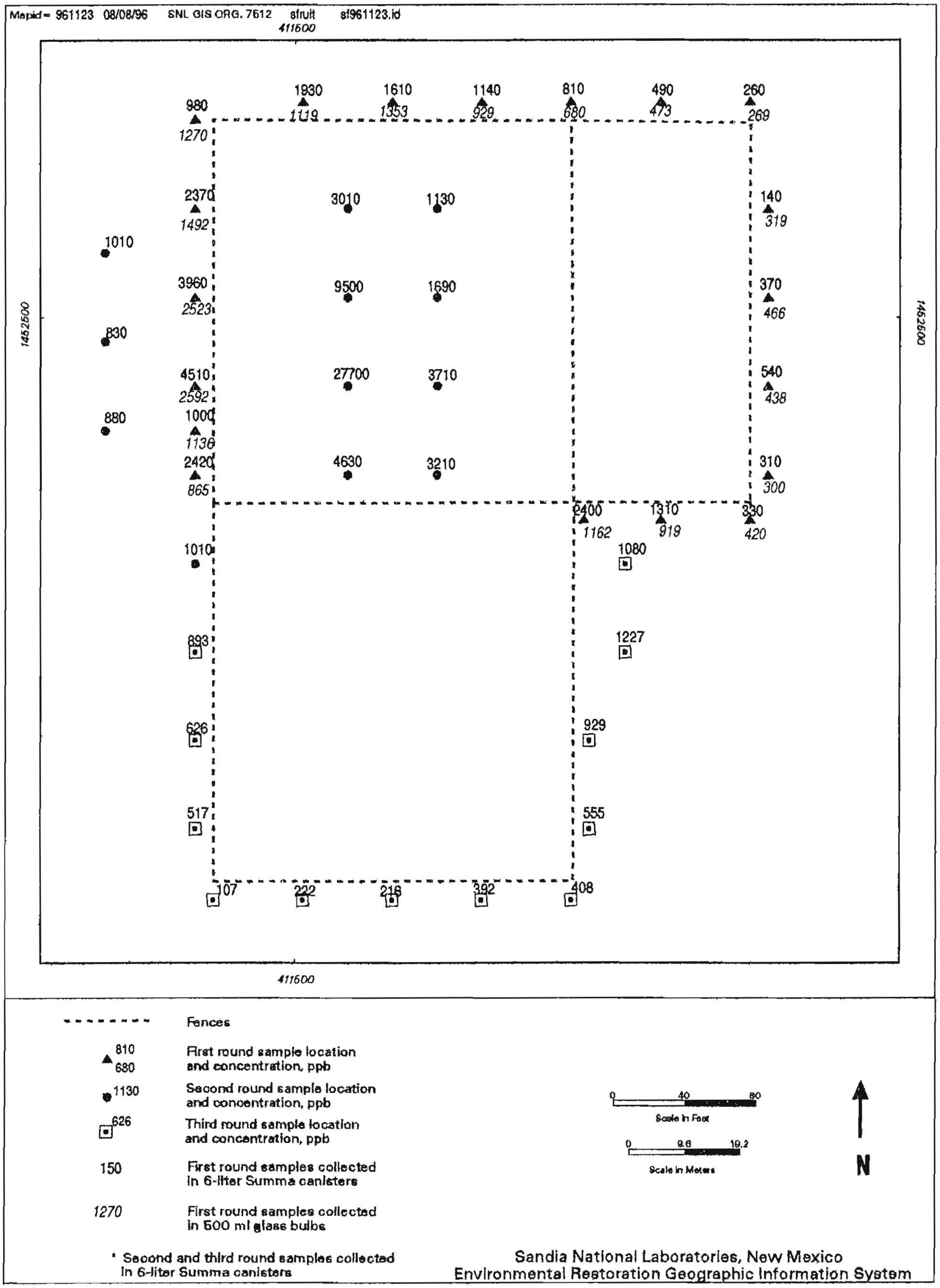


Figure 4.5-29 Total VOCs in Soil Gas at 30 ft

4.6 Borehole Drilling

4.6.1 Borehole Drilling Objectives

Borehole drilling objectives were to obtain representative subsurface soil samples from beneath MWL disposal pits and trenches for VOC, SVOC, TAL metals, tritium, isotopic uranium, thorium, plutonium, gross alpha/beta, and strontium-90 analysis. Previous studies at the MWL indicate that tritium is the contaminant of primary concern (Brewer, 1973; Simmons, 1979; Millard et al., 1983; SNL,NM, 1990; Radian Corporation, 1992a and 1992b)). Phase 2 RFI borehole drilling was designed to corroborate this finding and to evaluate the potential for hazardous waste disposal at the landfill. A total of 15 boreholes were planned to accomplish these objectives.

4.6.2 Borehole Locations

The locations of boreholes 1 through 15 were based on MWL Phase 1 RFI results, completed Phase 2 RFI characterization results, and consultations with NMED. Boreholes 1 through 13 were 30-degree angle holes drilled adjacent and perpendicular to the landfill fence. Boreholes 14 and 15 were vertical holes drilled 60 ft east of the classified area fence. Boreholes 1 through 13 were located in order to obtain samples directly below disposal pits and trenches. Boreholes 14 and 15 were placed to evaluate potential eastward lateral migration of tritium from classified area disposal pits. The locations of boreholes 1 through 15 are presented in Figure 4.6-1

4.6.3 Sampling Frequency

Subsurface soil samples were collected using resonant sonic drilling. Each borehole was cased as the hole was advanced to prevent sloughing. Samples were obtained using a California-modified, 18 in.-long, 2.5 in.-diameter split-spoon core sampler hammered into undisturbed soil ahead of the bit-face. VOC, SVOC, TAL metals, and isotopic samples were obtained at 10 ft, 30 ft, 50 ft, 70 ft, 90 ft, and total depth. Tritium samples were obtained every 20 feet beginning at 10 ft to total depth. Boreholes were advanced to a minimum targeted depth of 120 linear feet. Boreholes were advanced further if on-site screening warranted and drilling conditions were favorable.

4.6.4 Borehole Drilling Analytical Procedures

Borehole analytical procedures were designed to address the types of contaminants suspected or previously documented at the MWL. Analytical procedures consisted of analyses for VOCs, SVOCs, TAL metals, isotopic uranium, thorium, and plutonium, total radio-strontium, gross alpha and gross beta, and tritium. All samples were analyzed using EPA CLP and SW-846 methods. Table 4.6-1 summarizes the analytical methods used during borehole drilling.

VOC, SVOC, and TAL metals analyses were performed by General Engineering Laboratories, Inc., Charleston, South Carolina. Radiochemical analyses were performed by Lockheed Analytical Services, Las Vegas, Nevada. 103 samples were collected for VOC, SVOC, TAL metals, and radiochemical analyses. 120 samples were collected for tritium analysis. A total of 532 samples were collected during borehole drilling. Table 4.6-2 summarizes the number of samples collected from each borehole.

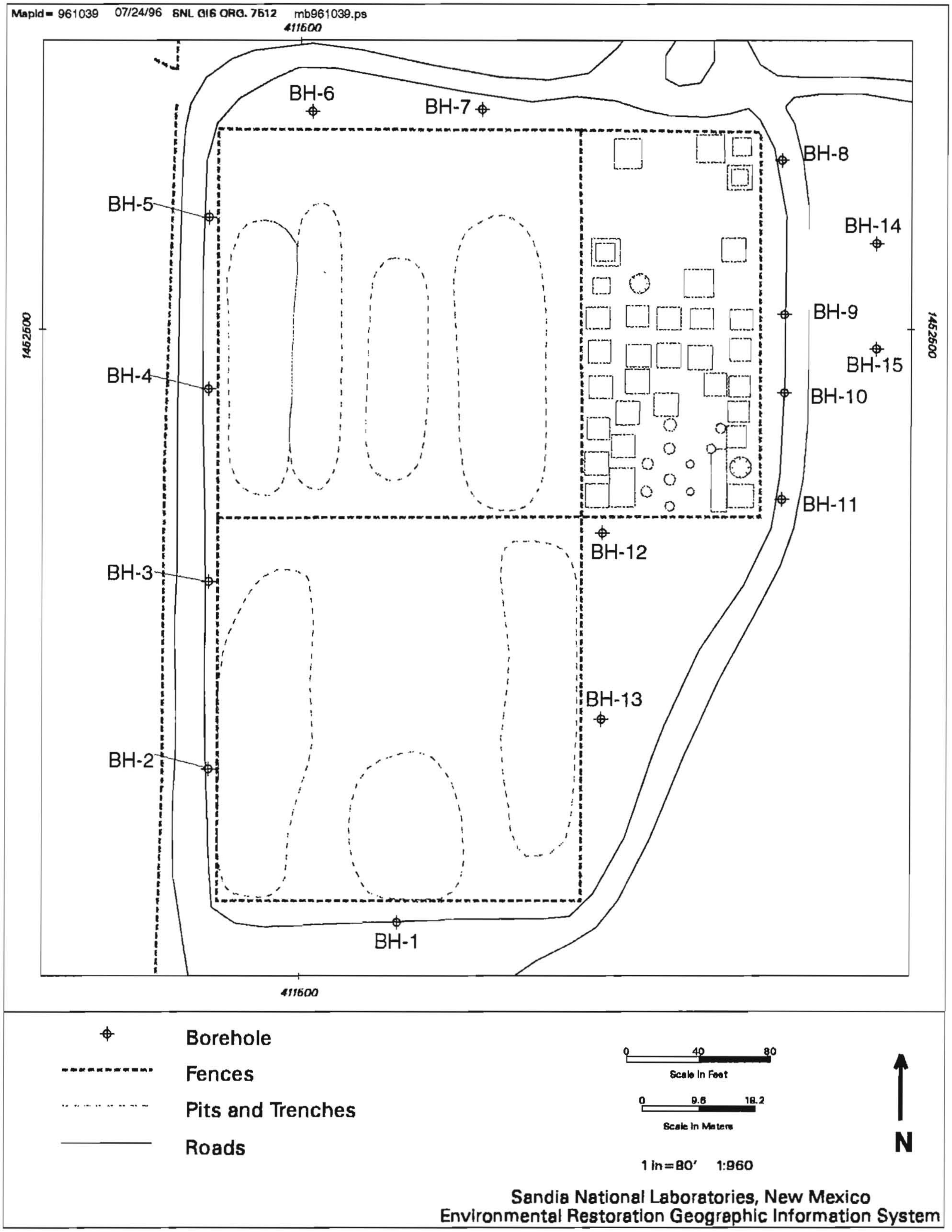


Figure 4.6-1 Location of Boreholes 1 through 15

4.6.4.1 VOC, SVOC, and TAL Metals Results

VOC and SVOC results for all borehole soil samples collected during borehole drilling are presented in Appendices B and C, respectively. The borehole number, sample number, sample depth (linear borehole depth and true depth), analyte, concentration, and action level are given. Nine VOCs (acetone, 2-butanone, 2-hexanone, 4-methyl-2-pentanone, PCE, total xylenes, methylene chloride, toluene, and TCE), and two SVOCs (bis(2-ethylhexyl) phthalate and pyrene) were identified in borehole soil samples.

TAL metals results for all borehole soil samples are presented in Appendix D. The borehole number, sample number, sample depth (linear borehole depth and true depth), analyte, and concentration are given.

VOC, SVOC, and metals results were compared to RCRA proposed Subpart S action levels for soils. Where no proposed Subpart S action level was available for a specific VOC, SVOC, or metal, an action level was calculated using toxicity information contained in EPA's IRIS database (EPA, 1995a) or the HEAST (EPA, 1995b). Proposed Subpart S (55 FR 30870) soil ingestion equations were used to calculate unavailable action levels.

In evaluating VOC and SVOC data, EPA guidance was used to discount specific VOCs and SVOCs that were present in the borehole soil sample and the associated laboratory or field blanks. The EPA states: "The purpose of laboratory (or field) blank analysis is to determine the existence and magnitude of contamination resulting from laboratory (or field) activities. The criteria for evaluation of blanks apply to any blank associated with the samples (e.g., method blanks, instrument blanks, trip blanks, and equipment blanks). If problems with any blank exist, all associated data must be carefully evaluated to determine whether or not there is an inherent variability in the data, or if the problem is an isolated occurrence not affecting other data" (EPA, 1991a). Further guidance from EPA states that: "In reality, it is not unusual to find low levels of common laboratory solvents (i.e., acetone, 2-butanone, methylene chloride), phthalates (i.e., di-n-butyl phthalate, bis(2-ethylhexyl) phthalate), and other ubiquitous compounds in laboratory blanks" (EPA, 1993a). Specific guidance states that an analytical result may be discounted if either of the following criteria are met: 1) the compound is identified in a sample at a concentration that is less than 10 times the concentration that was identified in a blank sample; 2) the compound is identified in a sample at a concentration that is less than 5 times the detection limit (EPA, 1993a).

A number of VOCs and SVOCs were present in laboratory and field blanks associated with borehole soil samples. Acetone, PCE, methylene chloride, 2-butanone, 2-hexanone, 4-methyl-2-pentanone, and toluene were detected in laboratory and/or field blanks. Acetone was present in laboratory and field blanks associated with all borehole soil samples; PCE was present in a field blank associated with BH-2; methylene chloride was present in laboratory and field blanks associated with BH-8 through BH-14; 2-butanone was present in laboratory and field blanks associated with BH-2, BH-3, BH-5, BH-6, and BH-10 through BH-13; and 2-hexanone, 4-methyl-2-pentanone, and toluene were present in a field blank associated with BH-11.

Two SVOCs were present in laboratory and field blanks associated with borehole samples. Bis(2-ethylhexyl) phthalate was found in laboratory and field blanks associated with soil samples from BH-4, BH-5, and BH-10. Isophorone was detected in the laboratory blank associated with BH-10. Appendix B and C show the concentrations of VOCs and SVOCs that were present in blanks associated with borehole soil samples. The appendices also show the VOCs and SVOCs that were discounted based upon EPA guidance. Using EPA guidance, all but six occurrences of acetone (97 total), 20 occurrences of 2-butanone, and 40 occurrences of methylene chloride were attributed to laboratory contamination and discounted. Four occurrences of bis(2-ethylhexyl) phthalate, out of 15 total occurrences, were likewise discounted.

4.6.4.2 VOCs

Table 4.6-3 summarizes VOCs detected in borehole soil samples, excluding those discounted based upon EPA guidance. Table 4.6-3 provides the borehole number, the analyte, the highest measured concentration of that specific analyte in the corresponding borehole, and the action level for each analyte listed.

VOCs were not detected in BH-9, BH-11, BH-12, and BH-14. Acetone was detected in BH-2, BH-4, BH-7, BH-8, and BH-15. The highest concentrations of acetone ranged from 61.8 μg/kg in BH-8 to 225 J μg/kg in BH-15. The maximum non-qualified concentration for acetone was 181 μg/kg in BH-2. 2-butanone was detected in BH-1, BH-4, BH-7, BH-8, and BH-15. The highest concentrations of 2-butanone ranged from 2.07 J μg/kg in BH-1 to 22.3 J μg/kg in BH-15. All occurrences of 2-butanone were "J" qualified (concentration of the compound was greater than the detection limit but less than the reporting limit). Methylene chloride was detected in BH-6, BH-7, and BH-15. The highest concentrations of methylene chloride detected ranged from 1.01 J μg/kg in BH-6 to 5.3 J μg/kg in BH-15. All occurrences of methylene chloride were "J" qualified. 2-hexanone was present in BH-2, BH-3, BH-4, BH-7, and BH-10. The highest concentrations of 2-hexanone ranged from 2.85 J μg/kg in BH-10 to 8.85 J μg/kg in BH-4. All occurrences of 2-hexanone were "J" qualified. 4-methyl-2-pentanone was present in BH-2, BH-4, and BH-7. The highest concentrations of 4-methyl-2-pentanone ranged from 4.0 J μg/kg in BH-2 to 7.57 J μg/kg in BH-4. All occurrences of 4-methyl-2-pentanone were "J" qualified. Total xylenes were detected in BH-3, BH-7, and BH-13. The highest concentrations of total xylenes ranged from 3.97 J μg/kg in BH-3 to 17.8 J μg/kg in BH-13. All occurrences of total xylenes were "J" qualified. PCE, TCE, and toluene were each detected in only one borehole. PCE was detected in BH-3 at 2.45 J μg/kg, TCE was detected in BH-5 at 1.0 μg/kg, and toluene was detected in BH-13 at 20.4 J μg/kg.

All of the VOCs discussed above were detected at levels significantly below their corresponding action levels. The maximum concentration of acetone measured during borehole drilling was 225 J μg/kg. The proposed Subpart S action level for acetone in soils is 8,000,000 μg/kg. The maximum concentration of methylene chloride was 5.3 J μg/kg. The proposed Subpart S action level for methylene chloride in soils is 90,000 μg/kg. The maximum concentrations of 2-butanone, 2-hexanone, and 4-methyl-2-pentanone were 22.3 J μg/kg, 8.85 J μg/kg, and 7.57 J μg/kg, respectively. The action levels generated for 2-butanone and 2-hexanone from toxicity parameters contained in IRIS were 50,000,000 μg/kg and 3,000,000 μg/kg. The proposed Subpart S action level for 4-methyl-2-pentanone is 4,000,000 μg/kg. The maximum concentration of PCE detected was 2.45 J μg/kg. The proposed Subpart S action level for PCE in soil is 10,000 μg/kg. The maximum concentration of total xylenes detected was 17.8 J μg/kg. The proposed Subpart S action level for total xylenes in soil is 200,000,000 μg/kg. The maximum concentration of toluene detected was 20.4 J μg/kg. The proposed Subpart S action level for toluene in soil is 20,000,000 μg/kg. The maximum concentration of TCE detected was 1.0 J μg/kg. The proposed Subpart S action level for TCE in soil is 60,000 μg/kg. None of the VOCs detected in borehole soil samples exceeded either proposed Subpart S action levels for soils or action levels generated from toxicity information contained in IRIS or the HEAST.

Table 4.6-3 VOCs Detected in Borehole Soil Samples

Borehole	Analyte	Highest Measured Concentration (μg/kg)	Action Level (μg/kg)
BH-1	2-Butanone	2.07 J	50,000,000[b]
BH-2	Acetone	181	8,000,000[a]
	2-Hexanone	5.81 J	3,000,000[b]
	4-Methyl-2-pentanone	4 J	4,000,000[a]
BH-3	2-Hexanone	4.88 J	3,000,000[b]
	PCE	2.45 J	10,000[a]
	Total Xylenes	3.97 J	200,000,000[a]
BH-4	Acetone	122	8,000,000[a]
	2-Butanone	15 J	50,000,000[b]
	2-Hexanone	8.85 J	3,000,000[b]
	4-Methyl-2-pentanone	7.57 J	4,000,000[a]
BH-5	TCE	1 J	60,000[a]
BH-6	Methylene Chloride	1.48 J	90,000[a]
BH-7	Acetone	126	8,000,000[a]
	2-Butanone	19.1 J	50,000,000[b]
	Methylene Chloride	1.52 J	90,000[a]
	2-Hexanone	5.91 J	3,000,000[b]
	4-Methyl-2-pentanone	5.1 J	4,000,000[a]
	Total Xylenes	4.4 J	200,000,000[a]
BH-8	Acetone	61.8	8,000,000[a]
	2-Butanone	4.38 J	50,000,000[b]
BH-9	ND	-	-
BH-10	2-Hexanone	8.46 J	3,000,000[b]
BH-11	ND	-	-
BH-12	ND	-	-
BH-13	Total Xylenes	17.8 J	200,000,000[a]
	Toluene	20.4 J	20,000,000[a]
BH-14	ND	-	-
BH-15	Acetone	225 J	8,000,000[a]
	Methylene Chloride	5.3 J	90,000[a]
	2-Butanone	22.3 J	50,000,000[b]

(a) Proposed RCRA Subpart S action level for soils (55 FR 30865)

(b) Action level based on toxicity information contained in the IRIS database (EPA, 1995a) or the HEAST (EPA, 1995b) and a HI of 1. Soil ingestion equations provided in Subpart S (55 FR 30870) were used to calculate action levels.

ND No organic compound was detected above instrument detection limits.

J Concentration of the compound in the sample was below the Reporting Limit but above the Detection Limit.

4.6.4.3 SVOCs

Table 4.6-4 summarizes SVOCs detected in borehole soil samples, excluding those discounted based upon EPA guidance. Table 4.6-4 provides the borehole number, the analyte, the highest measured concentration of that specific analyte, and the action level for each analyte listed.

SVOCs were not detected in BH-5, BH-6, and BH-12 through BH-15. Bis(2-ethylhexyl) phthalate was detected in BH-1 through BH-3, and BH-7 through BH-11. The highest concentrations of bis(2-ethylhexyl) phthalate ranged from 199 J μg/kg in BH-8 to 1,780 μg/kg in BH-10. Pyrene was detected in BH-4 at a concentration of 1,060 μg/kg.

Bis(2-ethylhexyl) phthalate and pyrene were detected at levels which are significantly below their corresponding action levels. The maximum concentration of bis(2-ethylhexyl) phthalate detected in borehole soil samples was 1,780 μg/kg. The proposed Subpart S action level for bis(2-ethylhexyl) phthalate in soil is 50,000 μg/kg. The maximum concentration of pyrene detected was 1,060 μg/kg. The action level generated for pyrene from toxicity information contained in IRIS is 2,000,000 μg/kg. None of the SVOCs detected in borehole soil samples exceeded either proposed Subpart S action levels for soil or action levels generated from toxicity information contained in IRIS or the HEAST.

4.6.4.4 TAL Metals

Table 4.6-5 summarizes TAL metals detected in borehole soil samples. The table provides the borehole number, the metal, the highest measured concentration of that specific metal, the action level for each metal listed, and the statistically-determined UTL. The UTL is used to define background if the data set is normal or lognormal, and establishes a concentration range that is constructed to contain a specified proportion of the population with a specified confidence. The proportion of the population included is referred to as the coverage, and the probability with which the tolerance interval includes the proportion is referred to as the tolerance coefficient. The EPA-recommended coverage value of 95 percent and tolerance coefficient value of 95 percent (EPA, 1992) was used to calculate the UTL.

The highest measured concentrations of calcium, iron, potassium, magnesium, and sodium were detected at levels ranging from 41,400 mg/kg in BH-14 to 155,000 mg/kg in BH-15, 9,500 mg/kg in BH-1 to 14,200 mg/kg in BH-10, 776 mg/kg in BH-1 to 1,680 mg/kg in BH-6, 3,160 mg/kg in BH-3 to 6,270 mg/kg in BH-8, and 206 mg/kg in BH-3 to 618 mg/kg in BH-5, respectively. These five metals are considered essential nutrients, in RAGS (EPA, 1989), and have no action levels.

The highest measured concentrations of lead were detected at levels ranging from 5.36 mg/kg in BH-15 to 13.9 mg/kg in BH-6. EPA guidance for lead is given in "Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities" (EPA, 1994). EPA provides an action level of 400 mg/kg for lead in soil.

The highest measured concentrations of antimony, total chromium, mercury, and nickel were detected at levels ranging from 0.118 mg/kg in BH-3 to 0.475 mg/kg in BH-9, 9.11 mg/kg in BH-1 to 33.1 mg/kg in BH-8, 0.00963 mg/kg in BH-13 to 2.11 mg/kg in BH-10, and 8.46 mg/kg in BH-13 to 97.5 mg/kg in BH-3, respectively. The proposed Subpart S action levels for antimony, chromium, mercury, and nickel in soil are 30 mg/kg, 400 mg/kg, 20 mg/kg, and 2,000 mg/kg, respectively. The TAL metals analysis (Method 6010 for ICP metals) includes analysis for total chromium. Total chromium includes chromium III and chromium VI. Since chromium VI was not analyzed for, but may represent a portion of the total chromium concentration reported, the more conservative action level for chromium VI was used.

Table 4.6-4 SVOCs Detected in Borehole Soil Samples

Borehole	Analyte	Highest Measured Concentration (μg/kg)	Action Level (μg/kg)
BH-1	Bis(2-ethylhexyl)phthalate	219 J	50,000[(a)]
BH-2	Bis(2-ethylhexyl)phthalate	614	50,000[(a)]
BH-3	Bis(2-ethylhexyl)phthalate	1110	50,000[(a)]
BH-4	Pyrene	1060	2,000,000[(b)]
BH-5	ND	-	-
BH-6	ND	-	-
BH-7	Bis(2-ethylhexyl)phthalate	795	50,000[(a)]
BH-8	Bis(2-ethylhexyl)phthalate	199 J	50,000[(a)]
BH-9	Bis(2-ethylhexyl)phthalate	504	50,000[(a)]
BH-10	Bis(2-ethylhexyl)phthalate	1780	50,000[(a)]
BH-11	Bis(2-ethylhexyl)phthalate	325 J	50,000[(a)]
BH-12	ND	-	-
BH-13	ND	-	-
BH-14	ND	-	-
BH-15	ND	-	-

(a) Proposed RCRA Subpart S action level for soils (55 FR 30865)

(b) Action level based on toxicity information contained in the IRIS database (EPA, 1995a) or the HEAST (EPA, 1995b) and a HI of 1. The soil ingestion equations provided in Subpart S (55 FR 30870) were used to calculate the action levels.

ND No semivolatile organic compound was detected above instrument method detection limits.

J Concentration of the compound in the sample was below the Reporting Limit but above the Detection Limit.

Table 4.6-5 TAL Metals Detected in Borehole Soil Samples

Borehole	Metal	Highest Measured Concentration (mg/kg)	Action Level (mg/kg)	Statistically Determined UTL[g]
BH-1	Mercury	0.0347	20[a]	-[i]
	Silver	ND	400[b]	-[i]
	Aluminum	6950	-[d]	7286.95
	Arsenic	3.6	20[b]	4.45
	Barium	189	6,000[b]	235.51
	Beryllium	0.486	0.2[a]	0.82
	Calcium	64500	-[c]	75830.5
	Cadmium	0.651	80[b]	0.87[h]
	Cobalt	4.9	-[d]	4.98
	Chromium	9.11	400[a]	8.7
	Copper	26.9	-[d]	8.61
	Iron	9500	-[c]	11812
	Potassium	776	-[c]	1473
	Magnesium	3630	-[c]	4687
	Manganese	204	10,000[b,d]	259
	Sodium	358	-[c]	489[h]
	Nickel	9.09	2,000[a]	8.86
	Lead	7.15	400[e]	7.48
	Antimony	0.147	30[a]	4.8[h]
	Selenium	ND	400[a]	-[i]
	Thallium	ND	6[f]	-[i]
	Vanadium	18.4	600[b,d]	24
	Zinc	40.2	20,000[b,d]	28.59
BH-2	Mercury	0.0755	20[a]	-[i]
	Silver	ND	400[b]	-[i]
	Aluminum	8670	-[d]	7286.95
	Arsenic	3.15	20[b]	4.45
	Barium	220	6,000[b]	235.51
	Beryllium	0.451	0.2[a]	0.82
	Calcium	50700	-[c]	75830.5
	Cadmium	1.97	80[b]	0.87[h]
	Cobalt	4.93	-[d]	4.98
	Chromium	17.8	40[a]0	8.7
	Copper	25.7	-[d]	8.61
	Iron	13500	-[c]	11812
	Potassium	1240	-[c]	1473
	Magnesium	3450	-[c]	4687
	Manganese	200	10,000[b,d]	259
	Sodium	291	-[c]	489[h]
	Nickel	15.6	2,000[a]	8.86
	Lead	6.96	400[e]	7.48
	Antimony	0.193	30[a]	4.8[h]
	Selenium	ND	400[b]	-[i]
	Thallium	0.385	6[f]	-[i]
	Vanadium	20.4	600[b,d]	24
	Zinc	38.4	20,000[b,d]	28.59

Table 4.6-5 TAL Metals Detected in Borehole Soil Samples, (Continued)

Borehole	Metal	Highest Measured Concentration (mg/kg)	Action Level (mg/kg)	Statistically Determined UTL[g]
BH-3	Mercury	0.041	20[a]	-[i]
	Silver	1.46	400[b]	-[i]
	Aluminum	7990	-[d]	7286.95
	Arsenic	3.05	20[b]	4.45
	Barium	182	6,000[b]	235.51
	Beryllium	0.531	0.2[a]	0.82
	Calcium	56700	-[c]	75830.5
	Cadmium	1.58	80[b]	0.87[h]
	Cobalt	105	-[d]	4.98
	Chromium	14.2	400[a]	8.7
	Copper	645	-[d]	8.61
	Iron	10600	-[c]	11812
	Potassium	1270	-[c]	1473
	Magnesium	3160	-[c]	4687
	Manganese	241	10,000[b,d]	259
	Sodium	206	-[c]	489[h]
	Nickel	97.5	2,000[a]	8.86
	Lead	10.7	400[e]	7.48
	Antimony	0.118	30[a]	4.8[h]
	Selenium	0.374	400[a]	-[i]
	Thallium	ND	6[f]	-[i]
	Vanadium	17	600[b,d]	24
	Zinc	413	20,000[b,d]	28.59
BH-4	Mercury	0.675	20[a]	-[i]
	Silver	ND	400[b]	-[i]
	Aluminum	8250	-[d]	7286.95
	Arsenic	4.01	20[b]	4.45
	Barium	204	6,000[b]	235.51
	Beryllium	0.486	0.2[a]	0.82
	Calcium	66500	-[c]	75830.5
	Cadmium	1.62	80[b]	0.87[h]
	Cobalt	5.08	-[d]	4.98
	Chromium	13.4	40[a]0	8.7
	Copper	21.5	-[d]	8.61
	Iron	11100	-[c]	11812
	Potassium	1220	-[c]	1473
	Magnesium	4820	-[c]	4687
	Manganese	207	10,000[b,d]	259
	Sodium	437	-[c]	489[h]
	Nickel	9.18	2,000[a]	8.86
	Lead	10.9	400[e]	7.48
	Antimony	0.119	30[a]	4.8[h]
	Selenium	ND	400[b]	-[i]
	Thallium	ND	6[f]	-[i]
	Vanadium	21.4	600[b,d]	24
	Zinc	29.1	20,000[b,d]	28.59

Table 4.6-5 TAL Metals Detected in Borehole Soil Samples, (Continued)

Borehole	Metal	Highest Measured Concentration (mg/kg)	Action Level (mg/kg)	Statistically Determined UTL[g]
BH-5	Mercury	0.035	20[a]	-[i]
	Silver	ND	400[b]	-[i]
	Aluminum	8500	-[d]	7286.95
	Arsenic	4.17	20[b]	4.45
	Barium	808	6,000[b]	235.51
	Beryllium	0.46	0.2[a]	0.82
	Calcium	49200	-[c]	75830.5
	Cadmium	1.6	80[b]	0.87[h]
	Cobalt	4.55	-[d]	4.98
	Chromium	11.2	400[a]	8.7
	Copper	8.69	-[d]	8.61
	Iron	10600	-[c]	11812
	Potassium	1270	-[c]	1473
	Magnesium	4770	-[c]	4687
	Manganese	189	10,000[b,d]	259
	Sodium	618	-[c]	489[h]
	Nickel	8.67	2,000[a]	8.86
	Lead	7.14	400[e]	7.48
	Antimony	0.213	30[a]	4.8[h]
	Selenium	ND	400[a]	-[i]
	Thallium	ND	6[f]	-[i]
	Vanadium	22.5	600[b,d]	24
	Zinc	28.2	20,000[b,d]	28.59
BH-6	Mercury	0.0307	20[a]	-[i]
	Silver	ND	400[b]	-[i]
	Aluminum	10700	-[d]	7286.95
	Arsenic	3.72	20[b]	4.45
	Barium	185	6,000[b]	235.51
	Beryllium	0.605	0.2[a]	0.82
	Calcium	47800	-[c]	75830.5
	Cadmium	1.19	80[b]	0.87[h]
	Cobalt	4.54	-[d]	4.98
	Chromium	27.5	40[a]0	8.7
	Copper	9.56	-[d]	8.61
	Iron	11300	-[c]	11812
	Potassium	1680	-[c]	1473
	Magnesium	4410	-[c]	4687
	Manganese	194	10,000[b,d]	259
	Sodium	327	-[c]	489[h]
	Nickel	11.6	2,000[a]	8.86
	Lead	13.9	400[e]	7.48
	Antimony	0.237	30[a]	4.8[h]
	Selenium	ND	400[b]	-[i]
	Thallium	ND	6[f]	-[i]
	Vanadium	23.2	600[b,d]	24
	Zinc	31.6	20,000[b,d]	28.59

Table 4.6-5 TAL Metals Detected in Borehole Soil Samples, (Continued)

Borehole	Metal	Highest Measured Concentration (mg/kg)	Action Level (mg/kg)	Statistically Determined UTL[g]
BH-7	Mercury	0.0327	20[a]	-[i]
	Silver	ND	400[b]	-[i]
	Aluminum	8060	-[d]	7286.95
	Arsenic	2.98	20[b]	4.45
	Barium	336	6,000[b]	235.51
	Beryllium	0.419	0.2[a]	0.82
	Calcium	49600	-[c]	75830.5
	Cadmium	0.594	80[b]	0.87[h]
	Cobalt	3.73	-[d]	4.98
	Chromium	19.3	400[a]	8.7
	Copper	9.18	-[d]	8.61
	Iron	11200	-[c]	11812
	Potassium	1340	-[c]	1473
	Magnesium	4360	-[c]	4687
	Manganese	189	10,000[b,d]	259
	Sodium	563	-[c]	489[h]
	Nickel	8.98	2,000[a]	8.86
	Lead	6.33	400[e]	7.48
	Antimony	0.201	30[a]	4.8[h]
	Selenium	ND	400[a]	-[i]
	Thallium	ND	6[f]	-[i]
	Vanadium	18.9	600[b,d]	24
	Zinc	34.8	20,000[b,d]	28.59
BH-8	Mercury	0.0359	20[a]	-[i]
	Silver	ND	400[b]	-[i]
	Aluminum	10300	-[d]	7286.95
	Arsenic	5.12	20[b]	4.45
	Barium	187	6,000[b]	235.51
	Beryllium	0.569	0.2[a]	0.82
	Calcium	64100	-[c]	75830.5
	Cadmium	0.0405	80[b]	0.87[h]
	Cobalt	5.56	-[d]	4.98
	Chromium	33.1	40[a]0	8.7
	Copper	10.7	-[d]	8.61
	Iron	13800	-[c]	11812
	Potassium	1290	-[c]	1473
	Magnesium	6270	-[c]	4687
	Manganese	231	10,000[b,d]	259
	Sodium	523	-[c]	489[h]
	Nickel	11.3	2,000[a]	8.86
	Lead	7.71	400[e]	7.48
	Antimony	0.403	30[a]	4.8[h]
	Selenium	0.152	400[b]	-[i]
	Thallium	1.38	6[f]	-[i]
	Vanadium	27	600[b,d]	24
	Zinc	31.8	20,000[b,d]	28.59

Table 4.6-5 TAL Metals Detected in Borehole Soil Samples, (Continued)

Borehole	Metal	Highest Measured Concentration (mg/kg)	Action Level (mg/kg)	Statistically Determined UTL[g]
BH-9	Mercury	0.0399	20[a]	-[i]
	Silver	0.371	400[b]	-[i]
	Aluminum	6910	-[d]	7286.95
	Arsenic	4.85	20[b]	4.45
	Barium	158	6,000[b]	235.51
	Beryllium	0.418	0.2[a]	0.82
	Calcium	84700	-[c]	75830.5
	Cadmium	0.191	80[b]	0.87[h]
	Cobalt	5.15	-[d]	4.98
	Chromium	16.1	400[a]	8.7
	Copper	12.7	-[d]	8.61
	Iron	10600	-[c]	11812
	Potassium	894	-[c]	1473
	Magnesium	4050	-[c]	4687
	Manganese	282	10,000[b,d]	259
	Sodium	353	-[c]	489[h]
	Nickel	9.19	2,000[a]	8.86
	Lead	5.52	400[e]	7.48
	Antimony	0.475	30[a]	4.8[h]
	Selenium	0.07	400[a]	-[i]
	Thallium	1.14	6[f]	-[i]
	Vanadium	22.2	600[b,d]	24
	Zinc	24.9	20,000[b,d]	28.59
BH-10	Mercury	2.11	20[a]	-[i]
	Silver	ND	400[b]	-[i]
	Aluminum	10500	-[d]	7286.95
	Arsenic	5.63	20[b]	4.45
	Barium	254	6,000[b]	235.51
	Beryllium	0.603	0.2[a]	0.82
	Calcium	82900	-[c]	75830.5
	Cadmium	0.66	80[b]	0.87[h]
	Cobalt	6.23	-[d]	4.98
	Chromium	24.4	40[a]0	8.7
	Copper	10.9	-[d]	8.61
	Iron	14200	-[c]	11812
	Potassium	1310	-[c]	1473
	Magnesium	5920	-[c]	4687
	Manganese	262	10,000[b,d]	259
	Sodium	490	-[c]	489[h]
	Nickel	12.1	2,000[a]	8.86
	Lead	8.46	400[e]	7.48
	Antimony	0.375	30[a]	4.8[h]
	Selenium	ND	400[b]	-[i]
	Thallium	1.27	6[f]	-[i]
	Vanadium	30.3	600[b,d]	24
	Zinc	34.4	20,000[b,d]	28.59

Table 4.6-5 TAL Metals Detected in Borehole Soil Samples, (Continued)

Borehole	Metal	Highest Measured Concentration (mg/kg)	Action Level (mg/kg)	Statistically Determined UTL[g]
BH-11	Mercury	0.0302	20[a]	-[i]
	Silver	ND	400[b]	-[i]
	Aluminum	10800	-[d]	7286.95
	Arsenic	4.03	20[b]	4.45
	Barium	281	6,000[b]	235.51
	Beryllium	0.588	0.2[a]	0.82
	Calcium	56100	-[c]	75830.5
	Cadmium	0.587	80[b]	0.87[h]
	Cobalt	5.01	-[d]	4.98
	Chromium	12.5	400[a]	8.7
	Copper	9.46	-[d]	8.61
	Iron	13100	-[c]	11812
	Potassium	1310	-[c]	1473
	Magnesium	4640	-[c]	4687
	Manganese	227	10,000[b,d]	259
	Sodium	441	-[c]	489[h]
	Nickel	10.7	2,000[a]	8.86
	Lead	7.51	400[e]	7.48
	Antimony	0.336	30[a]	4.8[h]
	Selenium	0.34	400[a]	-[i]
	Thallium	1.08	6[f]	-[i]
	Vanadium	24.4	600[b,d]	24
	Zinc	30.8	20,000[b,d]	28.59
BH-12	Mercury	0.0986	20[a]	-[i]
	Silver	ND	400[b]	-[i]
	Aluminum	7390	-[d]	7286.95
	Arsenic	4.65	20[b]	4.45
	Barium	162	6,000[b]	235.51
	Beryllium	0.466	0.2[a]	0.82
	Calcium	53000	-[c]	75830.5
	Cadmium	ND	80[b]	0.87[h]
	Cobalt	4.25	-[d]	4.98
	Chromium	12.3	40[a]0	8.7
	Copper	8.03	-[d]	8.61
	Iron	10200	-[c]	11812
	Potassium	1040	-[c]	1473
	Magnesium	3830	-[c]	4687
	Manganese	201	10,000[b,d]	259
	Sodium	377	-[c]	489[h]
	Nickel	8.83	2,000[a]	8.86
	Lead	6.08	400[e]	7.48
	Antimony	0.389	30[a]	4.8[h]
	Selenium	0.188	400[b]	-[i]
	Thallium	0.966	6[f]	-[i]
	Vanadium	21.5	600[b,d]	24
	Zinc	24.8	20,000[b,d]	28.59

Table 4.6-5 TAL Metals Detected in Borehole Soil Samples, (Continued)

Borehole	Metal	Highest Measured Concentration (mg/kg)	Action Level (mg/kg)	Statistically Determined UTL[g]
BH-13	Mercury	0.00963	20[a]	-[i]
	Silver	ND	400[b]	-[i]
	Aluminum	8290	-[d]	7286.95
	Arsenic	3.26	20[b]	4.45
	Barium	557	6,000[b]	235.51
	Beryllium	0.451	0.2[a]	0.82
	Calcium	67900	-[c]	75830.5
	Cadmium	ND	80[b]	0.87[h]
	Cobalt	4.26	-[d]	4.98
	Chromium	15.6	400[a]	8.7
	Copper	9.62	-[d]	8.61
	Iron	11400	-[c]	11812
	Potassium	1230	-[c]	1473
	Magnesium	3480	-[c]	4687
	Manganese	203	10,000[b,d]	259
	Sodium	296	-[c]	489[h]
	Nickel	8.46	2,000[a]	8.86
	Lead	5.8	400[e]	7.48
	Antimony	0.326	30[a]	4.8[h]
	Selenium	ND	400[a]	-[i]
	Thallium	1.14	6[f]	-[i]
	Vanadium	21.0	600[b,d]	24
	Zinc	75.0	20,000[b,d]	28.59
BH-14	Mercury	0.0249	20[a]	-[i]
	Silver	ND	400[b]	-[i]
	Aluminum	8410	-[d]	7286.95
	Arsenic	4.76	20[b]	4.45
	Barium	266	6,000[b]	235.51
	Beryllium	0.455	0.2[a]	0.82
	Calcium	41400	-[c]	75830.5
	Cadmium	ND	80[b]	0.87[h]
	Cobalt	4.78	-[d]	4.98
	Chromium	14.4	40[a]0	8.7
	Copper	9.07	-[d]	8.61
	Iron	12100	-[c]	11812
	Potassium	1240	-[c]	1473
	Magnesium	4780	-[c]	4687
	Manganese	217	10,000[b,d]	259
	Sodium	430	-[c]	489[h]
	Nickel	9.1	2,000[a]	8.86
	Lead	6.45	400[e]	7.48
	Antimony	0.374	30[a]	4.8[h]
	Selenium	0.583	400[b]	-[i]
	Thallium	1.56	6[f]	-[i]
	Vanadium	24.7	600[b,d]	24
	Zinc	28.7	20,000[b,d]	28.59

Table 4.6-5 TAL Metals Detected in Borehole Soil Samples (Concluded)

Borehole	Metal	Highest Measured Concentration (mg/kg)	Action Level (mg/kg)	Statistically Determined UTL[g]
BH-15	Mercury	0.112	20[a]	-[i]
	Silver	ND	400[b]	-[i]
	Aluminum	8930	-[d]	7286.95
	Arsenic	3.63	20[b]	4.45
	Barium	207	6,000[b]	235.51
	Beryllium	0.411	0.2[a]	0.82
	Calcium	155000	-[c]	75830.5
	Cadmium	ND	80[b]	0.87[h]
	Cobalt	3.97	-[d]	4.98
	Chromium	22.4	400[a]	8.7
	Copper	14.6	-[d]	8.61
	Iron	13000	-[c]	11812
	Potassium	1380	-[c]	1473
	Magnesium	3540	-[c]	4687
	Manganese	183	10,000[b,d]	259
	Sodium	341	-[c]	489[h]
	Nickel	9.99	2,000[a]	8.86
	Lead	5.36	400[e]	7.48
	Antimony	0.316	30[a]	4.8[h]
	Selenium	ND	400[a]	-[i]
	Thallium	1.19	6[f]	-[i]
	Vanadium	20.1	600[b,d]	24
	Zinc	45.4	20,000[b,d]	28.59

(a) Proposed RCRA Subpart S action level for soils (55 FR 30865)

(b) Action level based on toxicity information contained in the IRIS database (EPA, 1995a) or the HEAST (EPA, 1995b) and a HI of 1. Soil ingestion equations provided in Subpart S (55 FR 30870) were used to calculate the action levels.

(c) Metal is considered an essential nutrient as described in RAGS (EPA, 1989).

(d) Metal is not listed as a RCRA constituent (40 CFR 261 Appendix VIII) and therefore does not have to be considered as a contaminant of concern.

(e) Action level provided in "Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Action Facilities," (EPA, 1994).

(f) Particular thallium compound was not identified during analysis. The IRIS database, for all thallium compounds listed, gives RFD's in the narrow range of 8×10^{-5} to 9×10^{-5} (EPA, 1995a). Based on the conservative value of 8×10^{-5}, an action level of 6 mg/kg was calculated.

(g) The UTL is used to define background if the data set is normal or lognormal. The UTL establishes a concentration range that is constructed to contain a specified proportion of the population with a specified confidence. The EPA-recommended coverage of 95% and tolerance coefficient value of 95% was used to calculate the UTL (EPA, 1992).

(h) 95th percentile value is used to define background if the data set is nonparametric. The calculated background value is insensitive to the magnitude of the largest 5% of the data points (EPA, 1992).

(i) No UTL or 95 percentile value was calculated because all background concentrations were non-detect.

ND Not detected. Concentration reported below instrument detection limit.

The highest measured concentrations of silver, arsenic, barium, cadmium, and selenium were detected at levels ranging from 0.371 mg/kg in BH-9 to 1.46 mg/kg in BH-3, 2.98 mg/kg in BH-7 to 5.63 mg/kg in BH-10, 158 mg/kg in BH-9 to 808 mg/kg in BH-5, 0.0405 mg/kg in BH-8 to 1.97 mg/kg in BH-2, and 0.07 mg/kg in BH-9 to 0.583 mg/kg in BH-14, respectively. The action levels for silver, arsenic, barium, cadmium, and selenium are 400 mg/kg, 20 mg/kg, 6,000 mg/kg, 80 mg/kg, and 400 mg/kg. These action levels are based on toxicity information contained in IRIS (EPA, 1995a). The soil ingestion equations provided in proposed Subpart S (55 FR 30870) were used to calculate the action levels.

The highest concentrations of thallium were detected at levels ranging from 0.385 mg/kg in BH-2 to 1.56 mg/kg in BH-14. The specific thallium compound detected in borehole soil samples was not identified in the analytical results. The IRIS database, for all thallium compounds listed, gives reference dose factors in the narrow range of 8×10^{-5} to 9×10^{-5} (EPA, 1995a). Based on the conservative value of 8×10^{-5}, an action level of 6 mg/kg was calculated for thallium.

The highest measured concentrations of aluminum, cobalt, copper, manganese, vanadium, and zinc were detected at levels ranging from 6,910 mg/kg in BH-9 to 10,800 mg/kg in BH-11, 3.73 mg/kg in BH-7 to 105 mg/kg in BH-3, 8.03 mg/kg in BH-12 to 645 mg/kg in BH-3, 183 mg/kg in BH-15 to 282 mg/kg in BH-9, 17.0 mg/kg in BH-3 to 30.3 mg/kg in BH-10, and 24.8 mg/kg in BH-12 to 413 mg/kg in BH-3, respectively. Aluminum, cobalt, copper, manganese, vanadium, and zinc are not listed as RCRA metals in 40 CFR 261 Appendix VIII; therefore, they were not considered as contaminants of concern.

Only beryllium was measured in borehole soil samples in concentrations exceeding action levels. Table 4.6-6 shows the range of beryllium concentrations in borehole soil samples. Of the 103 soil samples analyzed for beryllium, only four had concentrations below the proposed Subpart S action level of 0.2 mg/kg. Using data generated from background soil sampling conducted west of the MWL in June 1994 (Section 3.4), a UTL was statistically calculated to compare background beryllium concentrations to beryllium concentrations in borehole soil samples.

The UTL calculated for beryllium is 0.82 mg/kg. All 103 borehole soil samples have beryllium concentrations below the UTL. Because the UTL is greater than beryllium concentrations in borehole soil samples, background beryllium concentrations in soil at the MWL are probably greater than the proposed Subpart S action level. Although no other metal exceeded action levels, the UTLs calculated for those metals are shown in Table 4.6-5.

Table 4.6-1 Analytical Methods for Borehole Soil Samples

Analytical Group	Analytical Method
VOCs	SW-846 (8260)
SVOCs	SW-846 (8270)
TAL Metals	SW-846 (6010 for ICP metals and 7471 for mercury)
Isotopic Uranium, Thorium, Plutonium	LAL-91-SOP-0108[a]
Total-Radio Strontium	LAL-91-SOP-0065[a] and LAL-93-SOP-0196[a]
Gross Alpha/Beta	LAL-91-SOP-0061[a]
Tritium	LAL-91-SOP-0066[a]

(a) Lockheed Analytical Laboratory standard operating procedures for radiochemical analyses.
TAL Target Analyte List
SW846 Analytical laboratory methods presented in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," (EPA, 1986).

Table 4.6-2 Borehole Soil Sample Collection Summary

Borehole	VOCs	SVOCs	TAL Metals	Isotopic U, Th, Pu, Sr-90, Gross alpha/beta	Tritium	Total
BH-1	7	7	7	7	8	36
BH-2	7	7	7	7	8	36
BH-3	7	7	7	7	8	36
BH-4	7	7	7	7	8	36
BH-5	7	7	7	7	8	36
BH-6	7	7	7	7	8	36
BH-7	7	7	7	7	8	36
BH-8	7	7	7	7	8	36
BH-9	6	6	6	6	7	31
BH-10	7	7	7	7	10	38
BH-11	7	7	7	7	8	36
BH-12	7	7	7	7	8	36
BH-13	7	7	7	7	8	36
BH-14	6	6	6	6	7	31
BH-15	7	7	7	7	8	36
Total	103	103	103	103	120	532

VOCs Volatile organic compounds
SVOCs Semivolatile organic compounds
TAL Target Analyte List

Table 4.6-6 Range of Beryllium in Borehole Soil Samples

Borehole	Range of Beryllium Concentrations (mg/kg)
BH-1	0.225 - 0.486
BH-2	0.136 - 0.451
BH-3	0.258 - 0.531
BH-4	0.193 - 0.486
BH-5	0.293 - 0.46
BH-6	0.29 - 0.605
BH-7	0.182 - 0.419
BH-8	0.258 - 0.569
BH-9	0.244 - 0.418
BH-10	0.225 - 0.603
BH-11	0.311 - 0.588
BH-12	0.213 - 0.466
BH-13	0.265 - 0.451
BH-14	0.279 - 0.455
BH-15	0.127 - 0.411

4.6.4.5 Radiochemistry

Radiochemical results for borehole soil samples are presented in Appendix E. The borehole number, sample number, sample depth (linear borehole depth and true depth), radionuclide, and activity are given. Two anomalous values were identified during initial review of the radiochemical analytical data. Plutonium-238 and Plutonium-239/240 were detected at 50 ft in BH-8 at levels exceeding the MDA, and Strontium-90 was detected at 130 ft in BH-10 at a level exceeding the MDA. SNL,NM reanalyzed the two soil samples. Results of the reanalysis showed levels of both radionuclides to be below the MDAs. All other analyses performed on borehole soil samples for isotopic uranium, thorium, and plutonium, total-radio strontium, and gross alpha/beta were below MDAs. The only other radionuclide detected in borehole soil samples was tritium.

4.6.4.6 Tritium

The range of tritium activities in borehole soil samples are presented in Table 4.6-7. Tritium was detected in all 15 boreholes. Tritium activities ranged from 0.1 pCi/g in BH-15 to 20,670 pCi/g in BH-12. The highest tritium activities were encountered around the classified area in BH-8 through BH-12 and in BH-14 and BH-15.

Tritium activities with depth are presented in Table 4.6-8. Table 4.6-8 provides the borehole number, the borehole depth (linear ft), true depth (ft bgs), and tritium activity with depth. Of the 120 soil samples collected and analyzed for tritium, 28 were non-detects. Tritium activities from Table 4.6-8 are projected into two longitudinal cross-sections, A-A' and B-B', in Figures 4.6-2 and 4.6-3, respectively. Figure 4.6-4 shows the bearing of cross-sections A-A' and B-B'. Four of the five highest overall tritium activities (507.3 pCi/g at 43 ft bgs, 472.3 pCi/g in the 43 ft duplicate sample, 20,670 pCi/g at 26 ft bgs, and 2,948 pCi/g at 9 ft bgs) were detected in the upper 43 ft of BH-12. The fifth highest overall tritium activity, 1,354 pCi/g, was detected in BH-10 at 26 ft bgs. All other tritium activities in the remaining borehole soil samples were below 209 pCi/g. In all but one case, BH-1 at 61 ft bgs, the highest tritium activities were encountered within the upper 26 ft of soil. Ten of the 15 boreholes showed the highest tritium activities within the upper 9 ft of soil (Table 4.6-8).

There are no RCRA proposed Subpart S action levels for radionuclides in soil. As a result, tritium activities from borehole drilling were compared to local background tritium levels. To determine local background levels for tritium, soil sampling was conducted 600 ft west of the MWL in June 1994 (Section 3.4). Samples were collected at depths of 6 ft bgs and 12 ft bgs in ten soil borings. A total of 20 samples and two duplicates were collected. Local background tritium results are presented in Table 4.6-9. Tritium activities ranged from 0.004 pCi/g to 0.042 pCi/g. All of the borehole soil sample tritium activities exceed background tritium activities.

Table 4.6-7 Range of Tritium Activity in Borehole Soil Samples

Borehole	Range of Tritium Activities (pCi/g)
BH-1	0.2 - 4.0
BH-2	6.4[(a)]
BH-3	0.8 - 0.9
BH-4	0.3 - 7.5
BH-5	0.2 - 39.5
BH-6	0.3 - 74.4
BH-7	0.4 - 10.6
BH-8	0.4 - 104.3
BH-9	11.2 - 140.3
BH-10	1.0 - 1354
BH-11	0.7 - 29.5
BH-12	1.7 - 20,670
BH-13	0.5 - 10.0
BH-14	0.8 - 7.0
BH-15	0.1 - 177.3

(a) Only soil sample in which tritium was detected. All other soil samples from this borehole were non-detect.

Table 4.6-8 Tritium Activity with Depth in Borehole Soil Samples

Borehole Depth[(a)] (linear ft)	True Depth[(b)] (ft bgs)	Borehole				
		BH-1	BH-2	BH-3	BH-4	BH-5
10	9	3.7	6.4	0.9	7.5	39.5
30	26	1.0 (1.1)	ND	ND	0.6 (1.2)	0.3
50	43	ND	ND	ND	0.3	ND (1.4)
70	61	4.0	ND	ND (ND)	ND	0.2
90	78	0.8	ND (ND)	ND	ND	ND
110	95	0.4	ND	ND	0.3	ND
120	104	0.2	ND	0.8	ND	0.9
		BH-6	BH-7	BH-8	BH-9	BH-10
10	9	18.7	10.6	58.3	140.3	209
30	26	74.2 (74.4)	ND (ND)	15.5 (104.3)	55.7 (45.6)	1354
50	43	ND	ND	0.5	39.1	55.7 (140.6)
70	61	ND	5.0	0.9	11.2	8.0
90	78	0.3	0.7	0.9	13.5	16.1
110	95	ND	0.4	0.4	ND	7.4
120	104	0.9	6.4	NS	NS	NS
130	113	NS	NS	1.0	NS	1.7
135	117	NS	NS	NS	NS	1.0
139	120	NS	NS	NS	NS	2.9
		BH-11	BH-12	BH-13	BH-14[(c)]	BH-15[(c)]
10	9	29.5	2948	10.0	7.0	177.3
30	26	1.3 (1.0)	20670	ND (4.5)	2.7 (1.7)	5.9 (4.1)
50	43	3.0	507.3 (472.3)	0.7	3.0	1.1
70	61	1.6	11.6	1.0	2.0	3.6
90	78	2.2	4.6	0.8	2.3	1.1
110	95	0.7	1.7	0.5	0.8	1.9
119	103	NS	NS	1.0	NS	NS
122	106	NS	1.7	NS	NS	0.1
126	109	1.2	NS	NS	NS	NS

(a) Depth reported is linear feet for boreholes 11 through 13. These boreholes were drilled at an angle of 30 degrees from vertical.
(b) Depth reported is actual feet bgs.
(c) Boreholes 14 and 15 were drilled vertically, therefore, the depths reported are actual feet bgs.
* All concentrations reported in picocuries per gram (pCi/g).
ND Tritium was not detected above minimum detectable activity.
NS No sample was collected.
( ) Duplicate sample

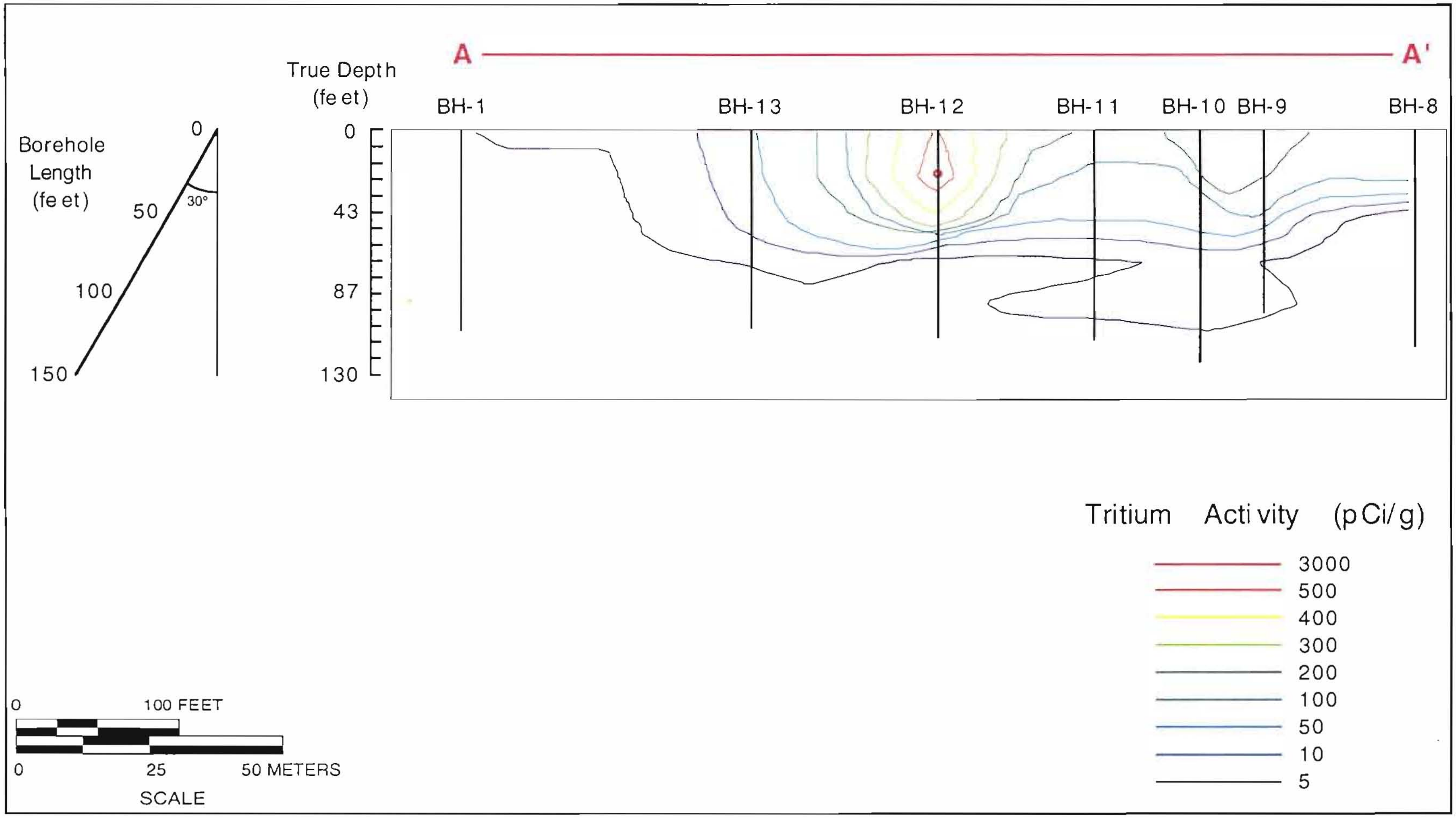


Figure 4.6-2 Tritium Activity in Soil Beneath the MWL, Cross-Section A-A'

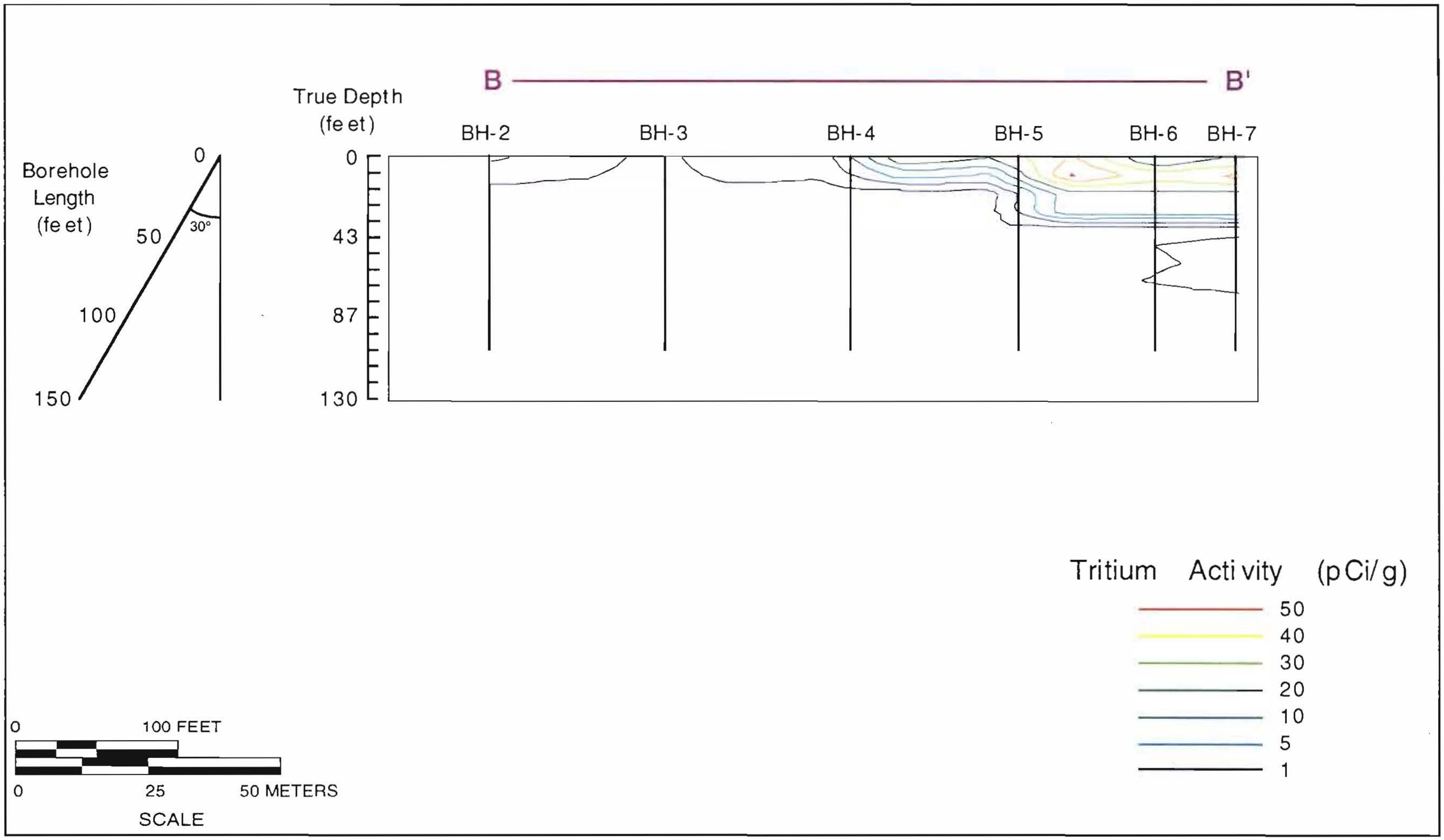


Figure 4.6-3 Tritium Activity in Soil Beneath the MWL, Cross-Section B-B'

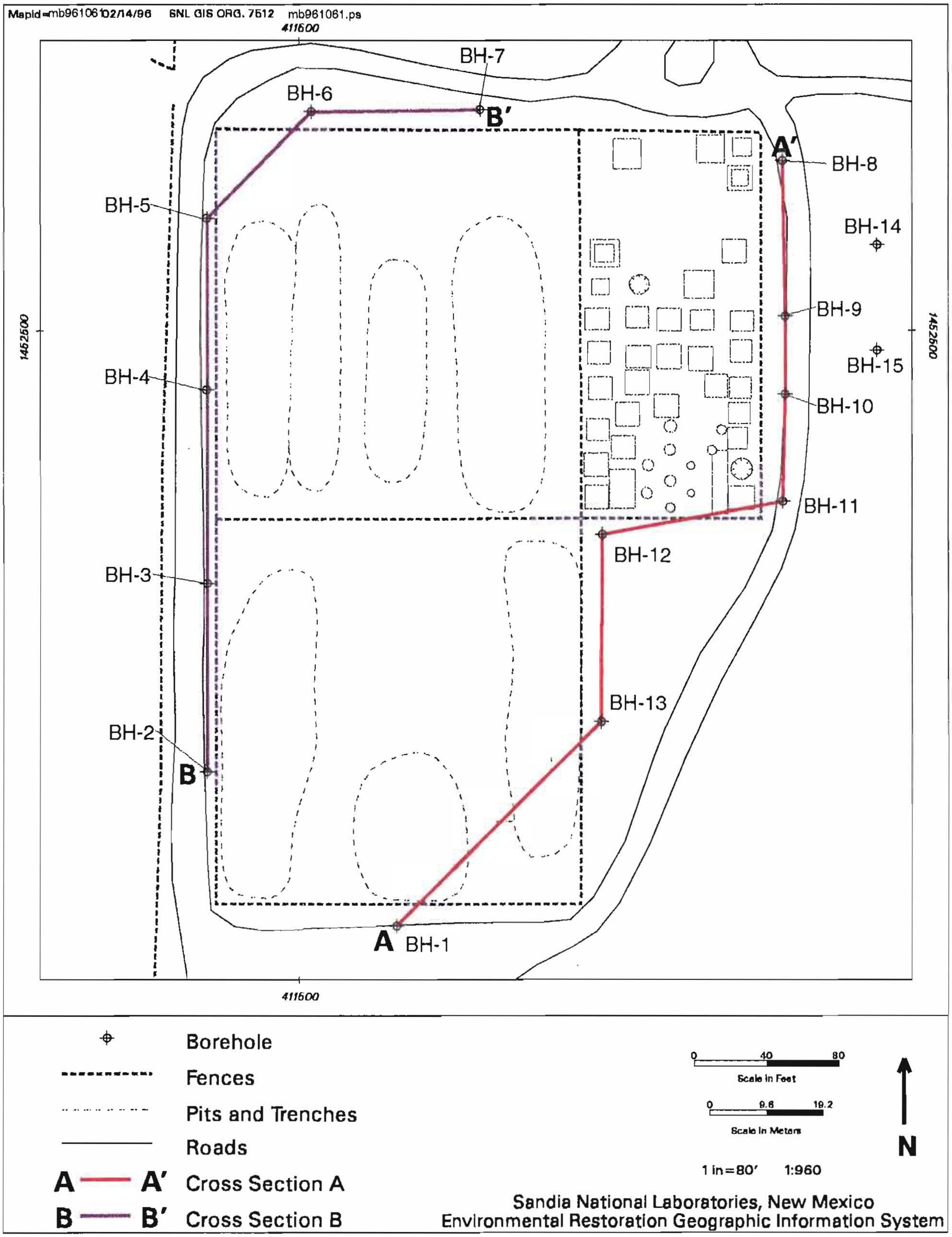


Figure 4.6-4 Bearing of Tritium Activity Cross-Sections A-A' and B-B'

Table 4.6-9 Local Background Tritium Activities

Sample Location	Sample Number	Depth (ft)	Tritium (pCi/L)	MDA	% Moisture	Tritium (pCi/g)
BKG BH-1	SNL016570-3	6	490	240	8.5	0.042
	SNL016571-3	12	370	240	5.5	0.02
BKG BH-2	SNL016572-3	6	500	240	5.6	0.028
	SNL016573-3	12	600	240	5.7	0.034
BKG BH-3	SNL016574-3	6	490	240	4.7	0.023
	SNL016575-3	12	310	240	4.7	0.015
BKG BH-4	SNL016576-3	6	410	240	5.1	0.021
	SNL016577-3	12	370	240	4.9	0.018
BKG BH-5	SNL016578-3	6	380	230	5.3	0.02
	SNL016579-3	12	540	230	3.7	0.02
BKG BH-6	SNL016580-3	6	400	240	4.4	0.018
	SNL016581-3	6 dup	220	230	4.3	0.009
	SNL016582-3	12	290	230	4.4	0.013
BKG BH-7	SNL016583-3	6	430	230	4.9	0.021
	SNL016584-3	12	160	230	3.5	0.006
BKG BH-8	SNL016585-3	6	280	240	4.8	0.013
	SNL016586-3	12	110	230	3.4	0.004
	SNL016587-3	6 dup	290	230	4.1	0.012
BKG BH-9	SNL016588-3	6	140	230	5.2	0.007
	SNL016589-3	12	280	230	3.1	0.009
BKG BH-10	SNL016590-3	6	290	230	3.0	0.009
	SNL016591-3	12	430	520	2.7	0.012

BKG Background
MDA Minimum detectable activity
dup Duplicate sample

EPA has measured average background levels for tritium in precipitation at 43 sample locations throughout the United States to be between 100 pCi/L and 200 pCi/L (EPA, 1993b and EPA, 1993c). The nearest sampled location to Albuquerque is Santa Fe, NM where, for November and December, 1992, and January and February, 1993, the average background tritium activity in precipitation was 200 pCi/L. Assuming an average moisture content of 3.5 percent (the average soil moisture content of all samples collected during borehole drilling and all samples collected during local background sampling) and 200 pCi/L as the average background activity of tritium in precipitation, a background tritium activity of 0.007 pCi/g was calculated for SNL,NM. In reaching this background activity, it is assumed that tritium in precipitation is in equilibrium with tritium in soil moisture.

4.6.5 Borehole Drilling Summary

VOCs and SVOCs detected in borehole soil samples during borehole drilling were all below RCRA proposed Subpart S action levels or action levels generated from toxicity information contained in EPA's IRIS database or the HEAST.

TAL metals were below RCRA proposed Subpart S action levels, with the exception of beryllium. Beryllium was measured in concentrations exceeding the proposed Subpart S action level in all but four soil samples; however, the concentrations that exceeded the proposed Subpart S action level were all below the statistically-determined UTL. The results of the statistical tests performed on MWL borehole data are presented in Table 4.6-10.

All borehole soil samples analyzed for isotopic uranium, thorium, plutonium, strontium, and gross alpha/beta were below their respective MDAs. The only radionuclide detected in soil samples from the 15 boreholes was tritium. Tritium was present in levels exceeding local background. Tritium was detected to a total depth of 120 ft bgs. In all boreholes, the highest tritium activities occur in the upper 26 ft, with maximum tritium activities in the upper 9 ft in 10 of the 15 boreholes.

Table 4.6-10 Summary of Statistical Tests Performed on Borehole Soil Sample Data

Analyte	Comparison	Statistical Tests				Exceeds UTL or 95th %	Exceeds Action Level
				T-Test			
		Quantile	Wilcoxon Rank Sum	Equal Variance	Nonequal Variance		
Aluminum	BKG vs BH-1	P	P	P	P	N	-(b)
	BKG vs BH-2	P	P	P	P	Y	-(b)
	BKG vs BH-3	P	P	P	P	Y	-(b)
	BKG vs BH-4	P	P	P	P	Y	-(b)
	BKG vs BH-5	P	P	P	P	Y	-(b)
	BKG vs BH-6	P	P	F	P	Y	-(b)
	BKG vs BH-7	P	P	P	P	Y	-(b)
	BKG vs BH-8	P	P	P	P	Y	-(b)
	BKG vs BH-9	P	P	P	P	N	-(b)
	BKG vs BH-10	P	P	P	P	Y	-(b)
	BKG vs BH-11	P	P	F	P	Y	-(b)
	BKG vs BH-12	P	P	P	P	Y	-(b)
	BKG vs BH-13	F	F	F	F	Y	-(b)
	BKG vs BH-14	F	F	F	F	Y	-(b)
	BKG vs BH-15	P	P	P	P	Y	-(b)
Antimony	BKG vs BH-1	P	P	NA	NA	N(a)	N
	BKG vs BH-2	P	P	NA	NA	N(a)	N
	BKG vs BH-3	P	P	NA	NA	N(a)	N
	BKG vs BH-4	P	P	NA	NA	N(a)	N
	BKG vs BH-5	P	P	NA	NA	N(a)	N
	BKG vs BH-6	P	P	NA	NA	N(a)	N
	BKG vs BH-7	P	P	NA	NA	N(a)	N
	BKG vs BH-8	P	P	NA	NA	N(a)	N
	BKG vs BH-9	P	P	NA	NA	N(a)	N
	BKG vs BH-10	P	P	NA	NA	N(a)	N
	BKG vs BH-11	P	P	NA	NA	N(a)	N
	BKG vs BH-12	P	P	NA	NA	N(a)	N
	BKG vs BH-13	P	P	NA	NA	N(a)	N
	BKG vs BH-14	P	P	NA	NA	N(a)	N
	BKG vs BH-15	P	P	NA	NA	N(a)	N

Table 4.6-10 Summary of Statistical Tests Performed on Borehole Soil Sample Data (Continued)

Analyte	Comparison	Statistical Tests				Exceeds UTL or 95th %	Exceeds Action Level
				T-Test			
		Quantile	Wilcoxon Rank Sum	Equal Variance	Nonequal Variance		
Arsenic	BKG vs BH-1	P	P	P	P	N	N
	BKG vs BH-2	P	P	P	P	N	N
	BKG vs BH-3	P	P	P	P	N	N
	BKG vs BH-4	P	P	P	P	N	N
	BKG vs BH-5	P	P	P	P	N	N
	BKG vs BH-6	P	P	P	P	N	N
	BKG vs BH-7	P	P	P	P	N	N
	BKG vs BH-8	P	P	P	P	Y	N
	BKG vs BH-9	P	P	P	P	Y	N
	BKG vs BH-10	P	P	P	P	Y	N
	BKG vs BH-11	P	P	P	P	N	N
	BKG vs BH-12	P	P	P	P	Y	N
	BKG vs BH-13	P	P	P	P	N	N
	BKG vs BH-14	P	P	P	P	Y	N
	BKG vs BH-15	P	P	P	P	N	N
Barium	BKG vs BH-1	P	P	P	P	N	N
	BKG vs BH-2	P	P	P	P	N	N
	BKG vs BH-3	P	P	P	P	N	N
	BKG vs BH-4	P	P	P	P	N	N
	BKG vs BH-5	P	P	P	P	Y	N
	BKG vs BH-6	P	P	P	P	N	N
	BKG vs BH-7	P	P	P	P	Y	N
	BKG vs BH-8	P	P	P	P	N	N
	BKG vs BH-9	P	P	P	P	N	N
	BKG vs BH-10	P	P	P	P	Y	N
	BKG vs BH-11	P	P	P	P	Y	N
	BKG vs BH-12	P	P	P	P	N	N
	BKG vs BH-13	P	P	P	P	Y	N
	BKG vs BH-14	P	P	P	P	Y	N
	BKG vs BH-15	P	P	P	P	N	N
Beryllium	BKG vs BH-1	P	P	P	P	N	Y
	BKG vs BH-2	P	P	P	P	N	Y
	BKG vs BH-3	P	P	P	P	N	Y
	BKG vs BH-4	P	P	P	P	N	Y
	BKG vs BH-5	P	P	P	P	N	Y
	BKG vs BH-6	P	P	P	P	N	Y
	BKG vs BH-7	P	P	P	P	N	Y
	BKG vs BH-8	P	P	P	P	N	Y
	BKG vs BH-9	P	P	P	P	N	Y

Table 4.6-10 Summary of Statistical Tests Performed on Borehole Soil Sample Data (Continued)

Analyte	Comparison	Statistical Tests				Exceeds UTL or 95th %	Exceeds Action Level
		Quantile	Wilcoxon Rank Sum	T-Test: Equal Variance	T-Test: Nonequal Variance		
	BKG vs BH-10	P	P	P	P	N	Y
	BKG vs BH-11	P	P	P	P	N	Y
	BKG vs BH-12	P	P	P	P	N	Y
	BKG vs BH-13	P	P	P	P	N	Y
	BKG vs BH-14	P	P	P	P	N	Y
	BKG vs BH-15	P	P	P	P	N	Y
Cadmium	BKG vs BH-1	P	F	NA	NA	N[a]	N
	BKG vs BH-2	F	F	NA	NA	Y[a]	N
	BKG vs BH-3	F	F	NA	NA	Y[a]	N
	BKG vs BH-4	F	F	NA	NA	Y[a]	N
	BKG vs BH-5	F	F	NA	NA	Y[a]	N
	BKG vs BH-6	F	F	NA	NA	Y[a]	N
	BKG vs BH-7	P	F	NA	NA	N[a]	N
	BKG vs BH-8	P	P	NA	NA	N[a]	N
	BKG vs BH-9	P	P	NA	NA	N[a]	N
	BKG vs BH-10	P	P	NA	NA	N[a]	N
	BKG vs BH-11	P	P	NA	NA	N[a]	N
	BKG vs BH-12	P	P	NA	NA	N[a]	N
	BKG vs BH-13	P	P	NA	NA	N[a]	N
	BKG vs BH-14	P	P	NA	NA	N[a]	N
	BKG vs BH-15	P	P	NA	NA	N[a]	N
Calcium	BKG vs BH-1	P	P	P	P	N	-[c]
	BKG vs BH-2	P	P	P	P	N	-[c]
	BKG vs BH-3	P	P	P	P	N	-[c]
	BKG vs BH-4	P	P	P	P	N	-[c]
	BKG vs BH-5	P	P	P	P	N	-[c]
	BKG vs BH-6	P	P	P	P	N	-[c]
	BKG vs BH-7	P	P	P	P	N	-[c]
	BKG vs BH-8	P	F	F	F	N	-[c]
	BKG vs BH-9	F	F	F	P	Y	-[c]
	BKG vs BH-10	P	P	P	P	Y	-[c]
	BKG vs BH-11	P	P	P	P	N	-[c]
	BKG vs BH-12	P	P	P	P	N	-[c]

Table 4.6-10 Summary of Statistical Tests Performed on Borehole Soil Sample Data (Continued)

Analyte	Comparison	Statistical Tests				Exceeds UTL or 95th %	Exceeds Action Level
		Quantile	Wilcoxon Rank Sum	T-Test Equal Variance	T-Test Nonequal Variance		
	BKG vs BH-13	P	P	P	P	N	-[c]
	BKG vs BH-14	P	P	P	P	N	-[c]
	BKG vs BH-15	P	P	P	P	Y	-[c]
Chromium	BKG vs BH-1	P	F	F	F	Y	N
	BKG vs BH-2	F	P	F	F	Y	N
	BKG vs BH-3	F	F	F	F	Y	N
	BKG vs BH-4	F	F	F	F	Y	N
	BKG vs BH-5	F	F	F	F	Y	N
	BKG vs BH-6	F	F	F	F	Y	N
	BKG vs BH-7	F	F	F	F	Y	N
	BKG vs BH-8	F	F	F	F	Y	N
	BKG vs BH-9	F	F	F	F	Y	N
	BKG vs BH-10	F	F	F	F	Y	N
	BKG vs BH-11	F	F	F	F	Y	N
	BKG vs BH-12	F	F	F	F	Y	N
	BKG vs BH-13	F	F	F	F	Y	N
	BKG vs BH-14	F	F	F	F	Y	N
	BKG vs BH-15	P	F	F	P	Y	N
Cobalt	BKG vs BH-1	P	P	P	P	N	-[b]
	BKG vs BH-2	P	P	P	P	N	-[b]
	BKG vs BH-3	P	P	P	P	Y	-[b]
	BKG vs BH-4	P	P	P	P	Y	-[b]
	BKG vs BH-5	P	P	P	P	N	-[b]
	BKG vs BH-6	P	P	P	P	N	-[b]
	BKG vs BH-7	P	P	P	P	N	-[b]
	BKG vs BH-8	P	P	P	P	Y	-[b]
	BKG vs BH-9	P	P	P	P	Y	-[b]
	BKG vs BH-10	P	P	P	P	Y	-[b]
	BKG vs BH-11	P	P	P	P	Y	-[b]
	BKG vs BH-12	P	P	P	P	N	-[b]
	BKG vs BH-13	P	P	P	P	N	-[b]
	BKG vs BH-14	P	P	P	P	N	-[b]
	BKG vs BH-15	P	P	P	P	N	-[b]

Table 4.6-10 Summary of Statistical Tests Performed on Borehole Soil Sample Data (Continued)

Analyte	Comparison	Statistical Tests				Exceeds UTL or 95th %	Exceeds Action Level
		Quantile	Wilcoxon Rank Sum	T-Test Equal Variance	T-Test Nonequal Variance		
Copper	BKG vs BH-1	F	F	F	F	Y	-[b]
	BKG vs BH-2	F	F	F	F	Y	-[b]
	BKG vs BH-3	F	F	F	F	Y	-[b]
	BKG vs BH-4	F	F	F	F	Y	-[b]
	BKG vs BH-5	F	F	F	F	Y	-[b]
	BKG vs BH-6	F	F	F	F	Y	-[b]
	BKG vs BH-7	F	F	F	F	Y	-[b]
	BKG vs BH-8	F	F	F	F	Y	-[b]
	BKG vs BH-9	F	F	F	F	Y	-[b]
	BKG vs BH-10	F	F	F	P	Y	-[b]
	BKG vs BH-11	F	F	F	F	Y	-[b]
	BKG vs BH-12	P	P	P	P	N	-[b]
	BKG vs BH-13	F	F	F	P	Y	-[b]
	BKG vs BH-14	P	F	F	P	Y	-[b]
	BKG vs BH-15	P	P	F	P	Y	-[b]
Iron	BKG vs BH-1	P	P	P	P	N	-[c]
	BKG vs BH-2	F	P	P	P	Y	-[c]
	BKG vs BH-3	F	F	F	F	N	-[c]
	BKG vs BH-4	P	P	P	P	N	-[c]
	BKG vs BH-5	P	F	P	F	N	-[c]
	BKG vs BH-6	P	F	F	F	N	-[c]
	BKG vs BH-7	P	P	P	P	N	-[c]
	BKG vs BH-8	P	F	F	F	Y	-[c]
	BKG vs BH-9	P	F	F	F	N	-[c]
	BKG vs BH-10	P	F	F	P	Y	-[c]
	BKG vs BH-11	P	F	F	F	Y	-[c]
	BKG vs BH-12	P	P	P	P	N	-[c]
	BKG vs BH-13	F	F	F	F	N	-[c]
	BKG vs BH-14	P	F	F	F	Y	-[c]
	BKG vs BH-15	P	P	P	P	Y	-[c]

Table 4.6-10 Summary of Statistical Tests Performed on Borehole Soil Sample Data (Continued)

Analyte	Comparison	Statistical Tests				Exceeds UTL or 95th %	Exceeds Action Level
		Quantile	Wilcoxon Rank Sum	T-Test Equal Variance	T-Test Nonequal Variance		
Lead	BKG vs BH-1	P	P	P	P	N	N
	BKG vs BH-2	P	P	P	P	N	N
	BKG vs BH-3	P	P	P	P	Y	N
	BKG vs BH-4	P	P	P	P	Y	N
	BKG vs BH-5	P	P	P	P	N	N
	BKG vs BH-6	P	F	F	P	Y	N
	BKG vs BH-7	P	P	P	P	N	N
	BKG vs BH-8	P	P	P	P	Y	N
	BKG vs BH-9	P	P	P	P	N	N
	BKG vs BH-10	P	P	P	P	Y	N
	BKG vs BH-11	P	P	P	P	Y	N
	BKG vs BH-12	P	P	P	P	N	N
	BKG vs BH-13	P	P	P	P	N	N
	BKG vs BH-14	P	P	P	P	N	N
	BKG vs BH-15	P	P	P	P	N	N
Magnesium	BKG vs BH-1	P	P	P	P	N	-[c]
	BKG vs BH-2	P	P	P	P	N	-[c]
	BKG vs BH-3	P	P	P	P	N	-[c]
	BKG vs BH-4	P	P	P	P	Y	-[c]
	BKG vs BH-5	P	P	P	P	Y	-[c]
	BKG vs BH-6	P	P	P	P	N	-[c]
	BKG vs BH-7	P	P	P	P	N	-[c]
	BKG vs BH-8	P	P	P	P	Y	-[c]
	BKG vs BH-9	P	P	P	P	N	-[c]
	BKG vs BH-10	P	P	P	P	Y	-[c]
	BKG vs BH-11	P	P	P	P	N	-[c]
	BKG vs BH-12	P	P	P	P	N	-[c]
	BKG vs BH-13	P	P	P	P	N	-[c]
	BKG vs BH-14	P	P	P	P	Y	-[c]
	BKG vs BH-15	P	P	P	P	N	-[c]
Manganese	BKG vs BH-1	P	P	P	P	N	-[b]
	BKG vs BH-2	P	P	P	P	N	-[b]
	BKG vs BH-3	P	P	P	P	N	-[b]
	BKG vs BH-4	P	P	P	P	N	-[b]

Table 4.6-10 Summary of Statistical Tests Performed on Borehole Soil Sample Data (Continued)

Analyte	Comparison	Statistical Tests: Quantile	Statistical Tests: Wilcoxon Rank Sum	T-Test: Equal Variance	T-Test: Nonequal Variance	Exceeds UTL or 95th %	Exceeds Action Level
	BKG vs BH-5	P	P	P	P	N	-[b]
	BKG vs BH-6	P	P	P	P	N	-[b]
	BKG vs BH-7	P	P	P	P	N	-[b]
	BKG vs BH-8	P	F	F	F	N	-[b]
	BKG vs BH-9	P	F	F	F	Y	-[b]
	BKG vs BH-10	P	P	P	P	Y	-[b]
	BKG vs BH-11	P	P	P	P	N	-[b]
	BKG vs BH-12	P	P	P	P	N	-[b]
	BKG vs BH-13	P	P	P	P	N	-[b]
	BKG vs BH-14	P	P	P	F	N	-[b]
	BKG vs BH-15	P	P	P	P	N	-[b]
Mercury[a]	-	-	-	-	-	-	-
Nickel	BKG vs BH-1	P	P	P	P	Y	N
	BKG vs BH-2	F	P	F	P	Y	N
	BKG vs BH-3	F	F	F	P	Y	N
	BKG vs BH-4	P	P	P	P	Y	N
	BKG vs BH-5	P	P	P	P	N	N
	BKG vs BH-6	F	F	F	F	Y	N
	BKG vs BH-7	P	P	P	P	Y	N
	BKG vs BH-8	F	F	F	F	Y	N
	BKG vs BH-9	F	F	F	F	Y	N
	BKG vs BH-10	P	P	F	P	Y	N
	BKG vs BH-11	F	F	F	F	Y	N
	BKG vs BH-12	P	P	P	P	N	N
	BKG vs BH-13	P	F	F	F	N	N
	BKG vs BH-14	P	F	F	F	Y	N
	BKG vs BH-15	P	P	P	P	Y	N
Potassium	BKG vs BH-1	P	P	P	P	N	-[c]
	BKG vs BH-2	P	P	P	P	N	-[c]
	BKG vs BH-3	P	P	P	P	N	-[c]
	BKG vs BH-4	P	P	P	P	N	-[c]
	BKG vs BH-5	P	P	P	P	N	-[c]
	BKG vs BH-6	P	P	P	P	Y	-[c]
	BKG vs BH-7	P	P	P	P	N	-[c]
	BKG vs BH-8	P	P	P	P	N	-[c]

Table 4.6-10 Summary of Statistical Tests Performed on Borehole Soil Sample Data (Continued)

Analyte	Comparison	Statistical Tests				Exceeds UTL or 95th %	Exceeds Action Level
		Quantile	Wilcoxon Rank Sum	T-Test Equal Variance	T-Test Nonequal Variance		
	BKG vs BH-9	P	P	P	P	N	-[c]
	BKG vs BH-10	P	P	P	P	N	-[c]
	BKG vs BH-11	P	P	P	P	N	-[c]
	BKG vs BH-12	P	P	P	P	N	-[c]
	BKG vs BH-13	P	P	P	P	N	-[c]
	BKG vs BH-14	P	P	P	P	N	-[c]
	BKG vs BH-15	P	P	P	P	N	-[c]
Selenium[a]	-	-	-	-	-	-	-
Silver[a]	-	-	-	-	-	-	-
Sodium	BKG vs BH-1	P	P	NA	NA	N[d]	-[c]
	BKG vs BH-2	P	P	NA	NA	N[d]	-[c]
	BKG vs BH-3	P	P	NA	NA	N[d]	-[c]
	BKG vs BH-4	P	P	NA	NA	N[d]	-[c]
	BKG vs BH-5	P	P	NA	NA	Y[d]	-[c]
	BKG vs BH-6	P	P	NA	NA	N[d]	-[c]
	BKG vs BH-7	P	P	NA	NA	Y[d]	-[c]
	BKG vs BH-8	P	P	NA	NA	Y[d]	-[c]
	BKG vs BH-9	P	P	NA	NA	N[d]	-[c]
	BKG vs BH-10	P	P	NA	NA	Y[d]	-[c]
	BKG vs BH-11	P	P	NA	NA	N[d]	-[c]
	BKG vs BH-12	P	P	NA	NA	N[d]	-[c]
	BKG vs BH-13	P	P	NA	NA	N[d]	-[c]
	BKG vs BH-14	P	P	NA	NA	N[d]	-[c]
	BKG vs BH-15	P	P	NA	NA	N[d]	-[c]
Thallium[a]	-	-	-	-	-	-	-
Vanadium	BKG vs BH-1	P	P	P	P	N	-[b]
	BKG vs BH-2	P	P	P	P	N	-[b]
	BKG vs BH-3	P	P	P	P	N	-[b]
	BKG vs BH-4	P	P	P	P	N	-[b]
	BKG vs BH-5	P	P	P	P	N	-[b]
	BKG vs BH-6	P	F	F	F	N	-[b]
	BKG vs BH-7	P	P	P	P	N	-[b]

Table 4.6-10 Summary of Statistical Tests Performed on Borehole Soil Sample Data (Concluded)

Analyte	Comparison	Statistical Tests				Exceeds UTL or 95th %	Exceeds Action Level
		Quantile	Wilcoxon Rank Sum	T-Test: Equal Variance	T-Test: Nonequal Variance		
	BKG vs BH-8	P	F	F	F	Y	-(b)
	BKG vs BH-9	P	P	F	P	N	-(b)
	BKG vs BH-10	P	P	F	P	Y	-(b)
	BKG vs BH-11	P	F	F	F	Y	-(b)
	BKG vs BH-12	P	P	P	P	N	-(b)
	BKG vs BH-13	P	F	F	F	N	-(b)
	BKG vs BH-14	P	F	F	F	Y	-(b)
	BKG vs BH-15	P	P	P	P	N	-(b)
Zinc	BKG vs BH-1	P	F	F	F	Y	-(b)
	BKG vs BH-2	P	P	P	P	Y	-(b)
	BKG vs BH-3	P	F	F	P	Y	-(b)
	BKG vs BH-4	P	F	F	P	Y	-(b)
	BKG vs BH-5	P	F	F	F	N	-(b)
	BKG vs BH-6	P	F	F	F	Y	-(b)
	BKG vs BH-7	P	P	P	P	Y	-(b)
	BKG vs BH-8	P	F	F	F	Y	-(b)
	BKG vs BH-9	P	P	P	P	N	-(b)
	BKG vs BH-10	P	P	P	P	Y	-(b)
	BKG vs BH-11	F	F	F	F	Y	-(b)
	BKG vs BH-12	P	P	P	P	N	-(b)
	BKG vs BH-13	P	P	F	P	Y	-(b)
	BKG vs BH-14	P	F	F	P	Y	-(b)
	BKG vs BH-15	P	P	P	P	Y	-(b)

(a) The number of non-detects in the background soil samples precluded the use of statistical analysis.
(b) Metal is not listed as a RCRA constituent (40 CFR 261 Appendix VIII).
(c) Metal is considered an essential nutrient as described in RAGS (EPA, 1989).
(d) 95th percentile.
P Data set for specified analyte passes statistical test when compared to background.
F Data set for specified analyte fails statistical test when compared to background.
NA T-test was not performed because data set is non-parametric.
BKG Background analytical data.
BH-1 Borehole analytical data from borehole BH-1.

4.7 Groundwater Monitoring Well MW-4

MWL groundwater monitoring well MW-4 was installed using resonant sonic drilling between December 1992 and February 1993. MW-4 was installed directly beneath Trench D at an angle of 6° from vertical in the north-south plane (Figure 4.7-1). Between 11 May and 22 June 1967, approximately 271,000 gallons of coolant wastewater from the Sandia Engineering Reactor Facility were disposed of in Trench D. Approximately 1 Ci of total radioactivity, mainly short-lived radionuclides, were discharged into the trench with the coolant wastewater. Trench D was an active disposal trench at the time of this wastewater discharge, and represents the most likely source for contaminant mobilization and migration at the landfill.

4.7.1 Sampling Methodology

MW-4 was continuously cored and the hole was cased as the hole was advanced to prevent sloughing. Soil samples were collected ahead of the bit-face using a California-modified, 18 in.-long, 2.5 in.-diameter split-spoon core sampler. Soil gas samples were obtained with a stainless steel soil gas probe. Water-bath headspace analyses for VOCs were performed on all soil samples. These soil samples were subsequently screened with a SNL,NM GC/MS. Field screening for VOCs and beta/gamma radiation was conducted on all core as it was removed from the sonic core barrel before sampling and logging.

Soil samples were collected every 20 ft from the surface to 200 ft, and every 50 ft from 200 ft to total depth. Soil gas samples were collected at the same intervals as the soil samples to a depth of 160 ft. Soil gas sampling was discontinued beyond 160 ft because all previous screening indicated no VOCs were present.

When split-spoon recovery was poor, soil samples were collected directly from the sonic core barrel. No soil samples were obtained at 60 ft because recovery was poor in both the split-spoon sampler and the sonic core barrel. Soil samples at 78 ft, 89 ft, 100 ft, 121 ft, 353 ft, 447 ft, 486 ft, 499 ft, and 546 ft were collected from the sonic core barrel. Gross alpha/beta and tritium samples were collected from the sonic core barrel at 400 ft. Because of poor split-spoon recovery, duplicate samples could not be collected at 10 ft, except for VOCs. The analytical laboratory was requested to perform replicate analyses on these samples to replace the duplicate samples. No duplicate samples could be collected at 30 ft for any of the analyses because of poor split-spoon recovery. The lab was requested to perform replicate analyses on these samples to replace the duplicate samples. Soil samples collected from the saturated zone at 486 ft were taken from the sonic core barrel.

On 3 February 1993, Enseco Rocky Mountain Analytical Laboratory experienced a serious release of methylene chloride. Trip blanks used at the MWL after that time may have been contaminated by this incident. The analytical data associated with these trip blanks has been qualified in terms of the methylene chloride incident.

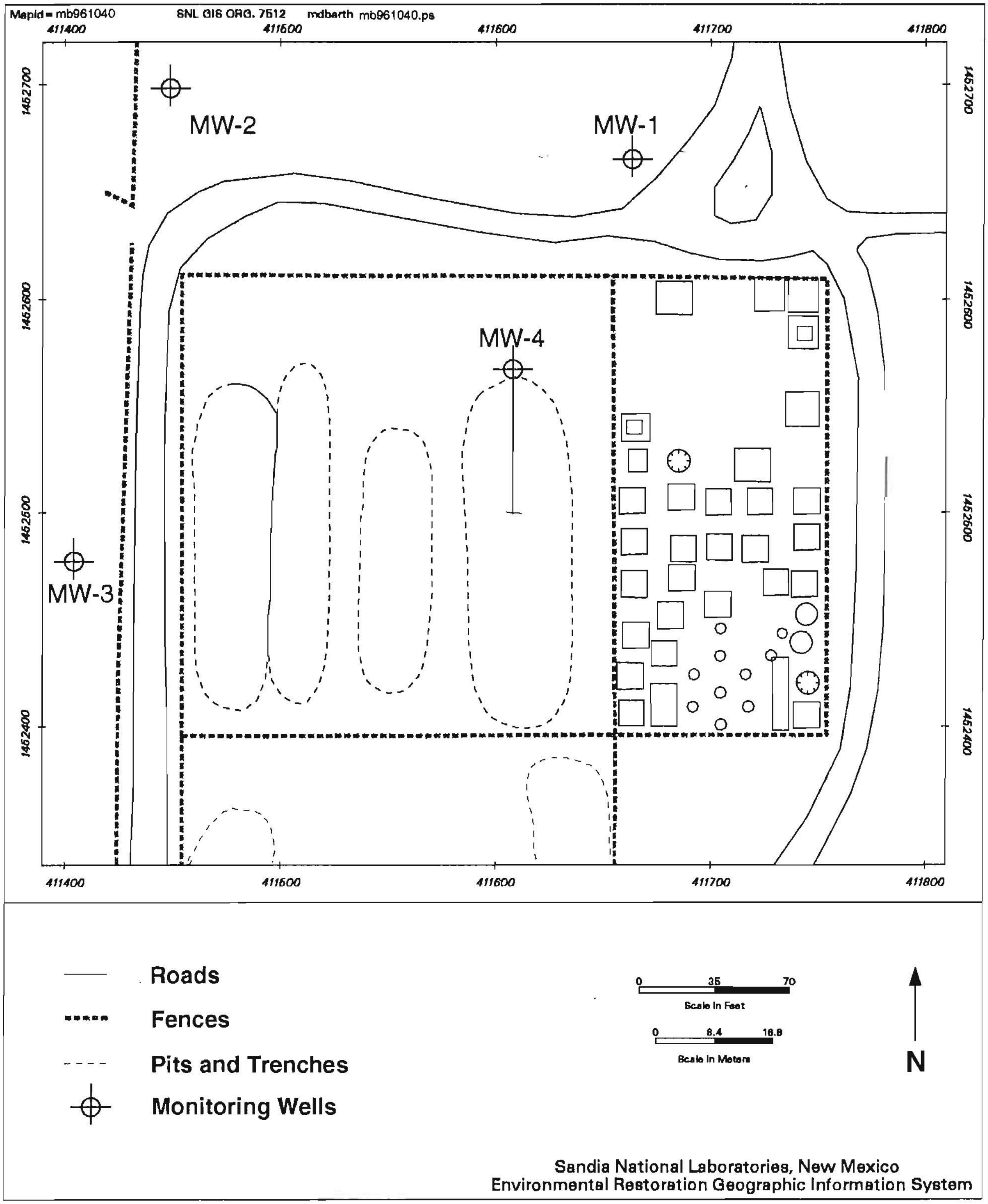


Figure 4.7-1 Location and Surface Projection of MW-4

4.7.2 MW-4 Analytical Procedures

MW-4 soil samples were analyzed for VOCs, SVOCs, TAL metals, chromium VI, gross alpha/beta, isotopic plutonium, thorium, and uranium, tritium, and soil moisture. Table 4.7-1 provides a summary of soil samples collected from MW-4 and the analyses performed on the samples. All samples were analyzed using EPA CLP and SW-846 methods. Table 4.7-2 shows the laboratory analytical methods used for analysis of MW-4 soil samples. All analyses, chemical and radiochemical, were performed by Quanterra Inc., Arvada, Colorado. A total of 212 samples were collected for analysis. Table 4.7-3 summarizes the number of samples collected for each given depth.

4.7.2.1 VOC, SVOC, and TAL Metals Results

VOC and SVOC results for all soil samples collected from MW-4 during drilling are presented in Appendices F and G, respectively. The sample number, sample depth (linear borehole depth and true depth), analyte, concentration, and the action level are given. Six VOCs (acetone, methylene chloride, 2-butanone, 2-hexanone, toluene, and PCE), and six SVOCs (bis(2-ethylhexyl) phthalate, phenol, N-nitrosodiphenylamine, di-n-butyl phthalate, di-n-octyl phthalate, and benzoic acid) were identified in MW-4 soil samples.

TAL metals results for all soil samples collected from MW-4 during drilling are presented in Appendix H. The sample number, sample depth (linear borehole depth and true depth), metal, and concentration are given.

VOC, SVOC, and metals results were compared to proposed RCRA Subpart S action levels for soils. Where no proposed Subpart S action level was available for a particular VOC, SVOC, or metal, an action level was calculated using toxicity information contained in EPA's IRIS database (EPA, 1995a) or the HEAST (EPA, 1995b). Proposed Subpart S (55 FR 30870) soil ingestion equations were used to calculate unavailable action levels. In evaluating VOC and SVOC data, EPA guidance was used to discount particular VOCs and SVOCs that were present in both the MW-4 soil samples and the associated laboratory or field blanks.

Six VOCs were present in laboratory and/or field blanks associated with MW-4 soil samples. Acetone, 2-butanone, methylene chloride, total xylenes, carbon disulfide, and ethylbenzene were detected in laboratory and/or field blanks. Table 4.7-4 shows the soil sample depths at which volatile organic compounds were detected in associated blank samples. Acetone was present in laboratory and field blanks associated with all MW-4 soil samples; 2-butanone was present in laboratory method blanks associated with soil samples from 10 ft (and 10 ft duplicate), 20 ft, 30 ft (and 30 ft duplicate), and 546 ft; methylene chloride was present in laboratory and field blanks associated with all MW-4 soil samples except those from 100 ft, 121 ft, and 294 ft (and 294 ft duplicate); total xylenes were present in laboratory method blanks associated with soil samples from 180 ft, 200 ft (and 200 ft duplicate), and 250 ft; carbon disulfide was present in trip blanks associated with two soil samples (294 ft and 294 ft duplicate); and ethylbenzene was present in the equipment rinsate blank associated with the soil sample from 546 ft. Appendix F shows the concentrations of the six VOCs that were present in blanks associated with the MW-4 soil samples. The appendix also shows the VOCs that were discounted based upon EPA guidance. Using EPA guidance, 23 out of 24 occurrences of acetone, 15 out of 21 occurrences of methylene chloride, and 5 out of 11 occurrences of 2-butanone were attributed to laboratory contamination and discounted.

Table 4.7-1 Summary of Samples Collected From MW-4

Sample Number	Date Collected	Sample Depth[a] (linear feet)	True Sample Depth [b] (feet bgs)	Sample Matrix	Sample Type	Analyses Requested
ER92003638	12/16/92	5	5	Soil	Routine	Tritium
ER92003639	12/16/92	10	10	Soil	Routine	Full Suite[e]
ER92003639	12/16/92	10	10	Soil	Replicate of 3639	Full Suite[e] except VOCs
ER92003640	12/16/92	10	10	Soil	Duplicate of 3639	GS[f], VOCs[d]
ER92003641	12/16/92	15	15	Soil	Routine	Tritium
ER92003642	12/16/92	NA[c]	NA[c]	Water	Trip Blank	VOCs[d]
ER92003643	12/17/92	20	20	Soil	Routine	Full Suite[e]
ER92003644	12/17/92	NA[c]	NA[c]	Water	Trip Blank	VOCs[d]
ER92003645	12/17/92	25	25	Soil	Routine	Tritium
ER92003646	12/17/92	30	30	Soil	Routine	Full Suite[e]
ER92003646	12/17/92	30	30	Soil	Duplicate of 3646	Full Suite[e]
ER92003650	12/18/92	NA[c]	NA[c]	Water	Trip Blank	VOCs[d]
ER92003648	12/18/92	35	35	Soil	Routine	Tritium
ER92003649	12/18/92	41	41	Soil	Routine	Full Suite[e]
ER92003651	12/18/92	45	45	Soil	Routine	Tritium
ER92003652	12/18/92	50	50	Soil	Routine	Full Suite[e]
ER92003654	12/19/92	NA[c]	NA[c]	Water	Trip Blank	VOCs[d]
ER92003653	12/19/92	60	60	Soil	Routine	GS[f]
ER92003655	12/19/92	70	70	Soil	Routine	Full Suite[e]
ER92004042	12/20/92	78	78	Soil	Routine	Full Suite[e]
ER92004043	12/20/92	89	89	Soil	Routine	Full Suite[e]
ER92004044	12/20/92	100	99	Soil	Routine	GS[f]
ER92004032	12/21/92	NA[c]	NA[c]	Water	Equipment Rinsate	Full Suite[e]
ER92004034	12/21/92	NA[c]	NA[c]	Water	Trip Blank	VOCs[d]
ER92004031	12/21/92	100	99	Soil	Routine	Full Suite[e]
ER92004033	12/21/92	121	120	Soil	Routine	Full Suite[e]
ER92004038	12/22/92	NA[c]	NA[c]	Water	Trip Blank	VOCs[d]
ER92004036	12/22/92	140	139	Soil	Routine	Full Suite[e]
ER92004037	12/22/92	160	159	Soil	Routine	Full Suite[e]
ER92004039	1/5/93	180	179	Soil	Routine	GS[f]
ER92004029	1/6/93	NA[c]	NA[c]	Water	Trip Blank	VOCs[d]
ER92004040	1/6/93	180	179	Soil	Routine	Full Suite[e]
ER92004041	1/6/93	200	199	Soil	Routine	Full Suite[e]

Table 4.7-1 Summary of Samples Collected From MW-4 (Continued)

Sample Number	Date Collected	Sample Depth[a] (linear feet)	True Sample Depth[b] (feet bgs)	Sample Matrix	Sample Type	Analyses Requested
ER92004030	1/6/93	200	199	Soil	Duplicate of 4041	Full Suite[e]
ER92004028	1/8/93	NA[c]	NA[c]	Water	Trip Blank	VOCs[d]
ER92004027	1/8/93	250	249	Soil	Routine	Full Suite[e]
ER92004026	1/11/93	NA[c]	NA[c]	Water	Trip Blank	VOCs[d]
ER92004025	1/11/93	294	292	Soil	Routine	Full Suite[e]
ER92004024	1/11/93	294	292	Soil	Duplicate of 4025	Full Suite[e]
ER92004182	1/14/93	NA[c]	NA[c]	Water	Trip Blank	VOCs[d]
ER92004181	1/14/93	353	351	Soil	Routine	Full Suite[e]
ER92004184	1/20/93	NA[c]	NA[c]	Water	Trip Blank	VOCs[d]
ER92004183	1/20/93	400	398	Soil	Routine, MS/MSD[g]	Full Suite[e]
ER92004185	1/27/93	NA[c]	NA[c]	Water	Trip Blank	VOCs[d]
ER92004180	1/27/93	447	445	Soil	Routine	Full Suite[e]
ER92004347	2/4/93	486 water table	483 water table	Soil	Routine	Full Suite[e], no VOCs
ER92004349	2/5/93	NA[c]	NA[c]	Water	Trip Blank	VOCs[d]
ER92004348	2/5/93	499	496	Soil	Routine	Full Suite[e]
ER92004343	2/8/93	NA[c]	NA[c]	Water	Trip Blank	VOCs[d]
ER92004342	2/8/93	546 total depth	543 total depth	Soil	Routine, MS/MSD[g]	Full Suite[e]
ER92004350	2/8/93	546 total depth	543 total depth	Water	Equipment Rinsate	Full Suite[e]

(a) Depth reported is linear feet. Monitoring well was drilled at an angle of 6 degrees from vertical.
(b) Depth reported is actual feet bgs.
(c) NA - not applicable, aqueous blank not collected from the subsurface.
(d) VOCs - volatile organic compounds
(e) Full Suite - VOCs (EPA Method 8240); semivolatile organic compounds (EPA Method 8270); Target Analyte List metals (EPA Methods 6000/7000 series); Cr6+ (EPA Method 7196); total Pu,Th, U; gross alpha/beta; tritium (EPA Method H-03); isotopic Pu, Th, U (EPA/EMSL); and gamma spectroscopy
(f) GS - gamma spectroscopy
(g) MS/MSD - matrix spike/matrix spike duplicate

Table 4.7-2 Analytical Methods for MW-4 Soil Sampling

Analytical Group	Analytical Method
VOCs	SW-846 (8240)
SVOCs	SW-846 (8270)
TAL Metals	SW-846 (6010 for ICP metals, 7471 for mercury, 7196 for Cr^{6+}, 7060 for arsenic, 7740 for selenium, 7841 for thallium, and 7421 for lead)
Total Metals	RMAL[(a)] (3020/3050)
Isotopic Uranium, Thorium, Plutonium	EPA/EMSL[(b)]
Gross Alpha/Beta	EPA Method 903.1
Tritium in soil	EPA Method H-01

(a) Rocky Mountain Analytical Laboratory method
(b) Environmental Measurements and Standards Laboratory method
SW846 Analytical laboratory methods presented in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (EPA, 1986).
TAL Target Analyte List

Table 4.7-3 MW-4 Soil Sample Collection Summary

Sample Depth[a] (linear ft)	Sample Depth[b] (ft bgs)	VOCs	SVOCs	TAL Metals	Hexavalent Chromium (Cr^{6+})	Total U, Pu, Th	Isotopic U, Pu, Th	Gross alpha/ beta	Tritium	Total
5	5								1	1
10	10	1	1	1	1	1	1	1	1	8
10 dup	10 dup	1	1	1	1	1	1	1	1	8
15	15								1	1
20	20	1	1	1	1	1	1	1	1	8
25	25								1	1
30	30	1	1	1	1	1	1	1	1	8
30 dup	30 dup	1	1	1	1	1	1	1	1	8
35	35								1	1
41	41	1	1	1	1	1	1	1	1	8
45	45								1	1
50	50	1	1	1	1	1	1	1	1	8
60	60	NS	NS	NS	NS	NS	NS	NS	NS	-
70	70	1	1	1	1	1	1	1	1	8
78	78	1	1	1	1	1	1	1	1	8
89	89	1	1	1	1	1	1	1	1	8
100	99	1	1	1	1	1	1	1	1	8
121	120	1	1	1	1	1	1	1	1	8
140	139	1	1	1	1	1	1	1	1	8
160	159	1	1	1	1	1	1	1	1	8
180	179	1	1	1	1	1	1	1	1	8
200	199	1	1	1	1	1	1	1	1	8
200 dup	199 dup	1	1	1	1	1	1	1	1	8
250	249	1	1	1	1	1	1	1	1	8
294	292	1	1	1	1	1	1	1	1	8
294 dup	292 dup	1	1	1	1	1	1	1	1	8
353	351	1	1	1	1	1	1	1	1	8
400	398	1	1	1	1	1	1	1	1	8
447	445	1	1	1	1	1	1	1	1	8
486	483	NS	1	1	1	1	1	1	1	7
499	496	1	1	1	1	1	1	1	1	8
546	543	1	1	1	1	1	1	1	1	8
Total		25	26	26	26	26	26	26	31	212

(a) Depth reported is linear feet. Monitoring well was drilled at an angle of 6 degrees from vertical.
(b) Depth reported is actual feet bgs.
NS No sample collected
dup Duplicate sample

Table 4.7-4 Volatile and Semi-Volatile Organic Compounds Present in Laboratory and/or Field Blanks

Sample Depth[a] (linear ft)	Acetone[b]	2-Butanone[b]	Methylene Chloride[b]	Total Xylenes[b]	Carbon Disulfide[b]	Ethylbenzene[b]	Diethyl Phthalate[b]	N-Nitroso-diphenylamine[b]	Di-n-butyl Phthalate[c]
10	LMB	LMB	LMB, TB	-	-	-	-	-	-
10 dup	LMB	LMB	LMB, TB	-	-	-	-	-	-
10 dup (RA)	LMB	-	LMB	-	-	-	-	-	-
20	LMB	LMB	LMB, TB	-	-	-	-	-	-
20 (RA)	LMB	-	LMB	-	-	-	-	-	-
30	LMB	LMB	LMB, TB	-	-	-	-	-	-
30 dup	LMB	LMB	LMB	-	-	-	-	-	-
30 (RA)	LMB	-	LMB	-	-	-	-	-	-
41	LMB, TB	-	TB	-	-	-	-	-	-
41 (RA)	LMB	-	LMB	-	-	-	-	-	-
50	TB	-	TB	-	-	-	-	-	-
50 (RA)	LMB	-	LMB	-	-	-	-	-	-
70	LMB	-	LMB, TB	-	-	-	-	-	-
78	LMB	-	LMB, TB	-	-	-	-	-	-
89	LMB	-	LMB, TB	-	-	-	-	-	-
100	EB, TB	-	-	-	-	-	EB	EB	-
121	EB, TB	-	-	-	-	-	-	-	-
140	LMB	-	LMB, TB	-	-	-	-	-	-
160	LMB	-	TB	-	-	-	-	-	-

Table 4.7-4 Volatile and Semi-Volatile Organic Compounds Present in Laboratory and/or Field Blanks (Concluded)

Sample Depth[a] (linear ft)	Acetone[b]	2-Butanone[b]	Methylene Chloride[b]	Total Xylenes[b]	Carbon Disulfide[b]	Ethylbenzene[b]	Diethyl Phthalate[c]	N-Nitroso-diphenylamine[c]	Di-n-butyl Phthalate[c]
180	LMB, TB	-	LMB, TB	LMB	-	-	-	-	LMB
200	LMB, TB	-	LMB, TB	LMB	-	-	-	-	-
200 dup	LMB, TB	-	LMB, TB	LMB	-	-	-	-	-
250	LMB	-	LMB	LMB	-	-	-	-	-
294	LMB	-	-	-	TB	-	-	-	-
294 dup	LMB	-	-	-	TB	-	-	-	-
353	LMB, TB	-	TB	-	-	-	-	-	-
400	TB	-	TB	-	-	-	-	-	-
447	LMB, TB	-	LMB, TB	-	-	-	-	-	-
486[d]	-	-	-	-	-	-	-	-	-
499	LMB, TB	-	TB	-	-	-	-	-	-
546	LMB, EB, TB	LMB	TB	-	-	EB	-	-	-

(a) Depth reported is linear feet. Monitoring well was drilled at an angle of 6 degrees from vertical.
(b) VOC
(c) SVOC
(d) No samples were collected for VOC analysis at this depth.
LMB Compound present in analytical laboratory method blank
TB Compound present in trip blank
EB Compound present in equipment rinsate blank
(RA) Reanalysis
dup Duplicate sample

Three SVOCs were present in laboratory and/or field blanks associated with MW-4 soil samples. Diethyl phthalate, N-nitrosodiphenylamine, and di-n-butyl phthalate were detected in laboratory and/or field blanks. Table 4.7-4 shows the soil sample depths at which SVOCs were detected in associated blank samples. Diethyl phthalate and N-nitrosodiphenylamine were present in the equipment rinsate blank associated with the soil sample from 100 ft. Di-n-butyl phthalate was present in the laboratory method blank associated with the soil sample from 180 ft. Appendix G shows the concentrations of the three SVOCs that were present in blanks associated with the MW-4 soil samples. The appendix also shows the SVOCs that were discounted based upon EPA guidance. Using EPA guidance, one occurrence of di-n-butyl phthalate was attributed to laboratory contamination and discounted.

4.7.2.2 VOCs

Table 4.7-5 summarizes VOCs detected in MW-4 soil samples, excluding those discounted based upon EPA guidance. The table provides the analyte, the sample depth (linear ft and ft bgs), the highest measured concentration of that specific analyte, and the action level for each analyte listed.

Six VOCs were detected in MW-4 soil samples. Acetone was detected in one soil sample from 447 ft at a concentration of 130 μg/kg. Methylene chloride was detected in six soil samples at concentrations ranging from 1.1 J μg/kg (294 ft duplicate) to 3,800 μg/kg (10 ft). 2-butanone was detected in six soil samples at concentrations ranging from 3.5 J μg/kg (70 ft) to 12 μg/kg (447 ft). 2-hexanone was detected in one soil sample from 447 ft at 1.7 J μg/kg. Toluene was detected in seven soil samples at concentrations ranging from 2.4 J μg/kg (89 ft and 140 ft) to 5.4 μg/kg (70 ft). PCE was detected in two soil samples at concentrations of 1.4 J μg/kg (200 ft) and 5.4 μg/kg (250 ft).

All of the VOCs discussed above were detected in concentrations significantly below their corresponding action levels. The proposed RCRA Subpart S action level for acetone in soils is 8,000,000 μg/kg. The highest measured concentrations of methylene chloride, toluene, and PCE were 3,800 μg/kg, 5.4 μg/kg, and 5.4 μg/kg, respectively. The corresponding proposed RCRA Subpart S action levels for these compounds in soil are 90,000 μg/kg, 20,000,000 μg/kg, and 10,000 μg/kg, respectively. Action levels for 2-butanone and 2-hexanone were calculated from toxicity information contained in the IRIS database (EPA, 1995a) and the soil ingestion equations provided in proposed RCRA Subpart S (55 FR 30870). The actions levels calculated for 2-butanone and 2-hexanone were 50,000,000 μg/kg and 3,000,000 μg/kg.

4.7.2.3 SVOCs

Table 4.7-5 summarizes SVOCs detected in MW-4 soil samples, excluding those discounted based upon EPA guidance. The table provides the analyte, the sample depth (linear ft and ft bgs), the highest measured concentration of that specific analyte, and the action level for each analyte listed.

Six SVOCs were detected in MW-4 soil samples. N-nitrosodiphenylamine was detected in 10 soil samples at concentrations ranging from 36 J μg/kg (30 ft) to 74 J μg/kg (160 ft). All measured concentrations of N-nitrosodiphenylamine were "J" qualified.

Table 4.7-5 VOCs and SVOCs Detected in MW-4 Soil Samples

Analyte	Sample Depth[a] (linear ft)	True Sample Depth[b] (ft bgs)	Highest Measured Concentration (µg/kg)	Action Level (µg/kg)
Volatile Organic Compounds:				
Acetone	447	445	130	8,000,000[c]
Methylene chloride	10	10	3800	90,000[c]
2-Butanone	447	445	12	50,000,000[d]
2-Hexanone	447	445	1.7 J	3,000,000[d]
Toluene	70	70	5.4	20,000,000[c]
PCE	250	249	5.4	10,000[c]
Semivolatile Organic Compounds:				
N-nitrosodiphenylamine	160	159	74 J	100,000[c]
Bis(2-ethylhexyl) phthalate	200 dup	199 dup	2900	50,000[c]
Phenol	180	179	460	50,000,000[c]
Di-n-butyl phthalate	294	292	80 J	8,000,000[c]
Di-n-octyl phthalate	200 dup	199 dup	130 J	1,600,000[d]
Benzoic acid	160	159	68 J	300,000,000[d]

(a) Depth reported is linear feet. Monitoring well was drilled at an angle of 6 degrees from vertical.

(b) Depth reported is actual feet bgs.

(c) Proposed RCRA Subpart S action level for soils (55 FR 30865)

(d) Action level based on toxicity information contained in the IRIS database (EPA, 1995a) or the HEAST (EPA, 1995b) and a HI of 1. Soil ingestion equations provided in Subpart S (55 FR 30870) were used to calculate action levels.

J Concentration of the compound in the sample was below the Reporting Limit but above the Detection Limit.

Bis(2-ethylhexyl) phthalate was detected in 21 soil samples at concentrations ranging from 36 J μg/kg (546 ft) to 2,900 μg/kg (200 ft duplicate); phenol was detected in five soil samples at concentrations ranging from 39 J μg/kg (89 ft) to 460 μg/kg (180 ft); di-n-butyl phthalate was detected in four soil samples at concentrations ranging from 36 J μg/kg (180 ft) to 80 J μg/kg (294 ft); di-n-octyl phthalate was detected in two soil samples at 110 J μg/kg (294 ft) and 130 J μg/kg (200 ft duplicate); and benzoic acid was detected in three soil samples at concentrations ranging from 35 J μg/kg (294 ft duplicate) to 68 J μg/kg (160 ft). All measured concentrations of di-n-butyl phthalate, di-n-octyl phthalate, and benzoic acid were "J" qualified.

All six of the SVOCs detected in MW-4 soil samples were present in concentrations significantly below their corresponding action levels. The highest measured concentrations of N-nitrosodiphenylamine, bis(2-ethylhexyl) phthalate, phenol, and di-n-butyl phthalate in MW-4 soil samples were 74 J μg/kg, 2,900 μg/kg, 460 μg/kg, and 80 J μg/kg, respectively. The corresponding proposed RCRA Subpart S action levels for these compounds are 100,000 μg/kg, 50,000 μg/kg, 50,000,000 μg/kg, and 8,000,000 μg/kg. The highest measured concentrations of di-n-octyl phthalate and benzoic acid in MW-4 soil samples were 130 J μg/kg and 68 J μg/kg. Action levels for di-n-octyl phthalate and benzoic acid were calculated from toxicity information contained in the IRIS database (EPA, 1995a) and the soil ingestion equations provided in proposed RCRA Subpart S (55 FR 30870). The action levels calculated for di-n-octyl phthalate and benzoic acid were 1,600,000 μg/kg and 300,000,000 μg/kg, both significantly greater than the highest concentrations measured in MW-4 soil samples.

4.7.2.4 TAL Metals

Table 4.7-6 summarizes TAL metals in MW-4 soil samples. The table provides the metal, the sample depth (linear ft and ft bgs), the highest measured concentration of that specific metal, the action level for each metal listed, and the statistically-determined UTL. The UTL is used to define background if the data set is normal or lognormal, and establishes a concentration range that is constructed to contain a specified proportion of the population with a specified confidence. The proportion of the population included is referred to as the coverage, and the probability with which the tolerance interval includes the proportion is referred to as the tolerance coefficient. The EPA-recommended coverage value of 95 percent and tolerance coefficient value of 95 percent (EPA, 1992) were used to calculate the UTL. UTLs were calculated for all of the TAL metals and are presented in Table 4.7-6.

The highest measured concentrations of calcium, iron, potassium, magnesium, and sodium were detected at levels ranging from 17,000 mg/kg (400 ft) to 118,000 mg/kg (200 ft duplicate), 6,830 mg/kg (121 ft) to 16,600 mg/kg (546 ft), 35.1 mg/kg (121 ft) to 3,480 mg/kg (546 ft),1,990 mg/kg (121 ft) to 7,640 mg/kg (499 ft), and 1.15 mg/kg (70 ft, 100 ft, 121 ft, 140 ft, 160 ft, 200 ft, 200 ft duplicate, 400 ft, 486 ft, 499 ft, 546 ft) to 413 mg/kg (20 ft), respectively. These five metals are considered essential nutrients (EPA, 1989) and have no action levels.

The highest measured concentrations of lead were detected at levels ranging from 2.9 mg/kg (121 ft) to 13.2 mg/kg (294 ft duplicate). EPA guidance for lead is given in "Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities" (EPA, 1994). This document provides an action level of 400 mg/kg for lead in soil.

The highest measured concentrations of antimony, mercury, and nickel were detected at levels ranging from 0.74 mg/kg (486 ft) to 5.8 mg/kg (200 ft duplicate), 0.019 mg/kg (all sample depths except 180 ft and 294 ft) to 0.12 mg/kg (294 ft), and 4.1 mg/kg (78 ft) to 15.6 mg/kg (250 ft), respectively. The proposed RCRA Subpart S action levels for antimony, mercury, and nickel in soil are 30 mg/kg, 20 mg/kg, and 2,000 mg/kg, significantly higher than the levels of these metals reported in the MW-4 soil samples.

Table 4.7-6 TAL Metals in MW-4 Soil Samples

Metal	Sample Depth (linear ft)	True Sample Depth (ft bgs)	Highest Measured Concentration (mg/kg)	Action Level (mg/kg)	Statistically Determined UTL[g]
Mercury	294	292	0.12	20[a]	-[i]
Silver	30	30	0.73	400[b]	-[i]
Aluminum	546	543	15900	-[d]	7286.95
Arsenic	250	249	4.8	20[b]	4.45
Barium	447	445	225	6,000[b]	235.51
Beryllium	546	543	1.1	0.2[a]	0.82
Calcium	200 dup	199 dup	118000	-[c]	75830.5
Cadmium	10 dup	10 dup	0.81	80[b]	0.87[h]
Cobalt	546	543	8.9	-[d]	4.98
Chromium	10 dup	10 dup	34.3	400[a]	8.7
Copper	546	543	15.9	-[d]	8.61
Iron	546	543	16600	-[c]	11812
Potassium	546	543	3480	-[c]	1473
Magnesium	499	496	7640	-[c]	4687
Manganese	50	50	579	10,000[b,d]	259
Sodium	20	20	413	-[c]	489[h]
Nickel	250	249	15.6	2,000[a]	8.86
Lead	294 dup	292 dup	13.2	400[e]	7.48
Antimony	200 dup	199 dup	5.8	30[a]	4.8[h]
Selenium	70	70	0.61	400[b]	-[i]
Thallium	All depths except 10 dup, 41, 50	All depths except 10 dup, 41, 50	0.0379	6[f]	-[i]
Vanadium	546	543	25.7	600[b,d]	24
Zinc	89	89	69.4	20,000[b,d]	28.59

(a) Proposed RCRA Subpart S action level for soils (55 FR 30865)

(b) Action level based on toxicity information contained in the IRIS database (EPA, 1995a) or the HEAST (EPA, 1995b) and a HI of 1. Soil ingestion equations provided in Subpart S (55 FR 30870) were used to calculate the action levels.

(c) Metal is considered an essential nutrient as described in RAGS (EPA, 1989).

(d) Metal is not listed as a RCRA constituent (40 CFR 261 Appendix VIII) and therefore was not considered as a contaminant of concern.

(e) Action level provided in "Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities," (EPA, 1994).

(f) Particular thallium compound was not identified during analysis. The IRIS database, for all thallium compounds listed, gives RFD's in the narrow range of 8×10^{-5} to 9×10^{-5} (EPA, 1995a). Based on the conservative value of 8×10^{-5}, an action level of 6 mg/kg was calculated.

(g) The UTL is used to define background if the data set is normal or lognormal. The UTL establishes a concentration range that is constructed to contain a specified proportion of the population with a specified confidence. The EPA-recommended coverage of 95% and tolerance coefficient value of 95% was used to calculate the UTL (EPA, 1992).

(h) 95th percentile value is used to define background if the data set is nonparametric. The calculated background value is insensitive to the magnitude of the largest 5% of the data points (EPA, 1992).

(i) No UTL or 95 percentile value was calculated because all background concentrations were non-detect.

Analysis for total chromium and chromium VI were performed on MW-4 soil samples. Total chromium includes chromium III and chromium VI. Table 4.7-7 provides the concentrations of total chromium and chromium VI reported from laboratory analysis. The chromium III concentration shown in the table is the difference between the chromium VI concentration and the total chromium concentration. Concentrations of total chromium ranged from 5.6 mg/kg (100 ft and 121 ft) to 34.3 mg/kg (10 ft duplicate). Chromium VI was detected at six sample depths in concentrations of 0.14 mg/kg (100 ft), 0.12 mg/kg (121 ft), 0.1 mg/kg (200 ft duplicate), 0.13 mg/kg (294 ft), 0.23 mg/kg (294 ft duplicate), and 0.15 (546 ft). The proposed RCRA Subpart S action level for chromium VI in soil is 400 mg/kg. The action level for chromium III was calculated from toxicity information contained in the IRIS database (EPA, 1995a) and the soil ingestion equations provided in proposed RCRA Subpart S (55 FR 30870). The actions level calculated for chromium III is 80,000 mg/kg. All reported concentrations of chromium III and chromium VI are significantly lower than the specified action levels.

The highest measured concentrations of silver, arsenic, barium, cadmium, and selenium were detected at levels ranging from 0.3 mg/kg (all sample depths except 10 ft, 20 ft, 30 ft, 30 ft duplicate, and 78 ft) to 0.73 mg/kg (30 ft), 1.0 mg/kg (447 ft) to 4.8 mg/kg (250 ft), 31.2 mg/kg (121 ft) to 225 mg/kg (447 ft), 0.15 mg/kg (all sample depths except 10 ft, 10 ft duplicate, 50 ft, 447 ft, and 486 ft) to 0.81 mg/kg (10 ft duplicate), and 0.0363 mg/kg (10 ft, 10 ft duplicate, 41 ft, and 50 ft) to 0.61 mg/kg (70 ft), respectively. The action levels for silver, arsenic, barium, cadmium, and selenium are 400 mg/kg, 20 mg/kg, 6000 mg/kg, 80 mg/kg, and 400 mg/kg, respectively. These action levels are based on toxicity information contained in the IRIS database (EPA, 1995a). The soil ingestion equations provided in proposed RCRA Subpart S (55 FR 30870) were used to calculate the action levels.

The highest measured concentrations of thallium were detected at levels ranging from 0.0267 mg/kg (10 ft duplicate, 41 ft, and 50 ft) to 0.0379 mg/kg (all sample depths except 10 ft duplicate, 41 ft, and 50 ft). The particular thallium compound detected in the MW-4 soil samples was not identified in the analytical results. The IRIS database, for all thallium compounds listed, provides RFD's in the narrow range of 8×10^{-5} to 9×10^{-5} (EPA, 1995a). Based on the conservative value of 8×10^{-5}, an action level of 6 mg/kg was defined for thallium.

The highest measured concentrations of aluminum, cobalt, copper, manganese, vanadium, and zinc were detected at levels ranging from 2710 mg/kg (121 ft) to 15,900 mg/kg (546 ft), 0.25 mg/kg (200 ft duplicate) to 8.9 mg/kg (546 ft), 3.9 mg/kg (78 ft) to 15.9 (546 ft), 108 mg/kg (78 ft) to 579 mg/kg (50 ft), 11.4 mg/kg (121 ft) to 25.7 mg/kg (546 ft), and 16 mg/kg (121 ft) to 69.4 mg/kg (89 ft), respectively. Aluminum, cobalt, copper, manganese, vanadium, and zinc are not listed RCRA metals in 40 CFR 261 Appendix VIII, therefore they were not considered to be contaminants of concern. Although none of the metals discussed above exceeded action levels, the UTLs calculated for those metals are shown in Table 4.7-6.

Beryllium was the only metal measured in MW-4 soil samples in concentrations exceeding action levels. Table 4.7-8 presents the concentrations of beryllium measured at all sample depths. Of the 26 soil samples analyzed for beryllium, only three had concentrations below the proposed RCRA Subpart S action level of 0.2 mg/kg (0.19 mg/kg at 30 ft duplicate; 0.05 mg/kg at 100 ft; and 0.05 mg/kg at 121 ft). Using background data generated from a separate background soil sampling event conducted 600 feet west of the MWL in June 1994 (Section 3.4), a UTL was statistically calculated to compare background beryllium concentrations to the beryllium concentrations measured in MW-4 soil samples.

Table 4.7-7 Concentrations of Chromium in MW-4 Soil Samples

Sample Number	Sample Depth[a] (linear ft)	True Sample Depth[b] (ft bgs)	Total Chromium Concentration (mg/kg)	Chromium VI Concentration (mg/kg)	Chromium III Concentration (mg/kg)	Below Action Level[c,d]
ER92003639-3	10	10	8.6	ND	8.6	Y
ER92003639-3	10 dup	10 dup	34.3	ND	34.3	Y
ER92003643-3	20	20	13.6	ND	13.6	Y
ER92003646-3	30	30	10.2	ND	10.2	Y
ER92003646-3	30 dup	30 dup	9.2	ND	9.2	Y
ER92003649-3	41	41	14.8	ND	14.8	Y
ER92003652-3	50	50	13.7	ND	13.7	Y
ER92003655-3	70	70	6.7	ND	6.7	Y
ER92004042-2	78	78	5.9	ND	5.9	Y
ER92004043-2	89	89	9.3	ND	9.3	Y
ER92004031-2	100	99	5.6	0.14	5.46	Y
ER92004033-2	121	120	5.6	0.12	5.48	Y
ER92004036-2	140	139	13.2	ND	13.2	Y
ER92004037-2	160	159	13.6	ND	13.6	Y
ER92004040-2	180	179	23.5	ND	23.5	Y
ER92004041-2	200	199	14.1	ND	14.1	Y
ER92004030-2	200 dup	199 dup	10	0.1	9.9	Y
ER92004027-2	250	249	11.9	ND	11.9	Y
ER92004025-2	294	292	25.9	0.13	25.77	Y
ER92004024-2	294 dup	292 dup	13.8	0.23	13.57	Y
ER92004181-2	353	351	13.4	ND	13.4	Y
ER92004183-2	400	398	9.9	ND	9.9	Y
ER92004180-2	447	445	17.9	ND	17.9	Y
ER92004347-2	486	483	11.4	ND	11.4	Y
ER92004348-2	499	496	13.8	ND	13.8	Y
ER92004342-2	546	543	14.1	0.15	13.95	Y

(a) Depth reported is linear feet. Monitoring well was drilled at an angle of 6 degrees from vertical.
(b) Depth reported is actual feet bgs.
(c) Action level based on toxicity information contained in the IRIS database (EPA, 1995a) and a HI of 1. The soil ingestion equations provided in Subpart S (55 FR 30870) were used to calculate an action level of 80,000 mg/kg for chromium III.
(d) The proposed RCRA Subpart S action level for chromium VI in soils is 400 mg/kg (55 FR 30865).
dup Duplicate sample

Table 4.7-8 Concentrations of Beryllium in MW-4 Soil Samples

Sample Number	Sample Depth[a] (linear ft)	True Sample Depth[b] (ft bgs)	Beryllium Concentration (mg/kg)	Below Action Level[c] (0.2 mg/kg)	Below UTL[d] (0.82 mg/kg)
ER92003639-3	10	10	0.28	N	Y
ER92003639-3	10 dup	10 dup	0.32	N	Y
ER92003643-3	20	20	0.33	N	Y
ER92003646-3	30	30	0.26	N	Y
ER92003646-3	30 dup	30 dup	0.19	Y	Y
ER92003649-3	41	41	0.32	N	Y
ER92003652-3	50	50	0.33	N	Y
ER92003655-3	70	70	0.22	N	Y
ER92004042-2	78	78	0.33	N	Y
ER92004043-2	89	89	0.32	N	Y
ER92004031-2	100	99	0.05	Y	Y
ER92004033-2	121	120	0.05	Y	Y
ER92004036-2	140	139	0.38	N	Y
ER92004037-2	160	159	0.35	N	Y
ER92004040-2	180	179	0.41	N	Y
ER92004041-2	200	199	0.33	N	Y
ER92004030-2	200 dup	199 dup	0.34	N	Y
ER92004027-2	250	249	0.96	N	N
ER92004025-2	294	292	0.64	N	Y
ER92004024-2	294 dup	292 dup	0.71	N	Y
ER92004181-2	353	351	0.85	N	N
ER92004183-2	400	398	0.55	N	Y
ER92004180-2	447	445	0.94	N	N
ER92004347-2	486	483	0.69	N	Y
ER92004348-2	499	496	1	N	N
ER92004342-2	546	543	1.1	N	N

(a) Depth reported is linear feet. Monitoring well was drilled at an angle of 6 degrees from vertical.

(b) Depth reported is actual feet bgs.

(c) Proposed RCRA Subpart S action level for soils (55 FR 30865)

(d) The UTL is used to define background if the data set is normal or lognormal. The UTL establishes a concentration range that is constructed to contain a specified proportion of the population with a specified confidence. The EPA-recommended coverage of 95% and tolerance coefficient value of 95% was used to calculate the UTL (EPA, 1992).

The UTL calculated for beryllium was 0.82 mg/kg. Twenty-one of twenty-six soil samples collected from MW-4 contained concentrations of beryllium below the UTL. Soil samples obtained at 250 ft, 353 ft, 447 ft, 499 ft, and 546 ft all contained concentrations of beryllium exceeding the calculated UTL. To verify the concentrations of beryllium, archived core from MW-4 was resampled at the appropriate depths and submitted to General Engineering Laboratories Inc., South Carolina for beryllium reanalysis. The results of the reanalysis are presented in Table 4.7-9. Upon reanalysis, two of the five soil samples (250 ft and 499 ft) were found to contain beryllium concentrations below the UTL. The three other reanalyzed samples (353 ft, 447 ft, and 546 ft) still contained beryllium concentrations exceeding the UTL.

Figure 4.7-2 presents beryllium concentrations with depth in MW-4 soil samples and the 15 boreholes drilled around the perimeter of the landfill in 1995 (Section 4.8). Two distinct populations of beryllium concentrations are apparent: one from 9 ft to 199 ft bgs and the other from 249 ft to 543 ft. Concentrations of beryllium in the first population ranged from 0.05 mg/kg to 0.605 mg/kg and the concentrations of beryllium in the second population ranged from 0.55 mg/kg to 1.43 mg/kg.

Particle-size analyses of MW-4 soil samples and Boreholes 1 through 15 are presented in Section 6.3.3. In general, silt and clay percentages increase with depth, and relatively high percentages of silt and clay predominate below depths of 250 ft bgs. Figure 4.7-2 indicates that the higher concentrations of beryllium are present in the finer-grained sediments at depths below 250 ft bgs. The bimodal distribution of beryllium concentrations represented in Figure 4.7-2 may represent two different source areas for beryllium. The fine-grained fluvial sediments deposited at depths below 250 ft bgs may represent ancestral Rio Grande sediments and the coarse-grained alluvial fan sediments above 250 ft may represent rift sediments from the eastern highlands of the Sandia and Manzano Mountains.

4.7.2.5 Radiochemistry

The radiochemical results for MW-4 soil samples are presented in Table 4.7-10. The sample number, sample depth (linear borehole depth and true depth), radionuclide, activity, and the 2-sigma uncertainty are given. Plutonium-238, Plutonium-239/240, and tritium were detected in MW-4 soil samples. All other analyses performed on MW-4 soil samples for isotopic thorium and uranium and gross alpha/beta were within the range of normal background.

4.7.2.6 Tritium

Tritium activities with depth are presented in Table 4.7-11. The table shows the sample depth (linear borehole depth and true depth), activity, and the moisture content. Of the 31 soil samples collected and analyzed for tritium, 20 were non-detect. Tritium was detected in soil samples from 5 ft, 10 ft, 10 ft duplicate, 15 ft, 20 ft, 35 ft, 121 ft, 160 ft, 400 ft, 486 ft, and 499 ft. Activities ranged from 0.09 pCi/g at 400 ft to 1.1 pCi/g at 5 ft. The highest levels of tritium were encountered in the upper 15 ft of the borehole. Tritium activities in the upper 15 ft ranged from 0.3 pCi/g to 1.1 pCi/g. In the seven remaining sample depths at which tritium was detected, activities were all below 0.23 pCi/g.

Table 4.7-9 Beryllium Reanalysis from Selected MW-4 Soil Samples

Sample Number	Sample Depth[a] (linear ft)	True Sample Depth[b] (ft bgs)	Beryllium Concentration (mg/kg)	Below Action Level[c] (0.2 mg/kg)	Below UTL[d] (0.82 mg/kg)
ER92004027-2	250	249	0.96	N	N
027251-01 (Reanalysis of ER92004027-2)	250	249	0.8	N	Y
ER92004181-2	353	351	0.85	N	N
027251-02 (Reanalysis of ER92004181-2)	353	351	0.84	N	N
ER92004180-2	447	445	0.94	N	N
027251-03 (Reanalysis of ER92004180-2)	447	445	1.43	N	N
ER92004348-2	499	496	1	N	N
027251-04 (Reanalysis of ER92004348-2)	499	496	0.62	N	Y
ER92004342-2	546	543	1.1	N	N
027251-05 (Reanalysis of ER92004342-2)	546	543	1.04	N	N

(a) Depth reported is linear feet. Monitoring well was drilled at an angle of 6 degrees from vertical.

(b) Depth reported is actual feet bgs.

(c) Proposed RCRA Subpart S action level for soils (55 FR 30865)

(d) The UTL is used to define background if the data set is normal or lognormal. The UTL establishes a concentration range that is constructed to contain a specified proportion of the population with a specified confidence. The EPA-recommended coverage of 95% and tolerance coefficient value of 95% was used to calculate the UTL (EPA, 1992).

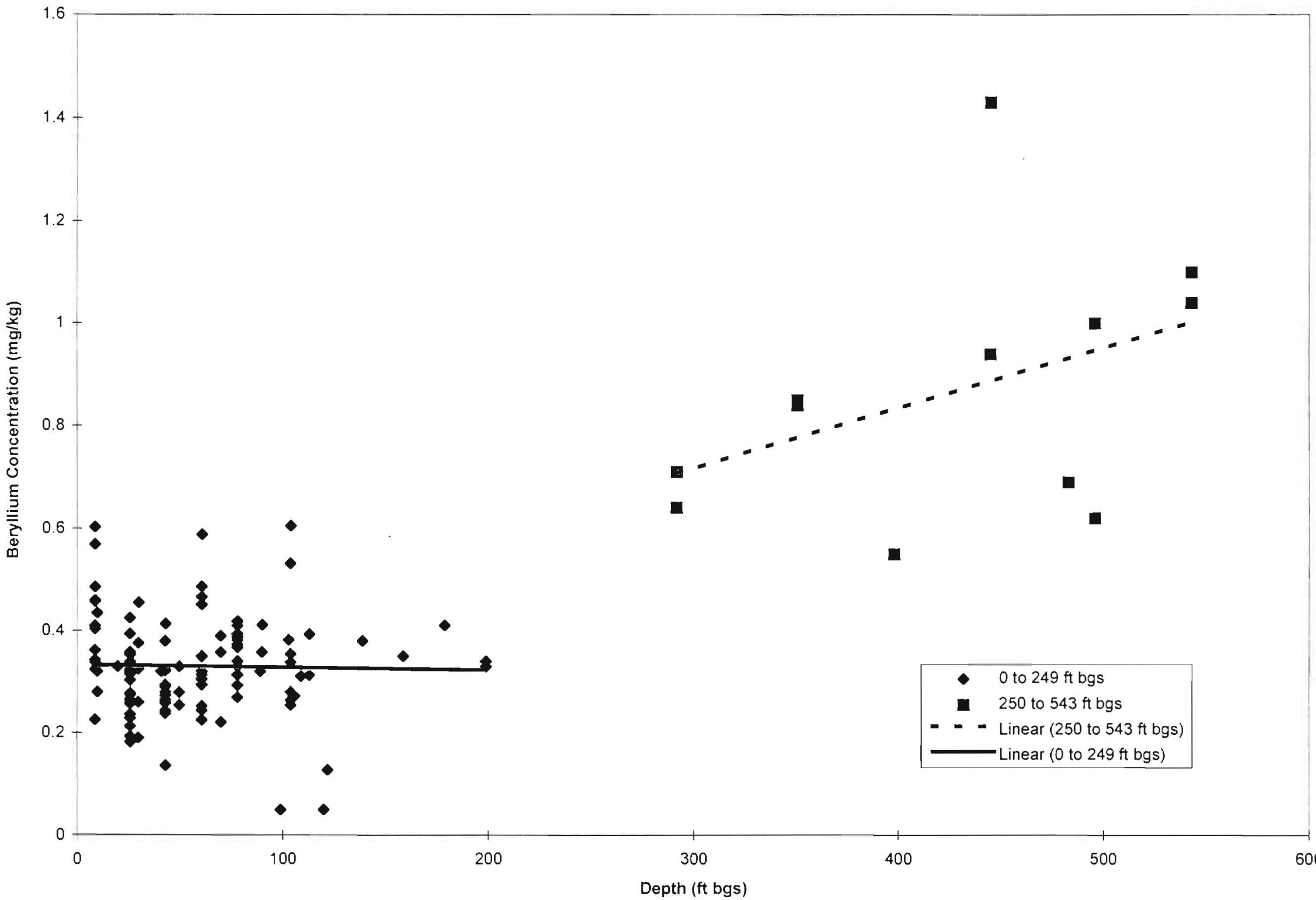


Figure 4.7-2 Beryllium Concentrations with Depth

Table 4.7-10 MW-4 Radiochemical Analytical Results

Sample Number	Sample Depth[a] (linear ft)	True Sample Depth[b] (ft bgs)	Radionuclide	Activity (pCi/g)	2-Sigma Uncertainty (pCi/g)
ER92003638-1	5	5	Tritium	1.1	+/- 0.3
ER92003639-4	10	10	Tritium	0.3	+/- 0.3
ER92003639-4	10 dup	10 dup	Tritium	0.3	+/- 0.3
ER92003641-1	15	15	Tritium	0.7	+/- 0.3
ER92003643-4	20	20	Tritium	0.1	+/- 0.3
ER92003645-1	25	25	ND	-	-
ER92003646-4	30	30	ND	-	-
ER92003646-4	30 dup	30 dup	ND	-	-
ER92003648-1	35	35	Tritium	0.1	+/- 0.3
ER92003649-4	41	41	ND	-	-
ER92003651-1	45	45	ND	-	-
ER92003652-3	50	50	Pu-238	0.04	+/- 0.04
			Pu-239/240	0.01	+/- 0.02
ER92003655-4	70	70	Pu-238	0.05	+/- 0.03
			Pu-239/240	0.06	+/- 0.03
ER92004042-3	78	78	ND	-	-
ER92004043-3	89	89	Pu-238	0.03	+/- 0.04
			Pu-239/240	0.01	+/- 0.02
ER92004031-3	100	99	ND	-	-
ER92004033-3	121	120	Tritium	0.1	+/- 0.3
ER92004036-3	140	139	Pu-238	0.003	+/- 0.009
ER92004037-3	160	159	Tritium	0.1	+/- 0.3
ER92004040-3	180	179	ND	-	-
ER92004041-3	200	199	Pu-238	0.003	+/- 0.014
			Pu-239/240	0.0025	+/- 0.0076
ER92004030-3	200 dup	199 dup	ND	-	-
ER92004027-3	250	249	ND	-	-
ER92004025-3	294	292	ND	-	-
ER92004024-3	294 dup	292 dup	ND	-	-
ER92004181-3	353	351	ND	-	-
ER92004183-3	400	398	Tritium	0.09	+/- 0.27
ER92004180-3	447	445	ND	-	-
ER92004347-3	486	483	Tritium	0.17	+/- 0.37
ER92004348-3	499	496	Tritium	0.23	+/- 0.31
			Pu-238	0.01	+/- 0.11
			Pu-239/240	0.06	+/- 0.11
ER92004342-3	546	543	Pu-239/240	0.064	+/- 0.072

(a) Depth reported is linear feet. Monitoring well was drilled at an angle of 6 degrees from vertical.
(b) Depth reported is actual feet bgs.

Table 4.7-11 Tritium Activity with Depth for MW-4 Soil Samples

Sample Depth[a] (linear ft)	True Sample Depth[b] (ft bgs)	Tritium Activity (pCi/g)	Moisture Content (%)
5	5	1.1	6.1
10	10	0.3	1.2
10 dup	10 dup	0.3	1.2
15	15	0.7	4.9
20	20	0.1	2
25	25	ND	1.2
30	30	ND	13.6
30 dup	30 dup	ND	13.6
35	35	0.1	3.2
41	41	ND	1.1
45	45	ND	2.6
50	50	ND	1
70	70	ND	1.7
78	78	ND	5.3
89	89	ND	1.6
100	99	ND	2.9
121	120	0.1	0.9
140	139	ND	3.6
160	159	0.1	4.5
180	179	ND	2.5
200	199	ND	1.8
200 dup	199 dup	ND	2.2
250	249	ND	15.9
294	292	ND	7.5
294 dup	292 dup	ND	5.9
353	351	ND	10.6
400	398	0.09	11.7
447	445	ND	3.1
486	483	0.17	NS
499	496	0.23	NS
546	543	ND	NS

(a) Depth reported is linear feet. Monitoring well was drilled at an angle of 6 degrees from vertical.
(b) Depth reported is actual feet bgs.
ND Tritium was not detected above minimum detectable activity.
dup Duplicate sample
NS No sample collected for analysis

No proposed RCRA Subpart S action levels exist for radionuclides in soil. As a result, the tritium levels from the MW-4 drilling program were compared to background tritium levels. To determine local background levels for tritium, soil sampling was conducted 600 feet west of the MWL in June 1994 (Section 3.4). Samples were collected at depths of 6 ft and 12 ft in ten soil borings. A total of 20 samples and two duplicates were collected. Local background tritium results are presented in Table 4.6-9. Background tritium activities ranged from 0.004 pCi/g to 0.042 pCi/g, and were well below tritium activities measured in MW-4 soil samples.

4.7.2.7 Plutonium-238 and Plutonium-239/240

Plutonium-238 and plutonium-239/240 were detected above critical levels in six soil samples from MW-4. Plutonium-238 was present at 50 ft, 70 ft, 89 ft, 140 ft, 200 ft, and 499 ft. Activities ranged from 0.003 pCi/g (140 ft and 200 ft) to 0.05 pCi/g (70 ft). Plutonium-239/240 was present at 50 ft, 70 ft, 89 ft, 200 ft, 499 ft, and 546 ft. Activities ranged from 0.0025 pCi/g (200 ft) to 0.064 pCi/g (546 ft).

When MW-4 soil samples were analyzed, Quanterra, formerly Enseco, had just begun operation of their mixed waste laboratory. No established track record of data quality performance had yet been established. Standard operating procedures for radiochemistry analysis were still in development and the data reporting system was under development. Due to the complexity of radiochemistry data reporting, the Laboratory Information Management System could not be used for reporting the quality control data associated with the laboratory batches. Therefore, the data available at this time is limited. Due to the potential for other naturally-occurring isotopes to interfere with the plutonium analysis, and the unavailability of the data for further evaluation, it is not possible to discount contamination during sample preparation as a cause for the detected activity.

Plutonium has not been detected at the MWL in any of the Phase 1 RFI or Phase 2 RFI site characterization activities to date. NESHAPS air monitoring, groundwater sampling, surface soil sampling, and borehole subsurface soil sampling events have all failed to show the presence of any plutonium in the analytical results. Due to the lack of any analytical data to support the presence of plutonium at the MWL and the problems associated with laboratory quality control data, the data reported by Quanterra Inc. is considered questionable, and has been discounted.

4.7.3 MW-4 Drilling Summary

VOC and SVOC concentrations detected during installation of MW-4 were all below either proposed RCRA Subpart S action levels or action levels generated from toxicity information contained in EPA's IRIS database or the HEAST.

The concentrations of all metals detected were below action levels, with the exception of beryllium. Of the 26 soil samples analyzed for beryllium, only three had concentrations below the RCRA proposed Subpart S action level. Three of the 26 samples contained concentrations of beryllium that exceeded the statistically-determined UTL. The concentrations of beryllium in the three MW-4 soil samples that exceeded the UTL (353 ft, 447 ft, and 546 ft) are believed to be a natural feature associated with ancestral Rio Grande fluvial facies. The results of the statistical tests performed on the MW-4 soil data are presented in Table 4.7-12.

Table 4.7-12 Summary of Statistical Tests Performed on MW-4 Soil Sample Data

Analyte	Comparison	Statistical Tests				Exceeds UTL or 95th %	Exceeds Action Level
				T-Test			
		Quantile	Wilcoxon Rank Sum	Equal Variance	Nonequal Variance		
Aluminum	BKG vs MW-4	F	P	P	P	Y	-[b]
Antimony	BKG vs MW-4	P	F	NA	NA	Y	N
Arsenic	BKG vs MW-4	P	P	P	P	Y	N
Barium	BKG vs MW-4	P	P	P	P	N	N
Beryllium	BKG vs MW-4	F	P	P	P	Y	Y
Cadmium	BKG vs MW-4	P	P	NA	NA	N	N
Calcium	BKG vs MW-4	P	P	P	P	Y	-[c]
Chromium	BKG vs MW-4	F	F	F	F	Y	N
Cobalt	BKG vs MW-4	F	F	P	P	Y	-[b]
Copper	BKG vs MW-4	F	F	F	F	Y	-[b]
Iron	BKG vs MW-4	F	F	F	F	Y	-[c]
Lead	BKG vs MW-4	F	P	P	P	Y	N
Magnesium	BKG vs MW-4	F	P	P	P	Y	-[c]
Manganese	BKG vs MW-4	F	F	F	F	Y	-[b]
Mercury[a]	BKG vs MW-4	-	-	-	-	-	-
Nickel	BKG vs MW-4	F	F	F	F	Y	N
Potassium	BKG vs MW-4	F	P	P	P	Y	-[c]
Selenium[a]	BKG vs MW-4	-	-	-	-	-	-
Silver[a]	BKG vs MW-4	-	-	-	-	-	-
Sodium	BKG vs MW-4	P	P	NA	NA	N	-[c]
Thallium[a]	BKG vs MW-4	-	-	-	-	-	-
Vanadium	BKG vs MW-4	P	F	F	F	Y	-[b]
Zinc	BKG vs MW-4	F	F	F	F	Y	-[b]

(a) The number of non-detects in the background soil samples precluded the use of statistical analysis.
(b) Metal is not listed as a RCRA constituent (40 CFR 261 Appendix VIII).
(c) Metal is considered an essential nutrient as described in RAGS (EPA, 1989).
P Data set for specified analyte passes statistical test when compared to background.
F Data set for specified analyte fails statistical test when compared to background.
NA T-test was not performed because data set is non-parametric.
BKG Background analytical data
MW-4 Borehole analytical data from MW-4

All borehole soil samples analyzed for isotopic uranium and thorium, and gross alpha/beta were below natural background levels for SNL,NM. Six reported values of plutonium were discounted based upon the lack of analytical data to support the presence of plutonium at the MWL and the problems associated with laboratory quality control data. Tritium was reported in 11 of 31 soil samples from MW-4. In all 11 soil samples, it was present in activities exceeding background levels that were established for the MWL during a separate sampling event. The highest tritium activity was detected at 5 ft (1.1 pCi/g).

5. GROUNDWATER MONITORING

Groundwater monitoring at the MWL was initiated in September 1990 and continues to the present. Monitoring was conducted quarterly from September 1990 through January 1992. In January 1992, quarterly monitoring was converted to semi-annual monitoring. Monitoring is currently conducted in April and October of each calendar year.

Groundwater monitoring is conducted in accordance with the requirements set forth in Section R3d(1) of SNL,NM's HSWA Part B Operating Permit. Section R3d(1) states that at a minimum, the RFI should determine the horizontal and vertical extent of any contaminant plumes originating from the MWL; the horizontal and vertical direction and velocity of contaminant migration; the factors influencing contaminant migration; and extrapolation of future contaminant movement. Groundwater sampling and analysis is conducted in accordance with the MWL site-specific sampling and analysis plan (SNL,NM, 1994c). Monitoring is conducted for major anions and cations, VOCs, SVOCs, TAL metals, and select radionuclides.

The MWL monitoring well network was installed to detect potential contaminant releases to groundwater. The network was originally intended to comply with 40 CFR 265, Subpart F of RCRA and Section 206 of the Interim State Groundwater Monitoring Requirements of the New Mexico Hazardous Waste Regulations (HWMR-4). These requirements pertain to detecting releases of regulated, hazardous wastes to groundwater.

A review of the regulations demonstrated that the MWL is regulated as a Solid Waste Management Unit, and that groundwater monitoring at the MWL must comply with 40 CFR 264.101, Corrective Action for Solid Waste Management Units. Hence, the MWL is not a "regulated unit" under 40 CFR 264.90 9a (2) and therefore, the groundwater monitoring requirements of 40 CFR 264.91-264.100 are not applicable (Davis, 1994).

The adequacy of the MWL monitoring well network was evaluated using numerical contaminant transport modeling, and the network was found to be adequate for detecting potential groundwater contamination originating from the landfill. Further information on the MWL monitoring well network evaluation is presented in Section 5.6.

5.1 Monitoring Well Network

The current MWL monitoring well network consists of five wells. The locations of these wells are shown in Figure 5.1-1. Monitoring wells BW-1, MW-1, MW-2, and MW-3 were installed in a one-up, three-down configuration, respectively, based on the regional groundwater gradient in 1988. MW-1 was installed in October 1988 and BW-1, MW-2, and MW-3 were installed between June and September 1989. Monitoring well MW-4 was installed between December 1992 and February 1993. MW-4 was installed in the northern unclassified area of the landfill to sample soils and groundwater directly beneath Trench D. In 1967, approximately 271,000 gallons of coolant waste water from the Sandia Engineering Reactor Facility were disposed of in Trench D (Section 4.7).

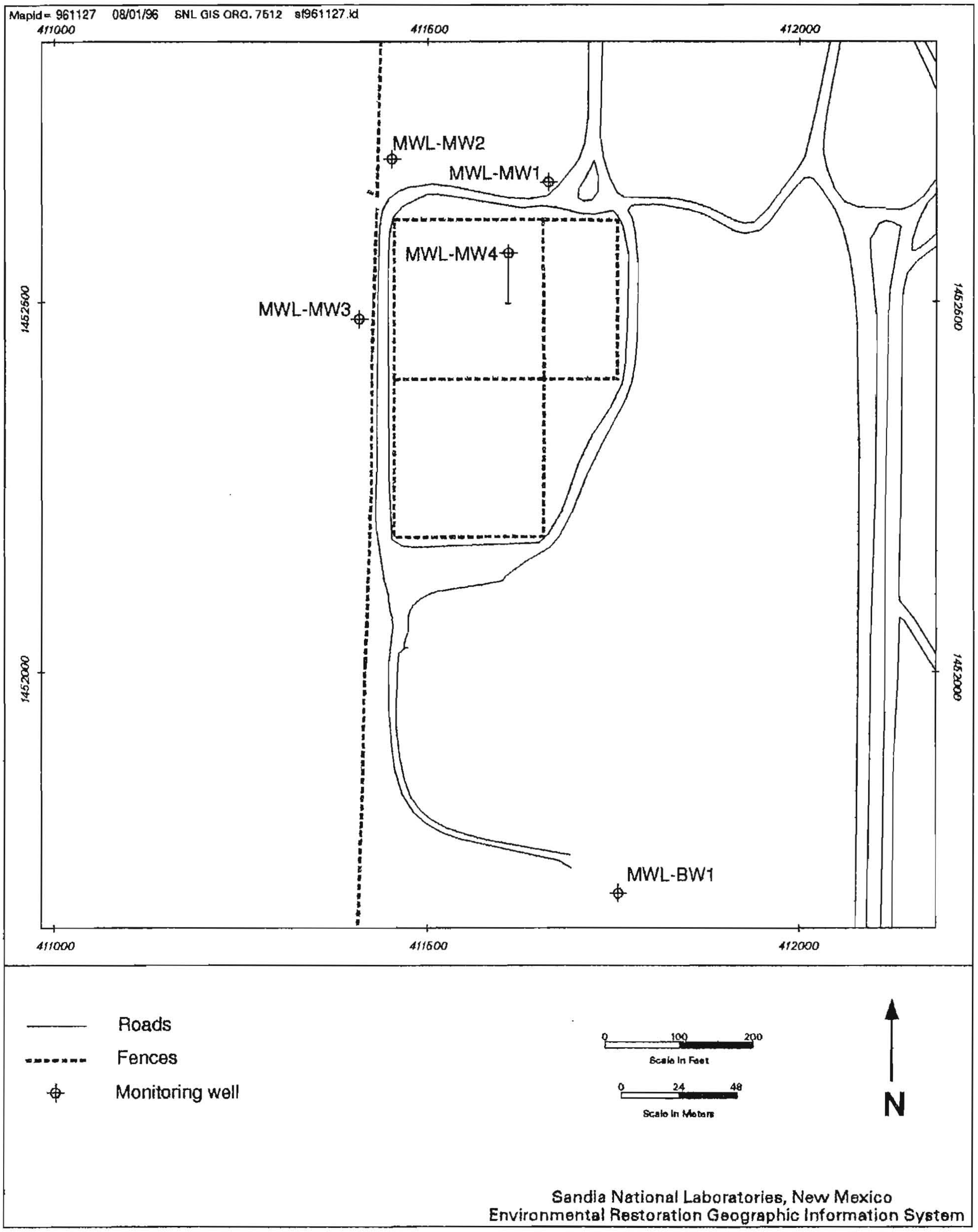


Figure 5.1-1 Location of MWL Monitoring Wells

5.2 Monitoring Well Completion

MW-1 was drilled using air-rotary casing hammer. The well is screened between 456 ft and 476 ft bgs. BW-1, MW-2, and MW-3 were drilled using mud-rotary. BW-1 and MW-2 are screened between 452 ft and 472 ft bgs. MW-3 is screened between 451 ft and 471 ft bgs. Well completion diagrams for these monitoring wells are presented in Figures 5.2-1 through 5.2-4.

MW-4 was installed using resonant sonic drilling. MW-4 was drilled at a 6° angle from vertical directly beneath Trench D. MW-4 is screened between 482.5 ft and 502.5 ft bgs and between 522.5 ft and 542.5 ft bgs. The screened zones are separated by an inflatable packer. MW-4 was completed in two zones to evaluate vertical anisotropy and the changes in aquifer parameters with depth. The well completion diagram for MW-4 is presented in Figure 5.2-5.

5.3 Regional Potentiometric Surface

Depth to groundwater beneath KAFB varies from less than 50 ft bgs east of Hubbell spring and the Tijeras and Sandia faults, to greater than 500 ft bgs west of the Tijeras and Sandia faults. Figure 5.3-1 presents the regional potentiometric surface map for KAFB in October 1995. This map was constructed using regional static water level data representative of the unconfined water table.

The regional potentiometric surface map indicates that the groundwater flow at KAFB is presently west/northwest. In 1961, Bjorklund and Maxwell reported that groundwater flow was to the west/southwest. This marked change in flow direction over the past 35 years may be due to groundwater pumping of KAFB and City of Albuquerque production wells. Pumping of these wells may have created a cone of depression in the potentiometric surface in the northwestern portion of KAFB.

5.3.1 Monitoring Well Hydrographs

Production from regional water-supply wells has caused groundwater levels beneath much of KAFB to decline, including TA 3. Figure 5.3-2 depicts the annual groundwater level decline in the regional aquifer beneath KAFB in 1995. Groundwater level decline is greatest in the northwest portion of KAFB. Figure 5.3-3 presents a hydrograph for three regional monitoring wells in TA 3: NW-TA3, SW-TA3, and KAFB-10. Water levels in NW-TA3 and SW-TA3 are declining approximately 2 ft/yr, while water levels in the recently abandoned KAFB-10 production well were declining 1 ft/yr prior to well abandonment in April 1996. The rate of decline in these wells varies due to aquifer lithologic heterogeneities, proximity to active production wells, and differences in well depth and screen length.

Figure 5.3-4 presents a hydrograph for MW-1, MW-2, MW-3, and BW-1. The average water level decline for these monitoring wells over this period of time is 0.81 ft/yr. Automated hourly readings of water levels in these monitoring wells were obtained from September 1991 through August 1995 using pressure transducers. A subset of these data are presented in Figure 5.3-5. These data clearly show the steady decline in MWL monitoring well water levels in 1995. Semi-annual sampling events are visible as sharp negative fluctuations in the data.

WELL DATABASE SUMMARY SHEET

Project Name:	MIXED WASTE LANDFILL	**Geo Location:**	MIXED WASTE LANDFILL
ER ADS #:	1289	**Well Completion Date:**	01-OCT-88
Well Name:	MWL-MW1	**Completion Zone:**	SILTY SAND
Owner Name:	SNL	**Formation of Completion:**	SANTA FE GROUP
Date Drilling Started:		**Well Comment:**	BOREHOLE DIAM IS 14" TO 200' - 10" TO 478.67 - WATER LEV ELEV 8/16/90
Drilling Contractor:	WATER DEVELOPMENT		
Drilling Method:	AIR ROTARY		
Borehole Depth:	478.67		
Casing Depth:	478		

Survey Data

Survey Date: 01-JAN-90

Surveyed By:

State Plane Coordinates

(X) Easting: 411661.747

(Y) Northing: 1452661.099

Surveyed Elevations (FAMSL)

Protective Casing:

Top of Inner Well Casing: 5381.54

Concrete Pad: 5379.11

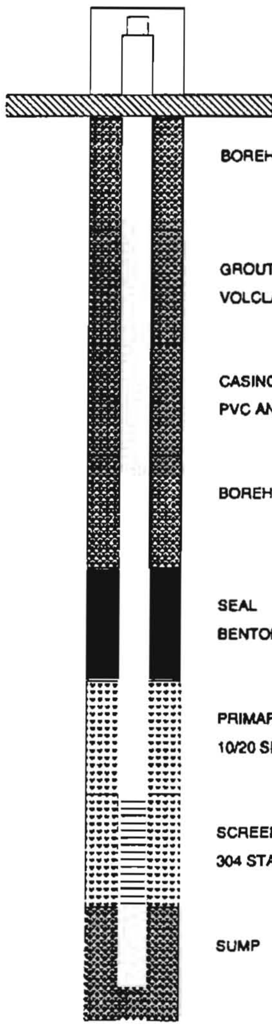
Ground Surface: 5381.54

N

Calculated Depths and Elevations

Initial Water Elevation: (FAMSL) 4923.36

Initial Depth To Water: (FBGS) 458.16



Completion Data Measured Depths (FBGS)

Casing Stickup:

Interval		Start	Stop
BOREHOLE		0'	200'
		O.D.	14"
GROUT/BACKFILL VOLCLAY		0'	434.9'
CASING PVC AND STEEL	I.D. 5"	0'	478'
BOREHOLE		200'	478.67'
		O.D.	10"
SEAL BENTONITE PELLETS		434.9'	445.5'
PRIMARY PACK 10/20 SILICA SAND		445.5'	478.67'
SCREEN 304 STAINLESS STEEL		456'	476'
		Slot Size	.01"
SUMP		476'	478'

Figure 5.2-1 Well Completion Diagram for MW-1

WELL DATABASE SUMMARY SHEET

Project Name:	MIXED WASTE LANDFILL	**Geo Location:**	TA III
ER ADS #:	1289	**Well Completion Date:**	01-JUL-89
Well Name:	MWL-BW1	**Completion Zone:**	SAND AND GRAVEL
Owner Name:	SNL	**Formation of Completion:**	SANTA FE
Date Drilling Started:	24-JUN-89	**Well Comment:**	WATER LEVEL MEASURED ON 5/14/90
Drilling Contractor:	STEWART BROTHERS		
Drilling Method:	MUD ROTARY		
Borehole Depth:	519		
Casing Depth:	477.17		

Survey Data

Survey Date: 12-APR-90

Surveyed By:

State Plane Coordinates

(X) Easting: 411756.001

(Y) Northing: 1451698.73

Surveyed Elevations (FAMSL)

Protective Casing:

Top of Inner Well Casing: 5384.51

Concrete Pad: 5382.7

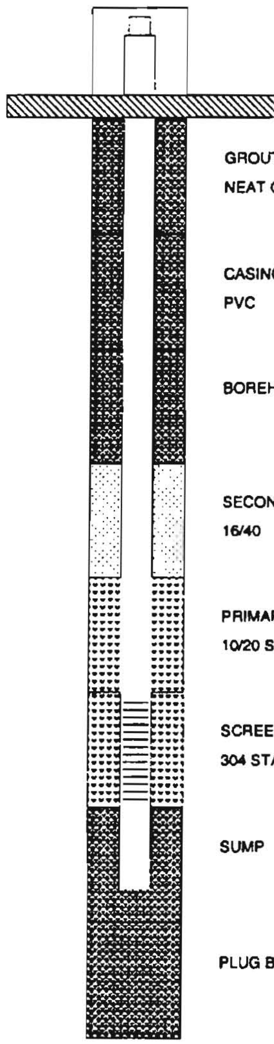
Ground Surface: 5384.51

N

Calculated Depths and Elevations

Initial Water Elevation: (FAMSL) 4923.3

Initial Depth To Water: (FBGS) 461.21



Completion Data Measured Depths (FBGS)

Casing Stickup:

Interval		**Start**	**Stop**
GROUT/BACKFILL		0'	433'
NEAT CEMENT			
Interval		**Start**	**Stop**
CASING		0'	477.17'
PVC	I.D.	5"	
Interval		**Start**	**Stop**
BOREHOLE		0'	519'
		O.D.	12.25"
Interval		**Start**	**Stop**
SECONDARY PACK		441'	443'
16/40			
Interval		**Start**	**Stop**
PRIMARY PACK		443'	478'
10/20 SAND			
Interval		**Start**	**Stop**
SCREEN		452.17'	472.17'
304 STAINLESS STEEL			
		Slot Size	.01"
Interval		**Start**	**Stop**
SUMP		472.17'	477.17'
Interval		**Start**	**Stop**
PLUG BACK		477.17'	519'

Figure 5.2-2 Well Completion Diagram for BW-1

WELL DATABASE SUMMARY SHEET

Project Name:	MIXED WASTE LANDFILL	**Geo Location:**	TA III
ER ADS #:	1289	**Well Completion Date:**	01-AUG-89
Well Name:	MWL-MW2	**Completion Zone:**	SAND
Owner Name:	SNL	**Formation of Completion:**	SANTA FE
Date Drilling Started:	21-JUL-89	**Well Comment:**	WATER LEVEL MEASURED ON 5/14/90
Drilling Contractor:	STEWART BROTHERS		
Drilling Method:	MUD ROTARY		
Borehole Depth:	521		
Casing Depth:	477		

Survey Data

Survey Date: 12-APR-90

Surveyed By:

State Plane Coordinates

(X) Easting: 411451.366

(Y) Northing: 1452692.592

Surveyed Elevations (FAMSL)

Protective Casing:

Top of Inner Well Casing: 5377.26

Concrete Pad: 5375.71

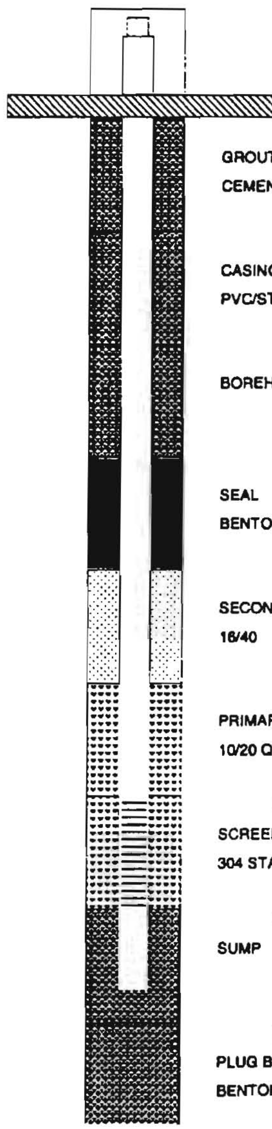
Ground Surface: 5377.26

N

Calculated Depths and Elevations

Initial Water Elevation: (FAMSL) 4923.27

Initial Depth To Water: (FBGS) 453.99



Completion Data Measured Depths (FBGS)

Casing Stickup:

Interval		Start	Stop
GROUT/BACKFILL		0'	430'
CEMENT/BENTONITE			
CASING		0'	477'
PVC/STAINLESS STEEL	I.D.	5"	
BOREHOLE		0'	521'
	O.D.		12.25"
SEAL		431'	442'
BENTONITE			
SECONDARY PACK		442'	444'
16/40			
PRIMARY PACK		444'	477'
10/20 QUARTZ SAND			
SCREEN		452'	472'
304 STAINLESS STEEL			
	Slot Size		.01"
SUMP		472'	477'
PLUG BACK		477'	521'
BENTONITE			

Figure 5.2-3 Well Completion Diagram for MW-2

WELL DATABASE SUMMARY SHEET

Project Name:	MIXED WASTE LANDFILL	**Geo Location:**	TA-III
ER ADS #:	1269	**Well Completion Date:**	22-AUG-89
Well Name:	MWL-MW3	**Completion Zone:**	SAND
Owner Name:	SNL	**Formation of Completion:**	SANTA FE
Date Drilling Started:	20-AUG-89	**Well Comment:**	BOREHOLE TD AT 501', BACKFILL WITH .4 BENTONITE/CEMENT PLUG TO 478' ABOUT 1' OF 16/40 FN SIL SAND AT TOP OF FILTER PACK
Drilling Contractor:	STEWART BROTHERS		
Drilling Method:	MUD ROTARY		
Borehole Depth:	501		
Casing Depth:	478.8		

Survey Data

Survey Date: 16-AUG-90

Surveyed By: SNL

State Plane Coordinates

(X) Easting: 411407.995

(Y) Northing: 1452476.617

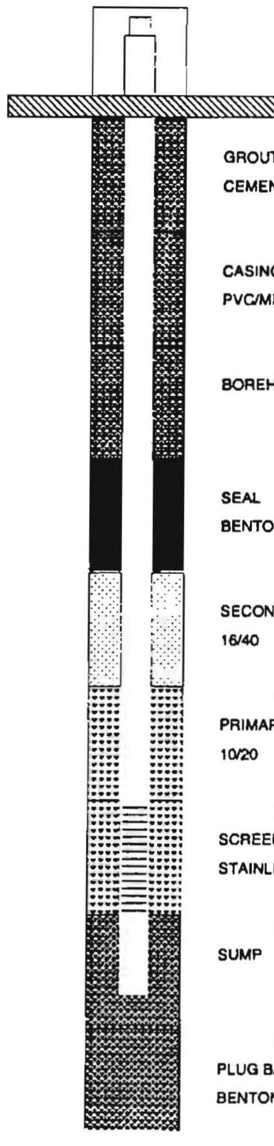
Surveyed Elevations (FAMSL)

Protective Casing:

Top of Inner Well Casing:	5381.32
Concrete Pad:	5378.97
Ground Surface:	5381.32

Calculated Depths and Elevations

Initial Water Elevation: (FAMSL)	4921.1
Initial Depth To Water: (FBGS)	460.22



Completion Data Measured Depths (FBGS)

Casing Stickup:

Interval	Start	Stop
GROUT/BACKFILL CEMENT/BENTONITE	0'	429'
CASING PVC/METAL	0'	478.8'
	O.D.	5"
BOREHOLE	0'	501'
	O.D.	12.25"
SEAL BENTONITE	429'	444'
SECONDARY PACK 16/40	444'	446'
PRIMARY PACK 10/20	446'	476'
SCREEN STAINLESS STEEL	451.3'	471.3'
	Slot Size	.01"
SUMP	471.3'	476.3'
PLUG BACK BENTONITE	479'	501'

Figure 5.2-4 Well Completion Diagram for MW-3

WELL DATABASE SUMMARY SHEET

Project Name:	MIXED WASTE LANDFILL	**Geo Location:**	TA III
ER ADS #:	1289	**Well Completion Date:**	10-FEB-93
Well Name:	MWL-MW4	**Completion Zone:**	FINE MEDIUM SAND/GRAVELLY SAND
Owner Name:	SNL	**Formation of Completion:**	SANTA FE GROUP
Date Drilling Started:	16-DEC-92	**Well Comment:**	2 SCREENED INTERVALS
Drilling Contractor:			
Drilling Method:	SONIC/DRY		
Borehole Depth:	552.5		
Casing Depth:	548		

Survey Data

Survey Date: 15-MAY-94

Surveyed By: GREINER,INC.

State Plane Coordinates

(X) Easting: 411608.044

(Y) Northing: 1452565.255

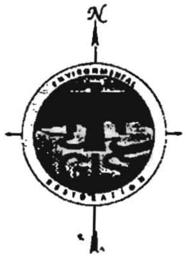
Surveyed Elevations (FAMSL)

Protective Casing: 5383.461

Top of Inner Well Casing:

Concrete Pad:

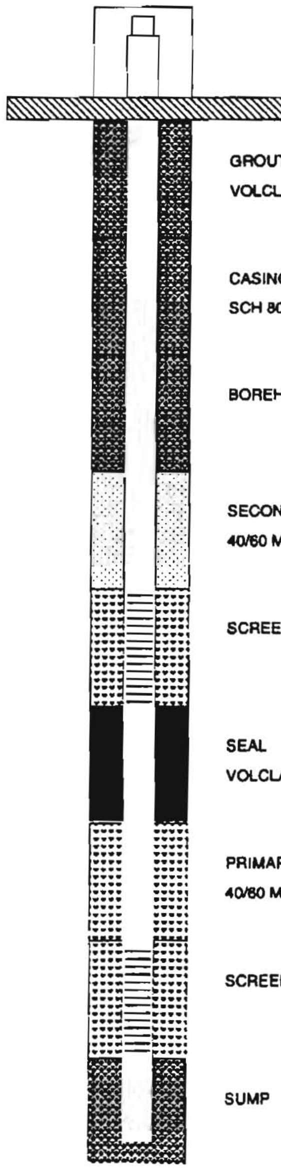
Ground Surface: 5381.605



Calculated Depths and Elevations

Initial Water Elevation: (FAMSL)

Initial Depth To Water: (FBGS) 487



Completion Data Measured Depths (FBGS)

Casing Stickup:

Interval		Start		Stop
GROUT/BACKFILL VOLCLAY		0'		473'
CASING SCH 80 PVC		0'		548'
	I.D.	4.768"	O.D.	5.563"
BOREHOLE		0'		552.5'
			O.D.	11"
SECONDARY PACK 40/60 MESH		473'		508'
SCREEN		482.5'		502.5'
	Slot Size			.01"
SEAL VOLCLAY/BENTONITE		503'		520'
PRIMARY PACK 40/60 MESH		520'		552.5'
SCREEN		522.5'		542.5'
	Slot Size			.01"
SUMP		542.5'		548'

Figure 5.2-5 Well Completion Diagram for MW-4

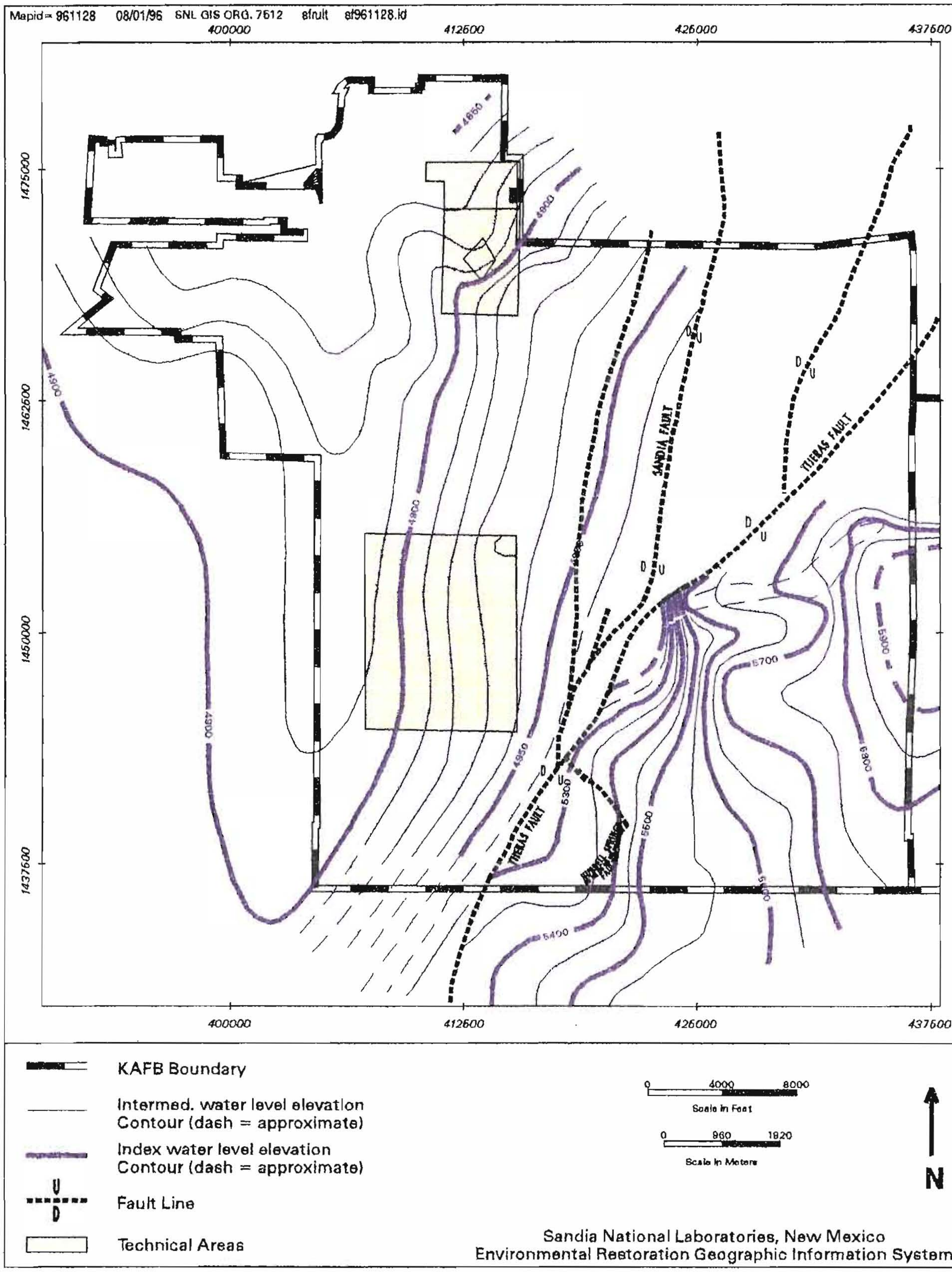


Figure 5.3-1 Regional Potentiometric Surface Map for KAFB, October 1995

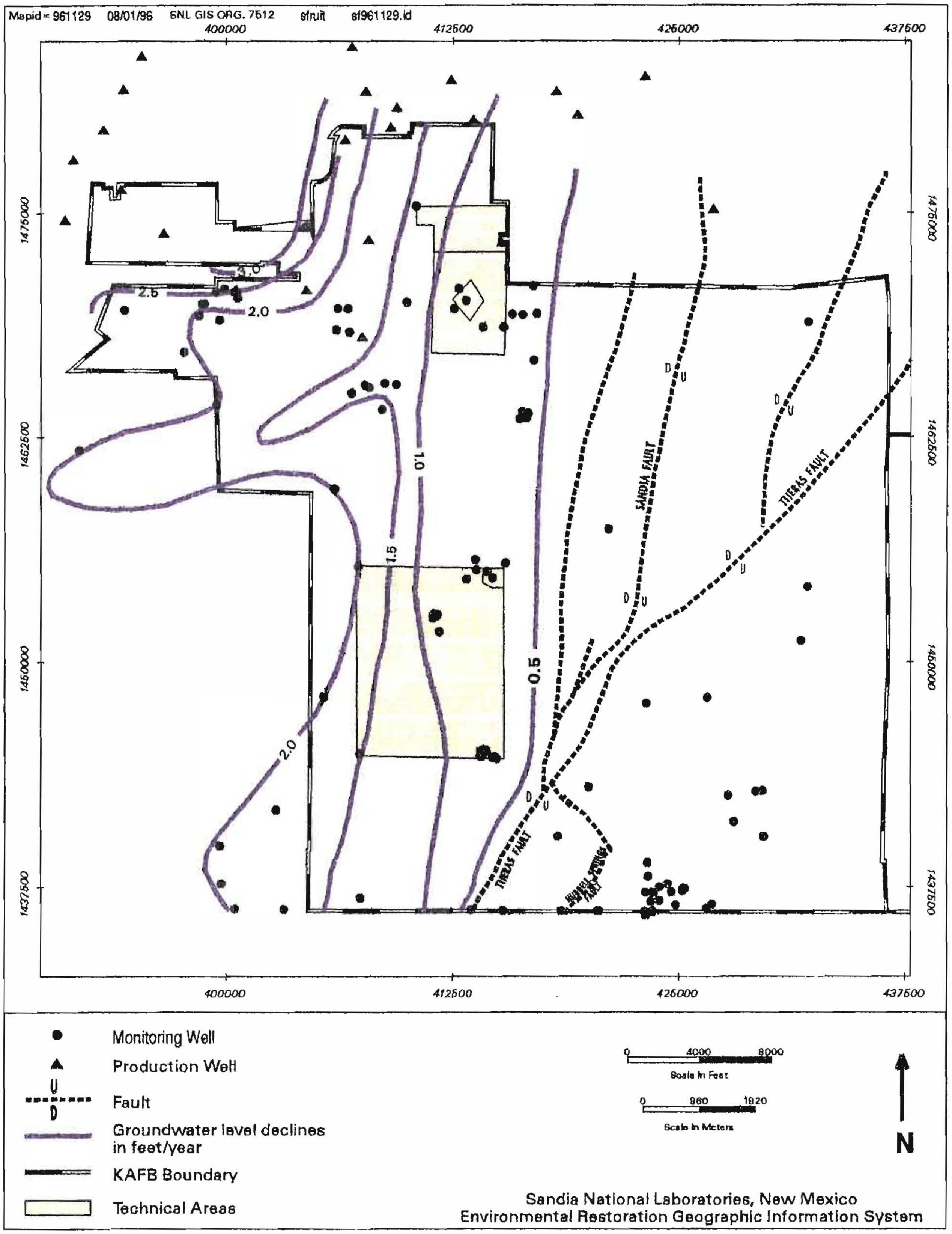


Figure 5.3-2 Annual Groundwater Level Decline in the KAFB Aquifer in 1995

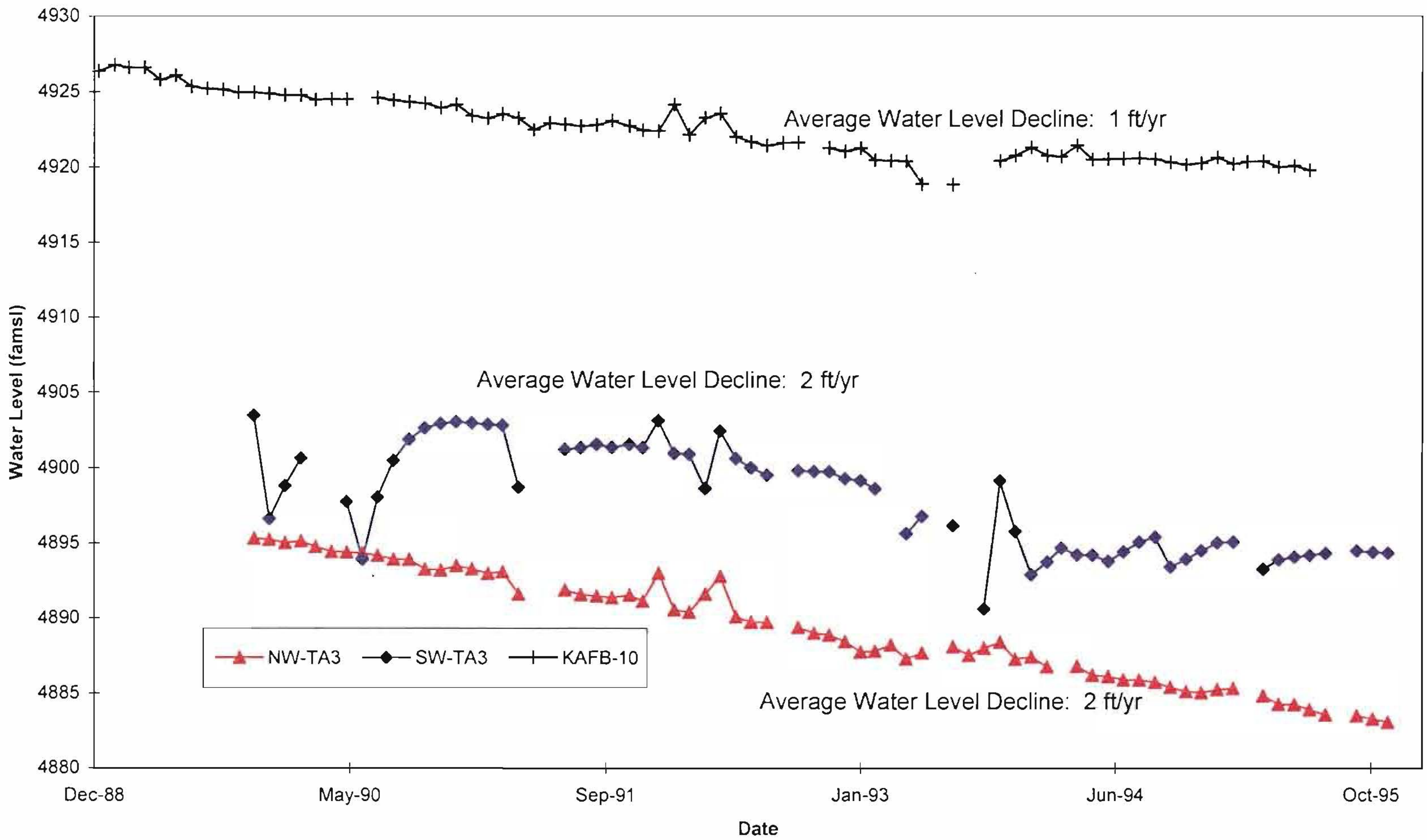


Figure 5.3-3 Six-year Hydrograph for Regional Monitoring Wells NW-TA3, SW-TA3, and KAFB-10

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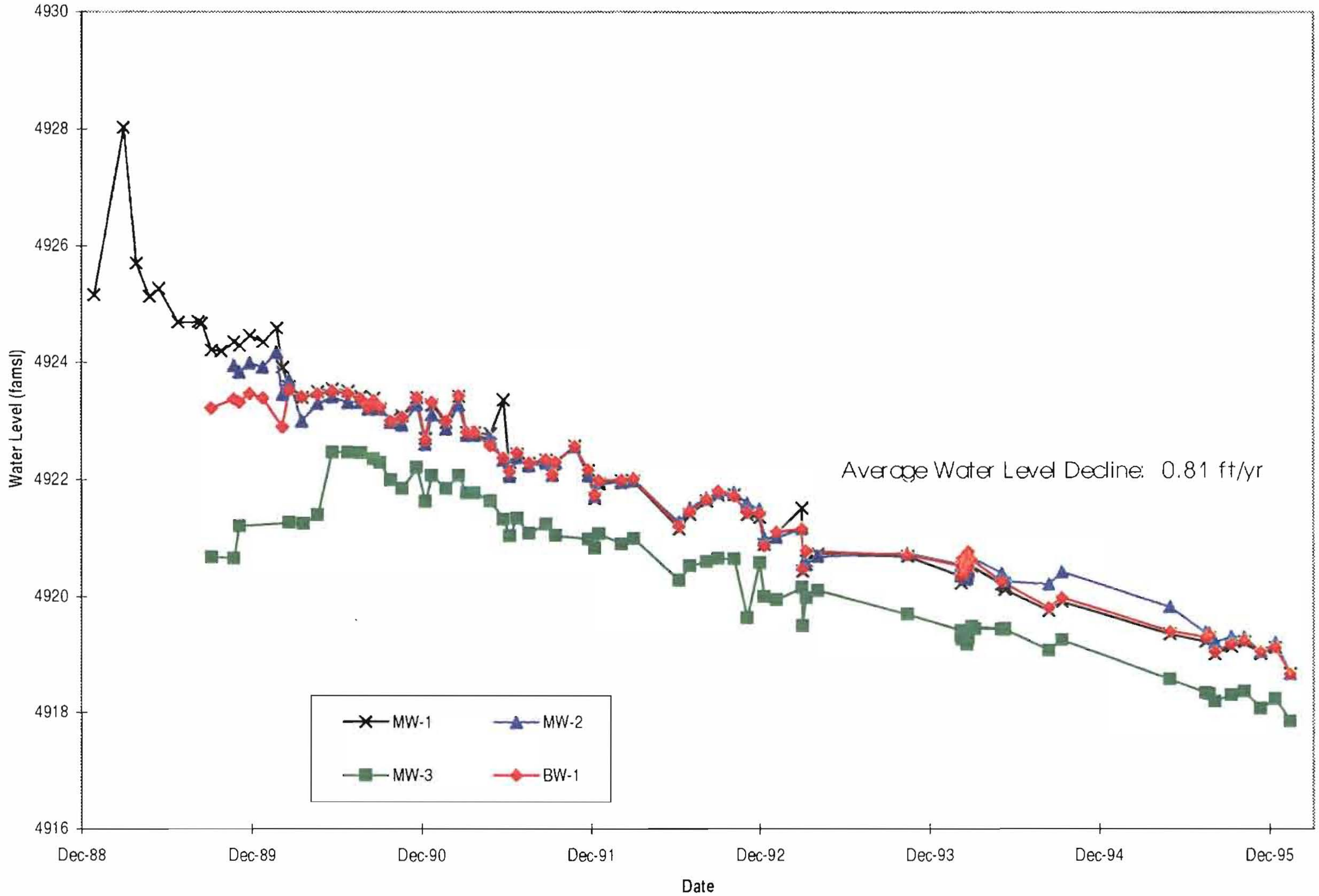

Figure 5.3-4 Six-year Hydrograph for MWL MW-1, MW-2, MW-3, and BW-1

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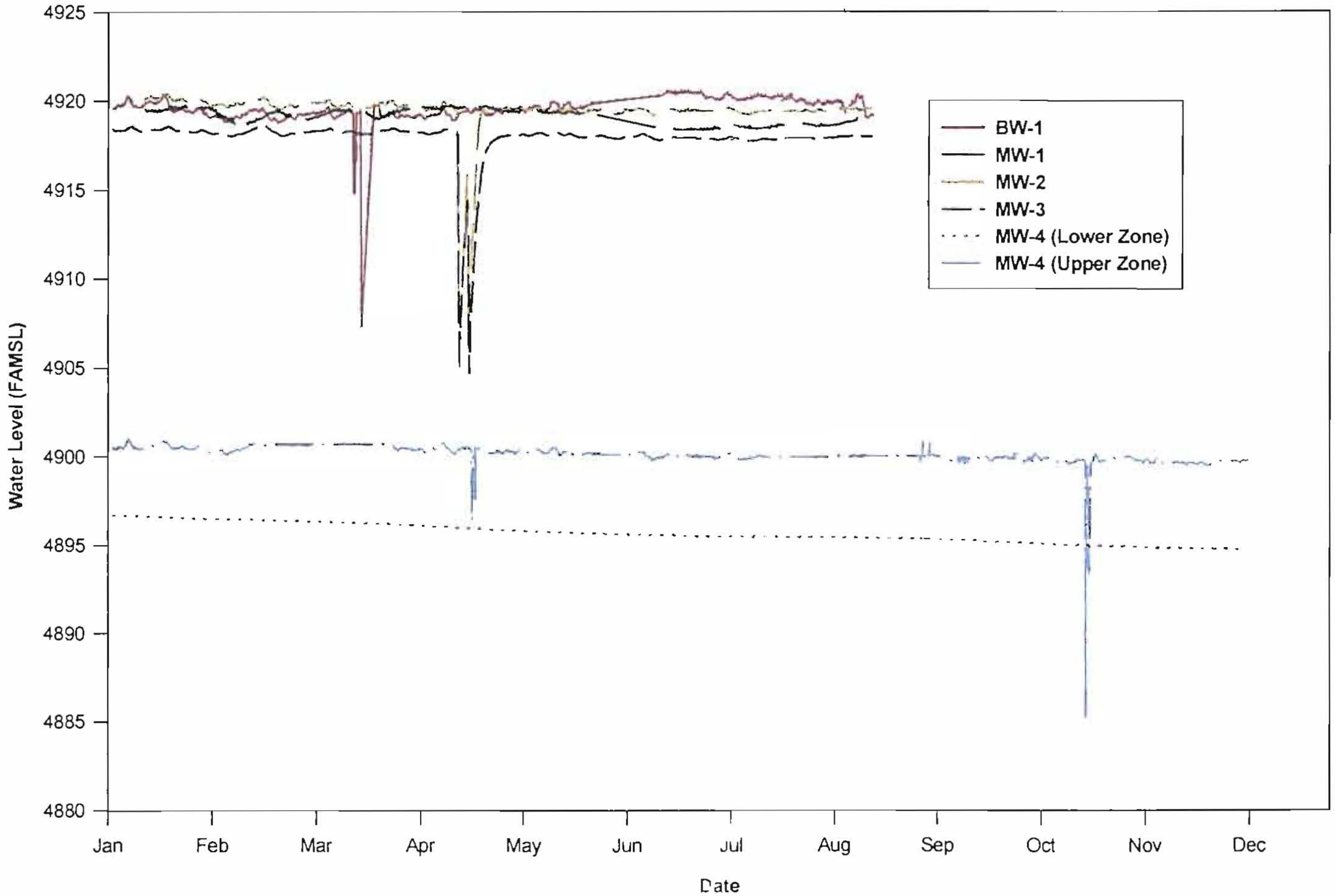

Figure 5.3-5 1995 Water Levels in MWL Monitoring Wells Based on Pressure Transducer Data

Automated water level readings were discontinued in August 1995 for all MWL monitoring wells except MW-4. Water levels in MW-4 continue to be monitored using pressure transducers because manual readings cannot be obtained due to the physical obstruction of the packer in the well.

Changes in barometric pressure have been observed to cause temporal fluctuations in water levels in MWL monitoring wells. In general, increasing barometric pressures result in decreasing water levels, and vice versa. The barometric responses of MWL monitoring wells provide additional evidence that groundwater at the site is semi-confined, rather than unconfined. Water levels in wells completed in semi-confined aquifers typically respond to fluctuations in barometric pressure, whereas water levels in wells completed in unconfined aquifers do not (Freeze and Cherry, 1979). Figure 5.3-6 depicts temporal fluctuations in water levels in MW-4 due to barometric pressure changes.

5.3.2 Potentiometric Gradients

The horizontal and vertical potentiometric gradients at the MWL were estimated from water level data from MWL and other TA 3 monitoring wells. These gradients are discussed in the following sections.

5.3.2.1 Horizontal Potentiometric Gradient

The potentiometric surface map for TA 3 (Figure 5.3-1) indicates that the potentiometric gradient in the north-central part of TA 3 is approximately 0.008 to the west. Based on MWL water level data, the potentiometric gradient in the immediate vicinity of the MWL is 0.01. These gradients are typical of semi-confined or confined aquifers (Freeze and Cherry, 1979).

5.3.2.2 Vertical Potentiometric Gradient

The vertical hydraulic gradient in the aquifer beneath the MWL was calculated based on differences between water levels in MW-4 and MW-1, and differences across the two completed zones in MW-4.

April 1995 potentiometric data from MWL monitoring wells indicate that water levels measured in MW-4 upper and lower completed zones are lower than the water levels in the other MWL monitoring wells. Since MW-4 is completed in a deeper water-bearing zone than other MWL monitoring wells, this indicates the presence of a downward vertical gradient in groundwater beneath the MWL.

Table 5.3-1 presents vertical potentiometric gradients beneath the MWL, calculated from water level data from MW-4 and MW-1. These data indicate the downward vertical potentiometric gradient beneath the MWL ranges from 0.10 to 0.80.

Table 5.3-1 MWL Vertical Potentiometric Gradients

Well 1	Groundwater Elevation (ft, msl)	Well 2	Groundwater Elevation (ft, msl)	Distance Between Gravel Pack Centers (ft)	Difference In Water Levels (ft)	Vertical Gradient	Gradient Direction
MW-1	4921.20	MW-4 (lower)	4896.00	71.6	25.20	-0.35	Downward
MW-1	4921.20	MW-4 (upper)	4900.43	25.9	20.77	-0.80	Downward
MW-4 (lower)	4896.00	MW-4 (upper)	4900.43	45.7	4.43	-0.10	Downward

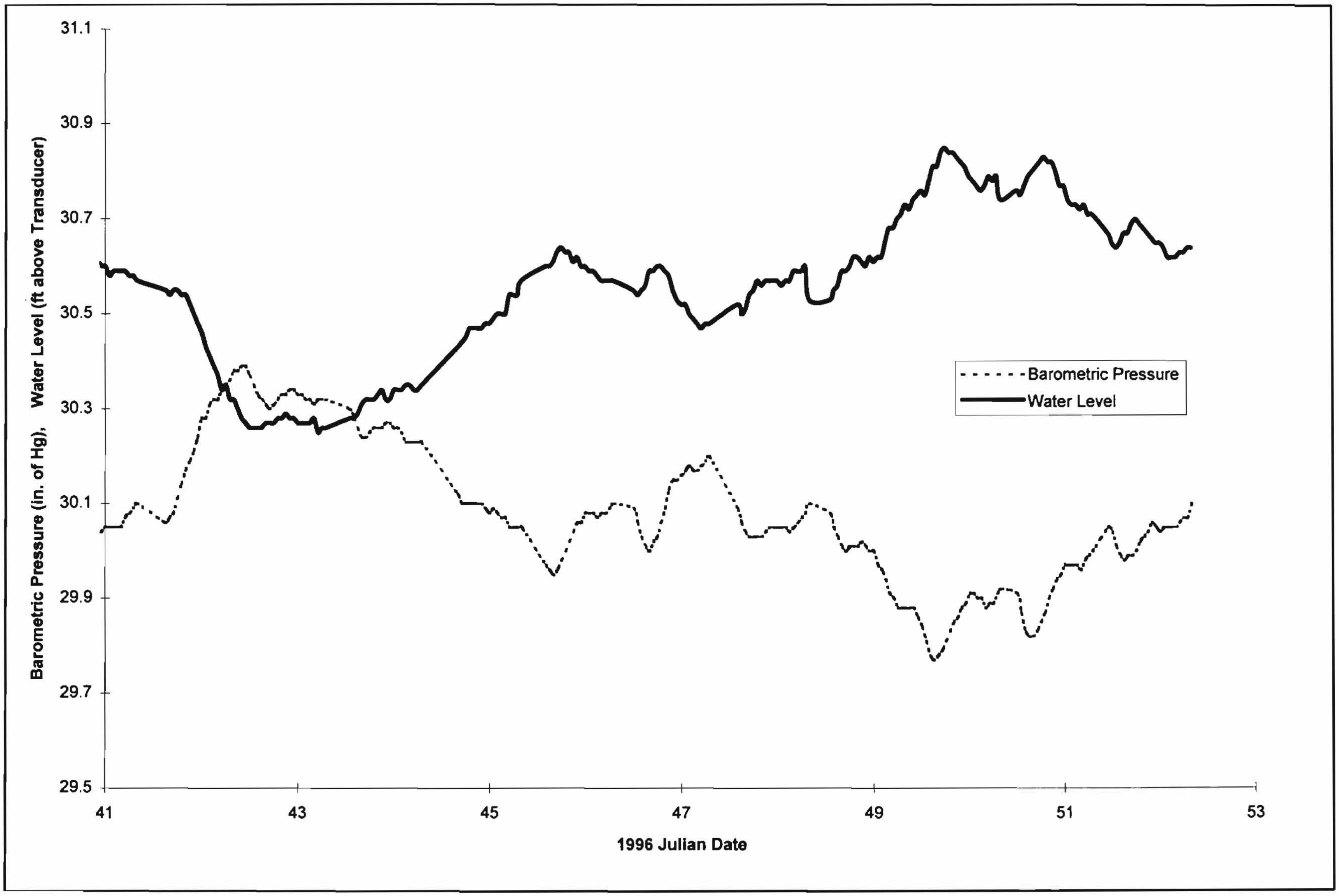

Figure 5.3-6 Temporal Fluctuations in MW-4 Water Level

5.3.3 MWL Vertical Flow Net

A vertical flow net was constructed to analyze horizontal and vertical components of flow beneath the MWL. The method of Fogg and Senger (1985) was used to generate the flow net. This method uses MODFLOW (McDonald and Harbaugh, 1988) and applies appropriate boundary conditions as specified by Fogg and Senger (1985). The analysis and the results are described in the following sections.

5.3.3.1 Aquifer Stratigraphy and Hydraulic Conductivity

The aquifer beneath the MWL consists of horizontally-bedded anisotropic, heterogeneous, sediments (Figure 5.3-7). The uppermost layer in the aquifer consists of approximately 55 ft of silty clay. MW-1, MW-2, MW-3, and BW-1 are screened in this unit. A sand layer, at least 35 ft thick, underlies the silty clay layer. The lower zone of MW-4 is completed within this unit. No monitoring wells are completed beneath the sand layer.

For the sand layer, a horizontal hydraulic conductivity of 1.48 ft /day was measured in the lower zone of MW-4. An estimated anisotropy ratio, k_x/k_y, of 100, was based upon literature values for sandy aquifers (Freeze and Cherry, 1979). Based upon this anisotropy ratio, a vertical conductivity for the sand of 0.015 ft/day was input into the model.

The horizontal conductivity of the silty clay layer was estimated to be 0.011 ft/day based on the geometric average of conductivities measured in MW-1, MW-2, MW-3, and BW-1. Each of these monitoring wells was screened across the same depth interval within the silty clay layer. The geometric average best describes the mean hydraulic conductivity for a two-dimensional flow field (Gutjahr et al., 1978). Based upon analyses of soil samples collected in similar sediment types at the Chemical Waste Landfill, k_x/k_y of 53 was assumed for the silty clay. Solving for k_y yields a vertical conductivity of 2.1×10^{-4} ft/day. Table 5.3-2 summarizes the hydraulic parameter values used in the model.

Table 5.3-2 Summary of Aquifer Hydraulic Parameters

Sediment Type (USGS)	Horizontal Conductivity (ft/day)	Vertical Conductivity (ft/day)	Horizontal Gradient (ft/ft)	Vertical Gradient (ft/ft)
Silty Clay	0.011	0.00021	0.01	0.1
Sand	1.48	0.015	0.01	0.1

Notes:

1. Horizontal gradient is calculated from the potential drop between MW-1 and a point located 288 ft downgradient of MW-1, based upon the estimated groundwater flow direction.
2. Vertical gradient is the potential drop between the upper and lower zones of MW-4 divided by the distance between the midpoint of each well screen.
3. Horizontal conductivity of the sand was calculated from the aquifer-test analysis on the MW-4 lower zone. The vertical conductivity was estimated based upon an anisotropy ratio of 100 (Freeze and Cherry, 1979).
4. Horizontal conductivity of the silty clay was calculated from the geometric mean of the individual conductivity values for MW-1, MW-2, MW-3, and BW-1. The vertical conductivity was estimated based upon a calculated anisotropy ratio of 53.

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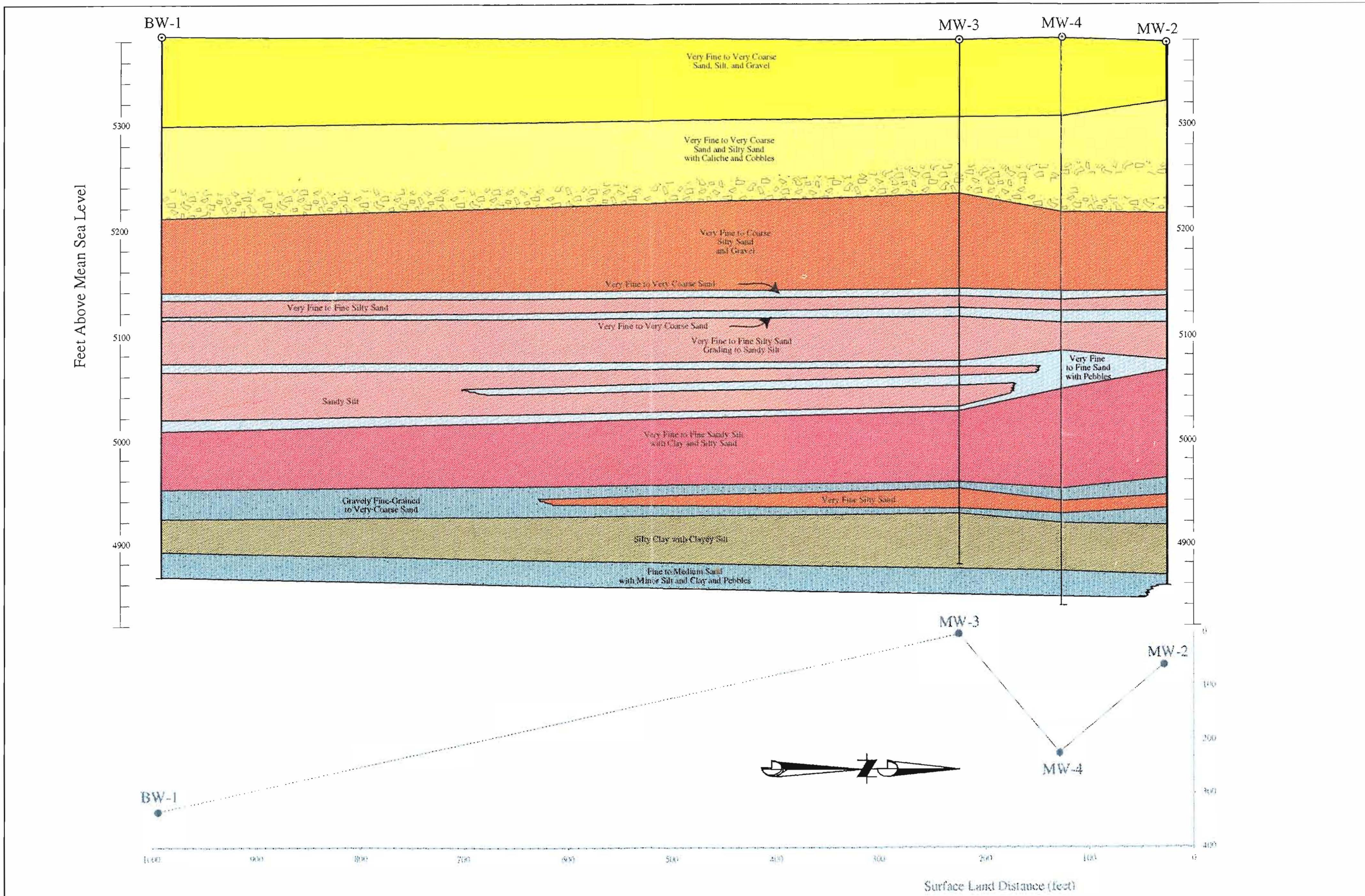

Figure 5.3-7 MWL Lithologic Cross-Section

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5.3.3.2 Model Description

A two-dimensional grid was used to simulate vertical and horizontal groundwater flow-paths along a cross-section between MW-1 and a point approximately midway between MW-2 and MW-3. The MODFLOW grid consisted of 30 rows and 100 columns. Row and column spacing were approximately 3 ft. The dimensions of the modeled area was 288 ft long by 90 ft deep.

5.3.3.3 Boundary Conditions

Measured hydraulic heads in MW-1, MW-2, MW-3, MW-4 (upper and lower) and BW-1 were used to develop the boundary conditions in the model. These heads were measured on 14 April 1995. To calculate lines of equipotential, hydraulic heads were prescribed along the top, bottom, and sides of the model domain. The prescribed head along the top of the model was based on the average hydraulic gradient, 0.01, measured between MW-1 and a point 288 ft downgradient, approximately midway between MW-2 and MW-3.

The prescribed heads along the sides of the model were based upon interpolation and extrapolation of the average vertical gradient measured in MW-4. Prescribed flux was specified along each side of the model domain to calculate the streamlines. The flux at each boundary cell was calculated in accordance with the procedures outlined by Fogg and Senger (1985) using the Neumann prescribed-flux boundary condition.

5.3.3.4 Flow-Net Results

The model-generated flow net is presented in Figure 5.3-8. Different streamline contour intervals are used to describe flow patterns in the silty clay and sand layers because of the wide range in flow rates between these sediments. In the sand, a contour interval of 0.15 ft^3/day was used. To depict flow through the silty clay layer, it was necessary to use a contour interval of 0.004 ft^3/day. Due to the anisotropy and vertical exaggeration of scale, the streamlines were not plotted orthogonal to the equipotential lines nor do the cells form curvilinear square elements. Nonetheless, the flow net describes the direction and amount of flow across the individual layers.

The streamlines that originate from the top boundary show that a small volume of water infiltrates through the silty clay into the sand. There is a significant component of lateral flow due to anisotropy. The downward gradient across the silty clay layer is likely due to the water supply wells north of the MWL that drain the underlying more conductive sand layer. The total flux through the silty clay layer within the modeled section beneath the MWL is very small, as expected given the low hydraulic conductivity of the silty clay. Upon reaching the uppermost sand layer, the streamlines through the silty clay refract due to the larger anisotropy of the sand. These streamlines trend along the horizontal contact of the silty clay and sand.

The limited recharge that may infiltrate in the vicinity of the MWL and the groundwater that moves across the uppermost silty clay layer will eventually discharge to the underlying sand layer. The streamlines in the sand show that infiltrating meteoric water and groundwater that enters the upgradient side of the flow field will move laterally with a relatively small component of downward flow. The downward flow direction is due to the significant downward gradient. As demonstrated by the flow net, the vertical component of flow into the uppermost sand is very small, 0.02 ft^3/day, relative to the 0.7 ft^3/day that enters from the upgradient side of the flow field.

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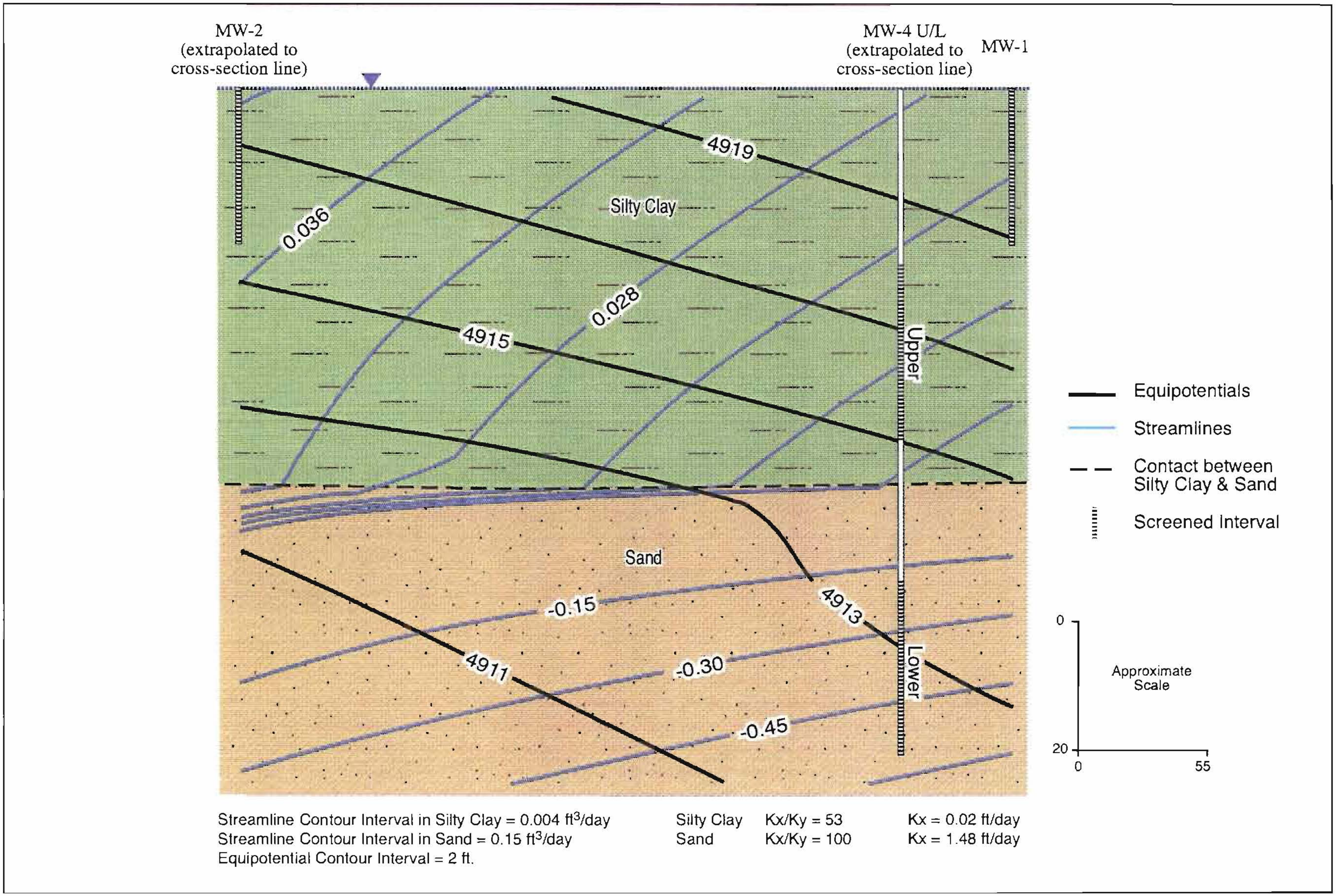

Figure 5.3-8 MWL Vertical Flow Net

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Aqueous-phase contaminants that may migrate downward through the vadose zone beneath the MWL will eventually infiltrate into the saturated silty clay layer. The transport velocity of aqueous-phase contaminants in the sand and silty clay layer was estimated using the relationship:

$$v = k \cdot i / n_e$$

where:

- v is the transport velocity (ft/day);
- k is the effective hydraulic conductivity (ft/day);
- i is the hydraulic gradient (dimensionless); and
- n_e is the effective porosity.

For the silty clay layer, a transport velocity of 2.4×10^{-4} ft/day was calculated based upon an assumed effective porosity of 0.25, a gradient of 0.04 (determined graphically from the flow net), and an effective hydraulic conductivity of 0.0015 ft/day. Once the contaminant reaches the sand layer, the estimated transport velocity will be 9.9×10^{-3} ft/day assuming an effective porosity of 0.15, a gradient of 0.01 (determined graphically from the flow net), and an effective hydraulic conductivity of 0.148 ft/day. These calculations assume no adsorption or degradation of the contaminant.

The transport velocity calculations show that if aqueous-phase contaminants were to reach groundwater, they will move slowly through the silty clay layer. Once they reach the sand, contaminants will move laterally downgradient and mix with groundwater from upgradient of the MWL. The flow-net analysis shows that the volume of water that enters the upper boundary of the sand layer is relatively small compared to the volume of water that flows into the modeled area from upgradient of the MWL. As such, dissolved contaminants will mix with and be diluted by the relatively larger volume of groundwater that flows into the modeled region from upgradient of the MWL.

5.4 Groundwater Quality

October 1995 groundwater monitoring data is the most recent groundwater quality data available for presentation in the MWL Phase 2 RFI Report. April 1996 groundwater quality data were not available at the time this report was prepared but can be provided, if requested, at a later date as an addendum.

October 1995 groundwater elevations, pump setting depths, and well completion information are presented in Table 5.4-1. Purge volumes and purge indicator measurements are presented in Table 5.4-2. Chemical analysis results are presented in Table 5.4-3. Radiological analysis results are presented in Table 5.4-4. Detectable VOC and SVOC results are presented in Table 5.4-5. Duplicate sample analysis results are presented in Table 5.4-6.

5.4.1 Summary of Historical MWL Groundwater Quality Data

Historical MWL groundwater quality data are provided in Appendices I through M. These data are discussed in detail in the following sections.

5.4.1.1 *Major Ion Chemistry*

Major ion chemistry data from groundwater quality analyses can reveal distinct characteristics useful for interpreting aquifer flow characteristics and identifying zones of mixing between contaminated and non-contaminated groundwater (Freeze and Cherry, 1979). To characterize the natural groundwater chemistry at the MWL, analyses for major anions and cations, pH and specific conductance were conducted on groundwater samples collected from MWL monitoring wells. Table 5.4-7 summarizes the major ion chemistry of groundwater at the MWL. The complete major ion chemistry data-set for MWL groundwater is presented in Appendix I.

Piper trilinear and Stiff diagrams were generated for groundwater samples collected from each of the MWL monitoring wells for the period April 1993 through October 1995.

Piper Trilinear Diagrams
Figures 5.4-1 through 5.4-4 present Piper trilinear diagrams showing major ion concentrations in groundwater samples collected from the five MWL monitoring wells during April 1993, November 1993, April 1995, and October 1995. The figures show consistent cation/anion chemistry over time. Groundwater beneath the MWL is predominantly a calcium bicarbonate-type water.

Piper trilinear diagrams for samples from individual monitoring wells are presented in Figures 5.4-5 through 5.4-9. These figures show the consistency of groundwater quality in MW-1, MW-2, MW-3, MW-4 and BW-1 during the period April 1993 through October 1995.

Figure 5.4-8 shows a subtle, but distinct, shift in major-ion chemistry in groundwater collected from MW-4 during the same period. This shift occurred in June 1994 when the upper and lower screened zones of MW-4 were isolated with a Baski packer (see Section 5.2). Samples collected prior to June 1994 represent commingled upper and lower zone groundwater, while the samples collected after June 1994 represent upper zone groundwater only.

Table 5.4-1
Groundwater Elevations, Pump Setting Depths, and Monitoring Well Completion Information, October 1995

Well	Date of Measurement	Measurement Point Elevation (famsl)	Depth to Water (fbtoc)	Groundwater Elevation (famsl)	Total Well Depth (fbtoc)[a]	Static Water Height In Well (feet)	Pump Setting Depth (fbtoc)
MW-1	10/12/95	5381.54	462.55	4918.99	478	15	476
MW-2	10/12/95	5377.26	457.94	4919.32	477	19	476
MW-3	10/12/95	5381.32	463.70	4917.62	476	12	461
MW-4 (upper)	10/12/95	5383.46	NM	4899.82[b]	548	NM	516
MW-4 (lower)	10/12/95	5383.46	NM	4895.02[b]	548	NM	516
BW-1	10/12/95	5384.51	467.43	4917.08	477	10	477

(a) Total well depth as completed
(b) Calculated from transducer data on 10/12/95.
famsl Feet above mean sea level; measurement point is the top of well casing
fbtoc Feet below top of casing
NM Not measured due to installed packer

Table 5.4-2
Summary of Purge Volumes and Purge Indicator Measurements, October 1995

Indicator Parameters	Measurement Relative to Sampling	Purge Volume (gallons)	pH (at 25°C)	Temp (°C)	Specific Conductivity (mmhos at 25°C)	Turbidity (NTU)	E_H (mV)
MW-1[(a)]	Before sampling:	38.6	7.53	19.6	663	5.29	016
Date sampled:		40.6	7.53	19.7	663	6.01	011
10/20/95		42.6	7.54	19.9	663	7.16	007
	After sampling:	54.6[(b)]	7.54	20.2	664	7.05	007
MW-2[(c)]	Before sampling:	26.5	7.54	20.9	623	4.78	032
Date sampled:		27.5	7.56	20.8	623	8.31	030
10/16/95		28.5	7.60	20.8	623	5.64	028
	After sampling:	40.5[(b)]	7.85	20.9	621	7.50	024
MW-3[(d)]	Before sampling:	17.2	7.41	20.5	596	2.29	015
Date sampled:		18.2	7.43	20.5	595	3.66	011
10/16/95		19.2	7.44	20.4	596	3.73	009
MW-4[(e)] (upper)	Before sampling	47.2	7.12	19.4	831	1.01	044
Date sampled:		49.2	7.13	19.9	816	0.35	041
10/20/95		51.2	7.11	20.0	814	0.37	040
	After sampling:	63.2[(b)]	7.12	20.2	809	1.95	034
BW-1[(f)]	Before sampling:	22.4	7.70	16.2	665	4.37	020
Date sampled:		23.4	7.74	16.6	640	4.29	020
10/23/95		24.4	7.76	16.9	640	5.77	020
	After sampling:	36.4[(b)]	7.61	19.3	660	6.02	025

(a) MW-1 purged to dryness after 30.6 gallons. After recharge, purge was continued and sample was collected.
(b) After sampling, purge volume based on 3 gallons for sample collection plus 1 gallon purged after sample collection.
(c) MW-2 purged to dryness after 23.5 gallons. After recharge, purge was continued and sample was collected.
(d) MW-3 purged to dryness after 14.2 gallons. After recharge, purge was continued and sample was collected. No after sampling measurements taken due to well going dry immediately after sample collection.
(e) MW-4 purged to dryness after 41.2 gallons. After recharge, purge was continued and sample plus duplicate was collected.
(f) BW-1 purged to dryness after 19.4 gallons. After recharge, purge was continued and sample collected.

Table 5.4-3 Chemical Analysis Results, October 1995

Parameter	Analytical Method[a]	Quantitation[b] Limit and Units	MCL[c], mg/L	Sample No.: 026464 Well: MW-1 Sampling Date: 10/20/95	026459 MW-2 10/16/95	026458 MW-3 10/16/95	026465 MW-4 10/20/95 (upper)	026466 MW-4 Duplicate 10/20/95	026461 BW-1 10/23/95
Alkalinity, Total (as $CaCO_3$) at pH 4.5	310.1/310.2	1.0 mg/L	NE	234	199	191	257	276	229
Chloride	300.0	2.50 mg/L	NE	29.5	30.8	31.5	56.2	55.6	24.8
Fluoride	300.0	0.0500 mg/L	4.0	0.660	1.03	1.04	0.510	0.430 J (0.500)	0.970
Phenolics	420.2	5.00 mg/L	NE	ND	ND	ND	ND	ND	ND
Sulfate	300.0	10.00 mg/L	NE	46.6	41.3	39.1	52.2	52.0	46.9
Ammonia (as N)	350.1	0.0500 mg/l	NE	ND	ND	ND	ND	ND	ND
Nitrate plus nitrite (as N)	353.1	0.200 mg/L	10	5.36 B	4.20	3.16(0.100)	0.780B(0.0500)	0.760 B (0.500)	5.30 B (0.500)
Nitrate (as N)	300.0	0.0500 mg/L	10	5.11	4.56	4.06	0.713	0.733	5.75
Total organic carbon	415.5	1.00 mg/L	NE	2.65	2.26	0.272 J	3.74	4.34	2.89
Total organic halogen (as Cl)	9020A	10.0 mg/L	NE	6.76 J	4.82 J	25.6	3.76 J	10.6	5.16 J
Specific conductivity at 25°C	120.1	1.00 mmho/cm	NE	668	621	601	820	819	673
Aluminum	6010A	0.0500 mg/L	NE	0.0434 J,B	0.203	0.0571	0.0208 J,B	0.0283 J,B	0.267 B
Antimony	6010A	0.0100 mg/L	0.006	ND	ND	ND	ND	0.000999 J,B	0.00235 J
Arsenic	6010A	0.0100 mg/L	0.05	ND	ND	ND	0.00864 J	0.00938 J	0.00219 J
Barium	6010A	0.0100 mg/L	2	0.0677	0.0948	0.0934	0.105	0.108	0.0882
Beryllium	6010A	0.00500 mg/L	0.004	0.0000627 J,B	ND	ND	0.0000649 J,B	0.0000607 J,B	0.0000911 J,B
Cadmium	6010A	0.00500 mg/L	0.005	0.000134 J,B	ND	0.000201 J	0.000927 J,B	0.000869 J,B	0.000122 J,B
Calcium	6010A	0.100 mg/L	NE	58.6	49.6	45.7	61.1	62.9	56.8
Chromium	6010A	0.0100 mg/L	0.1	0.0428	0.0124	0.0369	ND	ND	0.00411 J
Cobalt	6010A	0.0100 mg/L	NE	0.000922 J	0.000352 J	0.000586 J	ND	ND	0.000689 J
Copper	6010A	0.0100 mg/L	NE	0.000698 J,B	ND	0.0017 J,B	ND	ND	ND
Iron	6010A	0.0500 mg/L	NE	0.565 B	0.262	0.266	0.0134 J,B	0.0161 J,B	0.321 B
Lead	6010A	0.00300 mg/L	0.05	ND	ND	ND	ND	ND	ND
Magnesium	6010A	0.0100 mg/L	NE	18.1	16.6	15.2	20.3	20.9	19.1
Manganese	6010A	0.0100 mg/L	NE	0.0128	0.00787 J	0.0130	0.0284	0.0295	0.00955 J
Mercury	7470	0.00020 mg/L	0.002	ND	ND	ND	ND	0.0000410 J,B	0.0000330 J,B
Nickel	6010A	0.0100 mg/L	0.1	0.107	0.00382 J	0.00799 J	0.00307 J	0.00363 J	0.00196 J
Potassium	6010A	0.100 mg/L	NE	3.18 B	4.25	3.82	5.61 B	5.77 B	3.31 B
Selenium	6010A	0.00500 mg/L	0.05	0.00308 J	ND	0.00144 J	0.00191 J	ND	0.00470 J
Silver	6010A	0.010 mg/L	0.05	ND	ND	ND	ND	ND	ND
Sodium	6010A	0.100 mg/L	NE	52.2 B	47.9 B	49.2 B	76.6 B	78.5 B	56.6 B
Thallium	6010A	0.0100 mg/L	0.002	ND	ND	ND	ND	ND	0.00263 J
Total Uranium	SW-846 (6020)	1.0 mg/L	NE	5.5	6.0	5.0	4.9	4.8	5.7
Vanadium	6010A	0.0100 mg/L	NE	0.00610 J	0.00652 J	0.00686 J	0.00894 J	0.00933 J	0.00638 J
Zinc	6010A	0.0200 mg/L	NE	0.00673 J,B	0.113	0.0180 J	0.0597 B	0.0618 B	0.0636 B

(a) Analytical methods used are referenced to either, "Methods for Chemical Analysis of Water and Wastes," U.S. Environmental Protection Agency, EPA-600/4-79-020, 1983, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," U.S. Environmental Protection Agency, SW-846, 1986, 3rd edition, Revision 1, or "Standard Methods for the Examination of Water and Wastewater," 15th ed., American Public Health Association, 1980.
(b) Nominal quantitation limits for the method types. Quantitation limit shown in parentheses; if different.
(c) MCL, U.S. EPA Primary Drinking Water Standards, 40 CFR Part 141, Subpart B and as revised in Subpart G.
B Analyte detected in the laboratory method blank.
J Detected below quantitation limit, estimated concentration
NE Not established
ND Not detected at reporting limit indicated

Table 5.4-4 Radiochemical Analysis Results, October 1995

Sample No.:		026464	
Well:		MW-1	
Sampling Date:		10/20/95	
All results in pCi/L			
Analyte	DOE Guideline[a]	Results[b] ± 2 sigma error	MDA
Gross Alpha	NE	4.9 ± 3.5	6.5[c]
Gross Beta	NE	5.8 ± 2.7	3.8[c]
Tritium	80,000	20 ± 190	110
Uranium-233/234	20	5.90 ± 0.46	0.034
Uranium-235	24	0.176 ± 0.065	0.019
Uranium-238	24	2.23 ± 0.25	0.027
Thorium-228	16	0.022 ± 0.073	0.074
Thorium-230	12	-0.011 ± 0.023	0.027
Thorium-232	2	-0.0103 ± 0.010	0.013
Plutonium-238	1.6	0.001 ± 0.012	0.0078
Plutonium-239/240	1.2	0.00 ± 0.00	0.000
Strontium-90	40	0.15 ± 0.30	0.25
Cerium-144	280	26 ± 19[d]	13

Sample No.:		026459	
Well:		MW-2	
Sampling Date:		10/16/95	
All results in pCi/L			
Analyte	DOE Guideline[a]	Results[b] ± 2 sigma error	MDA
Gross Alpha	NE	3.2 ± 2.8	5.7[c]
Gross Beta	NE	6.3 ± 2.6	3.6[c]
Tritium	80,000	-40 ± 190	110
Uranium-233/234	20	6.61 ± 0.47	0.025
Uranium-235	24	0.169 ± 0.054	0.013
Uranium-238	24	2.26 ± 0.22	0.021
Thorium-228	16	0.044 ± 0.063	0.059
Thorium-230	12	-0.001 ± 0.023	0.022
Thorium-232	2	0.004 ± 0.025	0.017
Plutonium-238	1.6	0.003 ± 0.012	0.0059
Plutonium-239/240	1.2	0.028 ± 0.024	0.00
Strontium-90	40	-0.09 ± 0.29	0.25

Table 5.4-4 Radiochemical Analysis Results, October 1995 (Continued)

Sample No.:	026458		
Well:	MW-3		
Sampling Date:	10/16/95		
All results in pCi/L			
Analyte	DOE Guideline(a)	Results(b) ± 2 sigma error	MDA
Gross Alpha	NE	2.2 ± 2.6	5.6(c)
Gross Beta	NE	7.0 ± 2.6	3.5(c)
Tritium	80,000	70 ± 200	110
Uranium-233/234	20	4.85 ± 0.37	0.028
Uranium-235	24	0.146 ± 0.050	0.012
Uranium-238	24	1.86 ± 0.20	0.019
Thorium-228	16	0.039 ± 0.064	0.058
Thorium-230	12	-0.006 ± 0.024	0.023
Thorium-232	2	0.0045 ± 0.0088	0.00
Plutonium-238	1.6	0.002 ± 0.017	0.011
Plutonium-239/240	1.2	-0.0044 ± 0.0061	0.0080
Strontium-90	40	0.03 ± 0.31	0.26
Bismuth-214	24000	19 ± 14	6.4

Sample No.:	026465		
Well:	MW-4 (upper)		
Sampling Date:	10/20/95		
All results in pCi/L			
Analyte	DOE Guideline(a)	Results(b) ± 2 sigma error	MDA
Gross Alpha	NE	3.5 ± 3.6	7.5(c)
Gross Beta	NE	6.8 ± 3.2	4.5(c)
Tritium	80,000	-10 ± 190	110
Uranium-233/234	20	3.34 ± 0.30	0.029
Uranium-235	24	0.139 ± 0.051	0.012
Uranium-238	24	1.72 ± 0.20	0.020
Thorium-228	16	-0.014 ± 0.063	0.066
Thorium-230	12	-0.006 ± 0.022	0.023
Thorium-232	2	0.008 ± 0.015	0.0056
Plutonium-238	1.6	-0.0022 ± 0.0042	0.0055
Plutonium-239/240	1.2	-0.0022 ± 0.0042	0.0055
Strontium-90	40	-0.15 ± 0.30	0.27
Bismuth-214	24000	17 ± 16	6.6

Table 5.4-4 Radiochemical Analysis Results, October 1995 (Concluded)

	Sample No.:	026466	
	Well:	MW-4 (Duplicate)	
	Sampling Date:	10/20/95	
All results in pCi/L			
Analyte	DOE Guideline[a]	Results[b] ± 2 sigma error	MDA
Gross Alpha	NE	2.3 ± 3.6	7.7[c]
Gross Beta	NE	7.5 ± 3.7	5.2[c]
Tritium	80,000	10 ± 190	110
Uranium-233/234	20	3.95 ± 0.32	0.025
Uranium-235	24	0.116 ± 0.048	0.017
Uranium-238	24	1.76 ± 0.19	0.020
Thorium-228	16	0.014 ± 0.062	0.057
Thorium-230	12	0.023 ± 0.029	0.019
Thorium-232	2	-0.004 ± 0.020	0.016
Plutonium-238	1.6	-0.0023 ± 0.0044	0.0058
Plutonium-239/240	1.2	0.003 ± 0.012	0.0058
Strontium-90	40	0.16 ± 0.31	0.26

	Sample No.:	026461	
	Well:	BW-1	
	Sampling Date:	10/23/95	
All results in pCi/L			
Analyte	DOE Guideline[a]	Results[b] ± 2 sigma error	MDA
Gross Alpha	NE	8.9 ± 4.4	6.2[c]
Gross Beta	NE	5.4 ± 2.5	3.5[c]
Tritium	80,000	70 ± 200	110
Uranium-233/234	20	5.81 ± 0.42	0.027
Uranium-235	24	0.187 ± 0.055	0.011
Uranium-238	24	2.21 ± 0.22	0.021
Thorium-228	16	0.002 ± 0.065	0.062
Thorium-230	12	-0.005 ± 0.020	0.021
Thorium-232	2	0.012 ± 0.025	0.014
Plutonium-238	1.6	0.0028 ± 0.010	0.0052
Plutonium-239/240	1.2	0.01 ± 0.014	0.00
Strontium-90	40	0.30 ± 0.32	0.26

(a) Based on Derived Concentration Guide, U.S. Department of Energy Order 5400.5 (DOE, 1990) for a 4 mrem/year dose.
(b) Laboratory results have an uncertainty of ±2 sigma error; if the 2 sigma value equals or exceeds the count value, the isotope is considered not to be present.
(c) The MDA exceeded the contract required reporting detection limit due to sample residue weight limitations.
(d) Cerium-144 was not detected in the sample analyzed by the Department 7713 laboratory (MDA-0.135 pCi/L), suspect false-positive.
NE Not established.

Table 5.4-5
Detected Volatile and Extractable Organic Compounds, October 1995

			Volatile Organic Compounds	
		Analyte	2-Butanone	Acetone
		Quantitation Limit[a]	5.00 mg/L	5.00 mg/L
		MCL[b]	NE	NE
Sample Location	Sample Date	Sample No.		
MW-1	10/20/95	026464	2.14 J, T	9.36 T
MW-2	10/16/95	026459	ND	10.1 T
MW-3	10/16/95	026458	ND	7.65 T
MW-4 (upper)	10/20/95	026465	ND	7.83 T
MW-4 (upper) Duplicate	10/20/95	026466	ND	3.71 J, T
BW-1	10/23/95	026461	ND	2.29 J, T

(a) Nominal quantitation limit for Method 8260 and Method 8270, as appropriate
(b) MCL, U.S. Environmental Protection Agency Drinking Water Standards, 40 CFR 141, Subparts B and G
ND Not detected
NE Not established
J Analyte detected below the reporting limit but above the detection limit; estimated concentration.
T Analyte present in trip blank (not indicated when analyte is undetected in environmental sample).

Table 5.4-6 Duplicate Sample Analysis Results, October 1995

Sample No. / Sample Location / Parameter[a]	026465 MW-4 Results (R_1)	026466 MW-4 (Duplicate) Results (R_2)	RPD (%)
	All results in mg/L, except as noted		
Acetone (mg/L)	7.83	3.71 J	71.4
Chloride	56.2	55.6	1.1
Fluoride	0.510	0.430 J	17.0
Sulfate	52.2	52.0	0.4
Nitrate plus nitrite (as N)	0.780	0.760	2.6
Alkalinity (total as $CaCO_3$)	257	276	7.1
Total organic carbon (TOC)	3.74	4.34	14.9
Total organic halogen (mg/L)	3.76 J	10.6	95.3
Nitrate (as N)	0.713	0.733	2.8
Specific conductivity (mmhos/cm)	820	819	0.1
Antimony	ND	0.000999 J	NC
Arsenic	0.00864 J	0.00938 J	8.2
Aluminum	0.0208 J	0.0283 J	30.5
Barium	0.105	0.108	2.8
Beryllium	0.0000649 J	0.0000911 J	33.6
Cadmium	0.000927 J	0.000869 J	6.5
Calcium	61.1	62.9	2.9
Iron	0.0134 J	0.0161 J	18.3
Magnesium	20.3	20.9	2.9
Manganese	0.0284	0.0295	3.8
Mercury	ND	0.0000410 J	NC
Nickel	0.00307 J	0.00363 J	16.7
Potassium	5.61	5.77	2.8
Selenium	0.00191 J	ND	NC
Sodium	76.6	78.5	2.5
Total Uranium (mg/L)	4.9	4.8	2.1
Vanadium	0.00894 J	0.00933 J	4.3
Zinc	0.0597	0.0618	3.5
Gross Alpha (pCi/L)	3.5 ± 3.6	2.3 ± 3.6	41.4
Gross Beta (pCi/L)	6.8 ± 3.2	7.5 ± 3.7	9.8
Uranium-233/234 (pCi/L)	3.34 ± 0.30	3.95 ± 0.32	16.7
Uranium-235 (pCi/L)	0.139 ± 0.051	0.116 ± 0.048	18.0
Uranium-238 (pCi/L)	1.72 ± 0.20	1.76 ± 0.19	2.3

(a) Parameters not detected in both samples are not listed.
J Analyte detected below quantitation limit, estimated concentration.
NC Not calculable
ND Not detected

Table 5.4-7 Summary of MWL Groundwater Major Ion Chemistry

Parameter	MWL Groundwater Data[a]								EPA Standards	
	Sample Size	Number of Detections	Minimum (mg/L)	Maximum (mg/L)	Arithmetic Mean (mg/L)	Geometric Mean (mg/L)	Median (mg/L)	Standard Deviation (mg/L)	MCL[b] (mg/L)	Subpart S Action Level (mg/L)
Alkalinity (as $CaCO_3$)	24	24	177	296	219.2	217.5	217.5	28.1	—[d]	—
Calcium	56	56	39.2	83	53.4	52.9	53.2	7.7	—	—
Chloride	64	64	4.6	81.9	31	27.7	29.5	13	—	—
Iron	96	55	0.0134	1.3	0.1392	0.0848	0.05	0.1973	—	—
Magnesium	56	56	13.5	28.1	18.3	18.2	18.4	2.4	—	—
Manganese	96	36	0.0043	0.17	0.0143	0.0083	0.005	0.0259	—	0.2[e]
Nitrate[c]	40	40	0.713	6.2	4.372	3.947	4.7	1.437	10	—
Nitrate/Nitrite[c]	30	30	0.6	5.9	4.3	3.7	5.1	1.7	10	—
pH	20	20	7.5	8.1	7.8	7.7	7.8	0.2	—	—
Potassium	56	46	2.5	6.1	3.7	3.6	3.6	1.0	—	—
Sodium	96	96	44.3	80.7	53.9	53.6	53.5	6.8	—	—
Sulfate	64	64	21.1	52.2	41.2	40.6	42.7	6.3	500[f]	—
TDS	19	19	333	516	386.7	385.0	384.0	39.8	—	—

(a) MWL groundwater data from 1990 through 1995
(b) Maximum contaminant level
(c) As mg/L nitrogen
(d) Indicates MCL or Subpart S Action Level not established.
(e) Action level calculated based on toxicity information from the IRIS database (EPA, 1995a).
(f) Proposed EPA drinking water standard

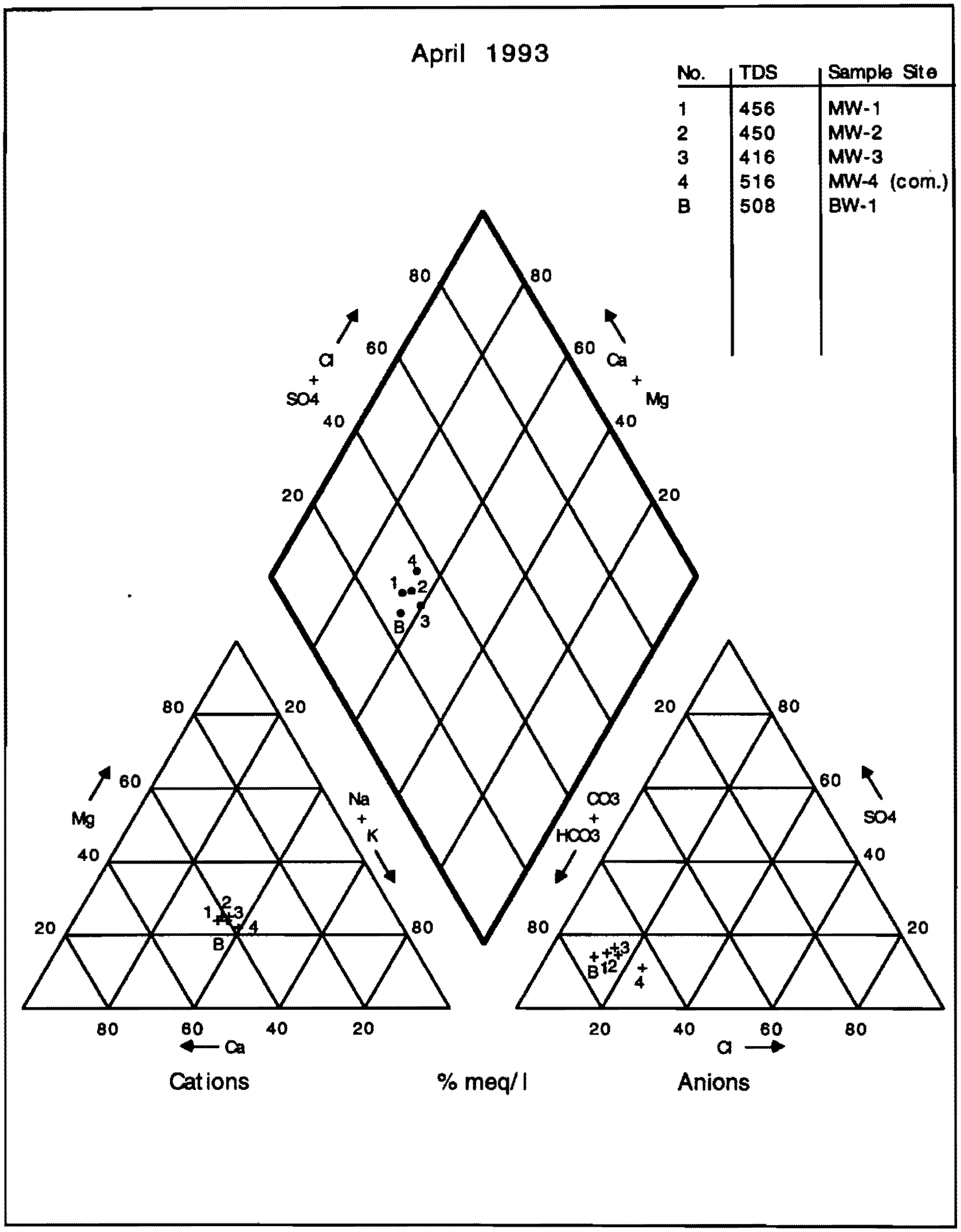

Figure 5.4-1 Piper Trilinear Diagram of MWL Groundwater Quality, April 1993

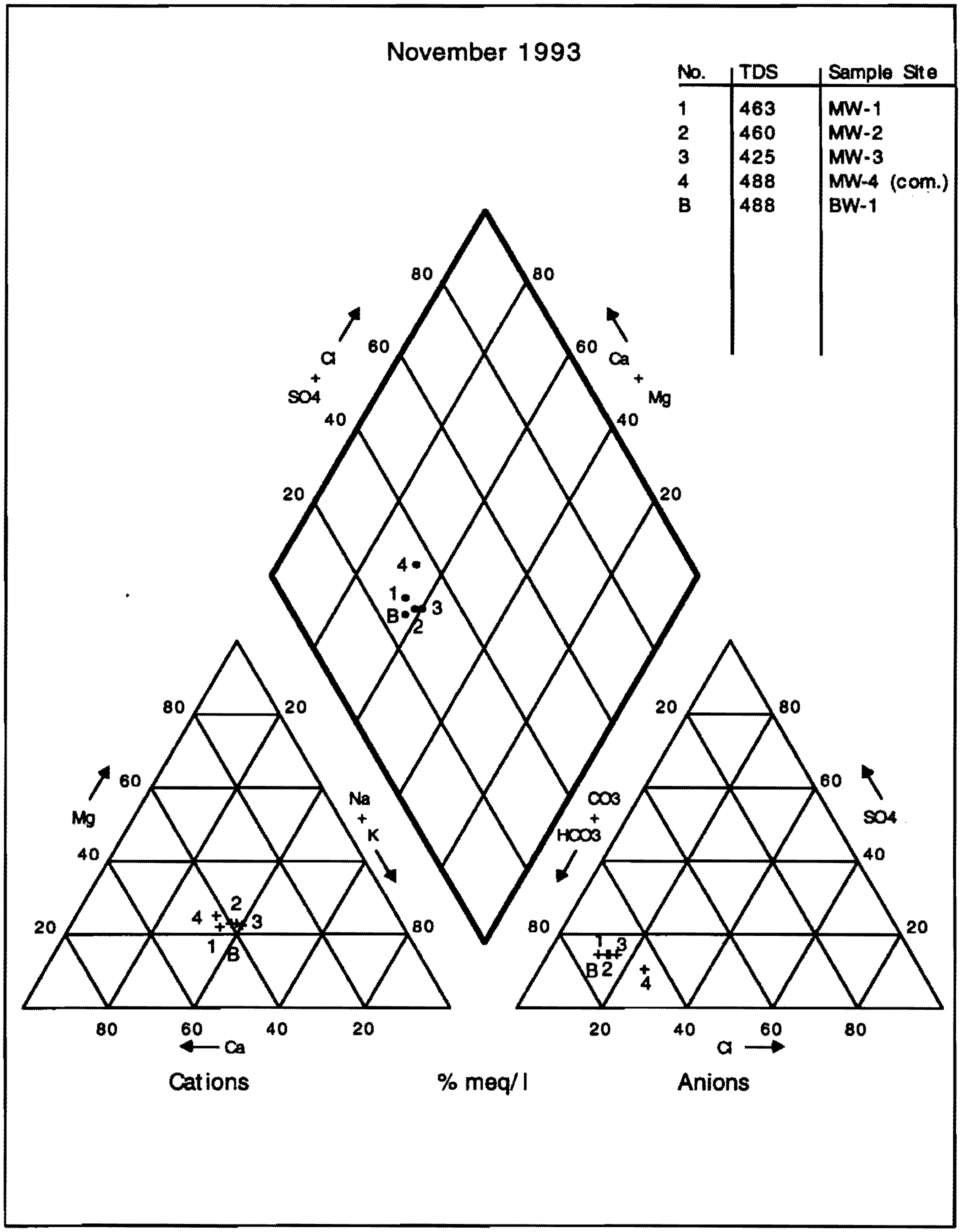

Figure 5.4-2 Piper Trilinear Diagram of MWL Groundwater Quality, November 1993

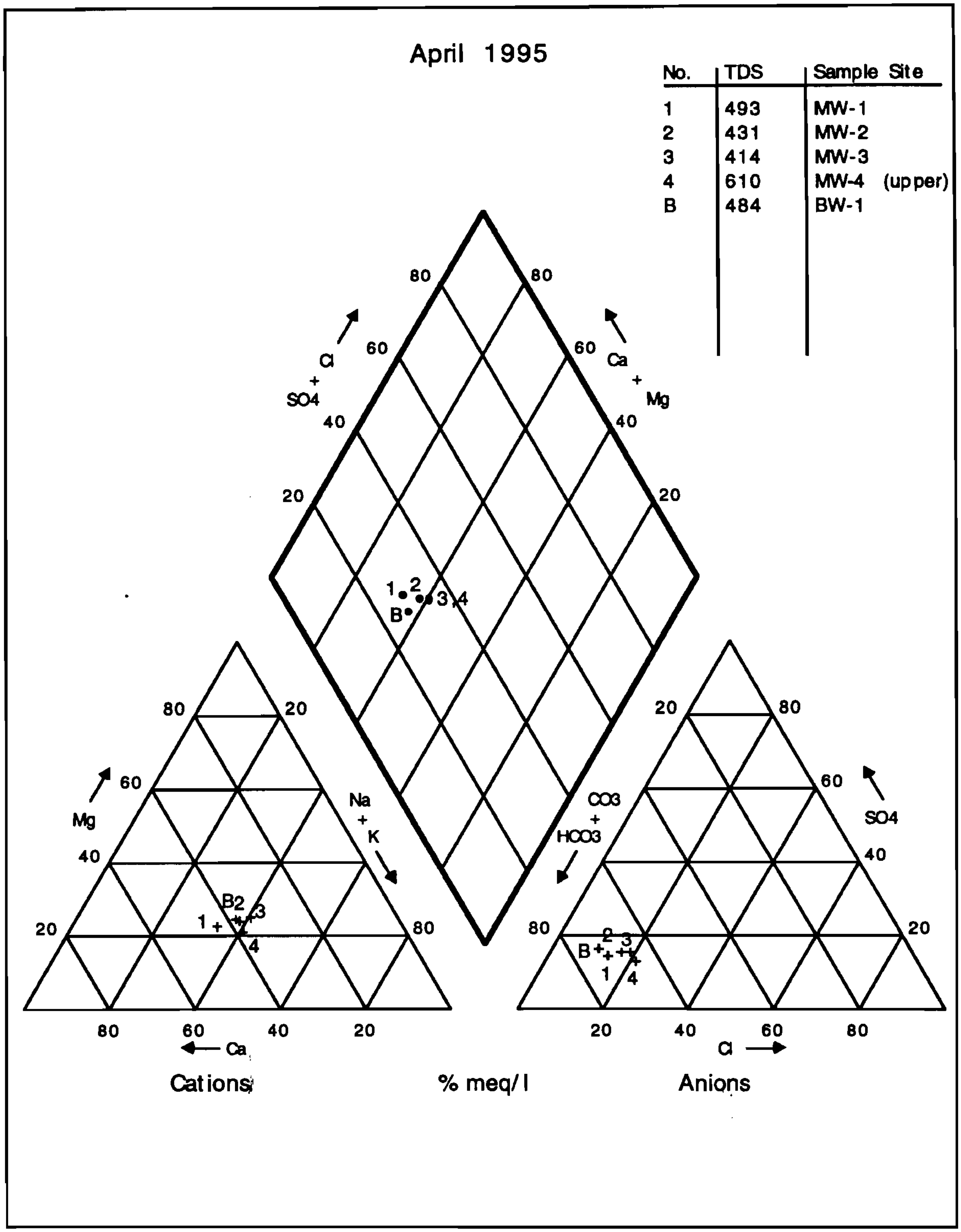

Figure 5.4-3 Piper Trilinear Diagram of MWL Groundwater Quality, April 1995

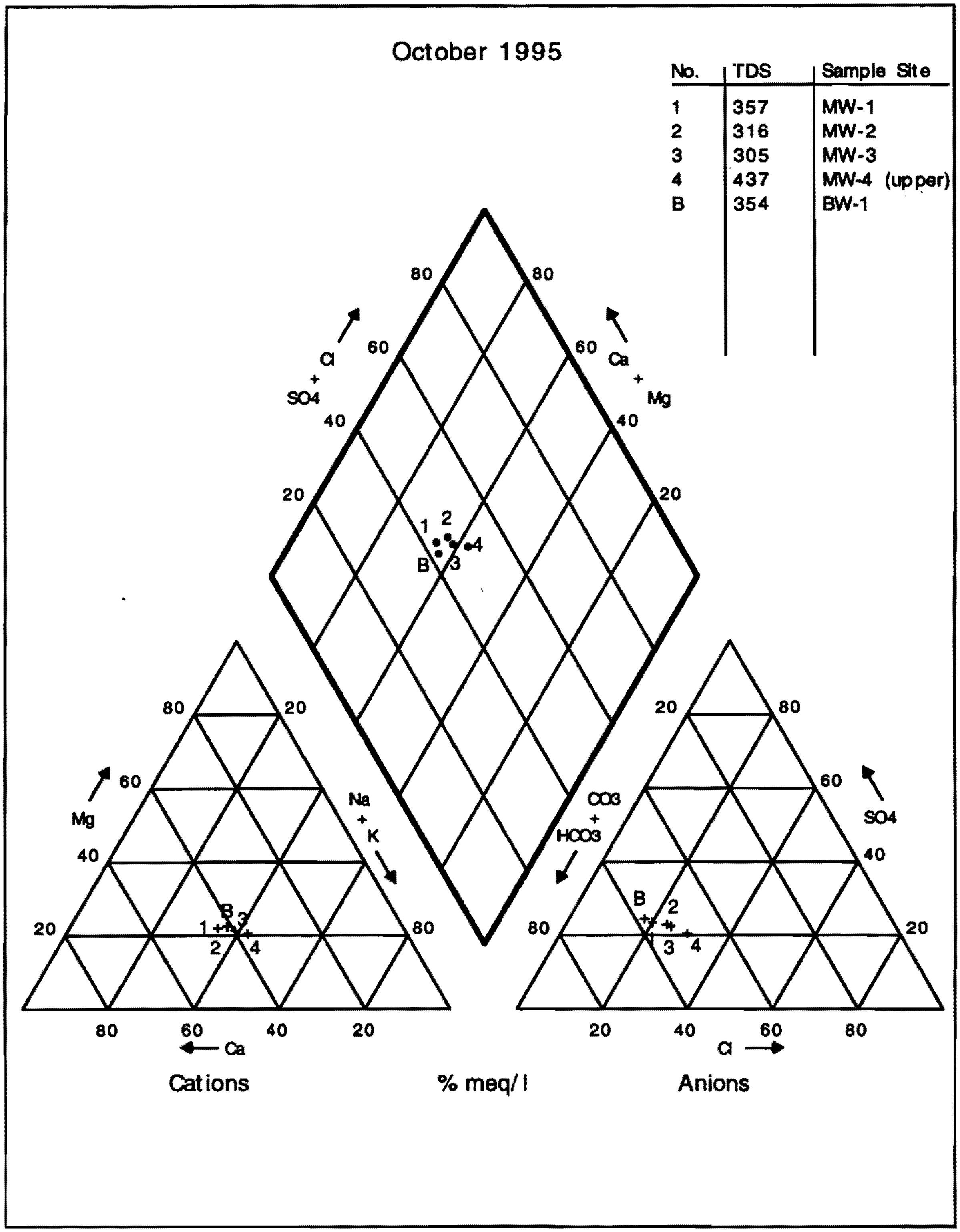

Figure 5.4-4 Piper Trilinear Diagram of MWL Groundwater Quality, October 1995

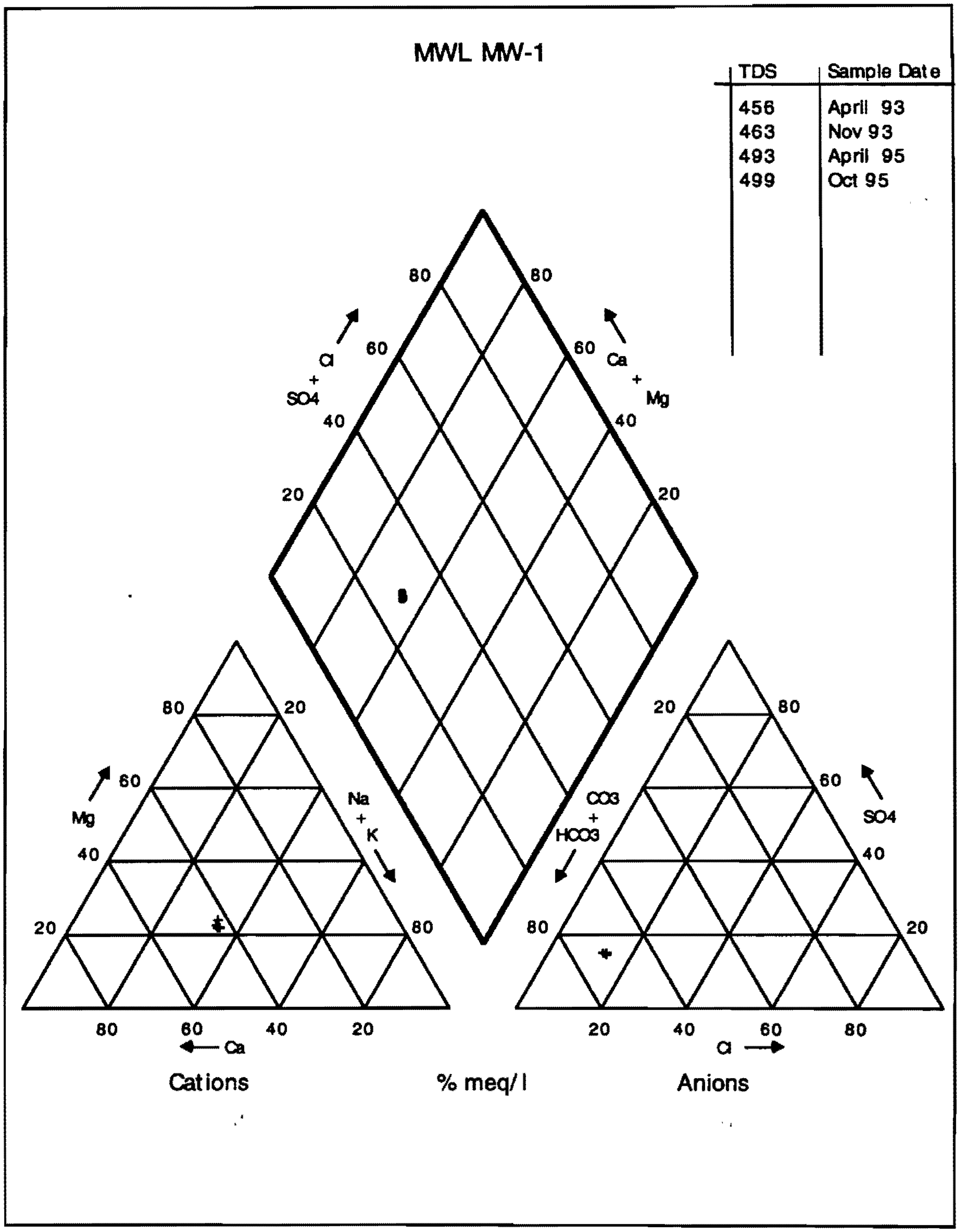

Figure 5.4-5 Piper Trilinear Diagram of MW-1 Groundwater Quality

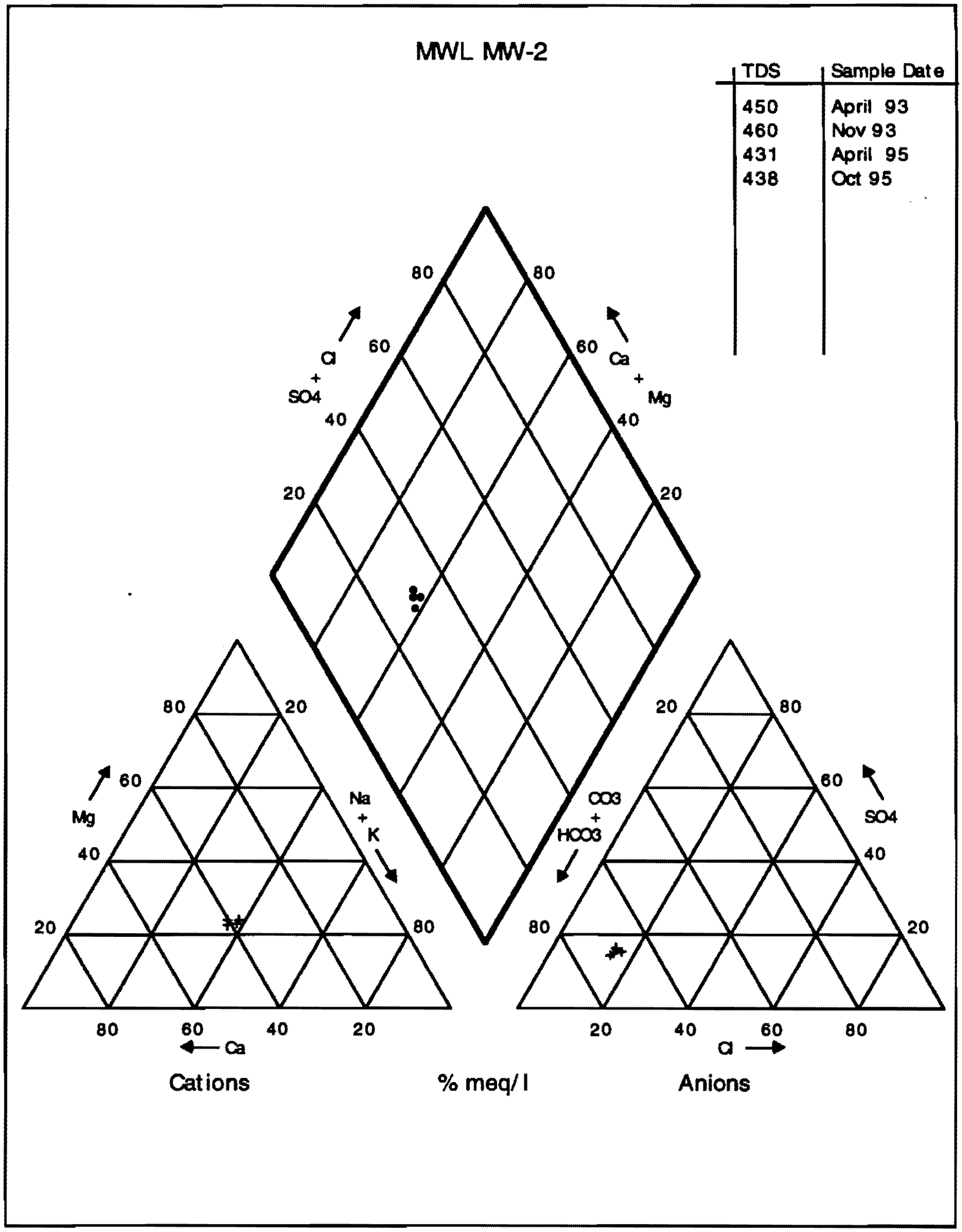

Figure 5.4-6 Piper Trilinear Diagram of MW-2 Groundwater Quality

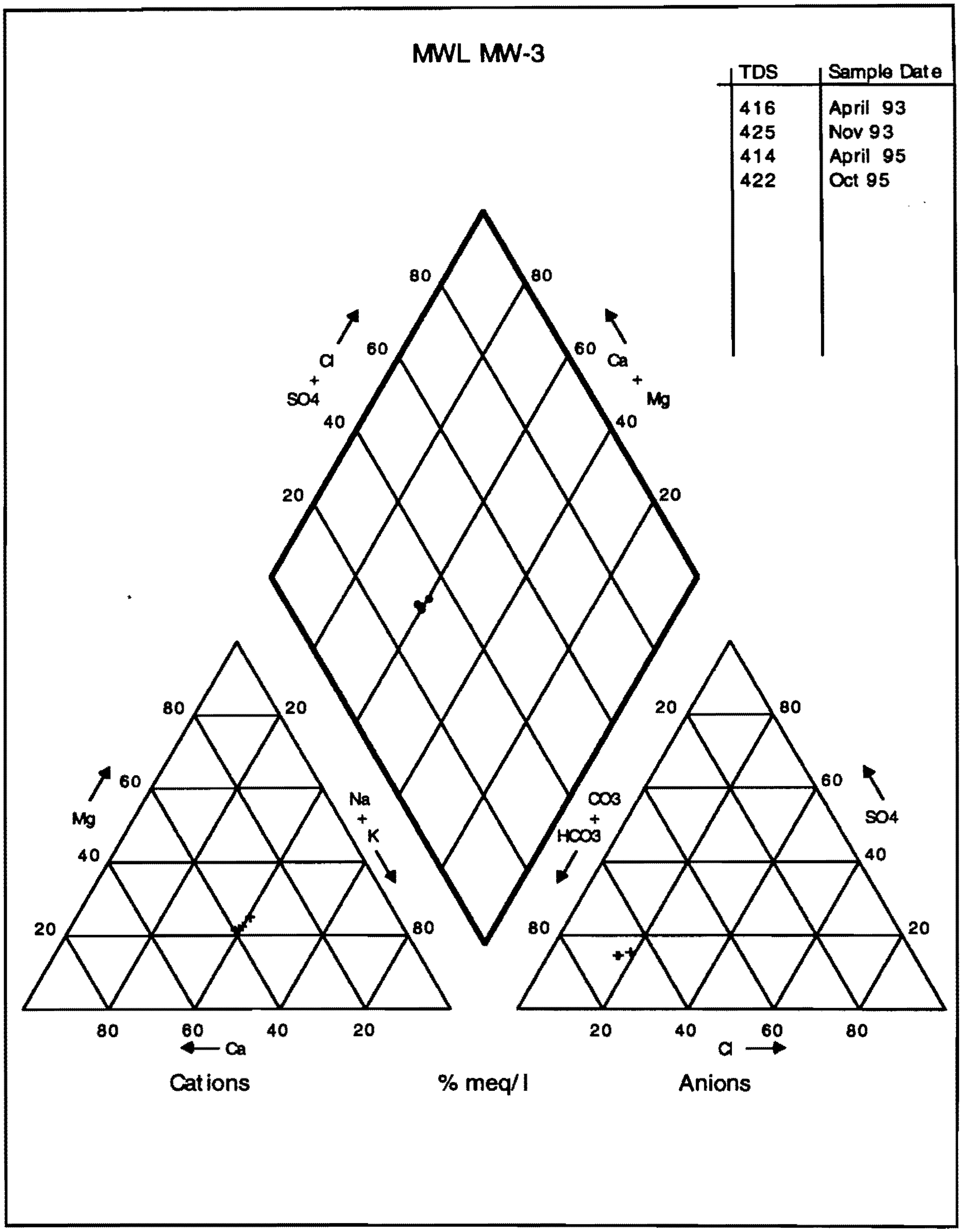

Figure 5.4-7 Piper Trilinear Diagram of MW-3 Groundwater Quality

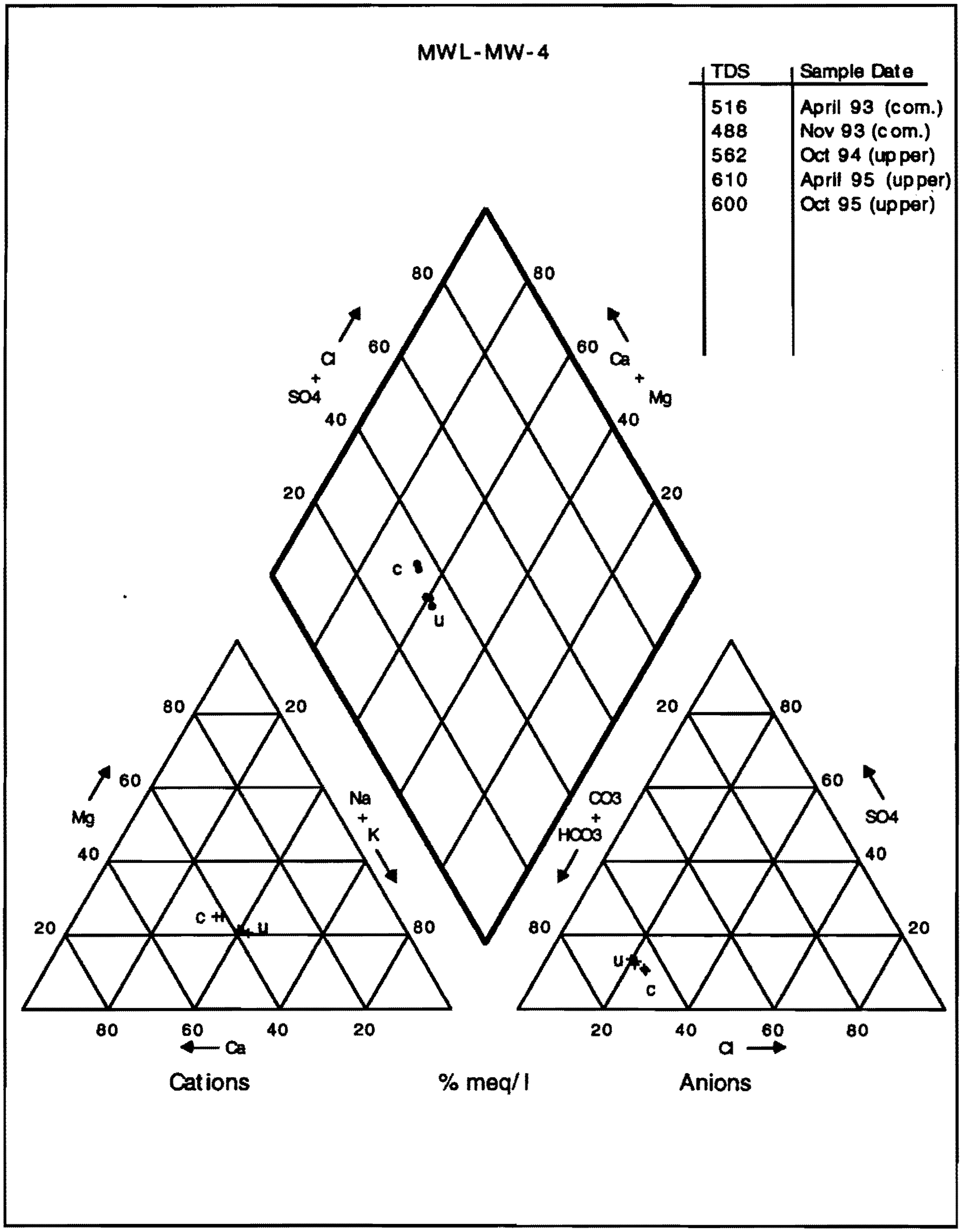

Figure 5.4-8 Piper Trilinear Diagram of MW-4 Groundwater Quality

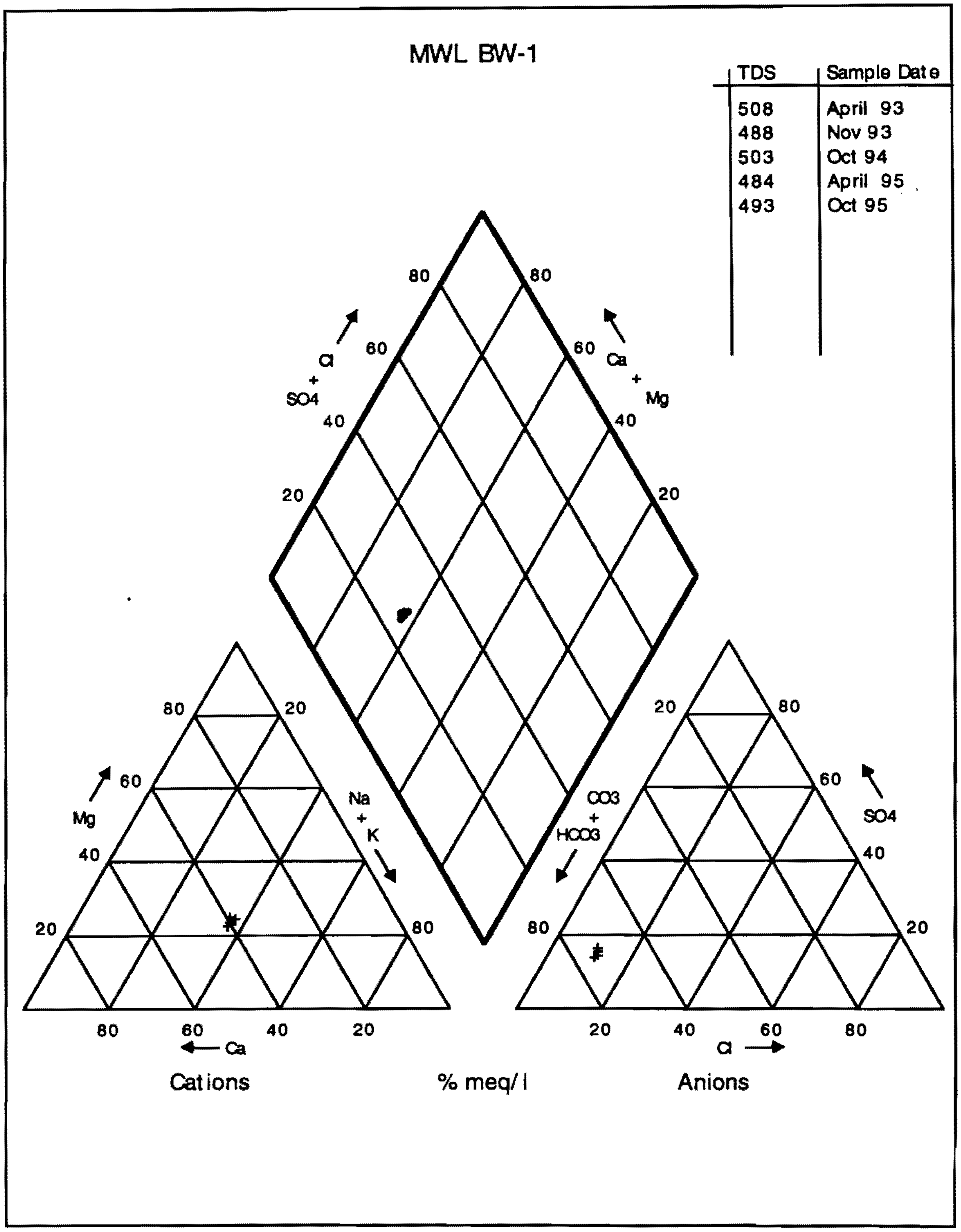

Figure 5.4-9 Piper Trilinear Diagram of BW-1 Groundwater Quality

Stiff Diagrams

Stiff diagrams are an alternative method of presenting major-ion chemistry data in a manner that facilitates quick visual comparisons of groundwater chemical analyses. Stiff diagrams for groundwater samples collected from all five MWL monitoring wells during April 1993, November 1993, April 1995, and October 1995 are presented in Figures 5.4-10 through 5.4-13. Stiff diagrams for each monitoring well are presented in Figures 5.4-14 through 5.4-18.

Figures 5.4-10 through 5.4-13, again, show the consistency in groundwater quality in MW-1, MW-2, MW-3, MW-4 and BW-1 for the period April 1993 through October 1995. Stiff diagrams for individual monitoring wells show the same consistency in groundwater quality.

Again, the subtle differences in major-ion chemistry between the upper and lower zones of MW-4 can be observed. Figure 5.4-17 shows the slight variation in major-ion chemistry for groundwater from MW-4 for the period between November 1993 and October 1994, reflecting installation of the Baski packer in June 1994. The Stiff diagrams prior to June 1994 show the major-ion chemistry of commingled groundwater from the upper and lower zones, while the Stiff diagrams after June 1994 show the major ion chemistry from the upper zone only.

Major ion chemistry demonstrates conclusively that MWL groundwater chemistry has remained consistent over time. Stiff diagrams for MW-1, MW-2, MW-3 and MW-4 are almost identical to Stiff diagrams for background well BW-1.

5.4.1.2 TAL Metals and Nitrate

Concentrations of TAL metals and nitrate in groundwater at the MWL were compared to EPA MCLs and proposed Subpart S action levels (Table 5.4-8). Cadmium, lead, nickel, and thallium were detected in groundwater in concentrations at or slightly above the MCLs or action levels specified in the May 1995 EPA Drinking Water Standards and Health Advisories. No other analytes were found in groundwater at levels above the MCLs or Subpart S action levels. The complete groundwater quality data set for TAL metals and nitrate are presented in Appendix J.

Cadmium was detected in MW-2, MW-3, and BW-1 in concentrations exceeding the MCL of 0.005 mg/L in January 1993. Concentrations ranged from 0.016 mg/L in MW-2 to 0.031 in BW-1. Although the concentration of cadmium in MW-1 exceeded the MCL, the matrix spike recovery and the RPD for cadmium were out of QC limits during analysis of the January 1993 samples. No cadmium has been detected in any of the monitoring wells in concentrations exceeding the MCL since January 1993.

Lead was detected in MW-1 in November 1993 at 0.018 mg/L, slightly above the action level of 0.015 mg/L. No lead has been detected in any of the monitoring wells in concentrations exceeding the MCL since November 1993.

Nickel has been detected in only one monitoring well, MW-1, in concentrations at or slightly above the MCL of 0.10 mg/L. Nickel was detected in MW-1 in July 1992 (0.15 mg/L), May 1994 (0.15 mg/L and 0.13 mg/L duplicate), October 1994 (0.10 mg/L), November 1994 (0.13 mg/L), April 1995 (0.12 mg/L), and October 1995 (0.107 mg/L).

Thallium was detected in BW-1 in October 1995 at 0.00263 mg/L, slightly above the MCL of 0.002 mg/L.

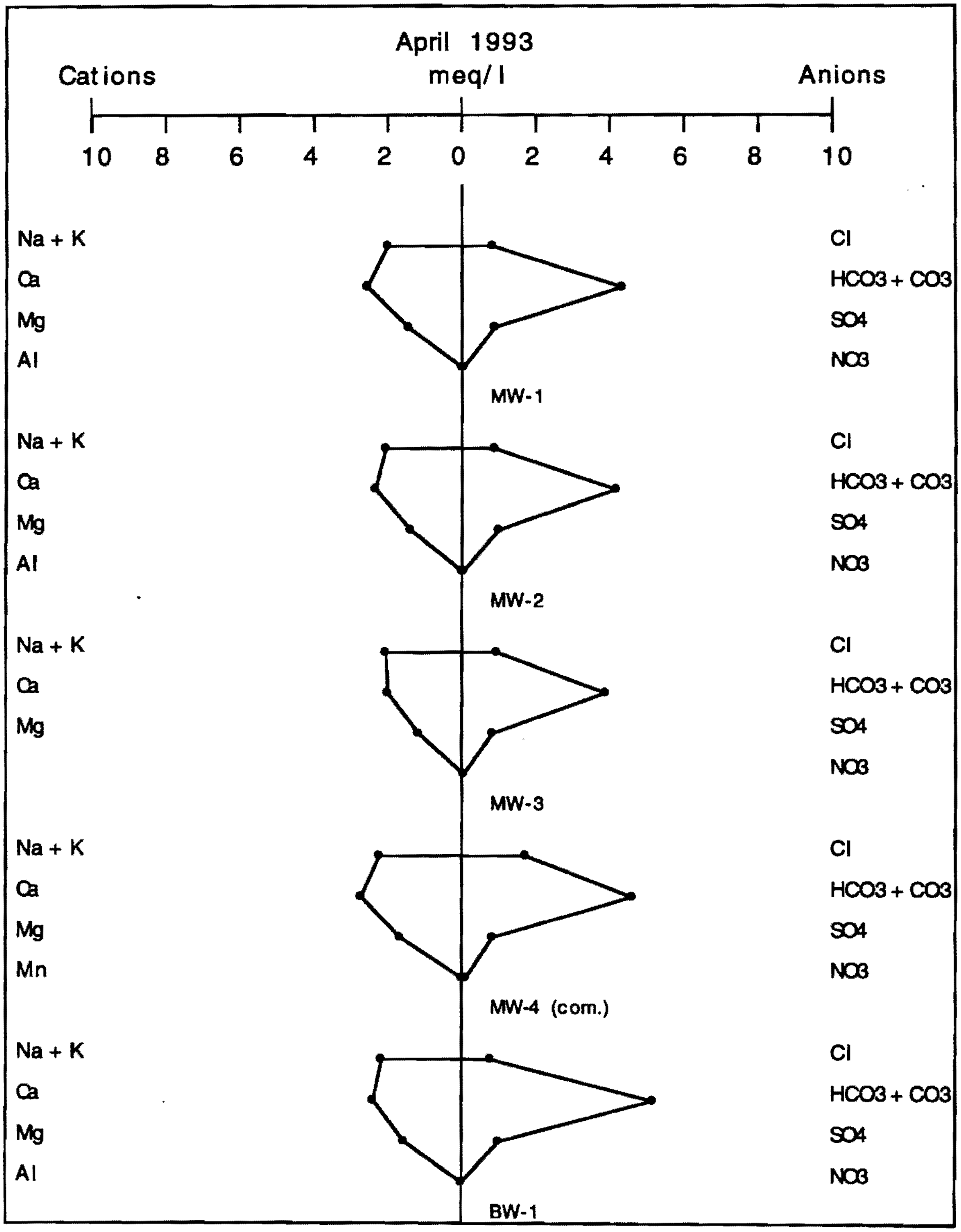

Figure 5.4-10 Stiff Diagram of MWL Groundwater Quality, April 1993

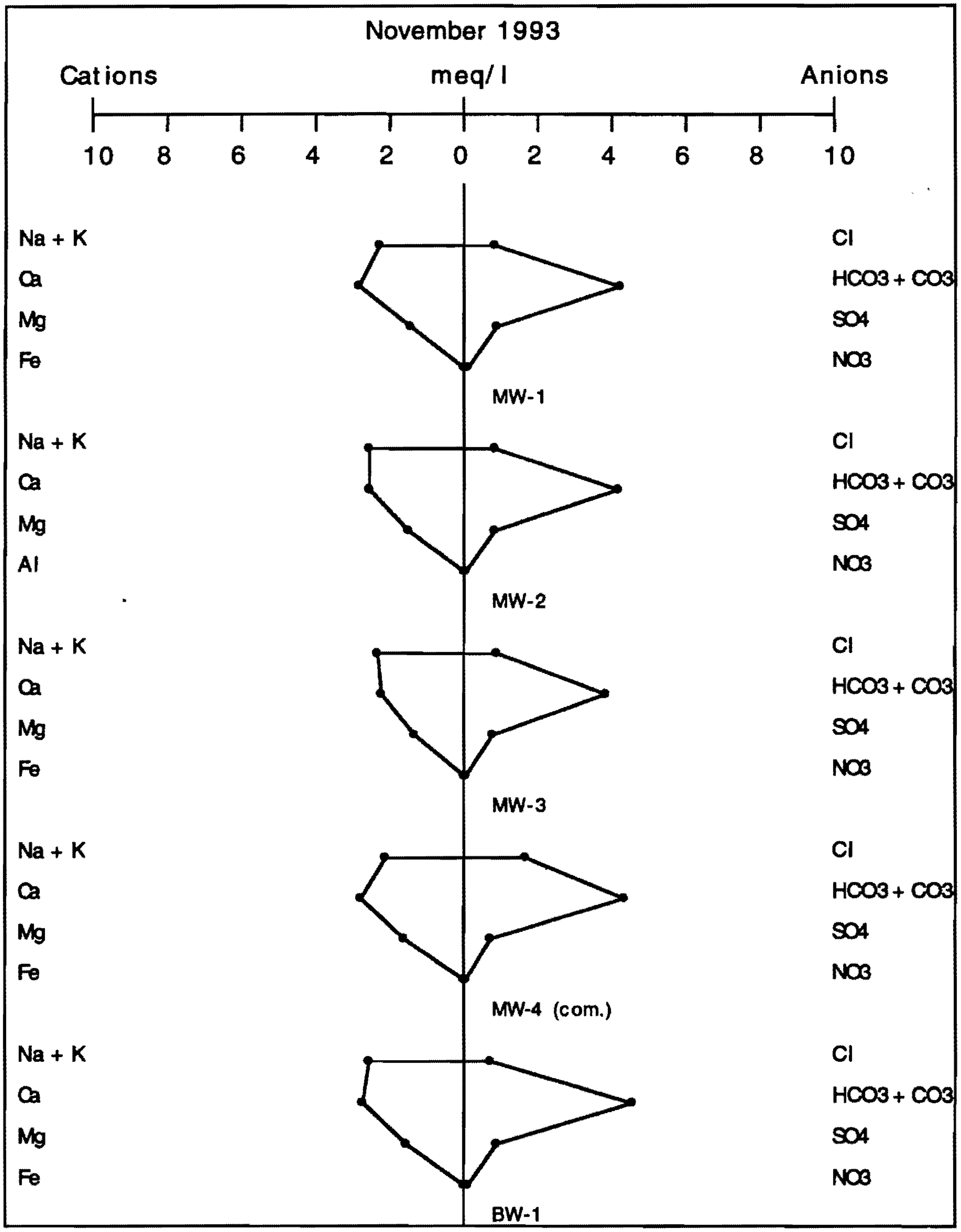

Figure 5.4-11 Stiff Diagram of MWL Groundwater Quality, November 1993

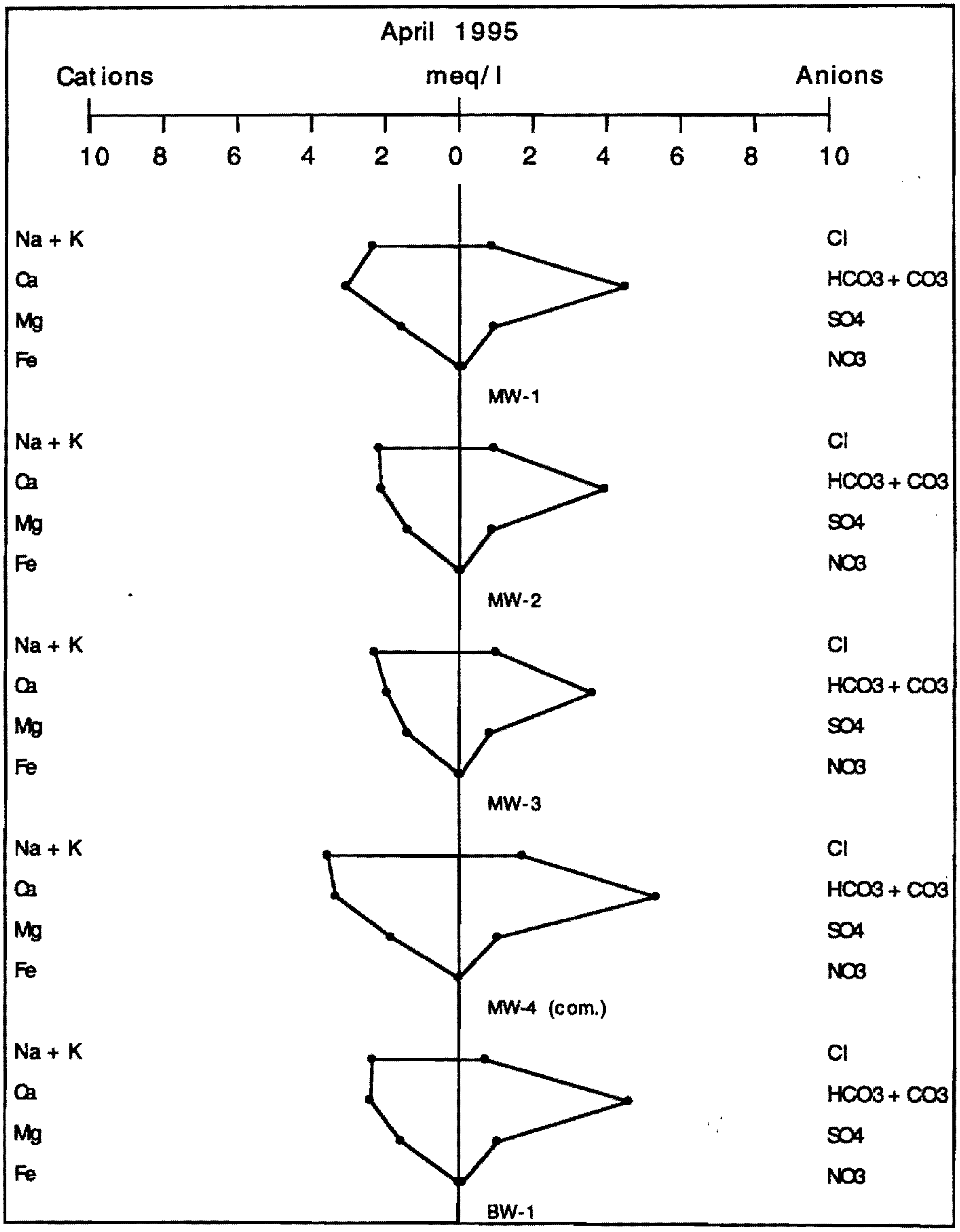

Figure 5.4-12 Stiff Diagram of MWL Groundwater Quality, April 1995

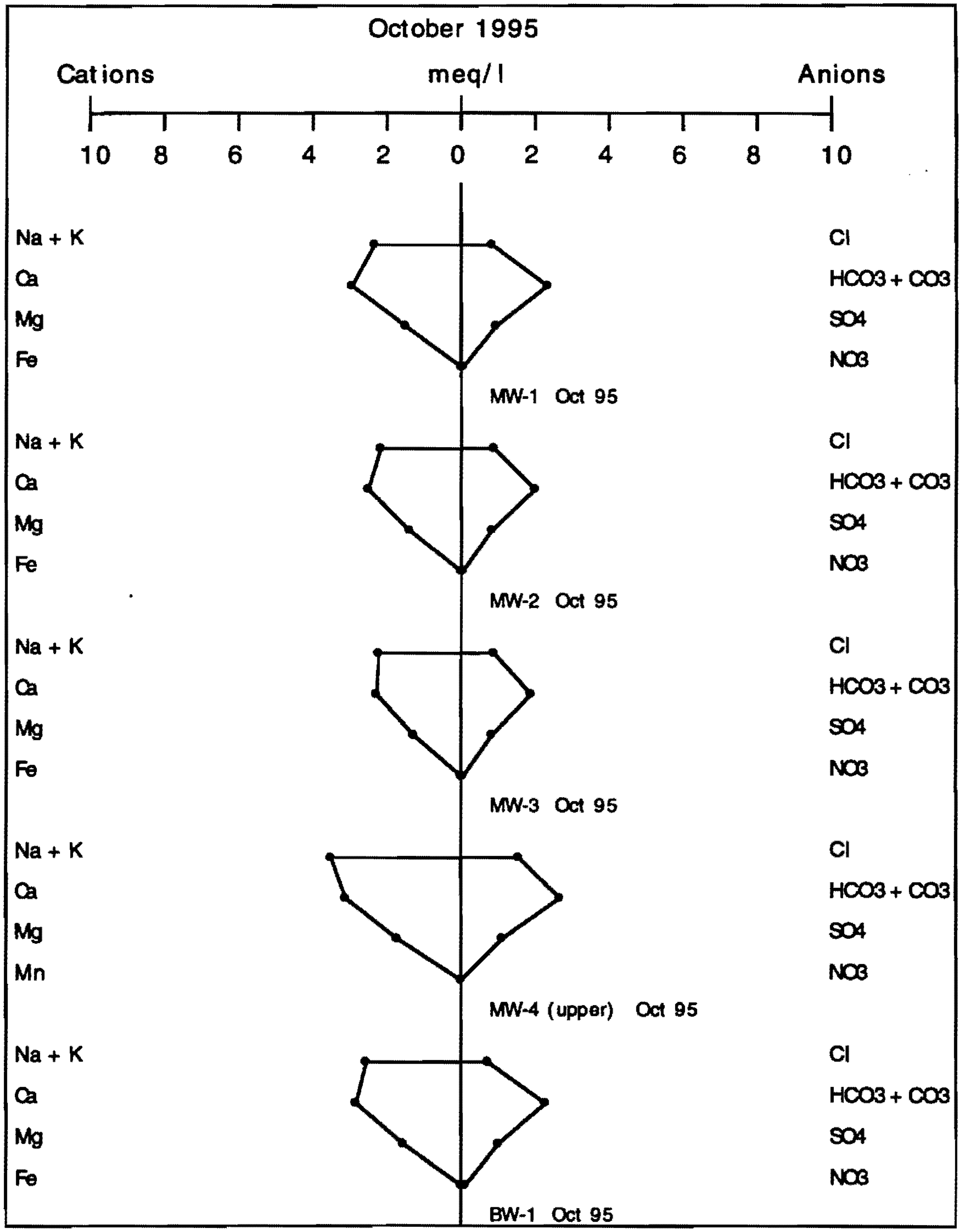

Figure 5.4-13 Stiff Diagram of MWL Groundwater Quality, October 1995

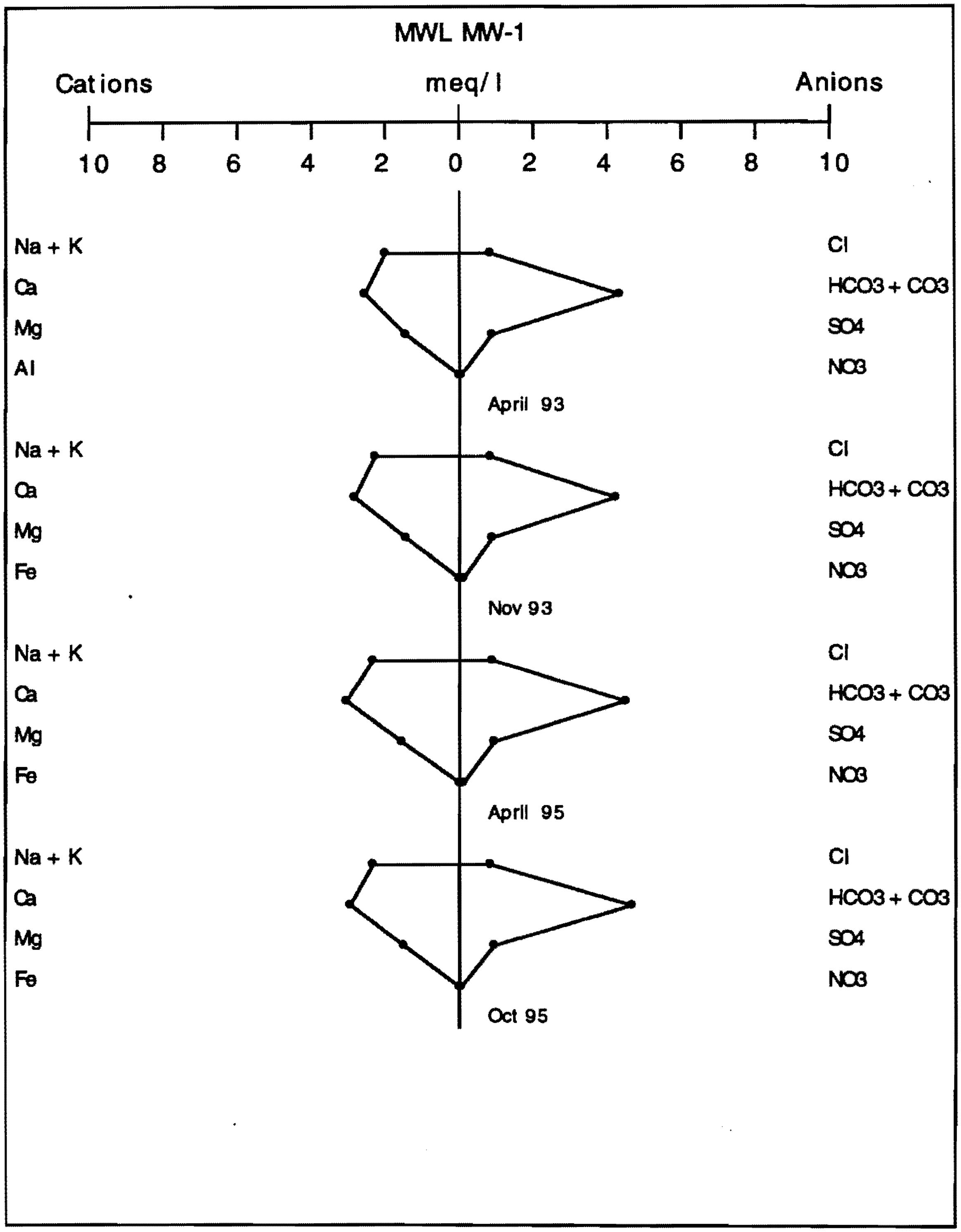

Figure 5.4-14 Stiff Diagram of MW-1 Groundwater Quality

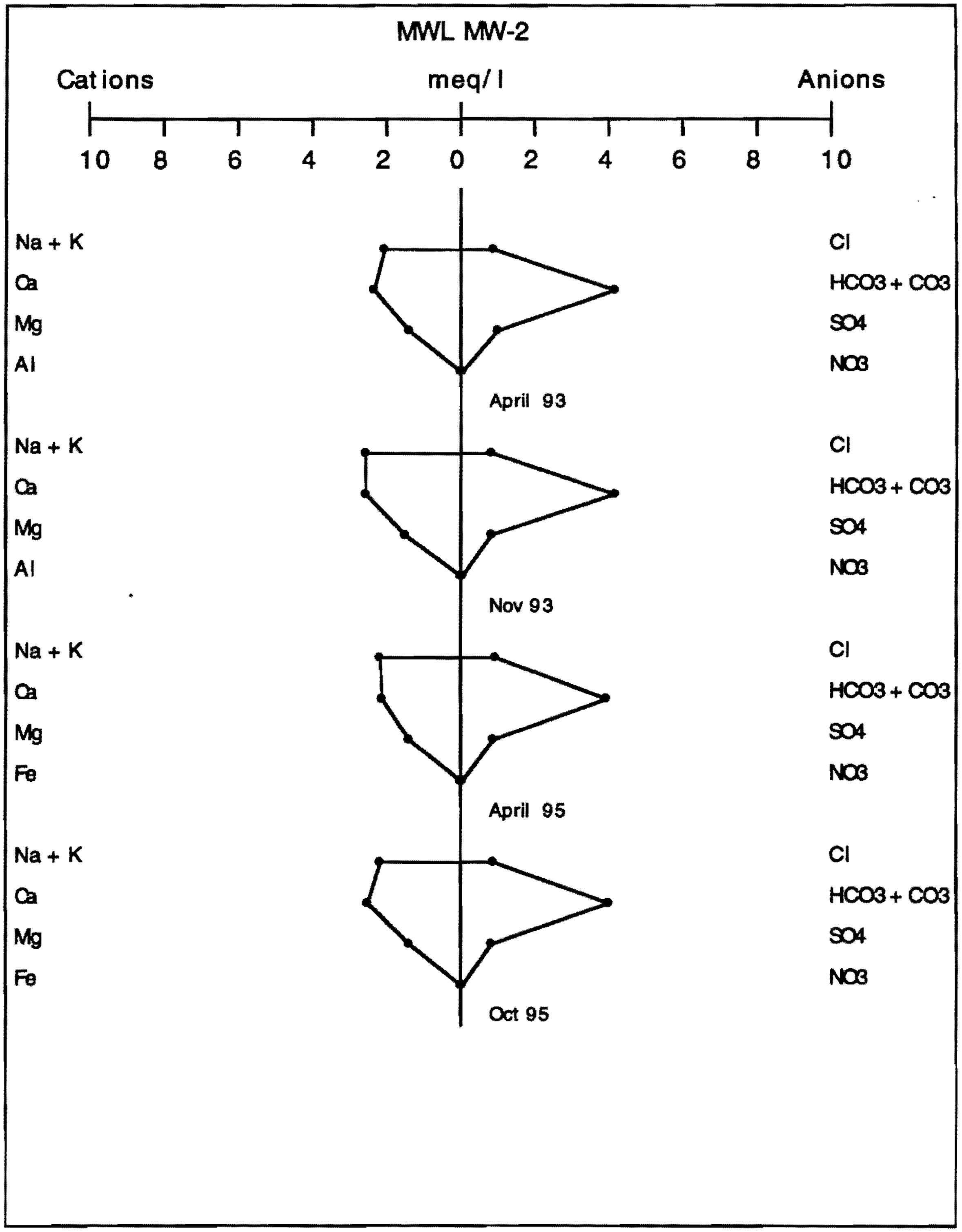

Figure 5.4-15 Stiff Diagram of MW-2 Groundwater Quality

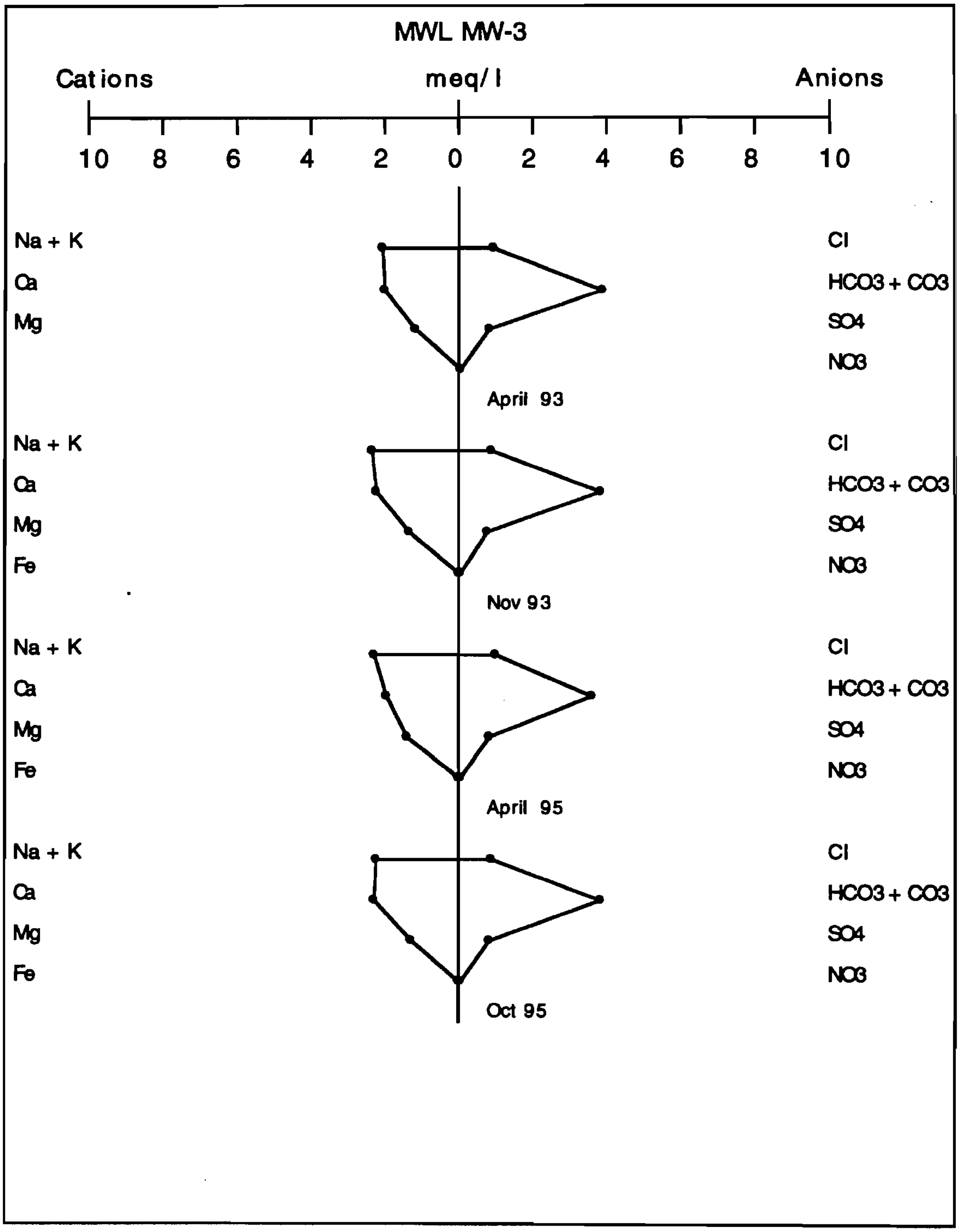

Figure 5.4-16 Stiff Diagram of MW-3 Groundwater Quality

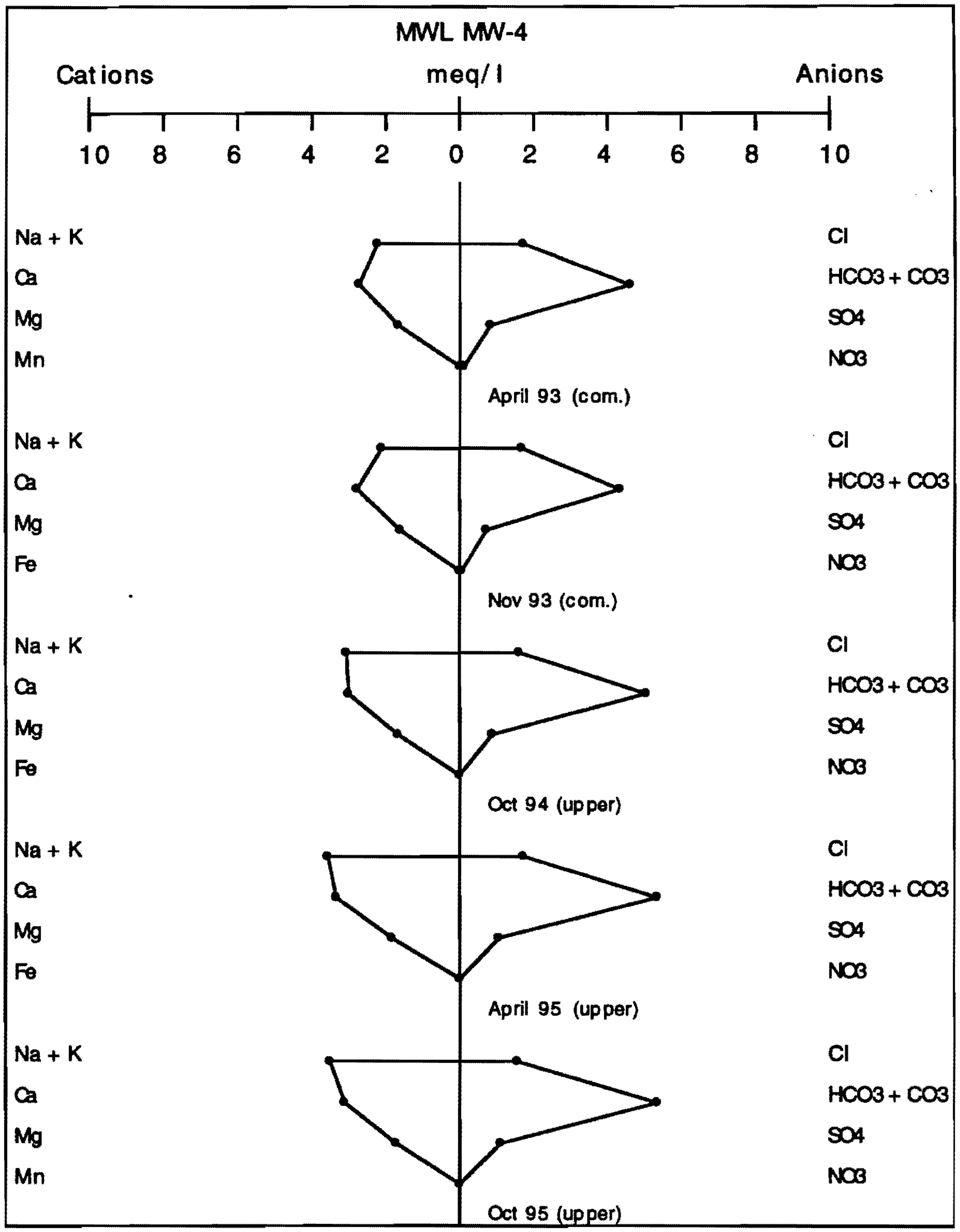

Figure 5.4-17 Stiff Diagram of MW-4 Groundwater Quality

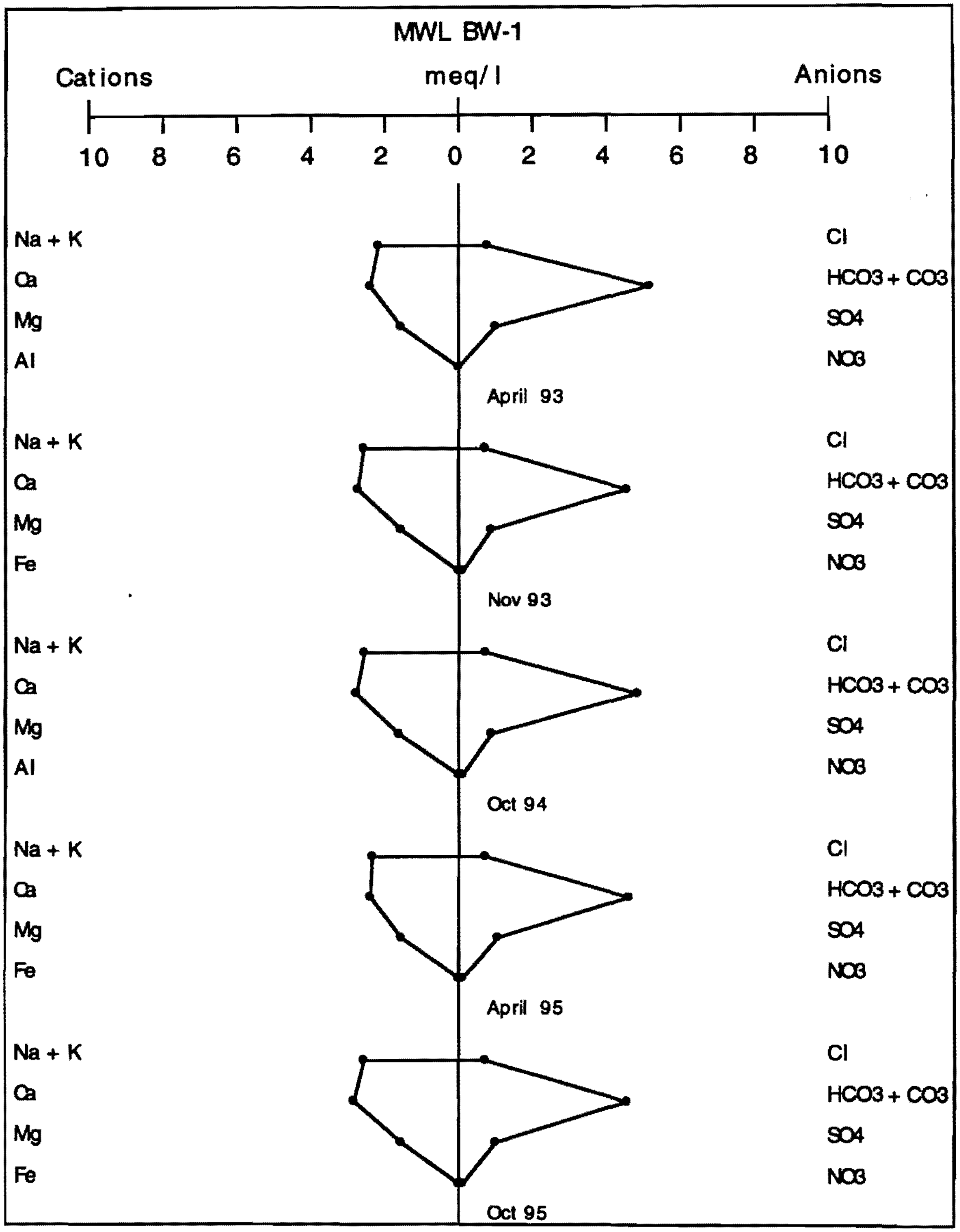

Figure 5.4-18 Stiff Diagram of BW-1 Groundwater Quality

Table 5.4-8
Comparison of MWL TAL Metals and Nitrates to EPA MCLs and Subpart S Action Levels

MWL Groundwater Data[a]									EPA Standards	
Parameter	Sample Size	Number of Detections	Minimum (mg/L)	Maximum (mg/L)	Arithmetic Mean (mg/L)	Geometric Mean (mg/L)	Median (mg/L)	Standard Deviation (mg/L)	MCL[b] (mg/L)	Subpart S Action Level (mg/L)
Aluminum	56	31	0.012	0.267	0.061	0.054	0.050	0.0391	—[c]	—
Antimony	64	5	<0.00096	0.00235	0.028	0.022	0.030	0.0079	0.006	0.01
Arsenic	104	21	0.001	0.011	0.0033	0.0029	0.0025	0.0018	0.05	—
Barium	104	104	0.056	0.13	0.089	0.088	0.091	0.0161	2.	—
Beryllium	64	6	<0.00001	0.0024	0.001	0.0008	0.0010	0.0003	0.004	8.E-06[d]
Cadmium	104	10	0.00012	0.031	0.0033	0.0025	0.0025	0.0045	0.005	—
Calcium	56	56	39.2	83.0	53.44	52.92	53.20	7.74	—	—
Chromium	104	37	<0.0006	0.056	0.009	0.0068	0.0050	0.0085	0.1	—
Cobalt	64	4	<0.00018	0.0041	0.005	0.0040	0.0050	0.0012	—	—
Copper	64	22	<0.00054	0.015	0.009	0.007	0.010	0.0034	1.3[d]	1.0[d]
Iron	96	55	0.0134	1.3	0.139	0.085	0.050	0.1973	—	—
Lead	104	6	<0.00113	0.018	0.0046	0.0031	0.0025	0.0056	0.015 [d]	—
Magnesium	56	56	13.5	28.1	18.314	18.170	18.350	2.3719	—	—
Manganese	96	36	0.0043	0.17	0.014	0.008	0.005	0.0259	—	0.2[e]
Mercury	104	7	<0.00001	0.0007	0.0001	0.0000	0.0001	0.0001	0.002	—
Nickel	64	35	0.00196	0.15	0.035	0.022	0.020	0.0387	0.1	.7
Nitrate	40	40	0.713	6.2	4.372	3.947	4.7	1.437	10.	—
Nitrate/Nitrite	30	30	0.6	5.9	4.3	3.7	5.1	1.7	10.	—
Potassium	56	46	2.5	6.1	3.705	3.573	3.600	1.0375	—	—
Selenium	104	18	<0.00143	0.0071	0.2674	0.0067	0.0025	0.7516	0.05	—
Silver	104	0	ND	ND	ND	ND	ND	ND	—	0.2 [e]
Sodium	96	96	44.3	80.7	53.948	53.565	53.450	6.8281	—	—
Thallium	64	7	<0.00207	0.00263	0.005	0.004	0.005	0.0040	0.002	—
Vanadium	64	39	0.0044	0.011	0.0062	0.0060	0.0053	0.0016	—	0.2[e]
Zinc	64	55	0.0044	2.1	0.078	0.033	0.035	0.2595	—	10.

(a) MWL groundwater data from 1990 through 1995
(b) Maximum contaminant level
(c) Indicates MCL or Subpart S Action Level not established.
(d) Action level from May 1995 EPA Drinking Water Standards and Health Advisories.
(e) Action level calculated based on toxicity information from the IRIS database (EPA, 1995a).
ND Not Detected

5.4.1.3 Radionuclides

Radionuclides in groundwater at the MWL are summarized statistically in Table 5.4-9. 1994 and 1995 groundwater radiochemical analysis results are presented in Appendix K. Radiochemical analysis results were compared to the DOE DCGs and laboratory-calculated MDAs and critical levels, where available.

Much of the pre-1994 radionuclide data did not have MDAs or critical levels calculated for their respective data packages. Pre-1994 QA/QC requirements were less rigorous, therefore, these data were not included in Appendix K.

Gross alpha activities
No gross alpha activities in MWL groundwater monitoring wells exceeded the proposed EPA MCL of 15 pCi/L in 1994 and 1995 data.

Uranium
Uranium occurs naturally in Albuquerque soils at levels ranging from 0.99 to 6.60 ppm, and in the Sandia Mountains granite at levels ranging from 0.94 to 6.89 ppm (Brookins, 1992). Uranium occurs naturally in groundwater at SNL,NM at concentrations of up to 0.0149 mg/L (SNL,NM 1995b).

Groundwater samples from MWL monitoring wells indicate that total uranium concentrations in groundwater range from 0.0028 to 0.0078 mg/L. These concentrations are well within the background range for total uranium at SNL,NM and well below the proposed EPA drinking water standard of 0.020 mg/L. Uranium detected in groundwater at the MWL is most likely from natural sources.

An anomalous uranium value of 2.69 mg/L was measured in a groundwater sample from MW-4 in October 1994. This value is substantially higher than uranium concentrations measured in other MWL monitoring wells. Based on summed isotopic uranium values reported for this sample, the estimated concentration of total uranium in this sample is 0.0065 mg/L (IT Corporation, 1995). This is the value presented in Appendix K for 1995. The isotopic uranium concentrations reported for this sampling period from MW-4 are consistent with previously measured concentrations from this monitoring well.

Strontium-90
Sr-90 activities were not detected in MWL groundwater above the DCG of 40 pCi/L. However, in April 1993, low levels of Sr-90, ranging from 2.2 to 5.7 pCi/L, were detected in groundwater samples. Although these values are well below DOE DCGs, they are believed to be erroneous for the following reasons: 1) Sr-90 was not detected above MDAs in MWL monitoring wells prior to this sampling event; 2) the radiological data set for April 1993 was particularly problematic, and the data quality from this sampling period is questionable; 3) the duplicate sample for Sr-90 (collected from BW-1), indicated a value of 4 pCi/L in one sample, and was not detected in the duplicate sample. This lack of consistency raises questions as to the validity of the April 1993 Sr-90 data; and 4) no subsequent sampling events at the MWL have detected levels of Sr-90 at the levels measured in April 1993.

Isotopic Thorium
In October 1994, activities of thorium-228, thorium-230, and thorium-232 exceeding the DCGs were measured in samples from several MWL monitoring wells. However, the isotopic thorium data from this sampling period are suspect for the following reasons: 1) isotopic thorium analyses performed in triplicate for the samples in question showed a high degree of variability, raising questions about the validity of the data; 2) concurrent gamma spectral analyses did not indicate the presence of measurable concentrations of thorium-228, whereas the laboratory reported thorium-228 concentrations in excess of 20 pCi/L; and 3) subsequent groundwater sampling did not show elevated levels of isotopic thorium. Consequently, the isotopic thorium data from October 1994 are suspect, and are not included in the statistical summary presented in Table 5.4-9. These data, however, are included in Appendix K.

Tritium
The tritium data set for 1994 and 1995 MWL groundwater samples is presented in Appendix K. During October 1991 sampling, tritium activities of up to 1200 pCi/L were detected in MWL groundwater. These tritium activities are considered questionable. Tritium was detected in three out of the four equipment blanks at levels of up to 4,340 pCi/L during October 1991 sampling and subsequent sampling has not shown elevated levels of tritium.

Trend Analysis for Radionuclide Parameters
Appendix L presents control charts for three "indicator" radionuclide parameters (tritium, gross alpha, and gross beta) that can be used to identify elevated activity values which indicate either contamination or laboratory error. The control charts portray the mean, and one and two sigma values above the mean for each set of analyses for a given monitoring well.

Overall statistical distributions for the MWL were considered when calculating the control values for each parameter. For the purpose of generating and interpreting these control charts, each parameter was assumed to be approximately normally-distributed, and hence, no logarithmic transformation of the data was required.

None of the data for any of the parameters exceed the 2 sigma value (the 95% confidence value) for any given monitoring well. Thus, there is no evidence of increasing activities of tritium, gross alpha, or gross beta in groundwater at the MWL over time.

5.4.1.4 Organic Compounds

Groundwater samples from MWL monitoring wells were analyzed for Appendix IX compounds in September 1990 and in July 1992. Since then, MWL groundwater samples have been analyzed semi-annually for EPA 8260 VOCs and EPA 8270 SVOCs. The results of these analyses, presented in Appendix M, are predominantly non-detects.

Occasionally, common laboratory contaminants including acetone and bis (2-ethylhexyl) phthalate have been identified in both groundwater and QC samples. The presence of these constituents in method blanks and trip blanks suggests that they are attributable to laboratory contamination. Accordingly, VOC and SVOC results for these analytes were discounted.

5.4.2 Nature and Extent of Contamination in MWL Groundwater

Between September 1990 and October 1995, fifteen rounds of quarterly and semi-annual groundwater sampling have been conducted at the MWL. Extensive analyses for VOCs, SVOCs, TAL metals, and radionuclides have demonstrated conclusively that there is no groundwater contamination to date at the MWL.

Table 5.4-9
Comparison of MWL Radionuclides to DCGs and EPA Standards

MWL Groundwater Data[a]									Regulatory Guideline	
Radionuclide	Sample Size	Number of Detections[c]	Maximum (pCi/L) ± 2 sigma error[d]	MDA (pCi/L)	Arithmetic Mean (pCi/L)	Geometric Mean (pCi/L)	Median (pCi/L)	Standard Deviation (pCi/L)	DCG[f] (pCi/L)	EPA Drinking Water Standard (pCi/L)
Gross Alpha	24	18	11.3 ± 1.9	1.3	5.984	4.787	5.735	3.157	---[g]	15
Gross Beta	24	23	10.3 ± 3.6	2.5	5.95	5.32	5.75	2.09	---	---
Plutonium-238	23	0	ND	ND	ND	ND	ND	ND	1.6	---
Plutonium-239/240	22	3	0.052 ± 0.059[e]	0.04	0.0210	0.0153	0.0188	0.0156	1.2	---
Strontium-90	22	1	0.30 ± 0.32[e]	0.26	0.32	0.18	0.23	0.28	40	---
Thorium	10	5	0.03 ± 0.023	0.02	0.012	0.010	0.009	0.009	50	---
Thorium-228	10	3	0.059 ± 0.044	0.040	0.035	0.026	0.036	0.018	16	---
Thorium-230	16	5	0.194 ± 0.053	0.041	0.044	0.026	0.024	0.054	12	---
Thorium-232	6	0	ND	ND	ND	ND	ND	ND	2	---
Tritium	26	1	270 ± 160	260	104	83	90	69	80,000	---
Total Uranium (mg/L)[b]	13	12	0.00784 ± 0.83[e]	0.001	0.0053	0.0047	0.0055	0.0020	0.035	0.020
Uranium-233/234	16	16	7.7 ± 1.2	0.019	5.35	5.23	5.35	1.14	20	---
Uranium-234	7	6	7.97 ± 1.7	0.19	5.92	3.44	7.28	2.74	20	---
Uranium-235	16	16	0.23 ± 0.1	0.025	0.149	0.141	0.155	0.047	24	---
Uranium-235/236	7	6	0.43 ± 0.26	0.24	0.265	0.224	0.260	0.127	20	---
Uranium-238	23	22	3.18 ± 0.81	0.07	2.135	1.873	2.200	0.617	24	---

(a) MWL groundwater data from 1994 and 1995. Pre-1994 data had less rigorous QA/QC requirements, and were not used in this statistical analysis.
(b) All values for total uranium, including analytical results, DCG, and EPA Drinking Water Standard, are in mg/L.
(c) Detections are defined as any radionuclide values exceeding the minimum detectable activity (MDA).
(d) Laboratory results have an uncertainty of ± 2 sigma error; if the 2 sigma value equals or exceeds the laboratory-measured activity, the radionuclide is not considered to be present.
(e) Radionuclide is not considered to be present, because the 2 sigma value exceeds the laboratory-measured activity.
(f) DCG - Derived Concentration Guide for water (DOE, 1990)
(g) Indicates DCG or EPA Drinking Water Standard not established.

5.5 MWL Aquifer Testing

MWL aquifer parameters were obtained by conducting pumping tests on the upper and lower zones of MW-4. To supplement this data, additional drawdown and recovery data were collected during semi-annual groundwater sampling of MW-1, MW-2, MW-3, and BW-1. These data were analyzed to assess aquifer transmissivity.

Pumping tests were conducted on MW-4 upper and lower zones. A 72-hour pumping test was conducted on the lower zone in March 1994, and a 13.3-hour pumping test was conducted on the upper zone in June 1994. The upper and lower zones were isolated from each other during the pumping test with a Baski packer, and the pressure responses in each zone and in nearby MWL monitoring wells were monitored with transducers.

During each pumping test, no pressure response was observed in the isolated, non-tested zone or in nearby monitoring wells. This lack of a response is due to the low permeability and vertical anisotropy of MWL hydrogeology.

5.5.1 Results of MWL Aquifer Testing

Analysis of MW-4 aquifer test data and MWL monitoring well recovery data indicate that the hydraulic conductivities of MWL geologic strata are representative of silty sands (Freeze and Cherry, 1979). The results of these analyses are summarized in Table 5.5-1.

Table 5.5-1 MWL Aquifer Parameters

Monitoring Well	Transmissivity (ft^2/day)	Storativity	Hydraulic Conductivity (ft/day)	Completion Interval (ft bgs)
MW-1	1.09	NA	$5.48x10^{-2}$	445.5 - 478.7
MW-2	$2.08x10^{-2}$	NA	$1.02x10^{-3}$	441.8 - 478
MW-3	$9.23x10^{-2}$	NA	$5.10x10^{-3}$	446 - 478
BW-1	0.80	NA	$5.03x10^{-2}$	443 - 478
MW-4 upper	0.315 - 1.83	NA	$7.23x10^{-2}$	473 - 508
MW-4 lower	48.0	NA	1.48	520 - 552.5

NA Not Analyzed

Aquifer test data indicate that MW-4's lower zone has a hydraulic conductivity several orders of magnitude greater than MW-4's upper zone and the completed zones of the other MWL monitoring wells. The average (geometric mean) hydraulic conductivity of MW-1, MW-2, MW-3, and BW-1 is $1.09x10^{-2}$ ft/day. The hydraulic conductivity of MW-4's lower zone is 1.48 ft/day.

Storativity values could not be calculated for MWL monitoring wells because the aquifer tests did not yield any observed drawdown in observation wells (MW-1, MW-2, MW-3). However, storativity values measured at the Chemical Waste Landfill, 3 miles to the south, range from $2x10^{-4}$ to $3x10^{-5}$ (SNL,NM 1995c). The storativity of the aquifer at the MWL is probably similar, due to the similar hydrogeology beneath these two sites.

MW-4 aquifer test results indicate that aquifer vertical anisotropy is significant. During testing, no potentiometric responses were observed in adjoining MW-4 zones or in MWL observation wells. These data suggest that aquifer horizontal hydraulic conductivities are several orders of magnitude greater than vertical hydraulic conductivities.

5.6 Groundwater Monitoring Well Network Assessment

The MWL monitoring well network was evaluated to determine whether it is adequate for detecting groundwater contamination beneath the landfill. The network assessment was conducted using analytical and numerical contaminant transport models.

Contaminant transport modeling was conducted by both Argonne National Laboratory and SNL,NM. Robert Johnson, a geohydrologist with the Environmental Assessment Division at Argonne, provided an analysis of the current and future human health risks posed by contaminant transport at the MWL. Elmer Klavetter, a risk assessment specialist at SNL,NM, provided contaminant transport analysis utilizing BOSS, a Sandia-generated code. Argonne and Sandia modeling results are discussed in the following sections.

5.6.1.1 Argonne National Laboratory Modeling

The approach utilized by Johnson relied on screening techniques applied to contaminant transport mechanisms. These screening techniques have been recommended by EPA as part of the characterization process for sites regulated under RCRA (EPA 1989a, 1990). The objective of screening techniques is not to fully quantify the probability distribution associated with the final risk assessment, but rather, where possible, to demonstrate whether or not the probability of a particular pathway delivering contaminants that pose human health risks above a pre-specified threshold is highly unlikely. If it can be demonstrated that significant human health risks are unlikely, then lengthy and costly site characterization and full-scale health risk assessments generally are not necessary.

To determine whether the MWL poses a risk to groundwater, a tiered screening approach was used. Vertical transport of tritium was evaluated, because tritium is the most mobile of the contaminants disposed of at the landfill, and because soil samples confirm that both vertical and lateral migration of tritium has occurred. Transport of other potential contaminants was also inferred from this analysis. The tiered approach used increasingly more sophisticated and detailed vadose zone fate-and-transport models to assess the potential for tritium migration to groundwater.

The first tier estimated the maximum infiltration depth of the 271,000 gallons of reactor coolant water disposed of in Trench D in 1967. Disposal of this coolant water represents the most significant and potentially deleterious disposal event at the landfill because Trench D was an active disposal trench at the time. Given the volume of reactor coolant water disposed of in Trench D, a residual volumetric soil moisture content of 9%, and a surface area for Trench D of 4500 ft^2, the total depth of penetration would be less than 100 ft. This volumetric calculation conservatively assumes no lateral spreading, evaporation, or radioactive decay.

The second tier used a one-dimensional analytical solution to a partial differential equation that describes the time-dependent fate and transport of a constituent moving vertically downward along a one-dimensional path while undergoing sorption, dispersion, volatization, and radioactive decay. This method expresses tritium activity as a function of time and depth. The analytical solution predicts that the maximum tritium concentration in groundwater will exceed the EPA Drinking Water Standard after 57 years. After 27 years, today's status, the analytical solution places the tritium pulse at approximately 110 ft bgs at 1,500,000 pCi/L. And at the water table, the 27-year concentration in groundwater would be approximately 750 pCi/L. The analytical solution is conservative, as it appears to significantly over-predict tritium transport after 27 years, based on Phase 2 RFI soil and groundwater data.

The third tier used a three-dimensional, two-phase groundwater flow and contaminant transport model, TRACR3D, developed at Los Alamos National Laboratory (Travis and Birdsell, 1991). TRACR3D allows for two-phase flow, with mass transfer between phases, and multi-component flow, with mass transfer between components, and modeling of radionuclides undergoing decay. Using TRACR3D to predict tritium penetration after 27 years, tritium activity reaches 2,800,000 pCi/L at 184 ft bgs. After an additional 100 years, tritium activity reaches 5400 pCi/L at 230 ft bgs. Again, the analytical solution appears to significantly over-predict tritium transport after 27 years, based on Phase 2 RFI soil and groundwater data.

5.6.1.2 SNL,NM Modeling

Klavetter utilized BOSS to simulate potential contaminant flow and transport of tritium, cesium, and strontium from the MWL. The computer simulations indicate that tritium migration from the landfill is affected significantly by radioactive decay, lateral dispersion, and low infiltration. Subsurface tritium activities decrease with time due to natural decay. No detectable activities of tritium in groundwater were predicted. These results are consistent with the findings of Johnson.

BOSS was also used to simulate contaminant flow and transport of cesium and strontium from the MWL, because an estimated 200 Ci of these detectable fission products were disposed of at the landfill. These radionuclides were predicted to migrate to a depth of less than 33 ft due to low initial activity and low mobility. These results are conservative because they do not account for adsorption.

BOSS predicts that detectable radionuclide activity in groundwater is not likely now or in the future. The simulations indicate that no detectable tritium activity will occur below 250 ft bgs. The conclusion is that there is no technical utility to placing additional groundwater wells at the MWL to monitor for tritium.

BOSS was also used to simulate aqueous- and vapor-phase flow and transport of VOCs from the MWL. Six of the VOCs detected at the MWL during active soil gas sampling (Section 4.6) were simulated. These VOCs include PCE, TCE, 1,1,1-TCA, dichloro-difluoromethane, trichloro-fluoromethane, and 1,1,2-trichloro-1,2,2-trifluoroethane.

Aqueous-phase Transport
BOSS predicts that aqueous-phase transport of VOCs from the MWL is limited to 66 ft bgs or less. Significant transport in the aqueous-phase is unlikely for any of the VOCs considered.

Vapor-phase Transport
BOSS calculated vapor-phase profiles with depth for the six VOCs considered. In all cases, initial soil gas concentrations drop to less than 10% of their original concentration within 200 ft bgs. Table 5.6-1 presents the initial soil gas concentrations for each VOC, the simulated soil gas concentration at the water-table interface, the groundwater concentration that would be expected at equilibrium, and proposed Subpart S action levels for each VOC.

Table 5.6-1 Summary of Predicted VOC Concentrations

VOC	Initial Soil Gas Concentration (ppbv)	Soil Gas Concentration at Water Table Interface (ppbv)	Equilibrium Groundwater Concentration (ppb)	Subpart S Action Level for water (ppb)
TCE	800	5	0.07	5
PCE	5,900	30	0.4	5
1,1,1-TCA	750	5	0.05	200
Dichloro-difluoromethane	29,000	15	1	7,000
Trichloro-fluoromethane	740	2	0.05	10,000
1,1,1-trichloro-1,2,2-fluoroethane	300	3	0.005	NA

NA No proposed RCRA Subpart S action level available. No toxicity information contained in IRIS.

Of the six VOCs considered, PCE is the only compound that may reach groundwater at concentrations within an order of magnitude of the Subpart S Action Level. The remaining five VOCs were not predicted to reach groundwater in detectable concentrations.

5.6.1.3 Field Verification of Modeling Results

MWL groundwater sampling results support the conclusions based on the computer simulations discussed above and suggest that the computer simulations are quite conservative. Phase 2 RFI data indicate that no significant movement of radionuclides, organic compounds, or inorganics has occurred from the MWL via the aqueous-phase pathway.

Phase 2 RFI data suggest that vapor-phase transport is a more significant transport mechanism than aqueous-phase transport at the MWL, because tritium and ppb levels of VOCs have migrated from the disposal pits and trenches. Tritium has migrated laterally 60 ft east of the classified area and to 120 ft bgs. VOCs have been detected in soil gas at 10 ft and 30 ft bgs. There is, however, no indication to date that these contaminants have migrated to groundwater. This conclusion is supported by data from the last 5.5 years of quarterly and semi-annual groundwater sampling at the MWL.

5.6.2 Conclusions

Based on Phase 2 RFI data and modeling results, the current MWL monitoring well network is considered adequate for detecting groundwater contamination. The existing network is capable of detecting contaminants entering groundwater through both aqueous-phase and vapor-phase pathways.

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6. Vadose Zone Characterization

6.1 Introduction

The MWL is underlain by an extensive vadose zone extending 460 ft bgs to groundwater. Consequently, meteoric water movement (and potential contaminant migration) beneath the landfill is likely to occur as unsaturated flow in the vadose zone.

To adequately assess the potential for contaminant migration from the MWL to groundwater, extensive vadose zone characterization was conducted, including:

- analyzing geochemical soil parameters;
- measuring unsaturated hydrologic flow parameters in the laboratory and in the field;
- assessing recharge at the MWL; and
- evaluating contaminant migration mechanisms in the vadose zone.

6.2 Geochemical Analysis of Soils

Persaud and Wierenga (1982) conducted a detailed geochemical study of solute interactions and transport in soils from the MWL. During this study, Pit 33 was dug in the classified area to a depth of 29 ft bgs. Soil core samples were collected from various soil horizons within and below the pit for geochemical and physical analyses. A detailed description of the soil profile in Pit 33 is presented in Table 6.2-1.

6.2.1 Geochemical Sampling

Saturation extracts from the soil core samples were prepared and analyzed for key geochemical parameters, and the core samples were analyzed for particle size distribution. Table 6.2-2 presents the results of these analyses, including the electrical conductivity and pH of the saturation extracts, the percent $CaCO_3$ and organic matter, and the cation exchange capacity of the samples. Table 6.2-2 also includes particle size fraction data from these samples. Additional particle size data are presented in Section 6.3.3.

Composite samples were collected from the bottom of Pit 33 between 28.0 ft bgs and 29.5 ft bgs, and between 30.2 ft bgs and 32.2 ft bgs. These samples were sieved to determine particle size distribution. The < 2 mm size fractions comprised more than 90 % by weight of each sample. Because this size fraction often exerts the greatest influence on geochemical adsorption processes, these fractions were further analyzed for specific geochemical properties such as free iron oxide content, organic carbon content, etc., which are likely to play a major role in solute mobility. The results are summarized in Table 6.2-3.

Table 6.2-1
Soil Profile Description from MWL Pit 33 (Persaud and Wierenga, 1982)

Horizon	Depth (cm)	Description
B21t	0-28	Yellowish red (5YR5/8) loamy fine sand, yellowish red (5YR4/6) moist; weak, coarse prismatic structure; hard, friable, slightly sticky and slightly plastic; few thin discontinuous clay films on ped faces; clear wavy boundary.
B22tca	28-46	Reddish yellow (7.5YR6/6) loamy find sand, yellowish red (5YR5/8) moist; weak coarse prismatic structure; very hard, firm slightly sticky and non-plastic; few thin discontinuous clay films on ped faces; violently effervescent with disseminated lime; clear wavy boundary.
B3ca	46-66	Reddish yellow (7.5YR7/6) loamy fine sand, light brown (7.5YR6/4) moist; weak coarse subangular blocky structure; slightly hard, firm, slightly sticky and non-plastic; violently effervescent with disseminated lime; clear wavy boundary.
B21tcab	66-97	Pink (7.5YR8/4) loamy fine sand, light brown (7.5YR6/4) moist; weak coarse subangular blocky structure; hard, firm, slightly sticky and non-plastic; few thin discontinuous clay films on ped faces; violently effervescent with disseminated lime, clear wavy boundary.
B22tcab	97-157	Pink (7.5YR7/4) very fine sandy loam, light brown (7.5YR6/4) moist; weak coarse prismatic structure; hard, firm, slightly sticky and non-plastic; violently effervescent with disseminated lime; five percent gravel; clear wavy boundary.
B3cab	157-180	Pink (7.5YR7/4) very fine sandy loam, brown (7.5YR5/4) moist; weak coarse prismatic structure; slightly hard, firm, slightly sticky and non-plastic; violently effervescent with disseminated lime; clear wavy boundary.
C1	180-201	Light brown (7.5YR6/4) loamy fine sand, brown (7.5YR5/4) moist; massive; soft, friable, non-sticky and non-plastic; violently effervescent with disseminated lime and common medium irregular soft masses of lime; clear wavy boundary.
IIC2	201-211	Light brown (7.5YR6/4) loamy fine sand, brown (7.5YR5/4) moist; massive; soft, friable, non-sticky and non-plastic; violent effervescent with disseminated lime and common medium irregular soft masses of lime and lime on the gravel; 10 percent gravel; clear wavy boundary.
IIIC3	211-226	Brown (7.5YR6/4) loamy fine sand, brown (7.5YR5/4) moist; massive; soft, very friable, non-sticky and non-plastic; violently effervescent with disseminated carbonates; five percent gravel; clear wavy boundary.

Table 6.2-1 (Continued)
Soil Profile Description from MWL Pit 33 (Persaud and Wierenga, 1982)

Horizon	Depth (cm)	Description
IIIC4ca	226-251	Pink (7.5YR7/4) very fine sandy loam, brown (7.5YR5/4) moist; weak coarse prismatic structure grading to massive; slightly hard, friable, slightly sticky and non-plastic; violently effervescent with disseminated carbonates; few gravels; clear wavy boundary.
IVB21tcab	251-297	Pink (7.5YR7/4) fine sandy loam, brown (7.5YR5/4) moist; weak coarse prismatic structure; hard, firm, sticky and slightly plastic; violently effervescent with disseminated carbonates and common medium irregular soft masses of lime; clear wavy boundary.
IVB22tcab	297-330	Light brown (7.5YR6/4) very fine sandy loam, brown (7.5YR5/4) moist; weak coarse subangular blocky structure; slightly hard, friable, slightly sticky and non-plastic; violently effervescent with disseminated lime; clear wavy boundary.
VCca	330-348	Light brown (7.5YR6/4) very fine sandy loam, brown (7.5YR5/4) moist; massive; slightly hard, friable, slightly sticky and non-plastic; violently effervescent with disseminated lime; clear wavy boundary.
VICca	348-384	Pink (7.5YR7/4) very fine sandy loam, dark brown to brown (7.5YR4/4) moist, massive; slightly hard to hard, friable, slightly sticky and non-plastic; violently effervescent with disseminated lime; 10 percent gravel; clear wavy boundary.
VIICca	384-432	Pink (7.5YR7/4) loam, dark brown to brown (7.5YR4/4) moist; massive; slightly hard, friable, sticky and slightly plastic; violently effervescent with disseminated lime; clear wavy boundary.
VIIICca	432-467	Light brown (7.5YR6/4) very fine sandy loam, brown (7.5YR5/4) moist; massive; slightly hard; friable, slightly sticky and non-plastic; violently effervescent with disseminated lime; clear wavy boundary.
IXCca	467-493	Reddish yellow (5YR6/6) loamy fine sand, yellowish red (5YR5/6) moist; massive; hard, friable, slightly sticky and non-plastic; violently effervescent with disseminated lime; less than five percent gravel; clear wavy boundary.
XCxa	493-549	Reddish yellow (5YR6/6) fine sand, strong brown (7.5YR5/6) moist; massive; slightly hard, very friable, non-sticky and non-plastic; violently effervescent with disseminated lime; clear wavy boundary.

Table 6.2-1 (Concluded)
Soil Profile Description from MWL Pit 33 (Persaud and Wierenga, 1982)

Horizon	Depth (cm)	Description
XICca	549-592	Pinkish white (5YR8/2) loamy fine sand, pink (7.5YR7/4) moist; massive; hard, friable, slightly sticky, non-plastic; violently effervescent with disseminated lime; stone line at the surface of the horizon; clear wavy boundary.
XIICca	592-643	Light reddish brown (5YR6/4) loamy fine sand, light brown (7.5YR6/4) moist; massive; hard, very friable, slightly sticky and non-plastic; violently effervescent with disseminated lime; clear wavy boundary.
XIIICca	643-683	Light reddish brown (5YR6/4) fine sand, light brown (7.5YR6/4) moist; massive; slightly hard, very friable, non-sticky and non-plastic; violently effervescent with disseminated lime; clear wavy boundary.
XIVCca	683-716	Light reddish brown (5YR6/4) fine sand, brown (7.5YR5/4) moist; massive; slightly hard, very friable, non-sticky and non-plastic; violently effervescent with disseminated lime; less than five percent gravel; abrupt wavy boundary.
XVCca	716-767	Pink (5YR7/4) very gravelly fine sand, light reddish brown (5YR6/4) moist; massive; hard, very friable, non-sticky and non-plastic; violently effervescent with disseminated lime and with lime on the gravel; approximately 60 percent gravel and 10 percent cobbles; clear wavy boundary.
XVICca	767-808	Light reddish brown (5YR6/4) very gravelly coarse sand, brown (7.5YR5/4) moist; massive; hard, very friable, non-sticky and non-plastic; violently effervescent with disseminated lime and with lime on the gravel; approximately 50 percent gravel; abrupt wavy boundary.
XVIICca	808-881	Reddish yellow (5YR6/6) loamy fine sand, strong brown (7.5YR5/6) moist; massive; slightly hard, very friable, non-sticky and non-plastic; violently effervescent with disseminated lime; clear wavy boundary.
XVIIICca	880 +	Pinkish white (7.5YR8/2) fine sand, light brown (7.5YR6/4) moist; massive; very hard, friable, slightly sticky and non-plastic; violently effervescent with disseminated lime.

Table 6.2-2 Geochemical Properties and Textural Parameters for Soil Core Samples from MWL Pit 33 (Persaud and Wierenga, 1982)

Depth (cm)	EC (mmhos/cm)	pH	$CaCO_3$ (%)	Organic Matter (%)	CEC (meq/100g)	Sand (%)	Silt (%)	Clay (%)
0-28	3.45	8.27	.5	0.20	6.51	82.58	8.95	8.47
28-46	15.53	7.86	3.9	0.20	8.18	83.28	7.13	9.59
46-66	13.79	7.76	5.5	0.10	7.27	85.90	6.17	7.93
66-97	19.70	7.63	11.3	0.27	5.76	86.69	8.43	4.88
97-157	27.81	7.48	21.4	0.07	7.36	76.28	14.15	9.57
157-180	9.26	7.95	17.1	0.07	6.52	69.49	25.05	5.46
180-201	6.37	7.99	8.8	0.00	6.67	85.52	8.16	6.32
201-211	4.60	8.25	8.3	0.00	5.88	86.97	9.91	3.12
211-226	4.31	8.17	6.3	0.00	6.80	84.23	9.57	6.20
226-251	5.43	7.93	10.8	0.00	9.15	75.19	14.59	10.22
251-297	6.34	7.96	16.8	0.00	10.10	76.75	9.22	14.03
297-330	5.47	7.99	10.9	0.07	9.17	62.42	26.65	10.93
330-348	3.46	8.10	8.3	0.00	7.41	70.39	23.18	6.43
348-384	4.31	8.04	8.6	0.03	7.66	71.14	19.28	9.58
384-432	5.78	7.94	11.8	0.00	10.93	49.58	40.99	9.43
432-467	5.43	7.93	9.1	0.03	7.57	59.22	27.16	13.62
467-493	3.31	8.08	4.2	0.00	7.88	86.06	4.20	9.74
493-549	1.91	8.31	4.4	0.00	5.34	91.51	2.17	6.32
549-592	3.81	8.02	18.9	0.00	4.24	85.20	12.18	2.62
592-643	3.71	8.00	7.9	0.00	5.31	85.11	6.31	8.58
643-683	2.84	8.13	5.3	0.00	4.35	91.95	2.39	5.66
683-716	1.96	8.45	3.5	0.00	2.83	92.56	3.22	4.22
716-767	2.28	8.20	7.4	0.00	3.59	91.47	3.97	4.56
767-808	1.27	8.18	9.9	0.00	3.38	89.51	5.67	4.82
808-881	1.35	8.36	3.5	0.03	5.60	86.93	4.92	8.15
881 +	1.74	8.33	6.5	0.03	3.68	92.91	1.98	5.11

Table 6.2-3 Textural Parameters and Geochemical Properties of the < 2 mm Size Fraction from MWL Pit 33 (Persaud and Wierenga, 1982)

	Particle Size Analysis[a]										Properties of a 1:1 (water:soil) extract[e]			
Sample Depth (ft)	% Sand	% Silt	% Clay	$CaCO_3$ Equiv.[a] % $CaCO_3$	Organic Carbon[a] % C	Free Fe Oxides[b] % Fe_2O_3	Free Mn Oxides[b] % Mn	Cation Exch. Cap.[c] meq/100g	Sum of Exch. Cations[d] meq/100g	Sum of Extractable Cations[d] me/100g	pH	Sum of Soluble Cations me/L	Elect. Conduct. mmhos/cm	Air-Dry Moisture %
28.0 - 29.5	90.0	2.4	7.7	1.8	0.037	0.21	0.005	8.1	11.4	12.0	7.9	4.6	0.44	0.68
30.2 - 32.2	92.6	1.9	5.6	8.0	0.039	0.10	0.003	7.8	10.8	11.3	8.4	4.6	0.47	0.51

(a) Methods of Soil Analysis (MOSA), 1965
(b) Coffin, 1963
(c) Polemio, M. and J.D. Rhoades, 1977
(d) U.S. Salinity Laboratory Staff, 1954a
(e) U.S. Salinity Laboratory Staff, 1954b
meq milliequivalents

6.2.2 Adsorption Studies

The < 2 mm fraction from the composite sample taken from the 28.0 ft to 29.5 ft interval in Pit 33 was also analyzed to determine the adsorption properties of various metals in these subsurface soils (Persaud and Wierenga, 1982). The metals studied were cesium, strontium, chromium, lead, mercury, nickel, and cadmium. Several types of adsorption experiments were conducted on these samples, and the Freundlich and Langmuir equations were fitted to yield empirical relationships between the contaminant concentrations adsorbed and the resulting concentrations of the equilibrium solutions. The studies indicate relatively strong adsorption of all elements studied, with the exception of chromium, which was not appreciably adsorbed (Persaud and Wierenga, 1982).

6.2.3 Column Leaching Studies

Column leaching studies were also conducted on the composite samples from Pit 33. The column leaching studies were conducted under unsaturated flow conditions for tritium, chromium, cesium, and strontium. Solutions containing these analytes were leached through soil columns, and the effluents were analyzed. The results from the column leaching studies were consistent with the results from the adsorption studies (Persaud and Wierenga, 1982).

6.3 Hydrologic Properties of Subsurface Soils

The hydrologic properties of subsurface soils beneath the MWL were analyzed in the laboratory and the field. Laboratory analyses of physical and hydrologic parameters were conducted on subsurface soil samples collected during Phase 2 RFI borehole drilling, and on core samples from MW-4. Field measurements of the hydrologic properties of MWL soils were obtained during an IP test conducted west of the MWL (Goering et al., 1995).

Subsurface soil properties measured on core samples in the laboratory included gravimetric and volumetric soil moisture contents, bulk density and porosity, saturated and unsaturated hydraulic conductivities, soil moisture characteristic curves, and particle size analyses. Atterburg limits were determined for several samples which appeared high in clay content. The laboratory data (with the exception of the moisture content data) are presented in Table 6.3-1, and are discussed in Sections 6.3.1 through 6.3.5.

Subsurface soil properties measured in the field during the IP test included the soil moisture characteristics and the relationships between unsaturated hydraulic conductivity and volumetric moisture content (Sections 6.3.5 and 6.3.6).

Table 6.3-1 Physical Parameters for Soil Samples Collected During Phase 2 RFI Borehole Drilling

Borehole	Linear Depth (ft)	Bulk Density (g/cm^3)	Porosity (%)	% <#200 Sieve (0.075 mm)	Hydraulic Conductivity (cm/s)	Atterberg Limits		
						LL (%)	PL (%)	PI (%)
BH-01	11	1.68	36.60	66.73	3.77 E-5	NA	NA	NA
BH-01	30	1.74	34.34	23.87	1.08 E-5	NA	NA	NA
BH-01	60	1.90	28.30	50.53	9.26 E-5	NA	NA	NA
BH-01	90	2.07	21.89	25.09	3.01 E-4	NA	NA	NA
BH-02	7	NA	NA	51.84	NA	25	16	9
BH-03	30	1.85	30.19	43.28	8.33 E-5	NA	NA	NA
BH-03	60	2.03	23.40	29.20	4.96 E-4	NA	NA	NA
BH-03	90	2.06	22.26	52.56	4.38 E-6	NA	NA	NA
BH-04	113	NA	NA	43.88	2.63 E-4	NA	NA	NA
BH-07	30	1.97	25.66	11.78	1.13 E-3	NA	NA	NA
BH-07	60	NA	NA	18.65	1.66 E-5	NA	NA	NA
BH-07	90	2.06	22.26	48.13	7.47 E-5	NA	NA	NA
BH-07	120	NA	NA	15.47	9.17 E-6	NA	NA	NA
BH-08	8	NA	NA	NA	NA	32	15	17
BH-09	35	1.38	47.92	38.82	2.07 E-4	NA	NA	NA
BH-09	60	NA	NA	15.18	8.42 E-4	NA	NA	NA
BH-11	2	NA	NA	NA	NA	21	NPL	21
BH-11	30	2.06	22.26	23.77	6.78 E-4	NA	NA	NA
BH-11	65	2.06	22.26	16.06	1.02 E-5	NA	NA	NA
BH-12	7	NA	NA	NA	NA	11	NPL	11
BH-13	7	NA	NA	NA	NA	19	NPL	19
BH-13	17	2.01	24.15	25.17	4.84 E-5	NA	NA	NA
BH-13	41	2.05	22.64	20.72	1.64 E-4	NA	NA	NA

NA Not analyzed
NPL No plasticity

6.3.1 Soil Moisture

Understanding the range and variations of soil moisture conditions beneath a site is important in understanding unsaturated flow and contaminant transport. Soil moisture contents were measured according to ASTM Method D-2216-90. Soil samples were weighed, oven-dried, and weighed again. Gravimetric moisture contents are reported as a percent value based on the mass of water per mass of dry soil. Where samples were relatively undisturbed, gravimetric moisture contents were converted to volumetric moisture contents (i.e., the volume of water per bulk volume of soil).

A total of 486 samples from MWL angled borehole drilling (Section 4.6) were analyzed for gravimetric moisture content, and 18 samples were analyzed for volumetric moisture content. Gravimetric moisture content profiles in soils beneath the MWL are shown in Figure 6.3-1. In general, the highest moisture contents were observed in the upper 20 ft of the soil profile. Gravimetric moisture contents in subsurface soils range from 0.2% to 13.0% by weight, and average 3.0%. Volumetric moisture contents range from 0.9% to 10.6%, and average 4.6%.

6.3.2 Bulk Density and Porosity

Soil bulk density is the mass of dry soil per total volume of soil. Bulk density and porosity were determined using procedures described in Methods of Soil Analysis (1987). Fourteen subsurface soil samples were analyzed for bulk density and porosity. The bulk density values of MWL subsurface soils range from 1.38 to 2.07 g/cm^3, and average 1.92 g/cm^3. Bulk density and porosity data are presented in Table 6.3-1.

Soil porosity values are estimated as a function of bulk density, and therefore, show a consistent inverse relationship to bulk density. Porosity values for MWL subsurface soils range from 21.9% to 47.9%, and average 27.4%.

6.3.3 Particle Size Analysis

Nineteen samples from the angled boreholes were analyzed for particle size distribution. The samples were weighed, passed through sieves, and the weight retained on each screen was measured and used to calculate the percentage of soil retained for each particle size. Many of the MWL samples were fine-grained, and required hydrometer analyses to adequately determine the silt and clay fraction.

The results are presented in Figures 6.3-2 and 6.3-3. The particle size distributions shown on these figures represent samples collected from linear depths of 30 ft to 120 ft (26 ft to 104 ft bgs). Table 6.3-1 presents the weight percentage of each sample that is silt/clay-sized (i.e., < 0.075 mm).

Core samples from MW-4 were analyzed for particle size distribution, and the results are shown in Figures 6.3-4 and 6.3-5. Figure 6.3-6 shows the relationship between the percent silt and clay, and the sample depth in MW-4. In general, silt and clay percentages increase with depth, and relatively high percentages of silt and clay predominate below 250 ft bgs. This predominance of fine-grained materials, particularly in samples collected within the saturated zone (below 460 ft bgs), is reflected in the low hydraulic conductivities measured in the aquifer beneath the MWL (Section 5.5).

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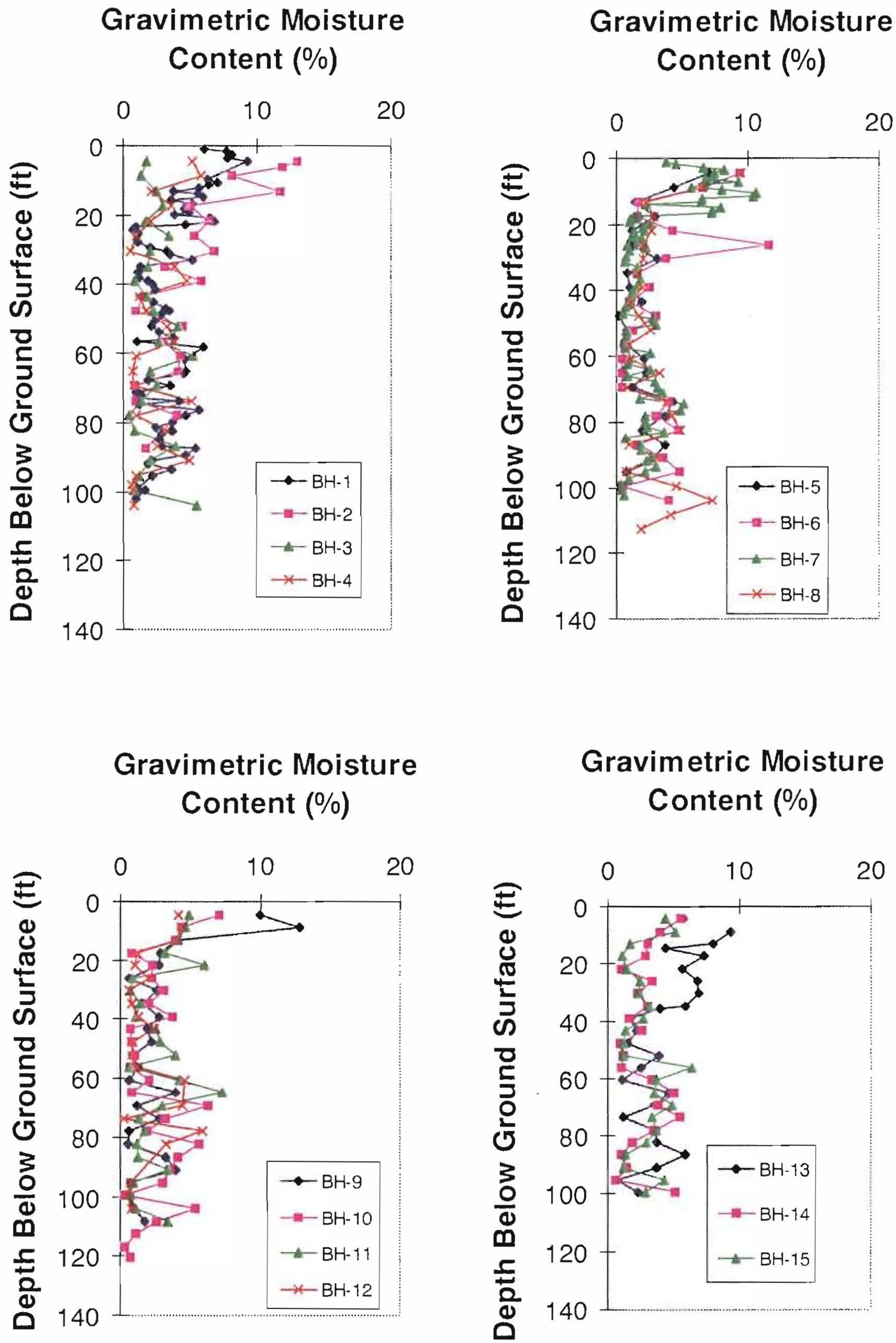

Figure 6.3-1 Gravimetric Moisture Content Profiles for MWL Borehole Soils

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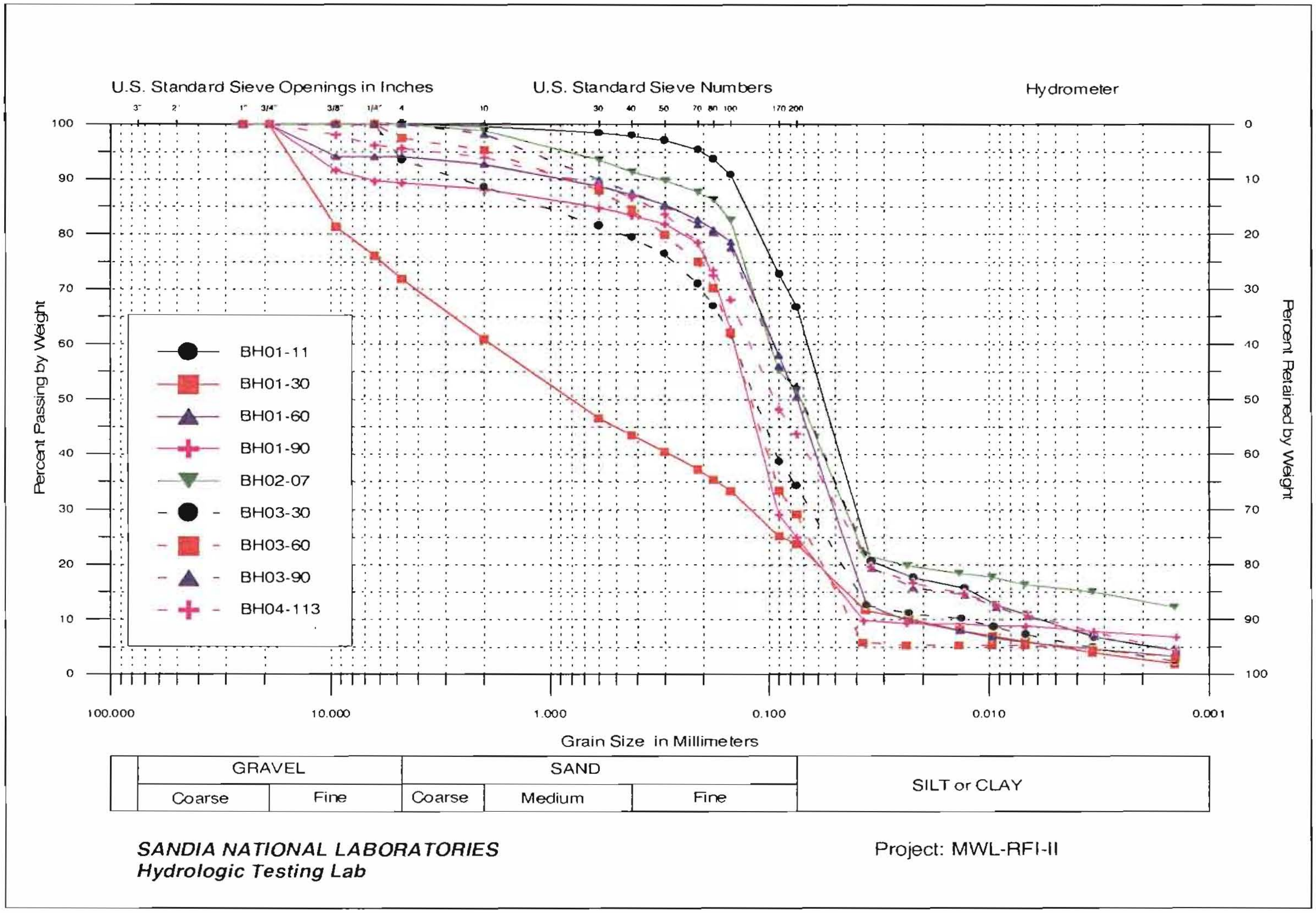

Figure 6.3-2 Particle Size Distribution of Samples Collected from BH-1, BH-2, BH-3, and BH-4

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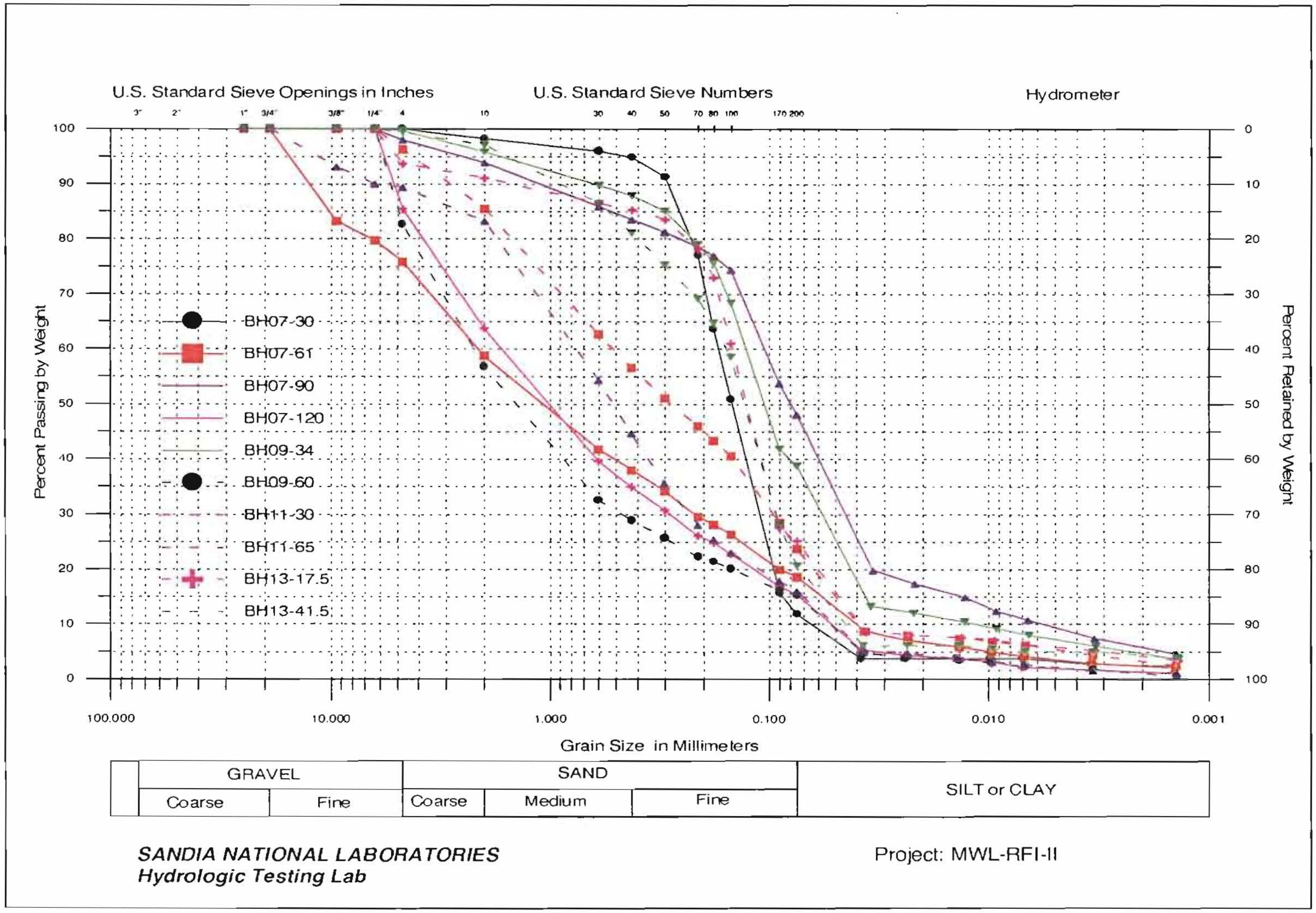

Figure 6.3-3 Particle Size Distribution of Samples Collected from BH-7, BH-9, BH-11, and BH-13

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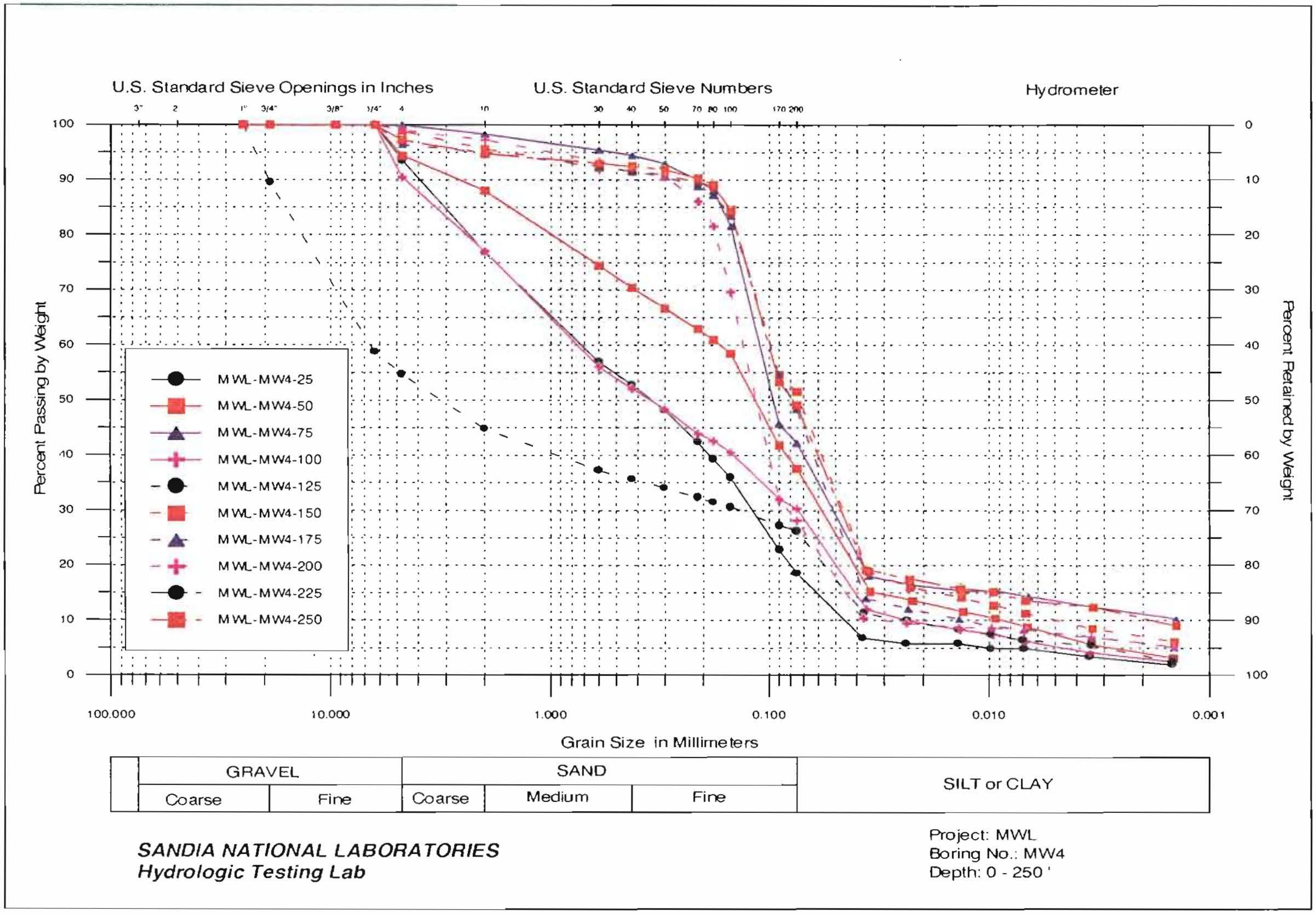

Figure 6.3-4 Particle Size Distribution from MW-4 Core Samples, 0 - 250 ft bgs

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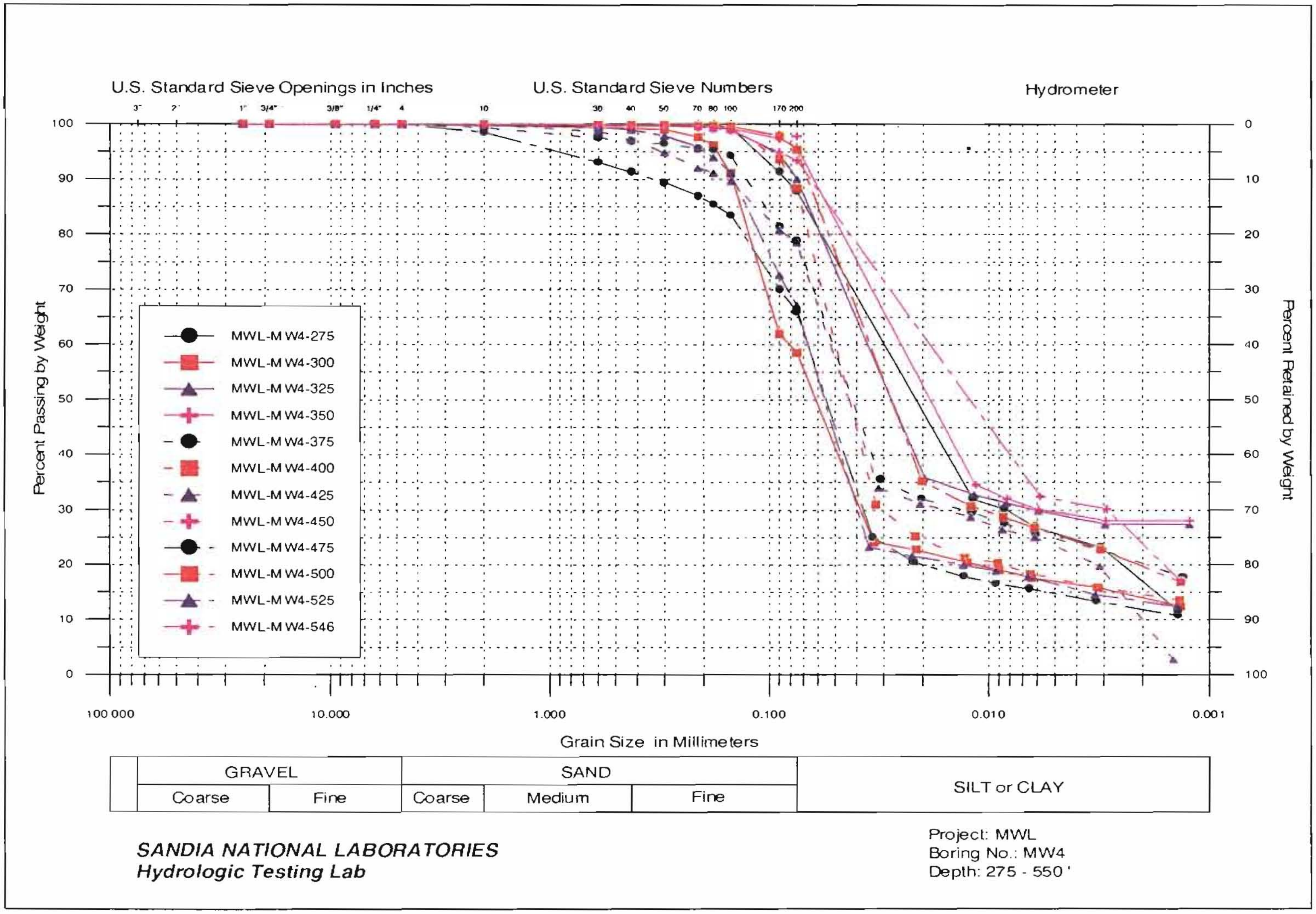

Figure 6.3-5 Particle Size Distribution from MW-4 Core Samples, 250 - 550 ft bgs

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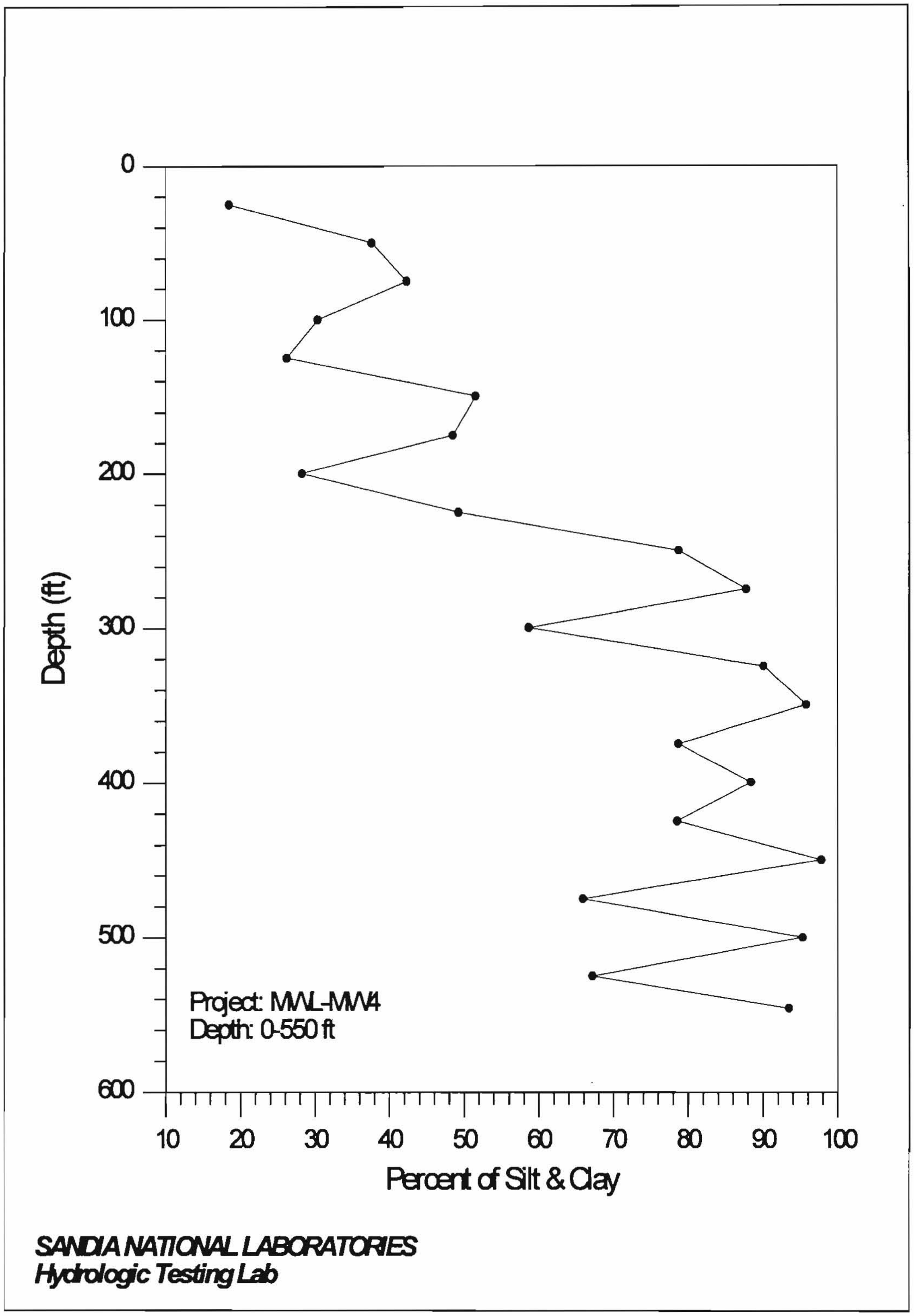

Figure 6.3-6 Relationship Between the Percent Silt and Clay and MW-4 Sample Depth

6.3.4 Saturated Hydraulic Conductivity

Saturated hydraulic conductivity (K_{sat}) is a measure of a soil's capacity to transmit water. The saturated hydraulic conductivities of 18 subsurface soil samples from the MWL were measured using ASTM Method D 2325-68, utilizing either constant-head or a falling-head permeameter. The constant-head permeameter was utilized when the saturated hydraulic conductivity was relatively high (greater than 10^{-3} or 10^{-4} cm/s), while the falling-head permeameter was used when the saturated hydraulic conductivity was lower.

The saturated hydraulic conductivities measured from MWL core samples varied by up to 5 orders of magnitude. In general, samples with higher percentages of sands and gravels had higher saturated hydraulic conductivities than samples with more silt and clay. Figure 6.3-7 shows the relationship between the percent silt and clay, the saturated hydraulic conductivity, and the sample depth.

6.3.5 Soil Moisture Characteristics

The soil moisture characteristics refer to the relationship between soil moisture content (θ) and tension (Ψ). Soil moisture characteristics reflect the lithologic characteristics of the soils, and provide useful information on pore-size distribution. Sandy soils tend to release water at small tension values, rapidly desaturating, whereas clayey soils release water only at greater tensions, and remain saturated for longer periods of time. The pressure where the soil becomes unsaturated is called the air-entry pressure. This pressure is close to atmospheric pressure for sands and highly negative for clays.

Soil moisture characteristics for subsurface soil samples from the IP test plot were measured in the laboratory using the pressure plate extractor method found in Methods of Soil Analysis (1987), and are shown in Figures 6.3-8 and 6.3-9. The soil moisture characteristics were also measured in the field during the IP test, and are shown in Figure 6.3-10. The soil moisture characteristic curves on these figures were fitted to the laboratory and field data points using the computer code RETC (Van Genuchten et al., 1992).

6.3.6 Unsaturated Hydraulic Conductivity

The hydraulic conductivity ($K(\theta)$) is a function of lithology, soil moisture characteristics, and moisture content. The relationship between hydraulic conductivity and volumetric moisture content was determined in both the laboratory and the field.

The relationship between hydraulic conductivity and volumetric moisture content is difficult to measure directly in the laboratory. Consequently, this relationship was determined indirectly using RETC. RETC uses the laboratory-measured soil moisture characteristic and saturated hydraulic conductivity data to calculate the unsaturated hydraulic conductivity. The hydraulic conductivity as a function of volumetric moisture content for IP test plot core samples is shown in Figures 6.3-11 and 6.3-12.

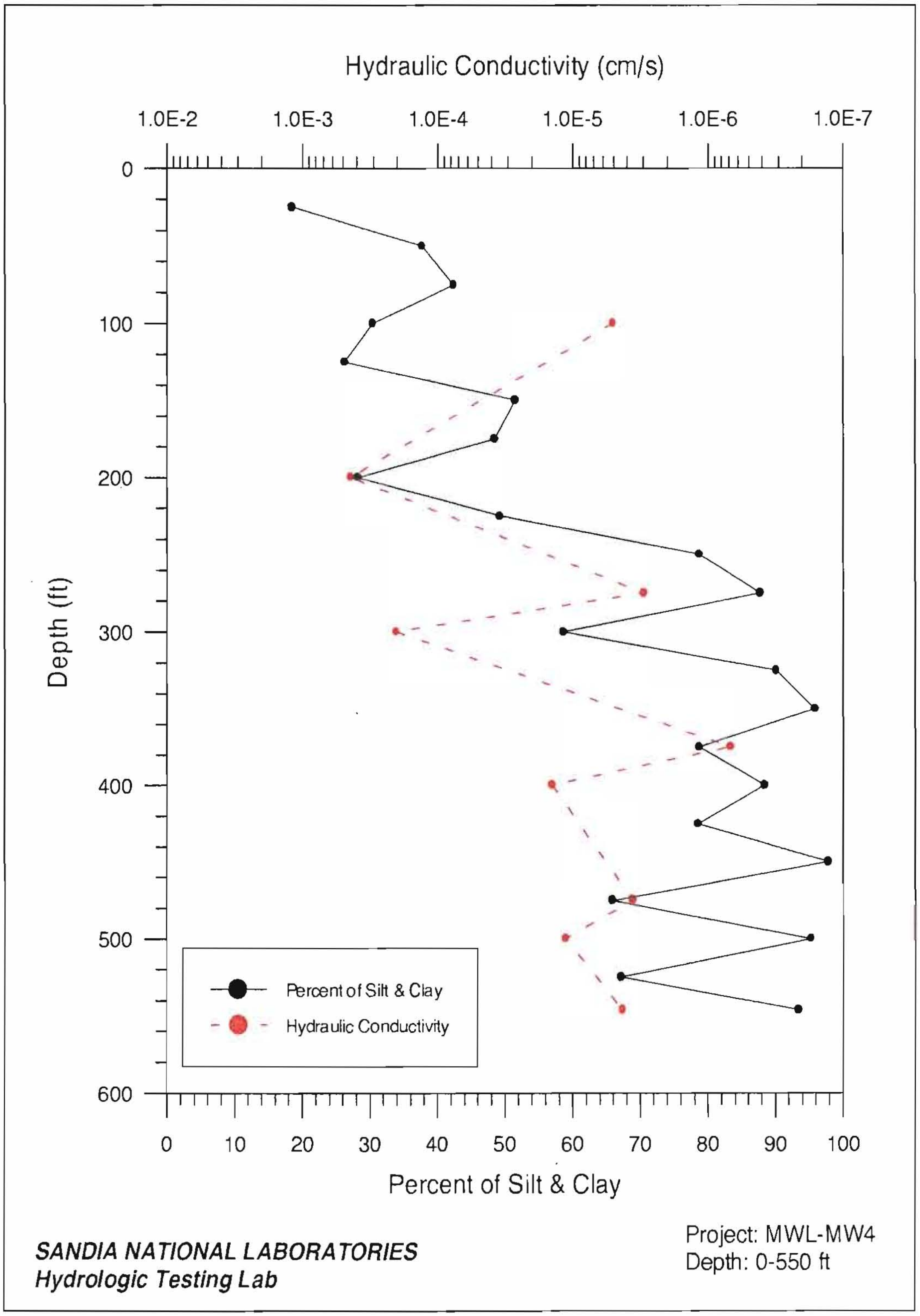

Figure 6.3-7 Relationship Between the Saturated Hydraulic Conductivity and the Percent Silt and Clay in MWL Core Samples

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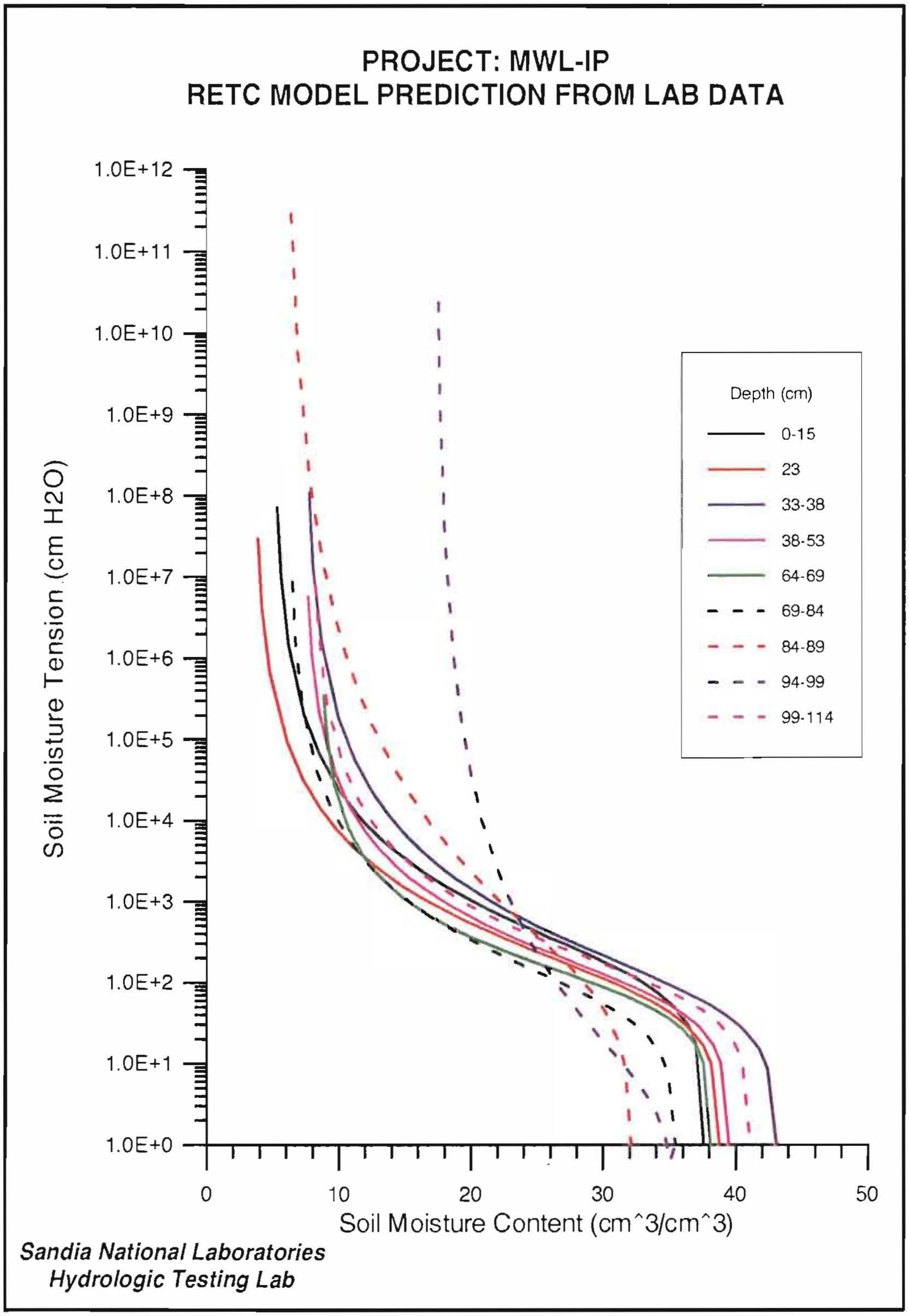

Figure 6.3-8 Soil Moisture Characteristic Curves for Core Samples from the Upper 4 ft of the IP Test Plot

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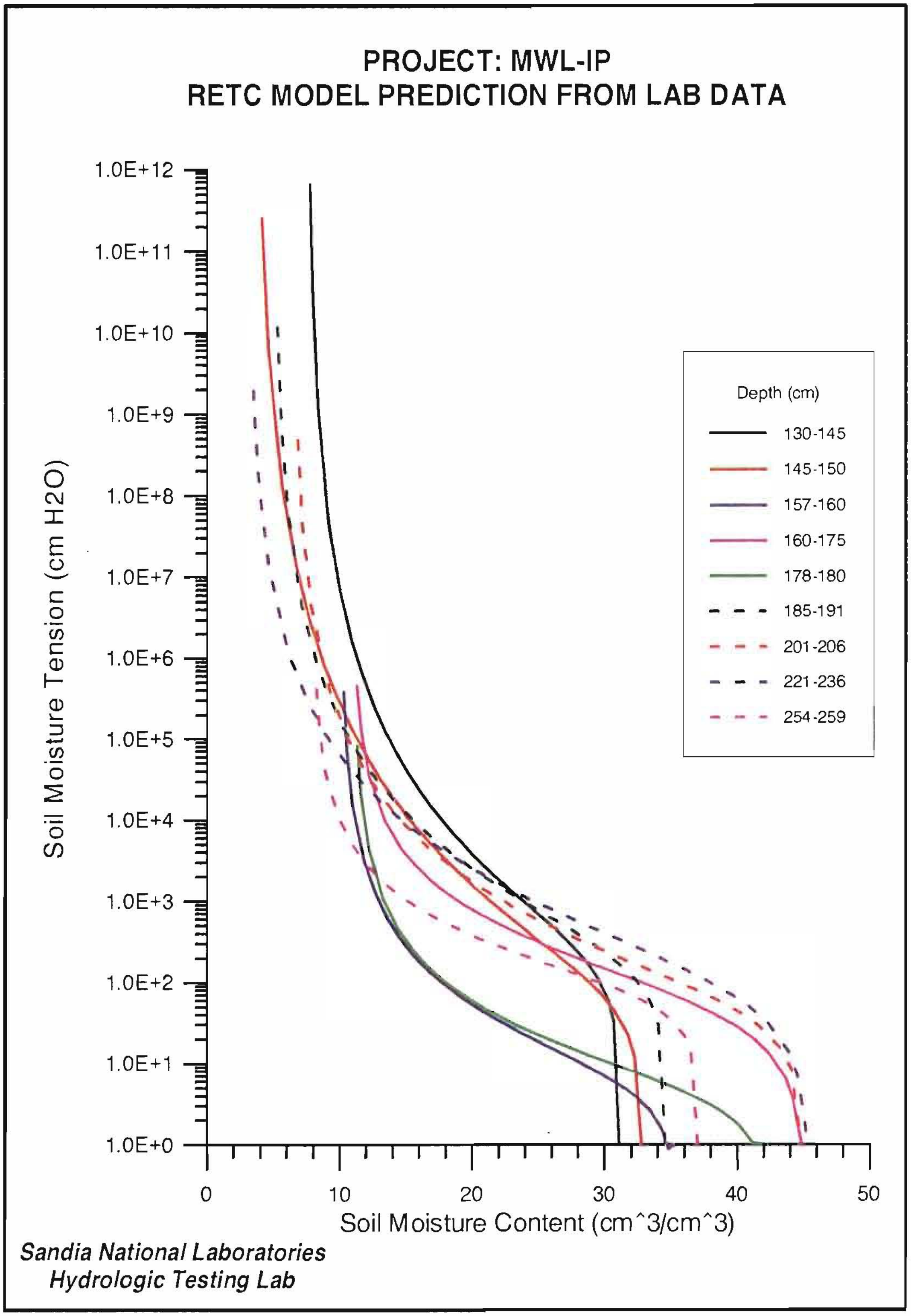

Figure 6.3-9 Soil Moisture Characteristic Curves for Core Samples from the Lower 4 ft of the IP Test Plot

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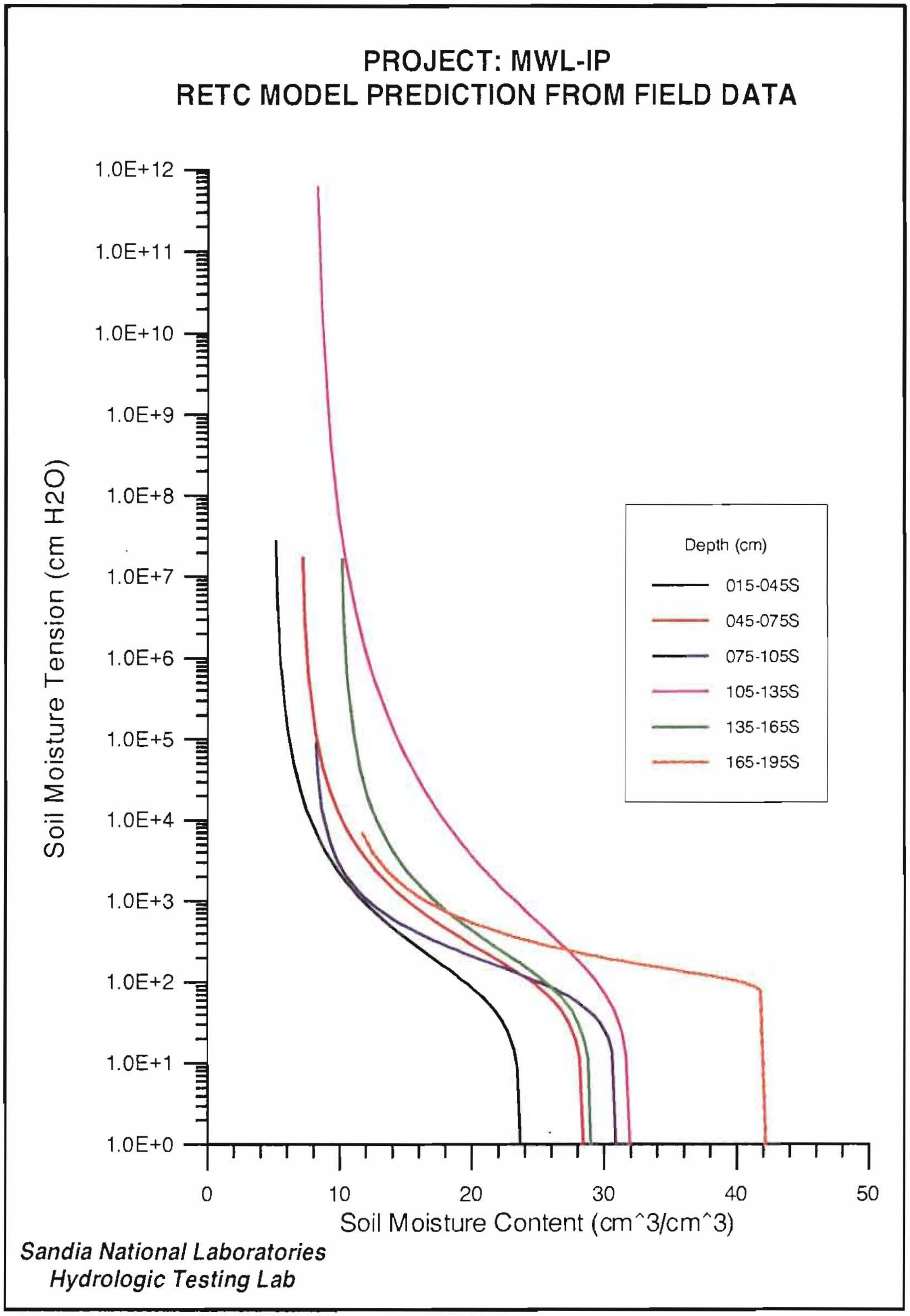

Figure 6.3-10 Field-Measured Moisture Characteristic Curves from the IP Test Plot

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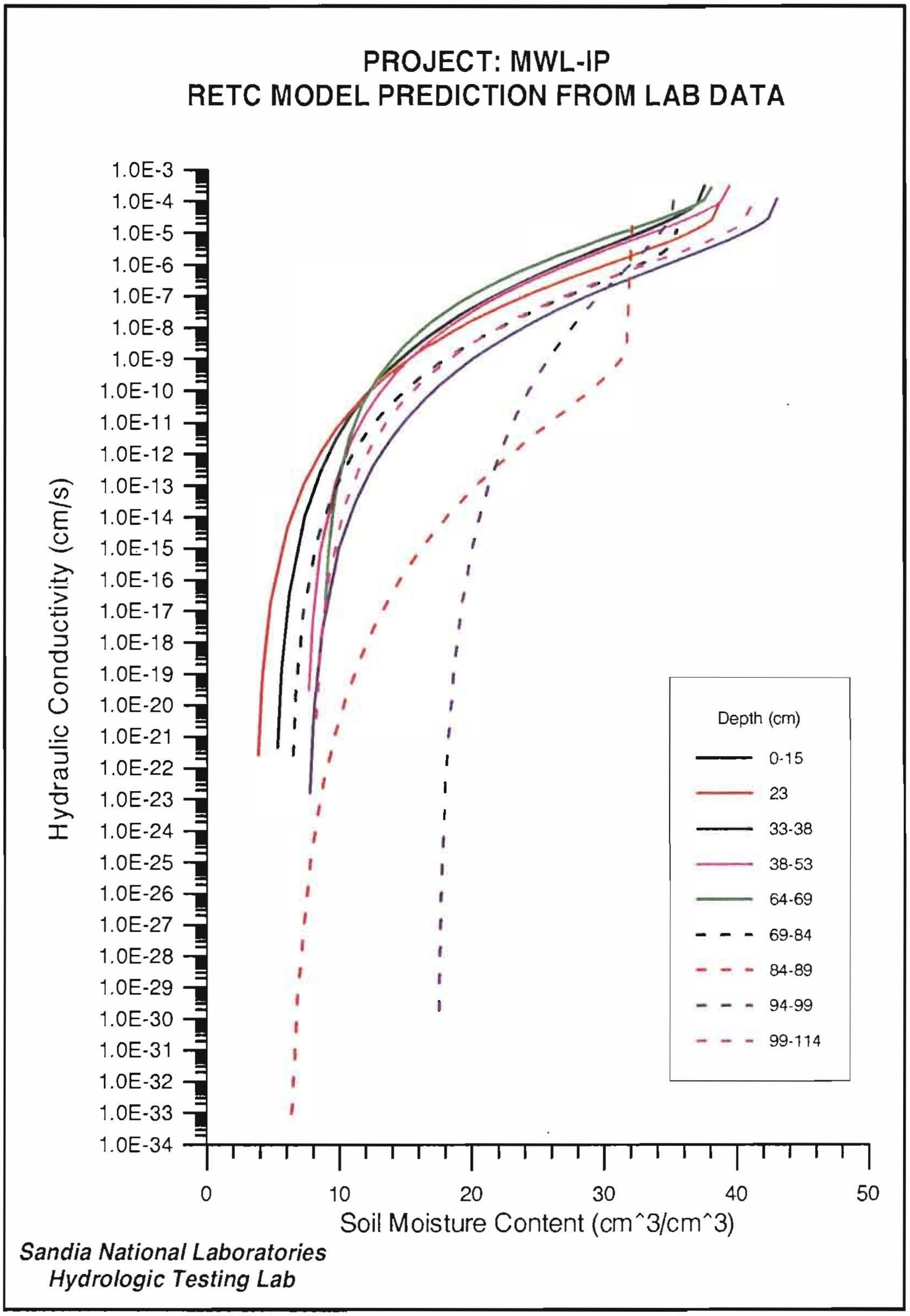

Figure 6.3-11 Hydraulic Conductivity as a Function of Volumetric Moisture Content for Core Samples from the Upper 4 ft of the IP Test Plot

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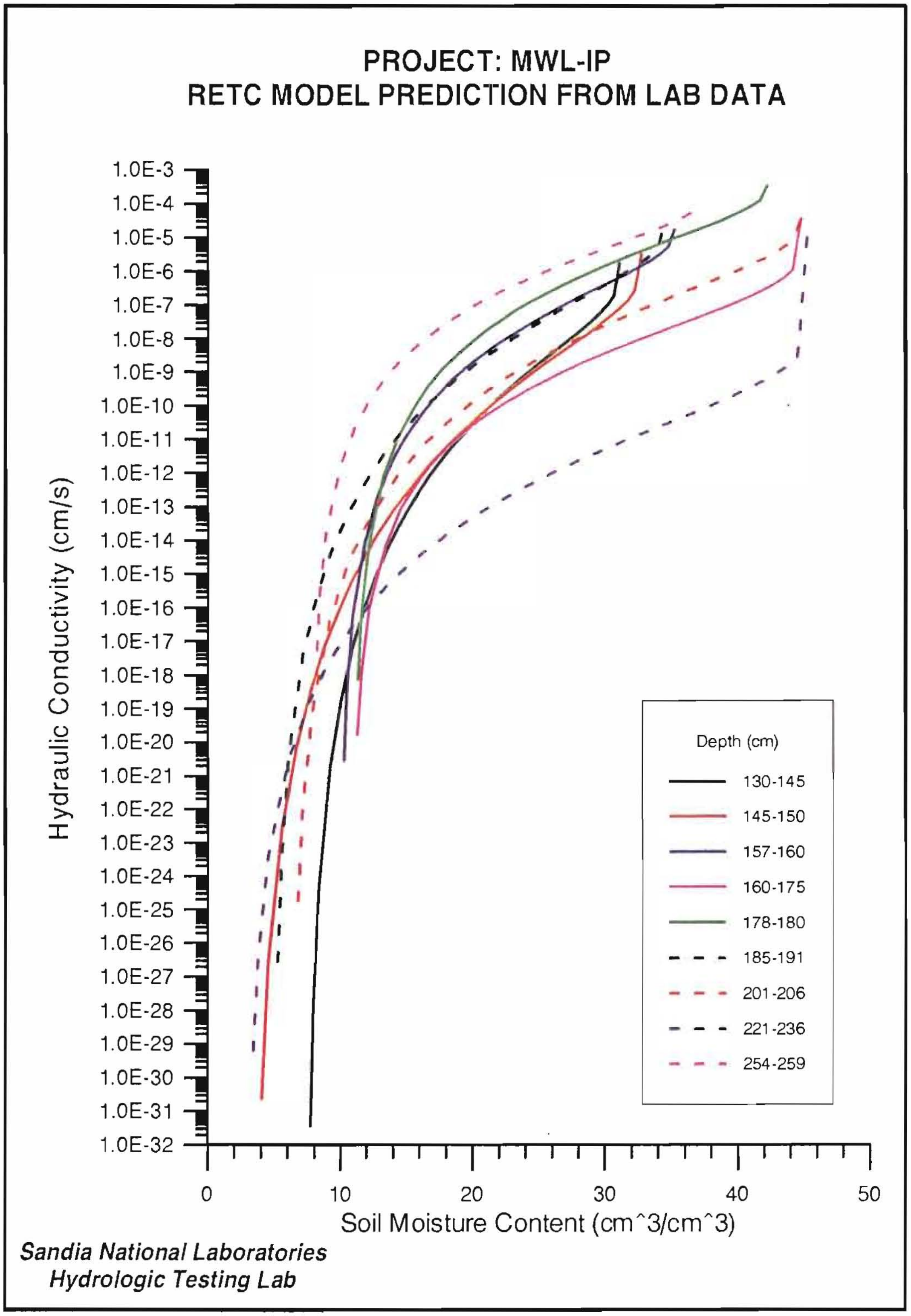

Figure 6.3-12 Hydraulic Conductivity as a Function of Volumetric Moisture Content for Core Samples from the Lower 4 ft of the IP Test Plot

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Hydraulic conductivity as a function of volumetric moisture content was measured *in situ* during the IP test conducted west of the MWL. These data are shown in Figure 6.3-13, and compare favorably with the laboratory results. The curves on this figure were fitted to the field data points using RETC.

The relationship between unsaturated hydraulic conductivity and moisture content can be used to estimate recharge based on the moisture content of subsurface soils. Section 6.4.1 discusses how the MWL unsaturated hydraulic conductivity data were used to estimate recharge at the landfill.

6.4 Recharge at the MWL

Accurately quantifying recharge through the vadose zone is important for understanding the MWL conceptual model, and the potential contaminant pathways to groundwater. Independent estimates of recharge in the vicinity of the MWL were obtained using the:

1) soil-physics based method;
2) chloride mass balance method; and
3) stable-isotope method.

The commonly-applied bomb-pulse tritium method was not used because of existing tritium contamination in surface and subsurface soils at the MWL.

Recharge was estimated using multiple methods because of the importance of this parameter to the MWL conceptual model, and because of the uncertainty involved with estimating recharge. The results are presented in the following sections.

6.4.1 Soil-Physics Based Method

The soil-physics based method is an indirect means of estimating recharge using Darcy's Law, and is based on the relationship between unsaturated hydraulic conductivity and volumetric moisture content of subsurface soils at the site (Stephens and Knowlton, 1986). This method is based on the assumption that the downward flux of water beneath the root zone will eventually reach groundwater. This method assumes:

1) one-dimensional, steady-state flow;
2) no preferential flow;
3) insignificant diffusion; and
4) negligible runoff.

Using the soil-physics based method, the downward flux at a particular depth in the vadose zone is calculated based on Darcy's Law,

$$\mathbf{q = K\,(\theta) \times I}$$

where:

q = Darcian flux [L/T];
K (θ) = vertical unsaturated hydraulic conductivity as a function of moisture content [L/T]; and
I = the unsaturated vertical hydraulic gradient beneath the root zone [L/L].

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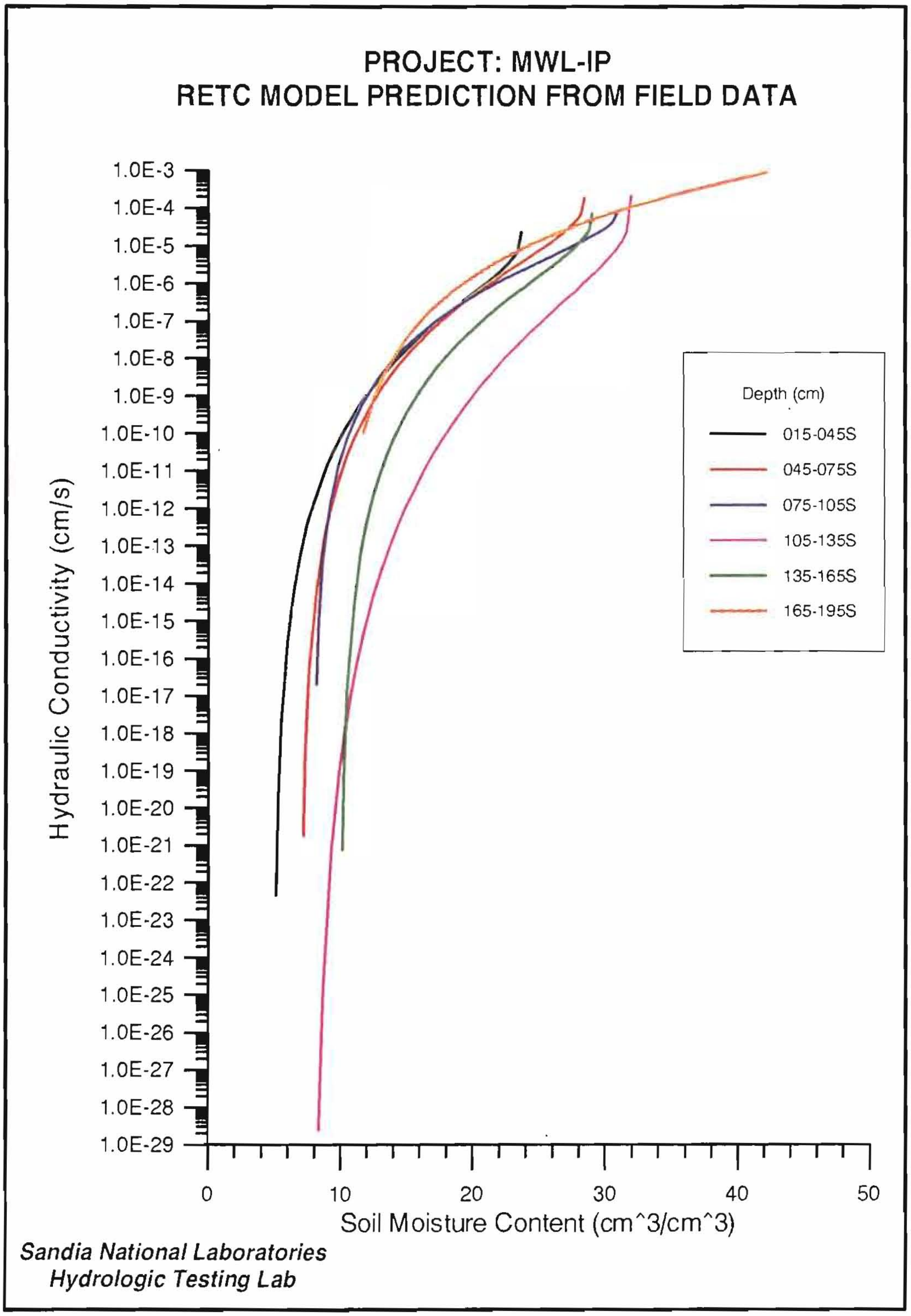

Figure 6.3-13 Field-Measured Hydraulic Conductivity as a Function of Volumetric Moisture Content

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The unsaturated vertical hydraulic gradient beneath the root zone was assumed to be unity, based on the results from the MWL IP test. Gee and Hillel (1988) indicate that this assumption of a unit vertical hydraulic gradient is reasonable for uniform soil conditions in the vadose zone.

The unsaturated hydraulic conductivity of near-surface MWL soils at ambient moisture content is estimated to be 1 x 10^{-10} cm/s. This estimate is based on the results of the IP test and laboratory testing of core samples, and assumes a conservatively-high volumetric moisture content of 0.10. Field evidence indicates that actual volumetric moisture contents of subsurface soils are considerably lower (Section 6.3.1). As a result, the actual unsaturated hydraulic conductivity of subsurface soils at the MWL may be considerably lower than 1 x 10^{-10} cm/s.

Assuming a vertical hydraulic gradient of unity and an unsaturated hydraulic conductivity of 1 x 10^{-10} cm/s, recharge at the MWL is estimated to be 1 x 10^{-10} cm/s using the soil-physics based method of calculating recharge.

6.4.2 Chloride Mass Balance Method

The chloride mass balance method is also commonly-used to estimate recharge through the vadose zone (Allison and Hughes, 1978; Sharma and Hughes, 1985; Phillips et al., 1988). This method assumes:

1) one-dimensional, steady-state flow;
2) chloride is added to the soil at a constant rate through precipitation and dryfall;
3) chloride is conservative and moves downward through piston displacement;
4) no preferential flow;
5) insignificant diffusion; and
6) negligible runoff.

In this approach, the average chloride flux from precipitation is equal to the average chloride flux beneath the root zone. The recharge, **R**, is calculated using:

$$\mathbf{R = C_p \cdot P / C_r}$$

where:

P = the average annual precipitation rate [L/T];
$\mathbf{C_p}$ = the average chloride concentration in precipitation [M/L^3]; and
$\mathbf{C_r}$ = the chloride concentration in soil water beneath the root zone [M/L^3].

Chloride profiles with depth were obtained for MW-4, BH-1, and BH-7. Thirteen samples for chloride analysis were collected from depths of 50 to 499 ft bgs during installation of MW-4. A total of 148 samples for chloride analysis from BH-1 and BH-7 were collected at 1 ft intervals to a depth of 30 ft, and at 2 ft intervals from 30 ft to 118 ft bgs. Figure 6.4-1 presents the chloride profiles with depth for BH-1 and BH-7. The MW-4 chloride data are not included due to the relatively few number of samples collected.

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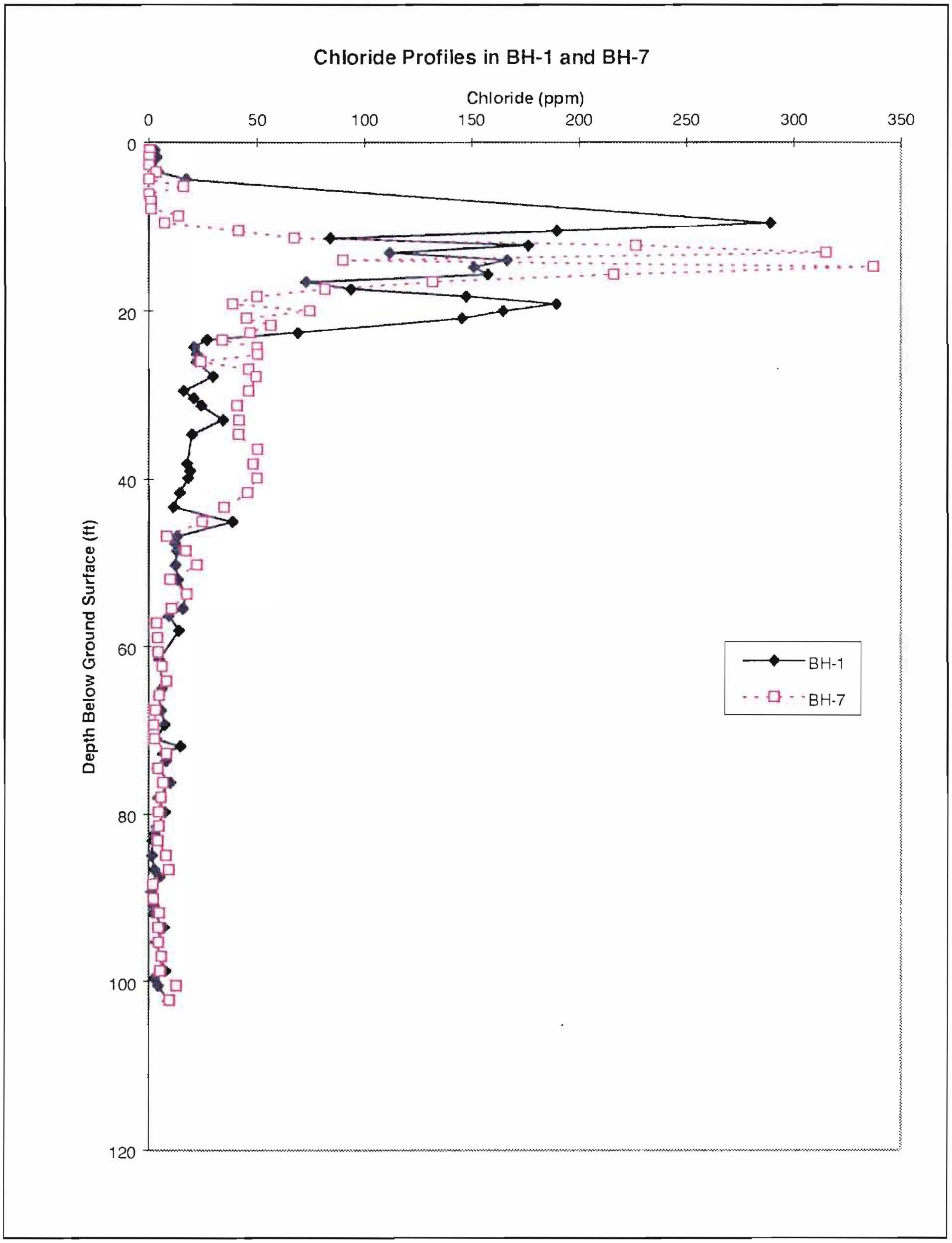

Figure 6.4-1 Chloride profiles with Depth in BH-1 and BH-7

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Recharge was estimated based on the average chloride concentration in the soil profile between linear depths of 71 ft to 118 ft in BH-1 and from 66 ft to 118 ft in BH-7. These depth intervals were used because chloride concentrations are relatively constant in these intervals. The data from MW-4 were not used to estimate recharge due to the limited number of samples collected.

Using the chloride mass balance approach, the average recharge in the vicinity of the MWL was estimated to be 1 x 10^{-9} cm/s, or approximately 0.2 % of annual precipitation in the area. This is based on:

1) **P** = 6.3 x 10^{-7} cm/s;
2) $\mathbf{C_p}$ = 0.35 mg/L (from Phillips, 1994); and
3) $\mathbf{C_r}$ = 220 mg/L (the average chloride concentration in soil water beneath the root zone).

6.4.3 Stable-Isotope Method

The stable-isotope method may be used to estimate recharge in arid regions (Allison et al., 1983). This method utilizes the stable isotopes oxygen-18 and deuterium, and is based on isotopic enrichment which occurs as a result of evaporation. Isotopic enrichment yields unique isotope concentration profiles that reflect the combined effect of precipitation timing and evaporative losses at a given site. The isotopic concentration profiles are determined by sampling soil water with depth for oxygen-18 and deuterium.

The stable-isotope method assumes:

1) one-dimensional, steady-state flow;
2) no preferential flow;
3) negligible runoff;
4) direct evaporation from soil significant enough to enrich the isotopic composition of infiltration;
5) fairly constant temperatures throughout the period of accumulation of the soil water sampled; and
6) the isotopic composition of rainwater has been constant (climate hasn't significantly changed) throughout the period of accumulation of the soil water analyzed.

The stable-isotope method involves plotting the deuterium values against the oxygen-18 values for each sample, and calculating the difference between the deuterium values and the meteoric water line (Craig, 1961). The average difference between deuterium values and the meteoric water line (the average **ΔδD**) is proportional to the reciprocal of the square root of the recharge. Rearranging to solve for recharge yields

$$\mathbf{R = k\ (\Delta\delta D)^{-2}}$$

where:

R = recharge [mm/yr];
k = the proportionality constant equal to approximately 400 [mm/yr] (Allison et al., 1983); and
ΔδD = the average difference in deuterium values from the meteoric water line.

Thirteen subsurface soil samples from MW-4 were collected for analyses of stable isotopes. The samples were obtained from depths of between 50 and 499 ft bgs. The stable isotope data from these samples were analyzed using the method discussed above. Assuming a value of 400 for the proportionality constant, **k**, and a value of approximately 23 permil for **$\Delta\delta$D**, recharge was estimated to be 2×10^{-9} cm/s.

6.4.4 Summary of Recharge Calculations

Recharge based on the various analytical methods ranges from 1×10^{-10} cm/s to 2×10^{-9} cm/s. These values are summarized in Table 6.4-1. Assuming an average depth to groundwater of 460 ft bgs and an average volumetric moisture content of 4.6%, the ambient downward seepage velocity near the MWL ranges from 2×10^{-9} cm/s to 4×10^{-8} cm/s.

Table 6.4-1 Ambient Recharge at the MWL

Analytical Method	Recharge (cm/s)	Recharge (in/yr)	% of Precipitation
Soil Physics Approach	1×10^{-10}	1×10^{-3}	0.02
Chloride Mass Balance	1×10^{-9}	1×10^{-2}	0.16
Stable Isotope Method	2×10^{-9}	2×10^{-2}	0.3

Using the most conservative seepage velocity of 4×10^{-8} cm/s, it would take approximately 10,000 years for aqueous-phase contaminants to reach groundwater at current groundwater levels (460 ft bgs) under ambient recharge conditions. However, groundwater levels beneath the MWL are declining 0.81 ft/yr, a rate orders of magnitude greater than the maximum predicted seepage velocity. Hence, aqueous-phase contaminants may never reach groundwater beneath the MWL at the current rate of water level decline in the regional aquifer.

6.5 Vadose Zone Monitoring

To better understand the transient effects of precipitation on recharge, subsurface moisture contents in the vadose zone were monitored at the MWL using a CPN 503 DR neutron moisture probe. In July 1995, BH-15 (Figure 4.6-1) was cased to 120 ft bgs with 2" PVC for neutron moisture monitoring. Soil moisture profiles in BH-15 were obtained monthly since July 1995 to observe the effects of precipitation on moisture contents in subsurface soils at the landfill.

Figure 6.5-1 presents soil moisture profiles with depth in the upper 100 ft of BH-15 from July 1995 through April 1996. Figure 6.5-2 presents soil moisture profiles in the upper 10 feet of BH-15 during this same period. These figures show that meteoric stresses influence moisture content in the upper 2 ft of soils, but moisture contents below 2 ft are fairly stable and are not significantly affected by meteoric stresses. Thus, although precipitation temporarily increases the quantity of water stored in near surface soils, most of this water is subsequently removed from the soil profile by evapotranspiration, rather than infiltrating down to groundwater.

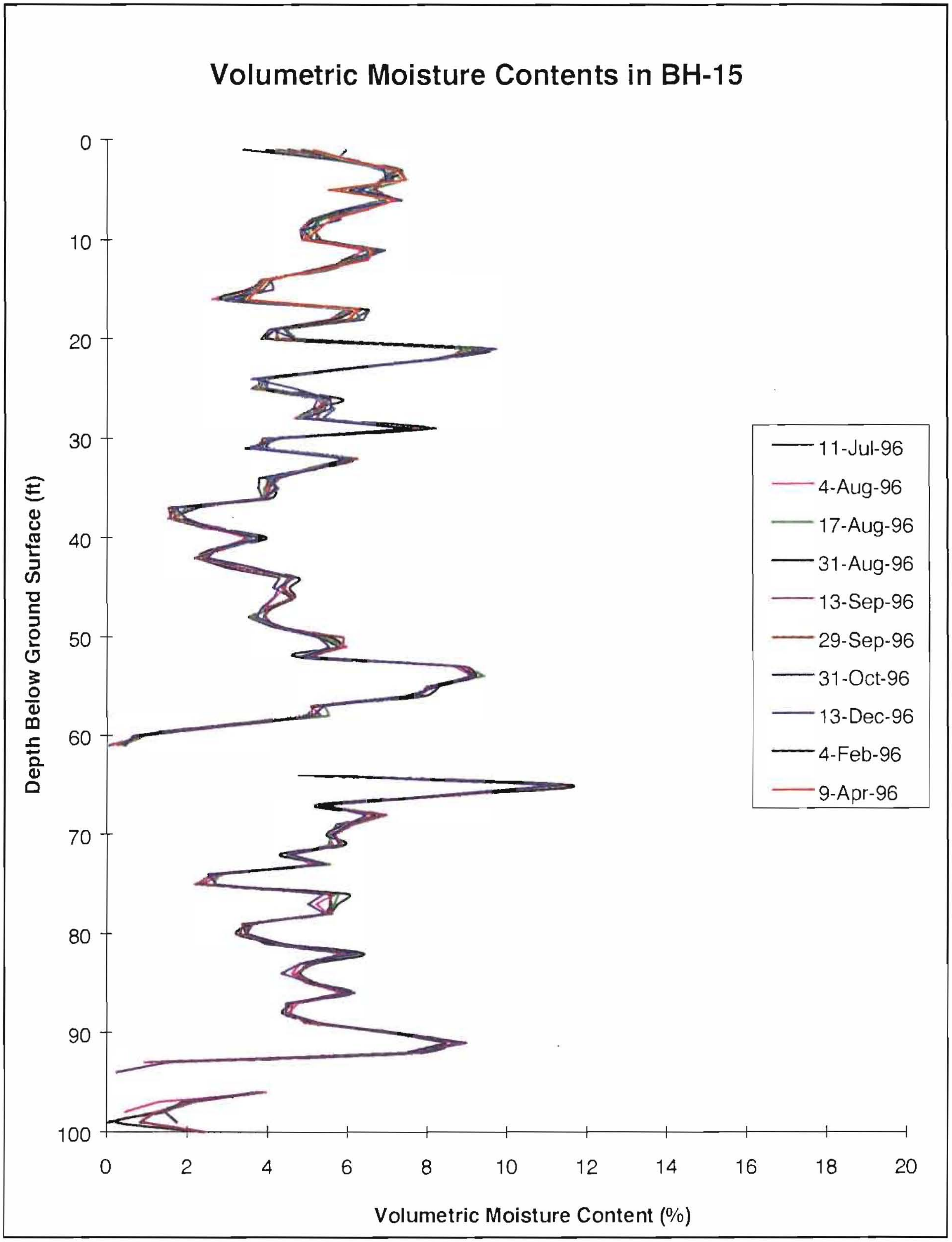

Figure 6.5-1 Soil Moisture Profiles in the Upper 100 ft of BH-15, July 1995 to April 1996

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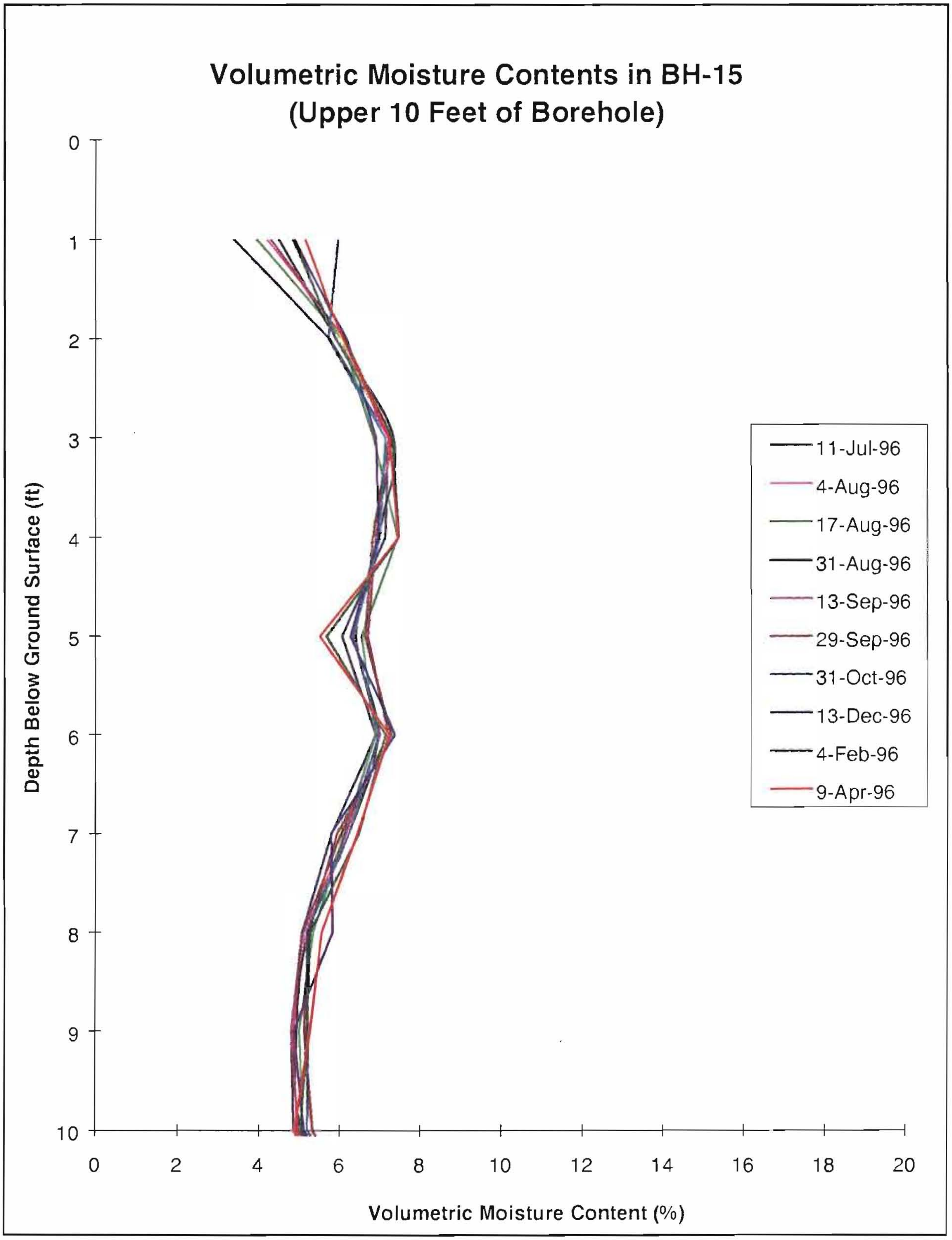

Figure 6.5-2 Soil Moisture Profiles in the Upper 10 ft of BH-15, July 1995 to April 1996

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6.6 Conclusions

The data from the Phase 2 RFI and previous MWL investigations indicate that the vadose zone has inherent, favorable properties that limit subsurface contaminant migration from the landfill, and potential contaminant migration to groundwater. These properties include the following:

1. The vadose zone is extensive, extending more than 460 ft from ground surface to groundwater.

2. The geochemical properties of subsurface soils beneath the MWL are favorable for reducing the migration of heavy metals and radionuclides from the MWL. The analytical data from subsurface soils at the landfill support this conclusion; tritium is the primary contaminant that has migrated from disposal pits at the landfill.

3. The relative percentages of silt and clay increase with depth, and predominate below 250 ft bgs. This size fraction exerts the greatest influence on geochemical adsorption processes; hence, these geochemical processes may be greatest at a depth of below 250 ft bgs. This silt/clay-rich zone may act as a geochemical barrier, further isolating groundwater from the migration of heavy metals and radionuclides. This zone also acts as a hydrogeological barrier, with extremely low saturated hydraulic conductivities due to the high percentage of silt and clay.

4. Other hydrogeologic properties of the subsurface soils beneath the MWL are also favorable for reducing contaminant migration to groundwater. Soils beneath the MWL are relatively dry, with average volumetric moisture contents of 4.6%. As a result, the unsaturated hydraulic conductivity of these soils is on the order of 10^{-10} cm/s, further isolating groundwater from contaminants.

5. The low hydraulic conductivities of the vadose zone, coupled with the relatively low precipitation in the semi-arid climate of Albuquerque, and the high evapotranspiration in the area result in negligible recharge to the aquifer beneath the MWL. Field measurements of recharge using multiple analysis techniques indicate that recharge is on the order of 1×10^{-10} cm/s to 2×10^{-9} cm/s.

   At this rate of recharge, the maximum vertical seepage velocity in the vadose zone is 4×10^{-8} cm/s. Because groundwater levels of the regional aquifer beneath the MWL are declining 0.81 ft/yr, aqueous-phase contaminants in the vadose zone are not predicted to reach groundwater at the current rate of decline in the regional aquifer.

6. Neutron moisture-meter monitoring of the vadose zone suggests that most precipitation infiltrates no more than the upper 2 feet of soil, and is removed from the system through evapotranspiration. Little infiltration occurs beyond this depth.

7. This vadose zone conceptual model is substantiated by the fact that there is no evidence of groundwater contamination at the MWL. The extensive vadose zone at the MWL, coupled with its favorable geochemical and hydrologic properties, the negligible recharge and the high evapotranspiration of the area, have prevented contaminants from migrating to the aquifer beneath the landfill, and will continue to retard the migration of contaminants to the aquifer.

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7. RISK ASSESSMENT

7.1 MWL Land-Use Scenario

An industrial future land-use scenario has been designated for the MWL due to its location, disposal history, and projected future use. The landfill is currently fenced to prevent unrestricted access. The most likely receptors are site workers. These individuals provide weekly surveillance, general maintenance, and oversight of above-ground storage of low-level radioactive and mixed waste. Trespassers may also be receptors, although the potential for trespass at this remote, controlled site is not considered significant; the potential exposure routes for trespassers is the same as for site workers but the exposure frequency and duration would be significantly less. Therefore the potential receptor is considered to be a site worker in an industrial land-use scenario.

7.2 MWL Exposure Routes

Contaminant transport mechanisms have been identified which result in three primary exposure routes. Contaminants may be transported from disposal pits and trenches downward through the vadose zone to groundwater and potentially laterally towards water-supply wells. The nearest production well, KAFB-8, is 3 mi north of the MWL. To be conservative, a production well was assumed to be placed directly below the MWL for use in calculating potential intakes from ingestion of drinking water. Contaminants may be volatilized and move through the vadose zone to the surface. Contaminants may exist presently in surface soils and these may be ingested or inhaled as respirable particles. No human intrusion scenarios are included in the risk assessment. Institutional controls are planned which are assumed to mitigate these scenarios.

The conceptual model of chemical contamination and potential transport includes three exposure routes for risk assessment: (1) ingestion of chemicals in drinking water, (2) ingestion of chemicals in soil, and (3) inhalation of soil-derived particulates and vapor-phase contaminants. No potential for swimming in surface water is present due to high-desert environmental conditions. Because of these considerations and the projected industrial land-use scenario, SNL,NM does not consider ingestion routes related to consumption of fish, shell fish, fruits, vegetables, meat, eggs, or dairy products to be significant. These routes are not considered. Additionally, dermal exposure routes are not considered significant because of the lack of surface water.

For radionuclides, the conceptual model for potential transport includes the same three exposure routes for chemicals with the additional potential exposure route of external gamma radiation. The inhalation exposure route includes both particulates and vapor-phase radon and tritium.

7.3 Risk Assessment Analysis

Risk assessment of a site includes a number of steps which culminate in a quantitative evaluation of the potential adverse human health effects caused by constituents located at the site. The steps to be discussed in this section include:

Step 1. Site data are obtained which provide information on potential COCs, as well as the relevant physical characteristics and properties of the site.

Step 2. Potential pathways by which humans might be exposed to potential COCs are identified.

Step 3. The potential intake of these COCs by people is calculated using a tiered approach. The tiered approach includes screening steps, followed by potential intake calculations and a discussion or evaluation of the uncertainty in those calculations.

Step 4. Data are obtained on the potential toxicity and cancer effects from exposure to potential COCs and subsequent intake.

Step 5. Potential toxicity effects (specified as a Hazard Index), cancer risks and radiation doses are calculated.

Step 6. These values are compared with standards established by the EPA and DOE to determine if further evaluation, and potential site clean-up, is required.

Step 7. Discussion of uncertainties in the previous steps.

Step 1. Site Data

The identification of potential COCs and the sampling to determine the concentration of each COC at the MWL is described in Sections 4 and 5. In order to provide conservatism in this risk assessment, only the maximum concentration of each potential COC is used.

The next section describes the exposure pathways selected for this risk assessment. This section summarizes the data that are required to support those analyses. The types of data that are required include the concentrations of potential COCs from surface soils, the concentrations of the dust or vapors that may be inhaled, and the concentrations of potential COCs in drinking water.

Table 7.3-1 summarizes the maximum concentrations of analytes in surface soils at the MWL. The table consists of potential metal COCs only. The maximum concentration was used for conservativeness. These values are used to calculate the corresponding concentration of respirable particles (PM_{10}) in air for each of the analytes. The concentrations of dust in air were calculated using an EPA-documented model (EPA, 1991b).

Table 7.3-1
Maximum Concentrations of Analytes in Surface Soil Samples

Potential COC	Maximum concentration (mg/kg)	Maximum Concentration of Respirable Particles in Air (mg/m^3)
Aluminum	12300	1.8×10^{-5}
Arsenic	3.7	5.4×10^{-9}
Barium	168	2.5×10^{-7}
Beryllium	0.65	9.6×10^{-10}
Cadmium	0.4	5.9×10^{-10}
Chromium (VI)	11.5	1.7×10^{-8}
Cobalt	8.6	1.3×10^{-8}
Copper	6.4	9.4×10^{-9}
Lead	7.5	1.1×10^{-8}
Manganese	174	2.6×10^{-7}
Nickel	7.6	1.1×10^{-8}
Selenium	0.57	8.4×10^{-10}
Silver	0.96	1.4×10^{-9}
Thallium	1.9	2.8×10^{-9}
Vanadium	21.1	3.1×10^{-8}
Zinc	28.5	4.2×10^{-8}

For the vapor inhalation pathway, data on the vapor concentration in air are required. VOC flux was measured during two separate passive soil gas surveys in 1993 (Section 4.5). Tritium flux was measured in 1993 (Section 4.2). Table 7.3-2 presents maximum VOC and tritium flux and the corresponding modeled air concentration at the landfill. For tritium, the maximum flux was 166,000 pCi/m^3/hr corresponding to a modeled air concentration of 608 pCi/m^3. The modeled air concentration was estimated from the flux measurements using methodology described in RESRAD (Yu et al., 1993).

Table 7.3-2 Maximum MWL VOC Flux and Modeled Air Concentration

VOC	Maximum Flux ($ng/m^2/min$)	Modeled Air Concentration (mg/m^3)
Acetone	17	3.5×10^{-6}
Benzene	30	6.2×10^{-5}
1,1-Dichloroethene	1.3	2.7×10^{-7}
Methylene chloride	4800	1.0×10^{-3}
Dichloroethyne	100	2.1×10^{-5}
Ethyl benzene	1.2	2.5×10^{-7}
Isopropyl ether	36	7.5×10^{-6}
Styrene	1	2.1×10^{-7}
Tetrachloroethene	1000	2.1×10^{-4}
Toluene	52	1.1×10^{-5}
1,1,1-Trichloroethane	100	2.1×10^{-5}
Trichloroethene	330	6.9×10^{-5}
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	2.5×10^{-7}
Tritium	166,000 $pCi/m^3/hr$	608 pCi/m^3
Xylene	0.8	1.7×10^{-7}

Active soil gas surveys at the MWL detected VOCs at 10 ft and 30 ft bgs (Section 4.5). Because VOCs in the vapor phase may migrate through the vadose zone to groundwater, the migration of VOCs in soil gas is an important exposure pathway. Maximum VOC concentrations in soil gas are shown in Table 7.3-3. The maximum VOC concentrations are used for conservativeness. At the present time, none of these VOCs have been detected in MWL groundwater. These maximum VOC concentrations were used to calculate maximum anticipated groundwater concentrations, based on flow and transport calculations using the BOSS computer code. These predicted groundwater concentrations are summarized in Table 7.3-3. The assumptions and methods used to calculate these values are presented in Appendix N.

With regard to the transport of radionuclides from the MWL to groundwater, the results of both the Johnson report and the Klavetter analysis (Section 5.6) indicate that detectable activity in the groundwater is not likely now or in the next 30 years. Because the data and the modeling results strongly indicate that detectable levels of tritium will not reach groundwater, the conclusion is that there are no potential exposure pathways resulting from radionuclides reaching groundwater. Tritium concentrations measured from MWL borehole drilling samples are low and will continue to decrease with time because of migration and dispersion as well as natural radioactive decay. The small amounts of tritium detected below the surface are consistent with the quantity of the original source of tritium (only 0.25g).

Table 7.3-3
Maximum VOC Concentrations and Modeled Groundwater Concentration

VOC	Maximum Soil Gas Concentration (ppbv)	Modeled Max. Groundwater Concentration time = present (ppb)	Modeled Max. Groundwater Concentration (ppb) (time=30 yrs from present)
Dichloro-difluoromethane	29,000	1.0	4.0
Tetrachloroethene (PCE)	5900	0.4	0.6
1,1,1-Trichloroethane (1,1,1-TCA)	750	0.05	0.1
Trichloroethene (TCE)	800	0.07	0.1
Trichloro-fluoromethane	740	0.05	0.1
1,1,2-Trichloro-1,2,2-trifluoroethane	300	0.005	0.01

Step 2. Pathway Identification
An industrial future land-use scenario has been designated for the MWL. Soil ingestion, and inhalation from both dust and vapors are considered as potential pathways. VOC's have been detected in soil gas, and therefore a pathway to groundwater and subsequently to a human receptor via drinking water is considered potentially significant. Because of the lack of surface water or other significant mechanisms for dermal contact, the dermal exposure pathway is considered insignificant. Direct gamma exposure is also included in the radioactive contamination risk assessment. No intake routes through plant, meat, or milk ingestion are considered appropriate.

Pathway Identification

Chemical Constituents	Radionuclide Constituents
Soil Ingestion	Soil Ingestion
Inhalation (Dust)	Inhalation (Dust)
Inhalation (Vapor)	Inhalation (Vapor)
Drinking Water	Direct Gamma

Steps 3 through 5. Calculation of Hazard Indices and Cancer Risks
These steps include discussion of the tiered approach to calculating intakes, toxicity information, and calculation of the hazard indices and cancer risks.

The risks from potential COCs at the MWL were evaluated using a tiered approach.

- The maximum concentrations of potential COCs were compared to background levels using 95th UTLs or percentile values (IT Corporation, 1996). Maximum concentrations of potential COCs were used to provide a conservative estimate of the associated risk. Those potential COCs that were below background were not considered in further risk assessment.

- The remaining maximum concentrations were compared with action levels calculated using methods and equations promulgated in the proposed RCRA Subpart S (40 CFR, 1990) and RAGS (EPA, 1989) documentation. Accordingly, all calculations were based on the assumption that receptor doses from both toxic and potentially carcinogenic compounds result most significantly from ingestion of contaminated soil. Because the samples were all taken from the surface or near-surface, this assumption is considered valid. If there are 10 or fewer potential COCs and each has a maximum concentration less than one-tenth of the action level, then the site would be judged to pose no significant health hazard to humans.

- Hazard indices and risk due to carcinogenic effects were calculated using RME methods and equations promulgated in RAGS (EPA, 1989). The combined effects of all potential COCs in soils that were above background were calculated. For toxic compounds, this was accomplished by summing the individual hazard quotients for each metal into a total hazard index. This hazard index is compared to the recommended standard of 1. For potentially carcinogenic compounds, the individual risks were summed. Total risk was compared to the recommended risk range of 10^{-4} to 10^{-6}. For potential radioactive COCs, the cumulative dose was calculated and the corresponding excess cancer risk estimated.

<u>Comparison to Background and Action Levels</u>
Potential COCs are listed in Table 7.3-4, along with the 95^{th} percentile or UTL background levels (IT Corporation, 1996). Surface soil sampling for radionuclides showed all values to be below the 95^{th} percentile or UTL background level, with the exception of tritium. Because tritium does not produce gamma radiation, the direct gamma pathway was excluded, therefore, tritium only is included in Table 7.3-4. Background levels have not yet been approved by EPA or NMED but are the result of a comprehensive study of joint SNL,NM and KAFB data. The report was submitted for regulatory review in early 1996. The values shown in Table 7.3-4 supersede background values described in an interim background study report (IT Corporation, 1994). The last column in Table 7.3-4 compares the maximum contaminant concentration to the background level. Several compounds have maximum measured values greater than background levels. Those compounds are retained for further analysis.

As part of the tiered risk assessment, only those contaminants that have values above background are included in the next tier of risk assessment. Table 7.3-5 shows the inorganic contaminants from the soil sample analyses that were greater than background. All of the organic contaminants are included in the next tier of analyses. For the soil samples only, Table 7.3-5 also shows the Subpart S action level for the contaminants. Table 7.3-5 compares the maximum concentration to 1/10 of the Subpart S action level. This is the second screening process in the tiered risk assessment. Only one nonradioactive compound, thallium, has a concentration value greater than 1/10 of the Subpart S action level. Because of this single analyte, the site fails the Subpart S screening criteria and a HI value and cancer risk value is calculated for the contaminants.

Radioactive contamination does not have pre-determined action levels analogous to Subpart S and therefore this step in the screening process is not performed for radionuclides.

Table 7.3-4
Potential COCs at the MWL and Comparison to Background Screening Values

Potential COC	Maximum Concentration	95th % or UTL (mg/kg)	Is maximum COC concentration < background screening value?
Surface Soil Samples			
Aluminum	12300 mg/kg	70,000[a]	Yes
Arsenic	3.7 mg/kg	5.6	Yes
Barium	168 mg/kg	130	**No**
Beryllium	0.65 mg/kg	0.65	Yes
Cadmium	0.4 mg/kg	1.6	Yes
Chromium (VI)	11.5 mg/kg	17	Yes
Cobalt	8.6 mg/kg	7.1	**No**
Copper	6.4 mg/kg	25.5	Yes
Lead	7.5 mg/kg	21.4	Yes
Manganese	174 mg/kg	830[a]	Yes
Nickel	7.6 mg/kg	11.5	Yes
Selenium	0.57 mg/kg	<1	**No**
Silver	0.96 mg/kg	2.0	Yes
Thallium	1.9 mg/kg	<1	**No**
Tritium	1101 pCi/g	NA	**No**
Vanadium	21.1 mg/kg	20.4	**No**
Zinc	28.5 mg/kg	62	Yes
Modeled Vapor Concentration			
Acetone	3.5×10^{-6} mg/m^3	NA	
Benzene	6.2×10^{-5} mg/m^3	NA	
1,1-Dichloroethene	2.7×10^{-7} mg/m^3	NA	
Methylene chloride	1.0×10^{-3} mg/m^3	NA	
Dichloroethyne	2.1×10^{-5} mg/m^3	NA	
Ethyl benzene	2.5×10^{-7} mg/m^3	NA	
Isopropyl ether	7.5×10^{-6} mg/m^3	NA	
Styrene	2.1×10^{-7} mg/m^3	NA	
Tetrachloroethene	2.1×10^{-4} mg/m^3	NA	
Toluene	1.1×10^{-5} mg/m^3	NA	
1,1,1-Trichloroethane	2.1×10^{-5} mg/m^3	NA	
Trichloroethene	6.9×10^{-5} mg/m^3	NA	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.5×10^{-7} mg/m^3	NA	
Tritium	608 pCi/m^3	NA	
Xylene	1.7×10^{-7} mg/m^3	NA	
Modeled Groundwater Concentration			
Dichloro-difluoromethane	1.0 ppb	NA	
Tetrachloroethene (PCE)	0.4 ppb	NA	
1,1,1-Trichloroethane (1,1,1-TCA)	0.05 ppb	NA	
Trichloroethene (TCE)	0.07 ppb	NA	
Trichloro-fluoromethane	0.05 ppb	NA	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.005 ppb	NA	

(a) Background screening value for the Albuquerque 1° by 2° quadrangle from the National Uranium Resource Evaluation program (USGS, 1994).

NA Not applicable

Table 7.3-5
Comparison of Potential COC Concentrations to Subpart S Action Levels

Potential COC	Maximum concentration (mg/kg)	Subpart S Action Level	Is individual contaminant less than 0.1 x Action Level?
Barium	168	6000	**Yes**
Cobalt	8.6	5000	**Yes**
Selenium	0.57	400	**Yes**
Thallium	1.9	5.5	**No**
Vanadium	21.1	600	**Yes**

None of the potential COCs from the surface soil samples can be eliminated in this screening step. These potential COCs are retained for the next level of risk assessment. Table 7.3-6 shows all of the contaminants and their concentrations that are used in the RME calculations performed in the next tier of the analysis.

7.4 Toxicological Parameters

Table 7.3-7 shows potential COCs that have been retained in the risk assessment and the values for the toxicological information available for those potential COCs.

Table 7.3-6
Potential COCs at the MWL Used in the RME Analysis

Potential COC	Maximum concentration
Soil Ingestion Pathway	
Barium	168 mg/kg
Cobalt	8.6 mg/kg
Selenium	0.57 mg/kg
Thallium	1.9 mg/kg
Tritium	1101 pCi/g
Vanadium	21.1 mg/kg
Dust Inhalation Pathway	
Barium	2.5×10^{-7} mg/m^3
Cobalt	1.3×10^{-8} mg/m^3
Selenium	8.4×10^{-10} mg/m^3
Thallium	2.8×10^{-9} mg/m^3
Tritium	2.0×10^{-3} pCi/m^3
Vanadium	3.1×10^{-8} mg/m^3
Vapor Inhalation Pathway	
Acetone	3.5×10^{-6} mg/m^3
Benzene	6.2×10^{-5} mg/m^3
1,1-Dichloroethene	2.7×10^{-7} mg/m^3
Methylene chloride	1.0×10^{-3} mg/m^3
Dichloroethyne	2.1×10^{-5} mg/m^3
Ethyl benzene	2.5×10^{-7} mg/m^3
Isopropyl ether	7.5×10^{-6} mg/m^3
Styrene	2.1×10^{-7} mg/m^3
Tetrachloroethene	2.1×10^{-4} mg/m^3
Toluene	1.1×10^{-5} mg/m^3
1,1,1-Trichloroethane	2.1×10^{-5} mg/m^3
Trichloroethene	6.9×10^{-5} mg/m^3
1,1,2-Trichloro-1,2,2-trifluoroethane	2.5×10^{-7} mg/m^3
Tritium	608 pCi/m^3
Xylene	1.7×10^{-7} mg/m^3
Drinking Water Ingestion Pathway	
Dichloro-difluoromethane	1.0 ppb
Tetrachloroethene (PCE)	0.4 ppb
1,1,1-Trichloroethane (1,1,1-TCA)	0.05 ppb
Trichloroethene (TCE)	0.07 ppb
Trichloro-fluoromethane	0.05 ppb
1,1,2-Trichloro-1,2,2-trifluoroethane	0.005 ppb

Table 7.3-7 Toxicological Parameters

Potential COC	RfD_o (mg/kg/d)	RfD_{inh} (mg/kg/d)	Confidence	SF_o (kg-d/mg)	SF_{inh} (kg-d/mg)	Cancer Class	ARARs
Soil Ingestion and Dust Inhalation Pathway							
Barium	--	0.07	M	--	--	--	
Cobalt	--	--	--	--	--	--	
Selenium	0.005	--	H	--	--	D	
Thallium	--	--	--	--	--	D	
Vanadium	--	--	--	--	--	--	
Vapor Inhalation Pathway							
Acetone	0.1		L				
Benzene				0.029	0.029	A	
1,1-Dichloroethene	0.009		M	0.6	0.18	C	
Methylene chloride	0.06	0.86		0.0075	0.0016	B2	
Dichloroethyne							
Ethyl benzene	0.1	0.29	L			D	
Isopropyl ether							
Styrene	0.2	0.29	M				
Tetrachloroethene	0.01	M					
Toluene	0.2	0.11	M			D	
1,1,1-Trichloroethane						D	
Trichloroethene				0.011	0.006	(est.) B2	
1,1,2-Trichloro-1,2,2-trifluoroethane							
Tritium				7.2×10^{-14} 1/pCi	9.6×10^{-14} 1/pCi	A	
Xylene	2.0		M				
Drinking Water Ingestion Pathway							
Dichloro-difluoromethane	0.2	0.057					
Tetrachloroethene (PCE)	0.01			0.052	0.002	B2	0.005
1,1,1-Trichloroethane (1,1,1-TCA)							0.2
Trichloroethene (TCE)				0.011	0.006	(est.) B2	0.005
Trichloro-fluoromethane	0.3						
1,1,2-Trichloro-1,2,2-trifluoroethane							

Risk Characterization

Appendix N shows the equations and parameters used in the calculation of HI and excess cancer risk. The equations are based on RAGS (EPA, 1989). The parameters are based on information from RAGS (EPA, 1989) as well as other EPA guidance documents and reflect the RME approach advocated in RAGS (EPA, 1989).

Table 7.3-8 shows the risk assessment values due to contamination from the surface. The values are based on an industrial land-use scenario with ingestion and dust inhalation exposure pathways. The HI calculated for these exposure pathways is 0.0; the excess cancer risk is calculated as 5×10^{-8}.

Table 7.3-8 Risk Assessment Values from Surface Contamination

Potential COC	Maximum concentration (mg/kg)	Industrial Land Use Scenario		
		HI	Cancer Risk	Dose (mrem/yr)
Barium	168	0.0	--	--
Cobalt	8.6	--	--	--
Selenium	0.57	0.0	--	--
Thallium	1.9	--	--	--
Tritium	--	--	5×10^{-8}	.002
Vanadium	21.1	--	--	--
Total		**0.0**	**5×10^{-8}**	**.002**

Table 7.3-9 below shows the risk assessment values calculated for an industrial land-use scenario for the vapor inhalation pathway resulting from vaporization of surface or subsurface VOCs. The HI for this exposure pathway is 0.0; the excess cancer risk is calculated as 7×10^{-7}.

Table 7.3-9 Risk Assessment Values Due to Vapor Exposure

Potential COC	Maximum Modeled Vapor Concentration (mg/m^3)	Industrial Land Use Scenario	
		HI	Cancer Risk
Acetone	3.5×10^{-6}	--	--
Benzene	6.2×10^{-5}	--	1.5×10^{-7}
1,1-Dichloroethene	2.7×10^{-7}	--	4.1×10^{-9}
Methylene chloride	1.0×10^{-3}	0.00	1.3×10^{-7}
Dichloroethyne	2.1×10^{-5}	--	--
Ethyl benzene	2.5×10^{-7}	0.00	--
Isopropyl ether	7.5×10^{-6}	--	--
Styrene	2.1×10^{-7}	0.00	--
Tetrachloroethene	2.1×10^{-4}	--	3.5×10^{-8}
Toluene	1.1×10^{-5}	0.00	--
1,1,1-Trichloroethane	2.1×10^{-5}	--	--
Trichloroethene	6.9×10^{-5}	--	3.5×10^{-7}
1,1,2-Trichloro-1,2,2-trifluoroethane	2.5×10^{-7}	--	--
Xylene	1.7×10^{-7}	--	--
Total		**0.0**	**7×10^{-7}**

The final exposure pathway considered is the potential for ingestion of drinking water that has been contaminated at the groundwater level and brought into contact with a worker at the surface with an on-site well. Table 7.3-10 shows the calculated risk assessment values. The calculated HI is 0.0; the calculated excess cancer risk is 2×10^{-7}. The table also notes that the ARARs for PCE, TCA, and TCE are significantly higher than the estimated groundwater concentration.

Consistent with guidance provided in RAGS (EPA, 1989), non-radioactive and radioactive excess cancer risks are not additive. The excess cancer risk due to tritium vapor exposure is estimated to be 6×10^{-6} corresponding to a dose of 0.29 mrem/yr.

Table 7.3-10 Risk Assessment Values Due to Ingestion of Drinking Water

Potential COC	Maximum Modeled Vapor Concentration (ppb)	Industrial Land Use Scenario		
		ARAR (MCL)	HI	Cancer Risk
Dichloro-difluoromethane	1.0	--	0.00	--
Tetrachloroethene (PCE)	0.4	5 ppb	--	2×10^{-7}
1,1,1-Trichloroethane (1,1,1-TCA)	0.05	200 ppb	0.00	3×10^{-8}
Trichloroethene (TCE)	0.07	5 ppb	--	9×10^{-9}
Trichloro-fluoromethane	0.05	--	0.00	--
1,1,2-Trichloro-1,2,2-trifluoroethane	0.005	--	0.00	--
TOTAL			**0.0**	2×10^{-7}

<u>Total Risk Assessment Values</u>
The risk assessment values for the MWL are the summation of the risk values for the individual exposure pathways considered and are shown in Table 7.3-11. The total calculated HI for the MWL is 0.0. The total calculated excess cancer risk for the MWL is 6×10^{-7}.

Table 7.3-11
Total of Risk Assessment Values Due to all Considered Exposure Pathways

Exposure Pathways	Hazard Index	Non-radioactive Excess Cancer Risk	Radioactive Excess Cancer Risk
Soil Ingestion + Dust Inhalation	0.0	0.0	5×10^{-8}
Inhalation (Vapor)	0.0	7×10^{-7}	6×10^{-6}
Drinking Water	0.0	2×10^{-7}	0.0
Total	**0.0**	$\mathbf{9 \times 10^{-7}}$	$\mathbf{6 \times 10^{-6}}$

<u>Comparison of Risk Values to Numerical Standards.</u>
For potential non-radioactive COCs, the calculated HI is 0.0 which is much lower than the numerical standard suggested in RAGS (EPA, 1989) of 1. The excess cancer risk is estimated at 9×10^{-7}. For potential radioactive contaminants, the excess cancer risk is estimated at 6×10^{-6}, corresponding to a dose of 0.29 mrem/yr. In RAGS, the EPA suggests that a range of values (10^{-4} to 10^{-6}) be used as the numerical standard; the value calculated for the MWL is lower than even the low end of the suggested range. Therefore, for an industrial land-use scenario, the risk assessment values are significantly lower than the established numerical standards.

Uncertainty in Risk Assessment

The conclusion from risk assessment is that the potential affects to human health are small compared to established numerical standards. This section describes uncertainties in the formulation of the risk assessment for the MWL. MWL historical records with respect to disposal of VOCs are not quantitative. However, substantial site characterization has been performed to mitigate these uncertainties. Surface and subsurface measurements have been made, investigating potential contamination in the soil as well as the soil gas. These investigations have resulted in measurements that quantify the current contamination of the soil and the soil gas.

Monitoring wells are sampled biannually for detection of contaminants in the groundwater. No contamination has been detected to date. MWL characterization is considered adequate to address the uncertainty associated with MWL historical records.

To further address the uncertainties in potential MWL contamination, only maximum values of contaminant concentrations were used in risk assessment. When possible, direct concentration measurements were used. When such data were not available, documented models were used to estimate the concentrations used in the analyses (e.g., for particulate and vapor concentrations in the air, and groundwater concentrations). Calculation of groundwater concentrations were performed to determine the estimated maximum level of contamination in groundwater within the near future. Those calculations show that, because of the extremely low level of VOCs in the vadose zone at present, concentrations of all of the contaminants in the groundwater will remain low for the foreseeable future. Consistent with MWL monitoring well sampling, the calculated concentrations of potential COCs (e.g., TCE, TCA, and PCE) are below detection levels as well as significantly below the MCLs.

There are also uncertainties associated with the calculation of risk assessment values. The intake calculations use maximum concentrations and recommended values of other input parameters so as to provide the RME value. These RME values are recognized, generally, as very conservative compared to the mean or expected value. Additionally, uncertainties exist in the toxicological values used in determining the HI and excess cancer risk values. SNL,NM used the best available information from the IRIS and HEAST documents, supplementing those values with information from the EPA. The toxicological values already have factors that have been included to address uncertainty.

Because an RME approach was used, along with maximum concentration values of potential COCs considered in the assessment, a sensitivity analysis to quantify the conservative nature of the analysis is not considered necessary. RME calculations have been shown to generally provide estimates of the risk to human health in excess of the 99th percentile of the cumulative distribution of risks. The calculated RME risk values are low compared to the established standards. SNL,NM therefore concludes that the MWL will not significantly affect human health under an industrial land-use scenario.

8. CONCLUSIONS AND RECOMMENDATIONS

The Phase 2 RCRA Facility Investigation Report presents the cumulative results of 5 years of assessment and characterization at the MWL. A total of $5.2 million has been spent on MWL characterization since 1991. The MWL Phase 2 RCRA Facility Investigation incorporated the Streamlining Approach, combining Data Quality Objectives and the Observational Approach. The Streamlining Approach provided a consistent, logical, common sense approach that optimized planning, assessment, and implementation of the RCRA Facility Investigation in a framework that was compatible with existing DOE and EPA regulations and guidance.

The field work for the Phase 2 RCRA Facility Investigation was completed in 1995. Field work consisted of reconnaissance radiological surveys, air monitoring, passive and active soil gas sampling, non-intrusive geophysical surveys, sub-surface soil sampling for background metals and radionuclides, surface soil sampling, borehole drilling and sampling, vadose zone tests, and aquifer tests.

A number of contaminants were identified at the MWL during the Phase 2 RFI. These include VOCs, SVOCs, metals, and tritium. VOCs in soil gas were detected to depths of 30 ft bgs. Vapor-phase profiles with depth were calculated for VOCs in soil gas and in all cases initial soil gas concentrations dropped to less than 10% within 200 ft bgs. None of the VOCs in soil gas were predicted to reach groundwater in concentrations exceeding Proposed Subpart S action levels.

VOCs, SVOCs, and metals were detected in subsurface soils at the MWL. VOCs and SVOCs were all below proposed Subpart S action levels or action levels generated from toxicity information. Metals, with the exception of beryllium, were also below proposed Subpart S action levels. Background concentrations of beryllium in surface and subsurface soils have been found to be anomalously high at SNL,NM/KAFB (IT Corporation, 1996). Radionuclides were all below their respective MDAs with the exception of tritium.

Tritium was identified as the contaminant of primary concern at the MWL. This has been a consistent finding at the MWL since environmental studies were initiated at SNL,NM in 1969. Tritium occurs in surface and near-surface soils in and around the classified area of the landfill. Tritium levels range from 1100 pCi/g in surface soils around Pit 33 to 20,600 pCi/g in subsurface soils. The highest tritium levels are found within 30 ft of the surface in soils adjacent to and directly below classified area disposal pits. Below 30 ft bgs, tritium levels fall off rapidly to a few pCi/g of soil.

Tritium also occurs as a diffuse air emission from the landfill. A total of 0.294 Ci/yr is released from the landfill surface (Radian Corporation, 1994). The maximum radiological dose to the maximally-exposed off-site receptor is 1.1×10^{-5} mrem/yr due to internal exposure to tritium. The maximum radiological dose to the maximally-exposed on-site receptor due to combined soil and vapor ingestion is 0.29 mrem/yr. Even so, tritium activities at the MWL will decrease steadily with time. Tritium activity at the landfill will decrease to approximately 10% of its original activity within 3 half-lives (36.9 yrs).

For comparison, the average radiation exposure due to natural sources (radon, internal radiation, cosmic radiation, and terrestrial radiation) in the U.S. is approximately 295 mrem/yr (NCRP, 1987). The calculated MWL doses for the industrial land-use scenario are well below the proposed EPA dose limit of 15 mrem/yr (40CFR196, 1994).

A risk assessment was conducted for the MWL and the results indicate that the MWL will not significantly affect human health or the environment under an industrial land-use scenario. MWL contaminants present little risk to groundwater or as air emissions to potential receptors. The risk to human health and the environment due to natural radiological sources is much greater than risk posed by the MWL.

Based on the results of this Phase 2 RCRA Facility Investigation and MWL risk assessment, the MWL is recommended for No Further Action. The landfill should remain under institutional control and access restricted. The landfill should also remain under environmental surveillance and routine maintenance performed as warranted. Groundwater monitoring for tritium only is recommended on an annual basis until 1999. Groundwater monitoring is proposed for April 1997, April 1998, and April 1999. Tritium has been selected as the primary indicator contaminant because tritium represents the most mobile constituent in the vadose zone at the landfill and will most likely be the first such contaminant to reach groundwater. If tritium is detected in groundwater, sampling for VOCs should be initiated. If no contamination is detected in groundwater by 1999, groundwater monitoring at the MWL should be terminated.

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REPORT OF THE MIXED WASTE LANDFILL PHASE 2 RCRA FACILITY INVESTIGATION APPENDICES A - N SANDIA NATIONAL LABORATORIES ALBUQUERQUE, NEW MEXICO

September 1996

Environmental
Restoration
Project

United States Department of Energy
Albuquerque Operations Office

APPENDIX A

Example Statistical Calculations

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Appendix A. Example Statistical Calculations

Introduction

Appendix A presents the statistical approach used to analyze and quantify data collected for ER site characterization activities at SNL,NM. Distribution analyses were determined for two background sample data sets collected at SNL,NM. For comparison purposes, normal and lognormally-transformed data were used in the distribution analyses. Data sets from two hypothetical ER sites were compared to SNL,NM background data to demonstrate the statistical approach used to evaluate ER site data.

To determine the range of background concentrations, the 95th upper tolerance limit (UTL) or the 95th percentile were calculated for parametric and non-parametric data sets, respectively. The following steps were completed to arrive at a 95th UTL or percentile value: 1) *a priori* screening of the data; 2) determination of the percentage of non-detects in the data sets; 3) distribution analysis of the portion of the data set that exhibited less than 15% non-detects, including calculation of the coefficient of skewness and Shapiro-Wilk Test of Normality and interpretation of histograms and probability plots; 4) a second screening of the data performed by the calculation of the T_n statistic for parametric data; and finally 5) calculation of the 95th UTL for parametric data sets or the 95th percentile for non-parametric data sets.

After the 95th UTL or 95th percentile was calculated, background data sets were compared to the ER site-specific data sets. This comparison added credence to the UTL by determining if the background and site-specific data were statistically similar. For parametric background data sets, comparison analyses were conducted using the F distribution, the Student's t-test, the Wilcoxon Rank Sum test, the Quantile test, and the Kolmogorov-Smirnov test. Comparison analyses of non-parametric background data sets were analyzed by the Wilcoxon Rank Sum test, the Quantile test, and the Kolmogorov-Smirnov test.

In some instances, comparison tests were performed to determine whether background samples collected from different depth intervals were similar and therefore could be combined. Probability plots and the Wilcoxon Rank Sum test were used for comparison analysis.

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1. Distribution Analyses

A distribution analysis was performed to determine if a particular data set was parametric or non-parametric. The data first were subjected to an *a priori* screen (Section 1.2). The number of non-detects were then evaluated for the data set (Section 1.3). If greater than 15% non-detects existed, the data set was considered non-parametric and the distribution analysis was concluded. If fewer than 15% non-detects existed, the data were subjected to two numerical and two graphical procedures to help determine the distribution type. The numerical procedures used were the coefficient of skewness (Section 1.4) and the Shapiro-Wilk Test of Normality (Section 1.5). The graphical procedures used were the histogram (Section 1.6) and the probability plot (Section 1.7). The results of the four procedures were compared and the distribution was determined (Section 1.8).

The T_n statistic was then calculated for the parametric data sets as a second screening mechanism for outliers (Section 1.9). If a data set contained fewer than 15% non-detects but failed the numerical and graphical procedures for a parametric distribution, the data set was often carried through to the T_n statistic procedure to determine if outliers were present. In some instances, outliers were identified and removed during the T_n statistic procedure. This allowed the data set that had initially failed to pass the parametric numerical and graphical tests. If outliers were identified during the T_n statistical test, the outliers were removed and the mean and standard deviation were recalculated for the data set.

1.1 Background Data Sets

Tables 1 and 2 present SNL,NM background data sets for antimony and copper, respectively. The tables provide the raw analytical data, coded values, natural log-transformed data from each sample location, and instrument detection limits. A coded value is identical to the raw data value except when a concentration was reported below the instrument detection limit. The coded value in this case is one half of the instrument detection limit. The coded data set was used for the background antimony distribution analysis because of the presence of a non-detect.

1.2 Rejection of Outliers: *A Priori* Test

The *a priori* test is a screening test used to eliminate outliers before the distribution analysis is performed (EPA 1992a). For the *a priori* test outliers are defined as maximum values greater than three times the next highest value (EPA 1992a). Non-transformed coded data are used for this screening test. If a data value fails the *a priori* test, it is removed from the data set for all following statistical analyses. The data point, however, must be explained as either potential sampling error, laboratory error, an anomalously high value, or some other factor contributing to an unexpectedly large concentration.

1.3 Determination of Percent Non-detects

If the percentage of non-detects was less than 15%, a parametric distribution analysis was performed. If the percentage of non-detects was greater than 15%, the distribution was considered non-parametric and a distribution analysis was not performed (EPA 1992a,b).

The SNL,NM background antimony data set had one non-detect out of 16 samples, or 6% non-detects. The SNL,NM background copper data set had zero non-detects. Both data sets were eligible for the parametric distribution analysis.

Table 1 Antimony Data for SNL,NM Background (mg/kg)

Sample ID	Raw Data	Coded Value	Natural Log of Coded Value	Instrument Detection Limit
T1BS1-BH005-002-SS	0.439	0.439	-0.823	0.0887
T1BS1-BH016-002-SS	0.396	0.396	-0.926	0.0939
T1BS1-BH012-002-SS	0.326	0.326	-1.121	0.0929
T1BS1-BH008-002-SS	0.317	0.317	-1.149	0.0887
T1BS1-BH015-002-SS	0.277	0.277	-1.284	0.0929
T1BS1-BH010-002-SS	0.243	0.243	-1.415	0.0929
T1BS1-BH009-002-SS	0.217	0.217	-1.528	0.0922
T1BS1-BH002-002-SS	0.197	0.197	-1.625	0.0958
T1BS1-BH014-002-SS	0.191	0.191	-1.655	0.0929
T1BS1-BH003-002-SS	0.186	0.186	-1.682	0.0912
T1BS1-BH011-002-SS	0.184	0.184	-1.693	0.0922
T1BS1-BH004-002-SS	0.159	0.159	-1.839	0.0912
T1BS1-BH013-002-SS	0.119	0.119	-2.129	0.0904
T1BS1-BH006-002-SS	0.11	0.11	-2.21	0.0948
T1BS1-BH007-002-SS	0.104	0.104	-2.263	0.0922
T1BS1-BH001-002-SS	U	0.0479	-3.039	0.0958

U = Concentration was below instrument detection limit

Basic statistical parameters for the antimony data are:

Raw
Mean (N=15) = 0.23
Standard Deviation = 0.10
Variance = 0.01

Coded
Mean (N=16) = 0.22
Standard Deviation = 0.11
Variance = 0.01

Lognormal (Coded)
Mean (N=16) = -1.65
Standard Deviation = 0.57
Variance = 0.32

Table 2 Copper Data for SNL,NM Background (mg/kg)

Sample ID	Raw Data	Natural Log of Raw Data	Instrument Detection Limit
T1BS1-BH005-002-SS	20.1	3.00	0.0499
T1BS1-BH006-002-SS	10.8	2.38	0.0534
T1BS1-BH008-002-SS	9.71	2.27	0.0499
T1BS1-BH012-002-SS	9.52	2.25	0.0523
T1BS1-BH011-002-SS	9.16	2.21	0.0519
T1BS1-BH003-002-SS	9.13	2.21	0.0513
T1BS1-BH010-002-SS	8.29	2.12	0.0523
T1BS1-BH016-002-SS	7.78	2.05	0.0528
T1BS1-BH001-002-SS	7.72	2.04	0.0539
T1BS1-BH004-002-SS	7.58	2.03	0.0513
T1BS1-BH007-002-SS	7.58	2.03	0.0519
T1BS1-BH002-002-SS	7.35	1.99	0.0539
T1BS1-BH014-002-SS	6.34	1.85	0.0523
T1BS1-BH009-002-SS	5.17	1.64	0.0519
T1BS1-BH015-002-SS	4.87	1.58	0.0523
T1BS1-BH013-002-SS	3.85	1.35	0.0509

Basic statistical parameters for the copper data are:

<u>Normal</u>
Mean (N=16) = 8.43
Standard Deviation = 3.63
Variance = 13.19

<u>Lognormal</u>
Mean = 2.06
Standard Deviation = 0.37
Variance = 0.14

Antimony, *a priori*:

Sample ID	Raw Data	Coded Value	Instrument Detection Limit	Rank	Multiplicative Factor*	Outlier?
T1BS1-BH005-002-SS	0.439	0.439	0.0887	1	1.1	No
T1BS1-BH016-002-SS	0.396	0.396	0.0939	2	1.2	No
T1BS1-BH012-002-SS	0.326	0.326	0.0929	3	1.0	No
T1BS1-BH008-002-SS	0.317	0.317	0.0887	4	1.1	No
T1BS1-BH015-002-SS	0.277	0.277	0.0929	5	1.1	No
T1BS1-BH010-002-SS	0.243	0.243	0.0929	6	1.1	No
T1BS1-BH009-002-SS	0.217	0.217	0.0922	7	1.1	No
T1BS1-BH002-002-SS	0.197	0.197	0.0958	8	1.0	No
T1BS1-BH014-002-SS	0.191	0.191	0.0929	9	1.0	No
T1BS1-BH003-002-SS	0.186	0.186	0.0912	10	1.0	No
T1BS1-BH011-002-SS	0.184	0.184	0.0922	11	1.2	No
T1BS1-BH004-002-SS	0.159	0.159	0.0912	12	1.3	No
T1BS1-BH013-002-SS	0.119	0.119	0.0904	13	1.1	No
T1BS1-BH006-002-SS	0.11	0.11	0.0948	14	1.1	No
T1BS1-BH007-002-SS	0.104	0.104	0.0922	15	2.2	No
T1BS1-BH001-002-SS	U	0.0479	0.0958	16	NA	No

* - multiplicative factor is determined by dividing a value by the next highest ranked value.
NA - Not Applicable

Interpretation: No outliers were eliminated from the antimony data set via the *a priori* screening method.

Copper, *a priori*:

Sample ID	Raw Data	Instrument Detection Limit	Rank	Multiplicative Factor*	Outlier?
TIBSI-BH005-002-SS	20.1	0.0499	1	1.9	No
TIBSI-BH006-002-SS	10.8	0.0534	2	1.1	No
TIBSI-BH008-002-SS	9.71	0.0499	3	1.0	No
TIBSI-BH012-002-SS	9.52	0.0523	4	1.0	No
TIBSI-BH011-002-SS	9.16	0.0519	5	1.0	No
TIBSI-BH003-002-SS	9.13	0.0513	6	1.1	No
TIBSI-BH010-002-SS	8.29	0.0523	7	1.1	No
TIBSI-BH016-002-SS	7.78	0.0528	8	1.0	No
TIBSI-BH001-002-SS	7.72	0.0539	9	1.0	No
TIBSI-BH004-002-SS	7.58	0.0513	10	1.0	No
TIBSI-BH007-002-SS	7.58	0.0519	11	1.0	No
TIBSI-BH002-002-SS	7.35	0.0539	12	1.2	No
TIBSI-BH014-002-SS	6.34	0.0523	13	1.2	No
TIBSI-BH009-002-SS	5.17	0.0519	14	1.1	No
TIBSI-BH015-002-SS	4.87	0.0523	15	1.3	No
TIBSI-BH013-002-SS	3.85	0.0509	16	NA	No

NA - Not Applicable

Interpretation: No outliers were eliminated from the copper data set via the *a priori* screening method.

1.4 Coefficient of Skewness

The coefficient of skewness indicates to what degree a data set is skewed or asymmetric with respect to the mean. Data from a perfectly shaped normal distribution have a coefficient of skewness of zero, while asymmetric data have either positive or negative skewness depending on whether the right- or left-hand tail of the distribution is longer and "skinnier" than the opposite tail. A small degree of skewness (between -1 and +1) is not likely to affect the results of statistical tests based on an assumption of normality. However, if the coefficient of skewness is larger than 1 (in absolute value) and the sample size is small (e.g., n<25), statistical research has shown that standard normal theory-based tests are much less powerful than when the absolute skewness is less than 1 (Gayen, 1949). Therefore, it is considered a failure of the test for normality if the coefficient of skewness exceeds 1.

The formula for the coefficient of skewness γ_i is shown below, where n is the number of data points, x_i is an individual sample observation, $\bar{x}$ is the mean of the data set, and σ is the standard deviation.

$$\gamma_i = \frac{\frac{1}{n}\sum_{i=1}^{n}(x_i - \bar{x})^3}{\left(\frac{n-1}{n}\right)^{\frac{3}{2}}(\sigma)^3}$$

The Coefficient of Skewness can also be used to evaluate whether the distribution of a data set is more normal or lognormal, based on the closeness of γ_i to zero.

Coefficient of Skewness Calculations for Background Antimony at SNL,NM: Normal

Sample ID	Coded Value	Mean	$(x_i - \bar{x})$	$(x_i - \bar{x})^3$
T1BS1-BH005-002-SS	0.439	0.220	0.219	0.011
T1BS1-BH016-002-SS	0.396	0.220	0.176	0.005
T1BS1-BH012-002-SS	0.326	0.220	0.106	0.001
T1BS1-BH008-002-SS	0.317	0.220	0.097	0.001
T1BS1-BH015-002-SS	0.277	0.220	0.057	0.000
T1BS1-BH010-002-SS	0.243	0.220	0.023	0.000
T1BS1-BH009-002-SS	0.217	0.220	-0.003	0.000
T1BS1-BH002-002-SS	0.197	0.220	-0.023	0.000
T1BS1-BH014-002-SS	0.191	0.220	-0.029	0.000
T1BS1-BH003-002-SS	0.186	0.220	-0.034	0.000
T1BS1-BH011-002-SS	0.184	0.220	-0.036	0.000
T1BS1-BH004-002-SS	0.159	0.220	-0.061	0.000
T1BS1-BH013-002-SS	0.119	0.220	-0.101	-0.001
T1BS1-BH006-002-SS	0.11	0.220	-0.110	-0.001
T1BS1-BH007-002-SS	0.104	0.220	-0.116	-0.002
T1BS1-BH001-002-SS	0.0479	0.220	-0.172	-0.005
				sum = 0.009

thus, for a normal distribution,

$$\gamma_i = \frac{\frac{0.009}{16}}{(0.908)(0.001)}$$

$$\gamma_i = 0.62$$

Coefficient of Skewness Calculations for Background Antimony at SNL,NM: Lognormal

Sample ID	Log (Coded Value)	Mean	$(x_i - \bar{x})$	$(x_i - \bar{x})^3$
T1BS1-BH005-002-SS	-0.823	-1.65	0.827	0.566
T1BS1-BH016-002-SS	-0.926	-1.65	0.724	0.380
T1BS1-BH012-002-SS	-1.121	-1.65	0.529	0.148
T1BS1-BH008-002-SS	-1.149	-1.65	0.501	0.126
T1BS1-BH015-002-SS	-1.284	-1.65	0.366	0.049
T1BS1-BH010-002-SS	-1.415	-1.65	0.235	0.013
T1BS1-BH009-002-SS	-1.528	-1.65	0.122	0.002
T1BS1-BH002-002-SS	-1.625	-1.65	0.025	0.00
T1BS1-BH014-002-SS	-1.655	-1.65	-0.005	0.00
T1BS1-BH003-002-SS	-1.682	-1.65	-0.032	0.00
T1BS1-BH011-002-SS	-1.693	-1.65	-0.044	0.00
T1BS1-BH004-002-SS	-1.839	-1.65	-0.189	-0.007
T1BS1-BH013-002-SS	-2.129	-1.65	-0.479	-0.110
T1BS1-BH006-002-SS	-2.21	-1.65	-0.560	-0.176
T1BS1-BH007-002-SS	-2.263	-1.65	-0.613	-0.230
T1BS1-BH001-002-SS	-3.039	-1.65	-1.389	-2.680
				sum = -1.919

For a lognormal distribution,

$$\gamma_i = \frac{\frac{-1.919}{16}}{(0.908)(0.183)}$$

$$\gamma_i = -0.72$$

<u>Interpretation</u>: The data set more closely represents a normal distribution, because the coefficient of skewness for the normal distribution is closer to zero.

Coefficient of Skewness Calculations for Background Copper at SNL,NM: Normal

Sample ID	Raw Data	Mean	$(x_i - \bar{x})$	$(x_i - \bar{x})^3$
T1BS1-BH005-002-SS	20.1	8.43	11.67	1589.32
T1BS1-BH006-002-SS	10.8	8.43	2.37	13.31
T1BS1-BH008-002-SS	9.71	8.43	1.28	2.10
T1BS1-BH012-002-SS	9.52	8.43	1.09	1.30
T1BS1-BH011-002-SS	9.16	8.43	0.73	0.39
T1BS1-BH003-002-SS	9.13	8.43	0.70	0.34
T1BS1-BH010-002-SS	8.29	8.43	-0.14	0.00
T1BS1-BH016-002-SS	7.78	8.43	-0.65	-0.27
T1BS1-BH001-002-SS	7.72	8.43	-0.71	-0.36
T1BS1-BH004-002-SS	7.58	8.43	-0.85	-0.61
T1BS1-BH007-002-SS	7.58	8.43	-0.85	-0.61
T1BS1-BH002-002-SS	7.35	8.43	-1.08	-1.26
T1BS1-BH014-002-SS	6.34	8.43	-2.09	-9.13
T1BS1-BH009-002-SS	5.17	8.43	-3.26	-34.65
T1BS1-BH015-002-SS	4.87	8.43	-3.56	-45.12
T1BS1-BH013-002-SS	3.85	8.43	-4.58	-96.07
				sum = 1418.67

thus, for a normal distribution,

$$\gamma_i = \frac{\frac{1418.67}{16}}{(0.91)(47.83)}$$

$$\gamma_i = \frac{88.67}{43.53}$$

$$\gamma_i = 2.04$$

Coefficient of Skewness Calculations for Background Copper at SNL,NM: Lognormal

Sample ID	Log (Coded Value)	Mean	$(x_i - \bar{x})$	$(x_i - \bar{x})^3$
T1BS1-BH005-002-SS	3.00	2.06	0.94	0.83
T1BS1-BH006-002-SS	2.38	2.06	0.32	0.03
T1BS1-BH008-002-SS	2.27	2.06	0.21	0.01
T1BS1-BH012-002-SS	2.25	2.06	0.19	0.01
T1BS1-BH011-002-SS	2.21	2.06	0.15	0.00
T1BS1-BH003-002-SS	2.21	2.06	0.15	0.00
T1BS1-BH010-002-SS	2.12	2.06	0.06	0.00
T1BS1-BH016-002-SS	2.05	2.06	-0.01	0.00
T1BS1-BH001-002-SS	2.04	2.06	-0.02	0.00
T1BS1-BH004-002-SS	2.03	2.06	-0.03	0.00
T1BS1-BH007-002-SS	2.03	2.06	-0.03	0.00
T1BS1-BH002-002-SS	1.99	2.06	-0.07	0.00
T1BS1-BH014-002-SS	1.85	2.06	-0.21	-0.01
T1BS1-BH009-002-SS	1.64	2.06	-0.42	-0.07
T1BS1-BH015-002-SS	1.58	2.06	-0.48	-0.11
T1BS1-BH013-002-SS	1.35	2.06	-0.71	-0.36
				sum= 0.33

For a lognormal distribution,

$$\gamma_i = \frac{\frac{0.33}{16}}{(0.91)(0.052)}$$

$$\gamma_i = \frac{0.021}{0.047}$$

$$\gamma_i = 0.45$$

<u>Interpretation</u>: The data set more closely represents a lognormal distribution, because the coefficient of skewness for the lognormal distribution is between -1 and 1.

1.5 Shapiro-Wilk Test of Normality

The Shapiro-Wilk Test of Normality is based on the premise that, if a set of data is normally distributed, the ordered values should be highly correlative with corresponding quantiles taken from a normal distribution (Shapiro and Wilk, 1965). In particular, the Shapiro-Wilk Test of Normality gives substantial weight to evidence of non-normality in the tails of a distribution, where the robustness of statistical tests based on the normality assumption is the most severely affected (EPA, 1992a).

The Shapiro-Wilk test statistic (W) will tend to be large (close to 1) when the data is normally distributed. Only when the plotted data show significant bends or curves will the test statistic be small. The Shapiro-Wilk Test of Normality is considered to be one of the best available tests of normality (Miller, 1986; Madansky, 1988).

The following formula is used to calculate W:

$$W = \left[\frac{b}{\sigma\sqrt{n-1}}\right]^2$$

where,

$$b = \sum_{i=1}^{k} b_i = \sum_{i=1}^{k} a_{n-i+1}\left(x_{(n-i+1)} - x_i\right)$$

and σ = standard deviation,
n = number of data points,
a_{n-i+1} = coefficients determined from Table A-1 in EPA (1992a) for $3 \leq n \leq 50$
K = greatest integer less than or equal to n/2

Normality of the data should be rejected if the Shapiro-Wilk statistic is too low when compared to the critical values provided in Table A-2 (EPA, 1992a). Otherwise, the data are assumed to be approximately normal for purposes of further statistical analysis.

Shapiro-Wilk Test of Normality for Background Antimony at SNL,NM: Normal

Sample ID	x_i	$x_{(n-i+1)}$	$x_{(n-i+1)}-x_i$	a_{n-i+1}	b_i
T1BS1-BH001-002-SS	0.0479	0.439	0.3911	0.5056	0.19774016
T1BS1-BH007-002-SS	0.104	0.396	0.292	0.329	0.096068
T1BS1-BH006-002-SS	0.11	0.326	0.216	0.2521	0.0544536
T1BS1-BH013-002-SS	0.119	0.317	0.198	0.1939	0.0383922
T1BS1-BH004-002-SS	0.159	0.277	0.118	0.1447	0.0170746
T1BS1-BH011-002-SS	0.184	0.243	0.059	0.1005	0.0059295
T1BS1-BH003-002-SS	0.186	0.217	0.031	0.0593	0.0018383
T1BS1-BH014-002-SS	0.191	0.197	0.006	0.0196	0.0001176
T1BS1-BH002-002-SS	0.197	0.191	-0.006		
T1BS1-BH009-002-SS	0.217	0.186	-0.031		
T1BS1-BH010-002-SS	0.243	0.184	-0.059		
T1BS1-BH015-002-SS	0.277	0.159	-0.118		
T1BS1-BH008-002-SS	0.317	0.119	-0.198		
T1BS1-BH012-002-SS	0.326	0.11	-0.216		
T1BS1-BH016-002-SS	0.396	0.104	-0.292		
T1BS1-BH005-002-SS	0.439	0.0479	-0.3911		

sum of b_i ($\sum b_i$) = 0.41161396
standard deviation (σ) = 0.10840795
count - 1 (n-1) = 15
W statistic = 0.961
critical value (n = 16) = 0.887
Shapiro-Wilk Test for Normality = Pass

Shapiro-Wilk Test of Normality for Background Antimony at SNL,NM: Log Data

Sample ID	x_i	$x_{(n-i+1)}$	$x_{(n-i+1)}-x_i$	a_{n-i+1}	b_i
T1BS1-BH001-002-SS	-3.03864	-0.82326	2.215383909	0.5056	1.120098
T1BS1-BH007-002-SS	-2.26336	-0.92634	1.337023312	0.329	0.439881
T1BS1-BH006-002-SS	-2.20727	-1.12086	1.086417016	0.2521	0.273886
T1BS1-BH013-002-SS	-2.12863	-1.14885	0.979778281	0.1939	0.189979
T1BS1-BH004-002-SS	-1.83885	-1.28374	0.555113304	0.1447	0.080325
T1BS1-BH011-002-SS	-1.69282	-1.41469	0.278125686	0.1005	0.027952
T1BS1-BH003-002-SS	-1.68201	-1.52786	0.15415068	0.0593	0.009141
T1BS1-BH014-002-SS	-1.65548	-1.62455	0.030930301	0.0196	0.000606
T1BS1-BH002-002-SS	-1.62455	-1.65548	-0.030930301		
T1BS1-BH009-002-SS	-1.52786	-1.68201	-0.15415068		
T1BS1-BH010-002-SS	-1.41469	-1.69282	-0.278125686		
T1BS1-BH015-002-SS	-1.28374	-1.83885	-0.555113304		
T1BS1-BH008-002-SS	-1.14885	-2.12863	-0.979778281		
T1BS1-BH012-002-SS	-1.12086	-2.20727	-1.086417016		
T1BS1-BH016-002-SS	-0.92634	-2.26336	-1.337023312		
T1BS1-BH005-002-SS	-0.82326	-3.03864	-2.215383909		

sum of b_i (Σb_i) = 2.14186741
standard deviation (σ) = 0.56722194
count - 1 (n-1) = 15
W statistic = 0.951
critical value (n = 16) = 0.887
Shapiro-Wilk Test for Normality = Pass

Interpretation: The data set more closely represents a normal distribution because the calculated W statistic for the normal distribution is closer to 1.

Shapiro-Wilk Test of Normality for Background Copper at SNL,NM: Normal

Sample ID	x_i	$x_{(n-i+1)}$	$x_{(n-i+1)}-x_i$	a_{n-i+1}	b_i
T1BS1-BH013-002-SS	3.85	20.1	16.25	0.5056	8.216
T1BS1-BH015-002-SS	4.87	10.8	5.93	0.329	1.95097
T1BS1-BH009-002-SS	5.17	9.71	4.54	0.2521	1.144534
T1BS1-BH014-002-SS	6.34	9.52	3.18	0.1939	0.616602
T1BS1-BH002-002-SS	7.35	9.16	1.81	0.1447	0.261907
T1BS1-BH007-002-SS	7.58	9.13	1.55	0.1005	0.155775
T1BS1-BH004-002-SS	7.58	8.29	0.71	0.0593	0.042103
T1BS1-BH001-002-SS	7.72	7.78	0.06	0.0196	0.001176
T1BS1-BH016-002-SS	7.78	7.72	-0.06		
T1BS1-BH010-002-SS	8.29	7.58	-0.71		
T1BS1-BH003-002-SS	9.13	7.58	-1.55		
T1BS1-BH011-002-SS	9.16	7.35	-1.81		
T1BS1-BH012-002-SS	9.52	6.34	-3.18		
T1BS1-BH008-002-SS	9.71	5.17	-4.54		
T1BS1-BH006-002-SS	10.8	4.87	-5.93		
T1BS1-BH005-002-SS	20.1	3.85	-16.25		

sum of b_i (Σb_i) = 12.39
standard deviation (σ) = 3.63
count - 1 (n-1) = 15
W statistic = 0.776
critical value (n = 16) = 0.887
Shapiro-Wilk Test for Normality = Fail

Shapiro-Wilk Test of Normality for Background Copper at SNL,NM: Lognormal

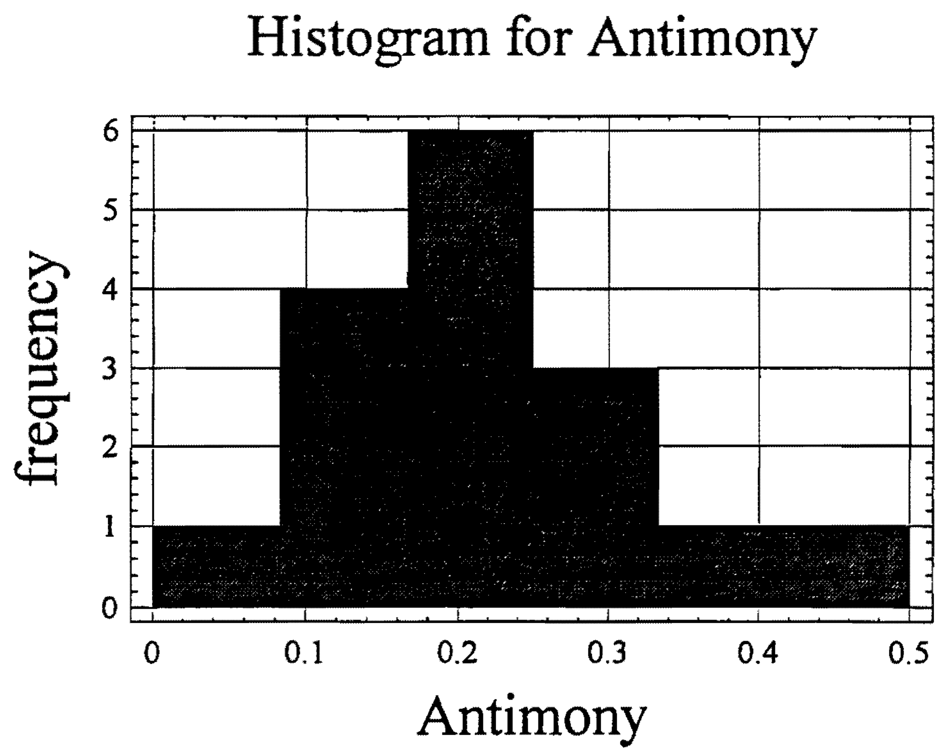
Sample ID	x_i	$x_{(n-i+1)}$	$x_{(n-i+1)}-x_i$	a_{n-i+1}	b_i
T1BS1-BH013-002-SS	1.35	3	1.65	0.5056	0.83424
T1BS1-BH015-002-SS	1.58	2.38	0.8	0.329	0.2632
T1BS1-BH009-002-SS	1.64	2.27	0.63	0.2521	0.158823
T1BS1-BH014-002-SS	1.85	2.25	0.4	0.1939	0.07756
T1BS1-BH002-002-SS	1.99	2.21	0.22	0.1447	0.031834
T1BS1-BH007-002-SS	2.03	2.21	0.18	0.1005	0.01809
T1BS1-BH004-002-SS	2.03	2.12	0.09	0.0593	0.005337
T1BS1-BH001-002-SS	2.04	2.05	0.01	0.0196	0.000196
T1BS1-BH016-002-SS	2.05	2.04	-0.01		
T1BS1-BH010-002-SS	2.12	2.03	-0.09		
T1BS1-BH003-002-SS	2.21	2.03	-0.18		
T1BS1-BH011-002-SS	2.21	1.99	-0.22		
T1BS1-BH012-002-SS	2.25	1.85	-0.4		
T1BS1-BH008-002-SS	2.27	1.64	-0.63		
T1BS1-BH006-002-SS	2.38	1.58	-0.8		
T1BS1-BH005-002-SS	3	1.35	-1.65		

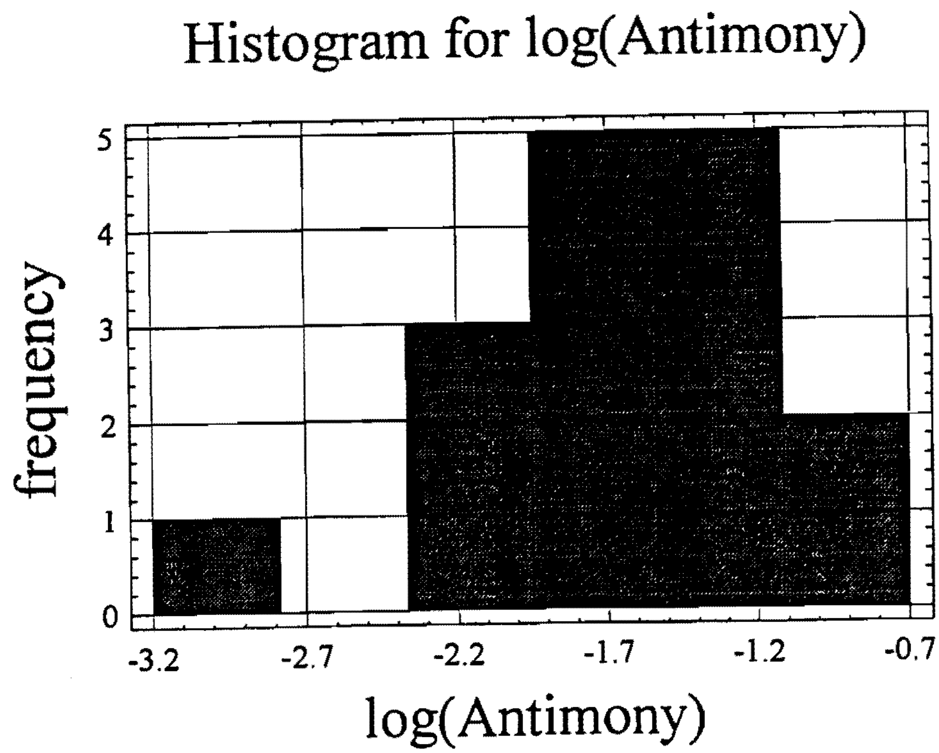
sum of b_i (Σb_i) = 1.39
standard deviation (σ) = 0.37
count - 1 (n-1) = 15
W statistic = 0. 929
critical value (n = 16) = 0.887
Shapiro-Wilk Test for Normality = Pass

Interpretation: The data set more closely represents a lognormal distribution because the calculated W statistic for the lognormal distribution passes the Shapiro-Wilk test.

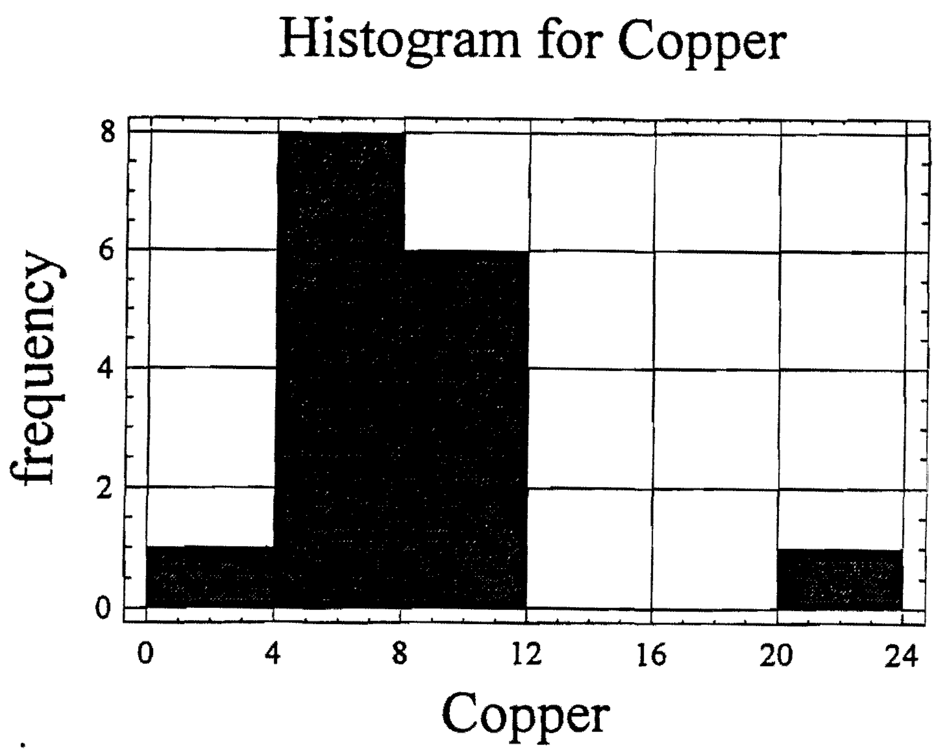
1.6 Histograms

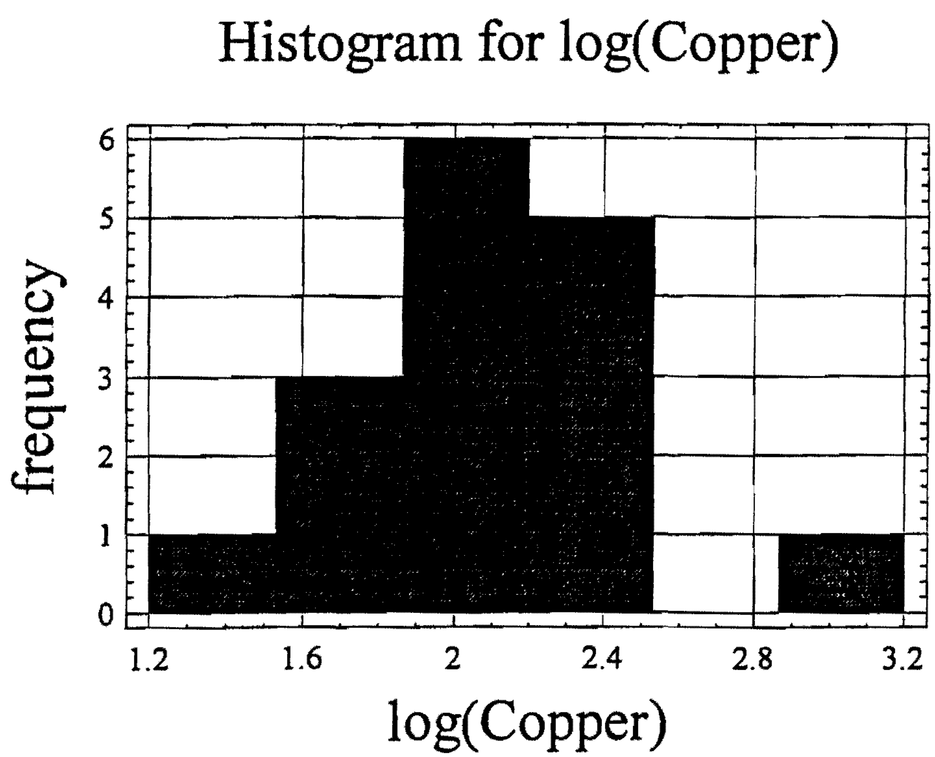
Histograms are useful for visually determining whether the data sets are skewed, and if so, in what direction. Histograms are created by determining the range of sample concentrations, then dividing the concentration range into equal intervals. Samples are then placed into the appropriate concentration intervals. The concentration range forms the x-axis. Calculating the percentage of samples per concentration interval compared to the total number of samples, or simply plotting the number of data values that fall within an interval, provides the y-axis in terms of percent frequency or frequency, respectively, of a particular concentration interval.





Interpretation: The data set more closely represents a normal distribution.





Interpretation: The data set more closely represents a lognormal distribution

1.7 Probability Plots

Another simple and useful graphical test for determining normality is to plot the data on probability paper. The y-axis is scaled to represent probabilities according to the normal distribution, and the data are arranged in increasing order. An observed value is plotted on the x-axis, and the proportion of observations less than or equal to each observed value is plotted as the y-coordinate. The scale is constructed so that, if the data are normal, the points when plotted will approximate a straight line. Visually apparent curves or bends indicate that the data do not follow a normal distribution (EPA, 1992a).

Probability plots are particularly useful for spotting irregularities within the data when compared to a specific distributional model such as the normal distribution. It is easy to determine whether departures from normality are occurring more or less in the middle ranges of the data or in the extreme tails. Probability plots can also indicate the presence of possible outlier values that do not follow the basic pattern of the data and can show the presence of significant positive or negative skewness.

The probability for a particular data value x is calculated as

$$\text{Probability} = 100((i-3/8)/(n+1/4))$$

where,

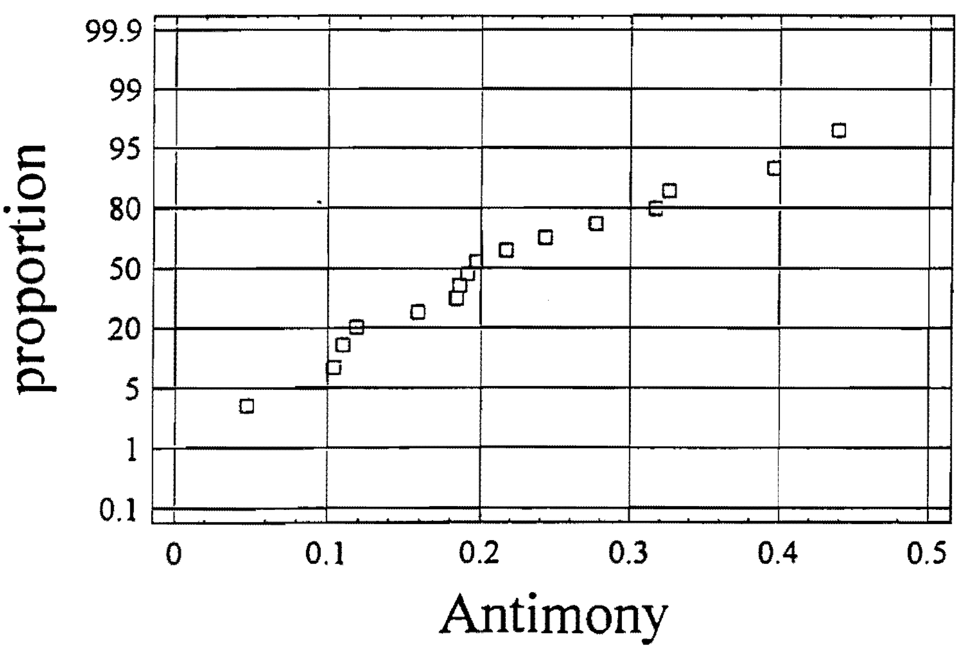
 i = ranked order of x_i from i to n
 n = number of samples

Probability Plot for Background Antimony at SNL,NM:

Sample ID	Coded Value	Order (i)	Probability 100((i-3/8)/(n+1/4))
T1BS1-BH001-002-SS	0.0479	1	3.846154
T1BS1-BH007-002-SS	0.104	2	10
T1BS1-BH006-002-SS	0.11	3	16.15385
T1BS1-BH013-002-SS	0.119	4	22.30769
T1BS1-BH004-002-SS	0.159	5	28.46154
T1BS1-BH011-002-SS	0.184	6	34.61538
T1BS1-BH003-002-SS	0.186	7	40.76923
T1BS1-BH014-002-SS	0.191	8	46.92308
T1BS1-BH002-002-SS	0.197	9	53.07692
T1BS1-BH009-002-SS	0.217	10	59.23077
T1BS1-BH010-002-SS	0.243	11	65.38462
T1BS1-BH015-002-SS	0.277	12	71.53846
T1BS1-BH008-002-SS	0.317	13	77.69231
T1BS1-BH012-002-SS	0.326	14	83.84615
T1BS1-BH016-002-SS	0.396	15	90
T1BS1-BH005-002-SS	0.439	16	96.15385

n = 16

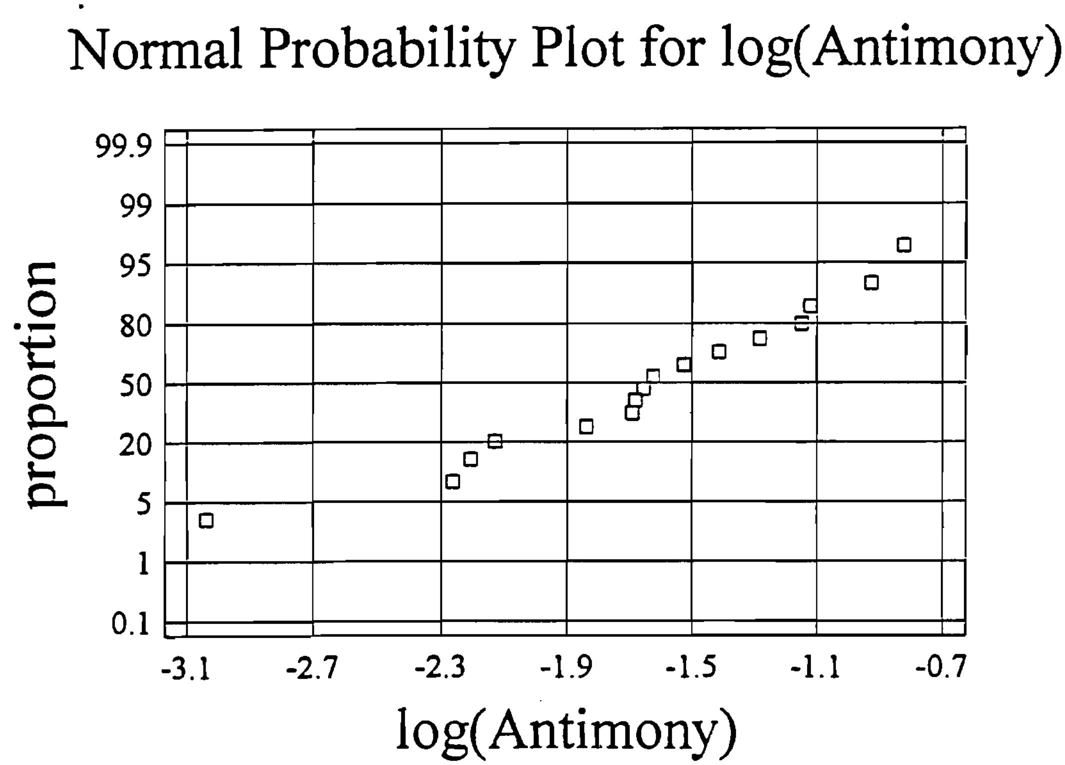
Normal Probability Plot for Antimony



Normal Probability Plot for Background Lognormal Antimony at SNL,NM:

Sample ID	Log (Coded Value)	Order (i)	Probability 100((i-3/8)/(n+1/4))
T1BS1-BH001-002-SS	-3.039	1	3.846154
T1BS1-BH007-002-SS	-2.263	2	10
T1BS1-BH006-002-SS	-2.21	3	16.15385
T1BS1-BH013-002-SS	-2.129	4	22.30769
T1BS1-BH004-002-SS	-1.839	5	28.46154
T1BS1-BH011-002-SS	-1.693	6	34.61538
T1BS1-BH003-002-SS	-1.682	7	40.76923
T1BS1-BH014-002-SS	-1.655	8	46.92308
T1BS1-BH002-002-SS	-1.625	9	53.07692
T1BS1-BH009-002-SS	-1.528	10	59.23077
T1BS1-BH010-002-SS	-1.415	11	65.38462
T1BS1-BH015-002-SS	-1.284	12	71.53846
T1BS1-BH008-002-SS	-1.149	13	77.69231
T1BS1-BH012-002-SS	-1.121	14	83.84615
T1BS1-BH016-002-SS	-0.926	15	90
T1BS1-BH005-002-SS	-0.823	16	96.15385

n = 16

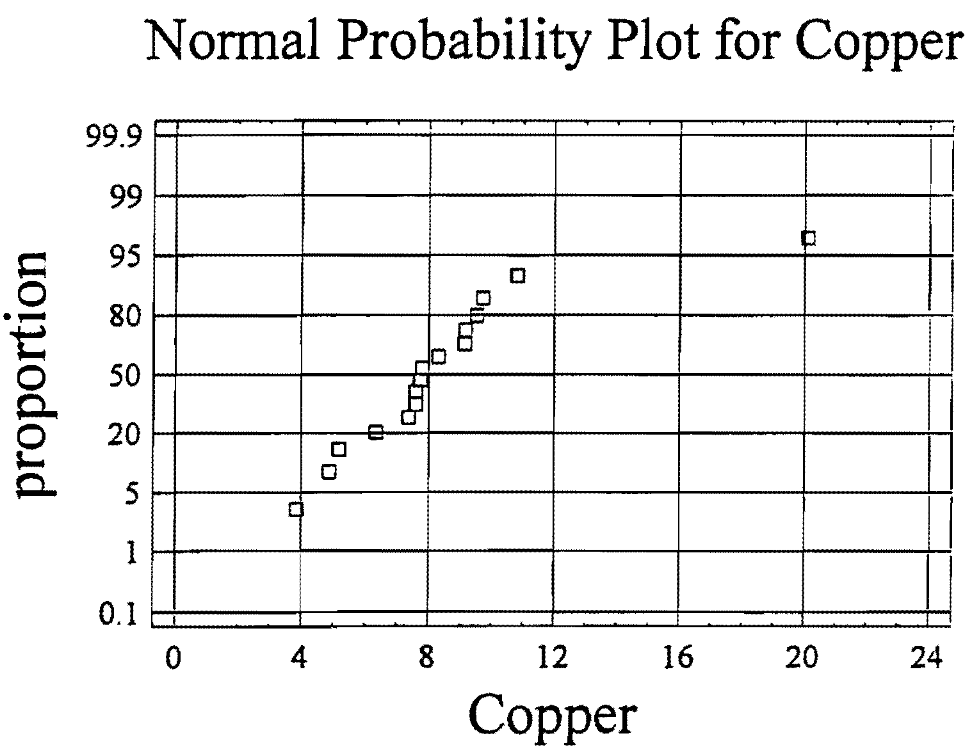


Interpretation: The data set more closely represents a normal distribution because a straight line is more easily fit on the normal distribution plot.

Probability Plot for Background Copper at SNL,NM:

Sample ID	Raw Data	Order (i)	Probability 100((i-3/8)/(n+1/4))
T1BS1-BH013-002-SS	3.85	1	3.846153846
T1BS1-BH015-002-SS	4.87	2	10
T1BS1-BH009-002-SS	5.17	3	16.15384615
T1BS1-BH014-002-SS	6.34	4	22.30769231
T1BS1-BH002-002-SS	7.35	5	28.46153846
T1BS1-BH007-002-SS	7.58	6	34.61538462
T1BS1-BH004-002-SS	7.58	7	40.76923077
T1BS1-BH001-002-SS	7.72	8	46.92307692
T1BS1-BH016-002-SS	7.78	9	53.07692308
T1BS1-BH010-002-SS	8.29	10	59.23076923
T1BS1-BH003-002-SS	9.13	11	65.38461538
T1BS1-BH011-002-SS	9.16	12	71.53846154
T1BS1-BH012-002-SS	9.52	13	77.69230769
T1BS1-BH008-002-SS	9.71	14	83.84615385
T1BS1-BH006-002-SS	10.8	15	90
T1BS1-BH005-002-SS	20.1	16	96.15384615

n = 16

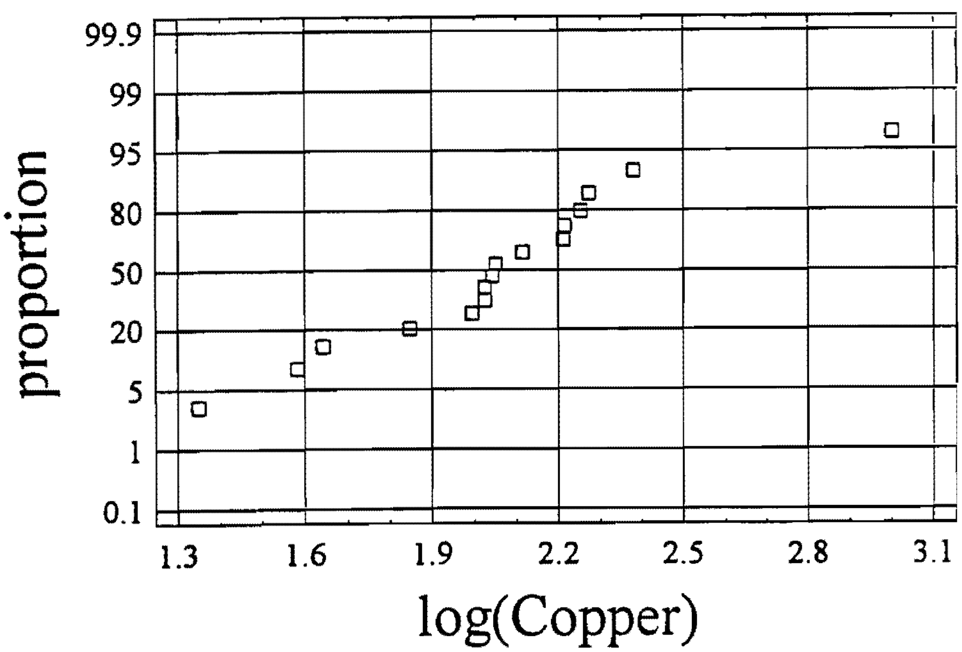


Normal Probability Plot for Background Lognormal Copper at SNL,NM:

Sample ID	Log (Raw Data)	Order (i)	Probability 100((i-3/8)/(n+1/4))
T1BS1-BH013-002-SS	1.348	1	3.846154
T1BS1-BH015-002-SS	1.583	2	10
T1BS1-BH009-002-SS	1.643	3	16.15385
T1BS1-BH014-002-SS	1.847	4	22.30769
T1BS1-BH002-002-SS	1.995	5	28.46154
T1BS1-BH007-002-SS	2.026	6	34.61538
T1BS1-BH004-002-SS	2.026	7	40.76923
T1BS1-BH001-002-SS	2.044	8	46.92308
T1BS1-BH016-002-SS	2.052	9	53.07692
T1BS1-BH010-002-SS	2.115	10	59.23077
T1BS1-BH003-002-SS	2.212	11	65.38462
T1BS1-BH011-002-SS	2.215	12	71.53846
T1BS1-BH012-002-SS	2.253	13	77.69231
T1BS1-BH008-002-SS	2.273	14	83.84615
T1BS1-BH006-002-SS	2.38	15	90
T1BS1-BH005-002-SS	3.001	16	96.15385

n = 16

Normal Probability Plot for log(Copper)



Interpretation: The data set more closely represents a lognormal distribution because a straight line is more easily fit on the lognormal distribution plot.

1.8 Determination of Distribution

Upon completion of the *a priori* screen, percent non-detect determination, and graphical and numerical distribution analysis, a determination of the distribution was made (EPA, 1992a).

Based on the distribution analysis results, antimony was determined to be normally distributed and copper was determined to be lognormally distributed for the SNL,NM background data set.

Determination of the distribution type is not always as simple as the examples presented above. The Shapiro-Wilk test of Normality is the most powerful of the distribution tests. If the data fail the Shapiro-Wilk test, they were considered to be non-parametric. If the data set passed the Shapiro-Wilk test, but failed other tests, the statistician must make a professional judgment concerning the distribution type.

1.9 The T_n Statistic Test

The T_n Statistic test was performed on SNL,NM background data after the *a priori* screen and initial distribution analysis had been completed. The test was run iteratively until the largest remaining value in the data set passed. If a particular data set had fewer than 15% non-detects but failed the parametric distribution tests, it was often carried over to the T_n Statistic and analyzed using the parametric distribution that it most closely resembled. In some instances, identification and removal of outliers during the T_n Statistic procedure allows for the previously failed data set to pass the parametric numerical and graphical tests. If failures were reported during the T_n statistical test, the values were removed and the mean and standard deviation were recalculated on the censored data set. Failures of the T_n Statistic are defined as T_n calculated values that exceed the critical value (EPA, 1989). The censored data set was then used for all additional statistical tests. (Removed data points are considered either potential sampling error, laboratory error, an anomalously high value, or some other factor contributing to an unexpectedly large concentration).

To calculate the T_n statistic, the following formula is used:

$$T_n = \frac{(x_n - \bar{x})}{\sigma}$$

where

T_n = T_n statistic,
χ_n = individual sample,
$\bar{x}$ = mean of sample set, and
σ = standard deviation.

T_n statistic for Antimony:

$$T_{16} = \frac{(0.439 - 0.22)}{0.11}$$

$$T_{16} = 1.99$$

According to Table 8 in Appendix B of EPA's guidance document (EPA, 1992a), when the T_n statistic is larger than the Critical Number (C_n), provided in the table for that sample size, then the number should be considered an outlier. In this case, $C_{16} = 2.443$,

$$T_{16}\ (1.99) < C_{16}(2.443),$$

and thus, no data points needed to be removed.

T_n statistic for Copper:

$$T_{16} = \frac{(3.00 - 2.06)}{0.37}$$

$$T_{16} = 2.54$$

$$T_{16}\ (2.54) > C_{16}(2.443)$$

So this data value (3.00) was removed from the data set and the mean and standard deviation were recalculated.

New mean = 2.00
New standard deviation = 0.29

$$T_{15} = \frac{(2.38 - 2.00)}{0.29}$$

$$T_{15} = 1.31$$

$$T_{15}\ (1.31) < C_{15}(2.41)$$

Therefore, no additional data points were removed.

1.10 Determination of Maximum Expected Background Concentration

This section describes two methods, one for parametric data and the other for non-parametric data, that establish the maximum expected background concentration using a 95 percent confidence limit. An upper tolerance limit (Section 1.10.1) is calculated for parametric data sets, while a 95th percentile (Section 1.10.2) is calculated for non-parametric data sets.

1.10.1 Upper Tolerance Limits (UTL)

A tolerance interval establishes a concentration range that is constructed to contain a specified proportion (P%) of the population with a specified confidence coefficient, Y. The proportion of the population included, P, is referred to as the coverage. The probability with which the tolerance interval includes the proportion P% of the population is referred to as the tolerance coefficient.

A coverage of 95% was used as recommended by EPA (1989). By using this coverage, random observations from the same distribution as the SNL,NM background soil data would exceed the upper tolerance limit less than 5% of the time. Similarly, a tolerance coefficient of 95% was used. This means that there is a confidence level of 95% that the upper 95% tolerance limit would contain at least 95% of the distribution of observations from background soil data. These values were chosen to be consistent with the performance standards described in Section 2 of EPA 1989.

Tolerance intervals were constructed assuming that the data or the transformed data were normally distributed.

The formula for the UTL is as follows:

$$UTL = \bar{x} + t_{.05(n-1)} \cdot \sigma$$

where

$\bar{x}$ = the mean of the population,

$t_{.05(n-1)}$ is one-sided tolerance factor for n (Table 5, Appendix B, EPA 1989), and

σ = the standard deviation

For Antimony,

$$UTL = 0.22 + t_{.05}(0.11)$$

$$= 0.22 + 2.523(0.11)$$

$$UTL = 0.50$$

For copper,

$$UTL = e(2.00 + t_{.05}(0.29))$$

$$= e(2.00 + 2.566(0.29))$$

$$UTL = 15.55$$

Note: Since the data values are log-transformed, they must be transformed back to complete the UTL calculation.

1.10.2 95th Percentile

For non-parametric data sets, the 95th percentile value was used for expressing the upper range of background. The 95th percentile indicated that 95 percent of the data would be expected to be below that value, while 5 percent would be above the value. The calculated background was therefore insensitive to the magnitude of the largest 5 percent of the data points.

The 95th percentile value was taken to be the observation point closest to p = 0.95 (n+1), where p = percentile of interest (95th) and n = number of samples. For data sets with n<20, the 95th percentile was taken to be the maximum data value.

2. Comparison Tests

2.1 Introduction

Comparison tests were performed between SNL,NM background and ER site-specific data to determine if the two data sets were statistically similar. If the data sets were similar, then contamination would assumed to be absent. If the ER site-specific data were not statistically similar to the background data, then contamination might exist.

Comparison tests are of two basic types: parametric and non-parametric. The parametric tests are only applied to data sets in which the background data set was shown to be parametric. Parametric tests include the F distribution and the Student's t-test for equal and non-equal variances. Non-parametric tests are applied to all data sets. Non-parametric tests include the Wilcoxon Rank Sum test, the Quantile test, and the Kolmogorov-Smirnov test.
The following sections provide example calculations for parametric and non-parametric comparison tests. The normally distributed antimony data presented in Section 1 serves as the background data set. Two imaginary data sets (ER Site A and ER Site B) were used to represent sites at which contamination may exist. The data set for ER Site A is designed to be statistically similar to background, while that for ER Site B is designed to be statistically dissimilar to background.

2.2 Parametric Comparison Tests

The following sections provide example calculations of the F distribution and the Student's t-test (with both equal and non-equal variances).

2.2.1 F distribution

The F distribution is a parametric statistical method for comparing population variances. The determination of like variances is important in terms of identifying which Student's t-test method is appropriate for evaluation. If the variances of two data sets were found to be statistically similar, the Student's t-test for equal variances was used. If the variances of the data set were not statistically similar, then the Student's t-test for unequal variances was used.

The F distribution is calculated as follows:

$$F = \frac{S_1^{\,2}}{S_2^{\,2}}$$

where

F = F distribution calculated value,
S_1^2 = sample variance of population 1, and
S_2^2 = sample variance of population 2.
Note: always place the larger sample variance in the numerator of the equation.

F distribution Comparing SNL,NM Background to ER Site A

Background variance = 0.011
ER Site A variance = 0.010

$$\text{So} \quad F = \frac{0.011}{0.010}$$

F = 1.10

The critical value was determined from Table 6 in Appendix 11 in Mendenhall (1975). Because it was a two-sided test, the confidence level was reduced from 95% to 90%. The critical value for 15 degrees of freedom for both background and ER Site B was 2.40.

<u>Interpretation</u>: Since F(1.09) < critical value (2.40), there was insufficient statistical evidence to indicate a difference in the population variances.

F distribution Comparing SNL,NM Background to ER Site B:

Background variance = 0.011
ER Site B variance = 0.014

$$\text{So} \quad F = \frac{0.014}{0.011}$$

F = 1.27

The critical value was determined from Table 6 in Appendix 11 in Mendenhall (1975). Because it was a two-sided test, the confidence level was reduced from 95% to 90%. The critical value for 15 degrees of freedom for both background and ER Site B was 2.40.

<u>Interpretation</u>: Since F(1.25) < critical value (2.40), there was insufficient statistical evidence to indicate a difference in the population variances.

2.2.2 Student's t-test

The t-test is a parametric test that compares the means of two samples. To use the t statistic, both sampled populations must be approximately the same normally or lognormally distributed, and the random samples must be selected independently of each other (Steel and Torrie, 1980). Methods are provided for calculating the t-test with both equal and non-equal variances.

Student's t-test with equal variances

SNL,NM Background versus ER Site A:

BK*	$(BK)^2$	ER-A**	$(ER\text{-}A)^2$
0.439	0.192721	0.426	0.181476
0.396	0.156816	0.401	0.160801
0.326	0.106276	0.318	0.101124
0.317	0.100489	0.302	0.091204
0.277	0.076729	0.284	0.080656
0.243	0.059049	0.279	0.077841
0.217	0.047089	0.216	0.046656
0.197	0.038809	0.182	0.033124
0.191	0.036481	0.181	0.032761
0.186	0.034596	0.176	0.030976
0.184	0.033856	0.174	0.030276
0.159	0.025281	0.160	0.025600
0.119	0.014161	0.130	0.016900
0.110	0.0121	0.118	0.013924
0.104	0.010816	0.100	0.010000
0.0479	0.00229441	0.090	0.008100

* BK = Background Concentration
** ER-A = ER Site A Concentration

Mean = 0.22		0.221	
Variance = 0.011		0.010	
Count (n) = 16		16	
Sum of BK = 3.513	Sum of $(BK)^2$ =0.948	3.537	Sum of $(ER\text{-}A)^2$ = 0.941

where

n_1=n_2=n (this equality is not a requirement of the test),
S^2 = sample variance, and
df = degrees of freedom.

$$\sum Y_1^2 - \frac{(\sum Y_1)^2}{n} = 0.948 - \frac{(3.513)^2}{16} = 0.177$$

$$\sum Y_2^2 - \frac{(\sum Y_2)^2}{n} = 0.941 - \frac{(3.537)^2}{16} = 0.159$$

$$S^2 = \frac{\sum Y_1^2 - \frac{(\sum Y_1)^2}{n} + \sum Y_2^2 - \frac{(\sum Y_2)^2}{n}}{2(n-1)}$$

$$S^2 = \frac{0.177 + 0.159}{2(16-1)} = \frac{0.336}{30} = 0.0112$$

which is an estimate of the common σ^2. The degrees of freedom, df, are calculated as

$$df = 2(n-1)$$

$$df = 2(16-1) = 30.$$

$$S_{(\overline{Y}_1-\overline{Y}_2)} = \sqrt{\frac{2S^2}{n}} = \sqrt{\frac{2(0.0112)}{16}} = \sqrt{0.0014} = 0.037,$$

which is the standard deviation appropriate to the difference between sample means.

$$t = \frac{\overline{Y}_1 - \overline{Y}_2}{S_{(\overline{Y}_1-\overline{Y}_2)}} = \frac{0.22 - 0.221}{0.037} = -0.027$$

tabulated t for df = 30 is 2.042 for 95 percent confidence (Table A.3, Steel & Torrie, 1980)

To determine if the observed difference between means was significant, the 95 percent confidence interval was calculated. The means were approximately equal if the 95 percent confidence interval spanned zero.

For the 95th percent confidence interval...

$$\overline{Y}_2 - \overline{Y}_1 \pm t_{0.025}(S_{(\overline{Y}_1-\overline{Y}_2)})$$

$$= +0.001 \pm 2.042(.037)$$

$$= +0.001 \pm 0.0756$$

$$= 0.0766 \text{ to } -0.0746$$

* for a two-tailed test

Interpretation: Since the 95 percent confidence interval spanned zero, the means were approximately equal. The calculated t was within the ± range of the tabulated t, also indicating that the means were approximately equal.

Note: if n was not equal between SNL,NM background and the ER Site, a variation of $S_{(\bar{Y}_1-\bar{Y}_2)}$ is

$$S_{(\bar{Y}_1-\bar{Y}_2)} = \sqrt{S^2\left(\frac{1}{n_1}+\frac{1}{n_2}\right)} = \sqrt{S^2\left(\frac{n_1+n_2}{n_1 n_2}\right)}$$

where S^2 is the weighted average of the sample variances, calculated as

$$S^2 = \frac{(n_1-1)S_1^{\,2} + (n_2-1)S_2^{\,2}}{(n_1-1)+(n_2-1)}$$

SNL,NM Background versus ER Site B ($n_1=n_2=n$):

BK*	$(BK)^2$	ER-B**	$(ER\text{-}B)^2$
0.439	0.192721	0.632	0.399424
0.396	0.156816	0.610	0.3721
0.326	0.106276	0.589	0.346921
0.317	0.100489	0.562	0.315844
0.277	0.076729	0.545	0.297025
0.243	0.059049	0.519	0.269361
0.217	0.047089	0.501	0.251001
0.197	0.038809	0.491	0.241081
0.191	0.036481	0.461	0.212521
0.186	0.034596	0.421	0.177241
0.184	0.033856	0.383	0.146689
0.159	0.025281	0.361	0.130321
0.119	0.014161	0.312	0.097344
0.110	0.0121	0.300	0.090000
0.104	0.010816	0.296	0.087616
0.0479	0.00229441	0.250	0.0625

* BK = Background Concentration
** ER-B = ER Site B Concentration

Mean = 0.22		0. 452	
Variance = 0.011		0. 014	
Count (n) = 16		16	
Sum of BK = 3.513	Sum of $(BK)^2$ = 0.948	7.233	Sum of $(ER\text{-}B)^2$ = 3.497

where

n_1=n_2=n (this equality is not a requirement of the test.),
S^2 = sample variance, and
df = degrees of freedom.

$$\sum Y_1^2 - \frac{(\sum Y_1)^2}{n} = 0.948 - \frac{(3.513)^2}{16} = 0.177$$

$$\sum Y_2^2 - \frac{(\sum Y_2)^2}{n} = 3.497 - \frac{(7.233)^2}{16} = 0.227$$

$$S^2 = \frac{\sum Y_1^2 - \frac{(\sum Y_1)^2}{n} + \sum Y_2^2 - \frac{(\sum Y_2)^2}{n}}{2(n-1)}$$

$$S^2 = \frac{0.177 + 0.227}{2(16-1)} = \frac{0.404}{30} = 0.0135$$

which is an estimate of the common σ^2

df = 2(16-1) = 30

$$S_{(\bar{Y}_1-\bar{Y}_2)} = \sqrt{\frac{2S^2}{n}} = \sqrt{\frac{2(0.0135)}{16}} = \sqrt{0.00169} = 0.0411$$

which is the standard deviation appropriate to the difference between sample means.

$$t = \frac{\bar{Y}_1 - \bar{Y}_2}{S_{(\bar{Y}_1-\bar{Y}_2)}} = \frac{0.22 - 0.452}{0.0411} = -5.64$$

tabulated t for df = 30 is 2.042 for 95 percent confidence

To determine if the observed difference between means was significant, the 95 percent confidence interval was calculated. The means were approximately equal if the 95 percent confidence interval contained zero.

For the 95th percent confidence interval

$$\overline{Y}_2 - \overline{Y}_1 \pm t_{.025}(S_{(\overline{Y}_1-\overline{Y}_2)})$$

$$= 0.232 \pm 2.042(0.0411)$$

$$= 0.232 \pm 0.0839$$

$$= 0.316 \text{ to } 0.148$$

* for a two-tailed test

Interpretation: Since the 95 percent confidence interval did not contain zero, the means were not approximately equal. The calculated t was outside the $\pm$ range of the calculated t, also suggesting that the means were not approximately equal.

Student's t-test with non-equal variances (t′)

Note: though the variances are shown to be similar in Section 2.2.1, calculation of the Student's t-test was performed assuming non-equal variances for example purposes.

SNL,NM Background versus ER Site A (n_1=n_2=n):

BK*	$(BK)^2$	ER-A**	$(ER\text{-}A)^2$
0.439	0.192721	0.426	0.181476
0.396	0.156816	0.401	0.160801
0.326	0.106276	0.318	0.101124
0.317	0.100489	0.302	0.091204
0.277	0.076729	0.284	0.080656
0.243	0.059049	0.279	0.077841
0.217	0.047089	0.216	0.046656
0.197	0.038809	0.182	0.033124
0.191	0.036481	0.181	0.032761
0.186	0.034596	0.176	0.030976
0.184	0.033856	0.174	0.030276
0.159	0.025281	0.160	0.025600
0.119	0.014161	0.130	0.016900
0.110	0.0121	0.118	0.013924
0.104	0.010816	0.100	0.010000
0.0479	0.00229441	0.090	0.008100

* BK = Background Concentration
** ER-A = ER Site A Concentration

Mean = 0.22		0. 221	
Variance = 0.011		0. 010	
Count (n) = 16		16	
Sum of BK = 3.513	Sum of $(BK)^2$ = 0.948	3.537	Sum of $(ER\text{-}A)^2$ = 0.941

where

n_1=n_2=n (this equality is not a requirement of the test.),
S^2 = sample variance, and
df = degrees of freedom.

$$\sum(Y_1-\bar{Y}_1)^2 = \sum Y_1^2 - \frac{(\sum Y_1)^2}{n} = 0.948 - \frac{(3.513)^2}{16} = 0.177$$

$$S_1^{\,2} = \frac{\sum(Y_1-\bar{Y}_1)^2}{n_1-1} = \frac{0.177}{16-1} = 0.0118$$

$$\sum(Y_2-\bar{Y}_2)^2 = \sum Y_2^2 - \frac{(\sum Y_2)^2}{n} = 0.941 - \frac{(3.557)^2}{16} = 0.159$$

$$S_2^{\,2} = \frac{\sum(Y_2-\bar{Y}_2)^2}{n_2-1} = \frac{0.159}{16-1} = 0.0106$$

$$S_{(\bar{Y}_1-\bar{Y}_2)} = \sqrt{\frac{S_1^{\,2}}{n_1}+\frac{S_2^{\,2}}{n_2}} = \sqrt{\frac{0.0118}{16}+\frac{0.0106}{16}} = \sqrt{0.0014} = 0.037$$

$$t' = \frac{\bar{Y}_1-\bar{Y}_2}{S_{(\bar{Y}_1-\bar{Y}_2)}} = \frac{0.22-0.221}{0.037} = -0.027$$

$$\text{effective df} = \frac{\left(\frac{S_1^{\,2}}{n_1}+\frac{S_2^{\,2}}{n_2}\right)^2}{\frac{\left(\frac{S_1^{\,2}}{n_1}\right)^2}{n_1-1}+\frac{\left(\frac{S_2^{\,2}}{n_2}\right)^2}{n_2-1}} = \frac{\left(\frac{0.0118}{16}+\frac{0.0106}{16}\right)^2}{\frac{\left(\frac{0.0118}{16}\right)^2}{15}+\frac{\left(\frac{0.0106}{16}\right)^2}{15}}$$

$$= \frac{(0.0014)^2}{0.000000036+0.000000029}$$

$$= \frac{0.00000196}{0.000000065}$$

$$= 30.15$$

$$\approx 30$$

Interpretation: Compare t' with tabulated t for df = 30 of 2.042 for 95 percent confidence. The calculated t' was within the $\pm$ range of the tabulated t indicating that the means were approximately equal.

SNL,NM Background versus ER Site B (n_1=n_2=n):

BK*	$(BK)^2$	ER-B**	$(ER\text{-}B)^2$
0.439	0.192721	0.632	0.399424
0.396	0.156816	0.610	0.3721
0.326	0.106276	0.589	0.346921
0.317	0.100489	0.562	0.315844
0.277	0.076729	0.545	0.297025
0.243	0.059049	0.519	0.269361
0.217	0.047089	0.501	0.251001
0.197	0.038809	0.491	0.241081
0.191	0.036481	0.461	0.212521
0.186	0.034596	0.421	0.177241
0.184	0.033856	0.383	0.146689
0.159	0.025281	0.361	0.130321
0.119	0.014161	0.312	0.097344
0.110	0.0121	0.300	0.090000
0.104	0.010816	0.296	0.087616
0.0479	0.00229441	0.250	0.0625

* BK = Background Concentration
** ER-B = ER Site B Concentration

Mean = 0.22		0. 452	
Variance = 0.011		0. 014	
Count (n) = 16		16	
Sum of BK = 3.513	Sum of $(BK)^2$ = 0.948	7.233	Sum of $(ER\text{-}B)^2$ = 3.497

where

n_1=n_2=n (this equality is not a requirement of the test.)
S^2 = sample variance
df = degrees of freedom

$$\sum(Y_1-\bar{Y}_1)^2 = \sum Y_1^2 - \frac{(\sum Y_1)^2}{n} = 0.948 - \frac{(3.513)^2}{16} = 0.177$$

$$S_1^2 = \frac{\sum(Y_1-\bar{Y}_1)^2}{n_1-1} = \frac{0.177}{16-1} = 0.0118$$

$$\sum(Y_2-\bar{Y}_2)^2 = \sum Y_2^2 - \frac{(\sum Y_2)^2}{n} = 3.497 - \frac{(7.233)^2}{16} = 0.227$$

$$S_2^2 = \frac{\sum(Y_2-\bar{Y}_2)^2}{n_2-1} = \frac{0.227}{16-1} = 0.0151$$

$$S_{(\bar{Y}_1-\bar{Y}_2)} = \sqrt{\frac{S_1^2}{n_1}+\frac{S_2^2}{n_2}} = \sqrt{\frac{0.0118}{16}+\frac{0.0151}{16}} = \sqrt{0.00168125} = 0.041$$

$$t' = \frac{\bar{Y}_1-\bar{Y}_2}{S_{(\bar{Y}_1-\bar{Y}_2)}} = \frac{0.22-0.452}{0.041} = -5.66$$

$$\text{effective df} = \frac{\left(\frac{S_1^2}{n_1}+\frac{S_2^2}{n_2}\right)^2}{\frac{\left(\frac{S_1^2}{n_1}\right)^2}{n_1-1}+\frac{\left(\frac{S_2^2}{n_2}\right)^2}{n_2-1}} = \frac{\left(\frac{0.0118}{16}+\frac{0.0151}{16}\right)^2}{\frac{\left(\frac{0.0118}{16}\right)^2}{15}+\frac{\left(\frac{0.0151}{16}\right)^2}{15}}$$

$$= \frac{(0.00168125)^2}{0.000000036+0.000000059}$$

$$= \frac{0.00000283}{0.000000095}$$

$$= 29.8$$

$$\approx 30$$

Interpretation: Compare t' with tabulated t for df = 30 of 2.042 for 95 percent confidence. The calculated t' was not within the ± range of the tabulated t indicating that the means were not approximately equal.

2.3 Non-parametric Comparison Tests

The following sections provide example calculations for the Wilcoxon Rank Sum test, the Quantile test, and the Kolmogorov-Smirnov test.

2.3.1 Wilcoxon Rank Sum Test

The Wilcoxon Rank Sum (WRS) test is a nonparametric test more powerful than the Quantile test to detect when the ER site-specific area has concentrations uniformly higher than background (EPA 1992b). However, the WRS test allows for fewer less-than measurements than the Quantile test. As a general rule, the WRS test should be avoided if more than about 40% of the measurements in either the potentially contaminated area or background are non-detects. All data were subjected to the WRS test in this analysis with the knowledge that the test power was greatly reduced when the non-detect percent was greater than 40.

The WRS test was performed by first ordering all observations from SNL,NM background and the ER site from lowest to highest according to their magnitude and rank. The ranks in the potentially contaminated area were summed and compared to a table of critical values to determine whether the site was potentially contaminated.

Wilcoxon Rank Sum Calculation for SNL,NM Background and ER Site A:

Background		ER Site A	
Value	Rank	Value	Rank
0.439	32		
		0.426	31
		0.401	30
0.396	29		
0.326	28		
		0.318	27
0.317	26		
		0.302	25
		0.284	24
		0.279	23
0.277	22		
0.243	21		
0.217	20		
		0.216	19
0.197	18		
0.191	17		
0.186	16		
0.184	15		
		0.182	14
		0.181	13
		0.176	12
		0.174	11
		0.16	10
0.159	9		
		0.13	8
0.119	7		
		0.118	6
0.11	5		
0.104	4		
		0.1	3
		0.09	2
0.0479	1		

Sum of Ranks for Site A = 258

$$Zrs = \frac{Wrs - \frac{n(N+1)}{2}}{\left[\frac{mn(N+1)}{12}\right]^{1/2}}$$

where

Wrs = sum of ranks,
m = number of background samples (16),
n = number of ER Site A samples (16), and
N = number of total samples (32).

$$Zrs = \frac{258 - \frac{16(32+1)}{2}}{\left[\frac{(16)(16)(32+1)}{12}\right]^{1/2}}$$

$$Zrs = \frac{258 - 264}{\left[\frac{(256)(33)}{12}\right]^{1/2}}$$

$$Zrs = \frac{-6}{[704]^{1/2}}$$

$$Zrs = \frac{-6}{26.5}$$

$$Zrs = -0.23$$

This formula is applicable only when there are no ties in data values between background and ER Site data. If value ties exist, use formula 6.13 on page 6.11 of EPA (1992b).

Critical value $Z_{0.95}$ = 1.645, so -0.23 <1.645

Interpretation: There was no statistical evidence that ER Site A is contaminated.

Wilcoxon Rank Sum Calculation for SNL,NM Background and ER Site B:

Background		ER Site B	
Value	Rank	Value	Rank
		0.632	32
		0.61	31
		0.589	30
		0.562	29
		0.545	28
		0.519	27
		0.501	26
		0.491	25
		0.461	24
0.439	23		
		0.421	22
0.396	21		
		0.383	20
		0.361	19
0.326	18		
0.317	17		
		0.312	16
		0.3	15
		0.296	14
0.277	13		
		0.25	12
0.243	11		
0.217	10		
0.197	9		
0.191	8		
0.186	7		
0.184	6		
0.159	5		
0.119	4		
0.11	3		
0.104	2		
0.0479	1		

Sum of Ranks for Site B= 370

$$Zrs = \frac{Wrs - \frac{n(N+1)}{2}}{\left[\frac{mn(N+1)}{12}\right]^{1/2}}$$

where...

Wrs = sum of ranks,
m = number of background samples (16),
n = number of ER Site A samples (16), and
N = number of total samples (32).

$$Zrs = \frac{370 - \frac{16(32+1)}{2}}{\left[\frac{(16)(16)(32+1)}{12}\right]^{1/2}}$$

$$Zrs = \frac{370 - 264}{\left[\frac{(256)(33)}{12}\right]^{1/2}}$$

$$Zrs = \frac{106}{[704]^{1/2}}$$

$$Zrs = \frac{106}{26.5}$$

$$Zrs = 4.0$$

This formula is applicable only when there are no ties in data values between background and ER Site data. If value ties exist, use formula 6.13 on page 6.11 of EPA (1992b).

Critical value = $Z_{0.95}$ = 1.645, so 4.0 > 1.645

Interpretation: There was statistical evidence that ER Site B is contaminated.

2.3.2 The Quantile Test

The Quantile test is statistically more powerful than the WRS test for determining whether a discrete portion of the site is contaminated. Initially, the data values from the background set and from the ER site-specific data set are ranked from highest to lowest. An evaluation was made of the number of measurements among the maximum concentrations within the combined data set that were from the ER site-specific data set. If the count was sufficiently large, then it was concluded that the ER site might actually be contaminated.

After the data values were ranked, Table A.8 (EPA, 1992b) was referenced to evaluate how many of the maximum values must come from the ER site to classify it as being contaminated. The table lists the number of samples from the ER site along the top, and the number of samples from SNL,NM background along the left side. The row and column was followed into the table, and where they met was where the determination was made. The table is segmented into increments of 5; the value was rounded up one level if the number did not fall on a multiple of 5. In our example, there were 16 samples from the ER site data set and 16 samples from the background data set. For the ER site, the number was read from Column 20, and the background reading was read from Row 20, producing the reading 4,4. This indicated that the first four numbers from the ER site must be higher than any numbers from the background data set for the site to be considered contaminated.

Quantile Test Comparison between SNL,NM Background and ER Site A Antimony Concentrations:

Background	ER Site A
0.439	0.426
0.396	0.401
0.326	0.318
0.317	0.302
0.277	0.284
0.243	0.279
0.217	0.216
0.197	0.182
0.191	0.181
0.186	0.176
0.184	0.174
0.159	0.16
0.119	0.13
0.11	0.118
0.104	0.1
0.0479	0.09

Interpretation: Only 2 of the 4 maximum values came from ER Site A. Therefore, contamination was not indicated.

Quantile Test Comparison between SNL,NM Background and ER Site B Antimony Concentrations

Background	ER Site B
0.439	0.632
0.396	0.61
0.326	0.589
0.317	0.562
0.277	0.545
0.243	0.519
0.217	0.501
0.197	0.491
0.191	0.461
0.186	0.421
0.184	0.383
0.159	0.361
0.119	0.312
0.11	0.3
0.104	0.296
0.0479	0.25

Interpretation: Since the 4 maximum values were all from ER Site B, contamination was indicated.

2.3.3 Kolmogorov-Smirnov Test

The Kolmogorov-Smirnov (KS) test is a non-parametric test that can be used to evaluate the fit of any distribution. In general, the KS test is considered more powerful than alternative goodness-of-fit chi-square tests. The three general limitations are (1) the method is computationally complex; (2) it requires large sample sizes for greatest power (i.e., 50 or more); and (3) the parameters of the hypothesized distribution (e.g., mean and variance of a normal distribution) are assumed to be known (Gibbons, 1994). Lilliefors (1967, 1969) generalized the test to the case of a normal or lognormal distribution with unknown mean and variance, although the method was still computationally complex and required large samples.

The Kolmogorov-Smirnov test called for two independent samples and tested the null hypothesis to show that the two samples came from identical distributions. This was achieved through the calculation and comparison of the true but unspecified cumulative distribution functions for each sample (Steel and Torrie, 1980). The maximum numerical difference between the two calculated values was compared to tables of critical values. If the data did not support the null hypothesis, it was concluded that the two samples were from different populations. The test was also sensitive to differences in variance, because it was a test of the equality of distributions rather than of specific parameters.

The Kolmogorov-Smirnov test was performed as follows:

1) All observations were ranked together
2) The sample cumulative distribution fractions, $F_n(Y_1)$ and $F_n(Y_2)$, were determined.
3) $|F_n(Y_1) - F_n(Y_2)|$ was computed at each of the $n_1 + n_2$ values of Y.
4) The test statistic against two-sided alternatives, D, was found and compared with the critical values in Tables A.23A and A.23B (Steel and Torrie, 1980) and a conclusion was drawn.

Computation for the Kolmogorov-Smirnov Two-Sample Test, SNL,NM Background Versus ER Site A:

Y_1	$F_n(Y_1)$	Y_2	$F_n(Y_2)$	$\lvert F_n(Y_1)-F_n(Y_2)\rvert$
0.439	1/16			|1/16-0| = 1/16
		0.426	1/16	|1/16-1/16| = 0
		0.401	2/16	|1/16-2/16| = 1/16
0.396	2/16			|2/16-2/16| = 0
0.326	3/16			|3/16-2/16| = 1/16
		0.318	3/16	|3/16-3/16| = 0
0.317	4/16			|4/16-3/16| = 1/16
		0.302	4/16	|4/16-4/16| = 0
		0.284	5/16	|4/16-5/16| = 1/16
		0.279	6/16	|4/16-6/16| = 2/16
0.277	5/16			|5/16-6/16| = 1/16
0.243	6/16			|6/16-6/16| = 0
0.217	7/16			|7/16-6/16| = 1/16
		0.216	7/16	|7/16-7/16| = 0
0.197	8/16			|8/16-7/16| = 1/16
0.191	9/16			|9/16-7/16| = 2/16
0.186	10/16			|10/16-7/16| = 3/16
0.184	11/16			|11/16-7/16| = 4/16 = D
		0.182	8/16	|11/16-8/16| = 3/16
		0.181	9/16	|11/16-9/16| = 2/16
		0.176	10/16	|11/16-10/16| = 1/16
		0.174	11/16	|11/16-11/16| = 0
		0.160	12/16	|11/16-12/16| = 1/16
0.159	12/16			|12/16-12/16| = 0
		0.130	13/16	|12/16-13/16| = 1/16
0.119	13/16			|13/16-13/16| = 0
		0.118	14/16	|13/16-14/16| = 1/16
0.110	14/16			|14/16-14/16| = 0
0.104	15/16			|15/16-14/16| = 1/16
		0.100	15/16	|15/16-15/16| = 0
		0.090	16/16	|15/16-16/16| = 1/16
0.0479	16/16			|16/16-16/16| = 0

D = Maximum difference between $F_n(Y_1)$ and $F_n(Y_2)$
For two-sided test, 95% confidence
n = 16
Critical Value = 7/16
D = 4/16

Interpretation: Since D < Critical Value, the samples were from the same population.

Computation for the Kolmogorov-Smirnov Two-Sample Test, SNL,NM Background Versus ER Site B:

Y1	Fn(Y_1)	Y_2	Fn(Y_2)	|Fn(Y_1)-Fn(Y_2)|
		0.632	1/16	|0-1/16| = 1/16
		0.61	2/16	|0-2/16| = 2/16
		0.59	3/16	|0-3/16| = 3/16
		0.56	4/16	|0-4/16| = 4/16
		0.55	5/16	|0-5/16| = 5/16
		0.52	6/16	|0-6/16| = 6/16
		0.5	7/16	|0-7/16| = 7/16
		0.49	8/16	|0-8/16| = 8/16
		0.46	9/16	|0-9/16| = 9/16
0.439	1/16			|1/16-9/16| = 8/16
		0.42	10/16	|1/16-10/16| = 9/16
0.396	2/16			|2/16-10/16| = 8/16
		0.38	11/16	|2/16-11/16| = 9/16
		0.36	12/16	|2/16-12/16| = 10/16
0.326	3/16			|3/16-12/16| = 9/16
0.317	4/16			|4/16-12/16| = 8/16
		0.31	13/16	|4/16-13/16| = 9/16
		0.3	14/16	|4/16-14/16| = 10/16
		0.3	15/16	|4/16-15/16| = 9/16
0.277	5/16			|5/16-15/16| = 10/16
		0.25	16/16	|5/16-16/16| = 11/16 = D
0.243	6/16			|6/16-16/16| = 10/16
0.217	7/16			|7/16-16/16| = 9/16
0.197	8/16			|8/16-16/16| = 8/16
0.191	9/16			|9/16-16/16| = 7/16
0.186	10/16			|10/16-16/16| = 6/16
0.184	11/16			|11/16-16/16| = 5/16
0.159	12/16			|12/16-16/16| = 4/16
0.119	13/16			|13/16-16/16| = 3/16
0.11	14/16			|14/16-16/16| = 2/16
0.104	15/16			|15/16-16/16| = 1/16
0.048	16/16			|16/16-16/16| = 0

D = Maximum difference between $F_n(Y_1)$ and $F_n(Y_2)$
For two-sided test, 95% confidence
n = 16
Critical Value = 7/16
D = 11/16

Interpretation: Since D > Critical Value, the samples were not from the same population.

2.4 Results of the Comparison Tests

ER Site A was statistically similar to SNL,NM background in all statistically performed calculations. Therefore, there is no statistical evidence to indicate that ER Site A is contaminated.

ER Site B was not statistically similar to SNL,NM background. Failures of the Student's t-test, the Wilcoxon Rank Sum test, the Quantile test, and the Kolmogorov-Smirnov test indicated that ER Site B is contaminated.

Commonly, the determination of contamination at ER sites is not as simple as the above examples. EPA (1992b) guidance suggests that all soil data be subjected to the Wilcoxon Rank Sum test and the Quantile test. Therefore, if either of these tests fail, the ER site is considered to be contaminated. If both of these tests pass, but other applicable tests fail, the statistician must make a professional judgment as to whether contamination exists at the ER site.

When background data sets were collected at different areas within a Technical Area or pertinent region, or when background samples were collected at varying depths, it was sometimes appropriate to determine if the background data sets were statistically similar.

The most powerful of the background statistical tests is the Wilcoxon Rank Sum test. If the background data sets passed the Wilcoxon Rank Sum test, the data sets were considered statistically similar. If normality could be assumed, probability plots were also constructed from the combined sets, which provided a second set of comparison tests.

3. References

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APPENDIX B

MWL Borehole Drilling VOC Analytical Results

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Appendix B MWL Borehole Drilling VOC Analytical Results

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Compound	Concentration (ug/kg)	Action Level (ug/kg)	Below Action Level	Eliminated Based on 10x Rule[e]	Comments
BH-1	022411-01	10	9	Acetone	14.3 J	[c]8 x 10^{6}	Y	Y	Acetone present in laboratory method blank at 2.79 ug/kg. Acetone present in equipment blanks at 3.01 ug/l (sample # 022419-01) and 8.26 ug/l (sample # 022420-01). Acetone present in trip blank at 6.97 ug/l (sample # 022805-01).
	022412-01	30	26	Acetone	14.4 J	[c]8 x 10^{6}	Y	Y	
	022413-01	30 dup	26 dup	Acetone	14.1 J	[c]8 x 10^{6}	Y	Y	
				2-Butanone	2.07 J	[d]5 x 10^{7}	Y	N	
	022414-01	50	43	Acetone	23.4 J	[c]8 x 10^{6}	Y	Y	
	022416-01	70	61	Acetone	37.3 J	[c]8 x 10^{6}	Y	Y	
	022415-01	90	78	Acetone	3.87 J	[c]8 x 10^{6}	Y	Y	
	022418-01	120	104	Acetone	4.27 J	[c]8 x 10^{6}	Y	Y	
BH-2	022421-01	10	9	Acetone	18.6 J	[c]8 x 10^{6}	Y	Y	Acetone present in laboratory method blanks at 2.79 ug/kg and 3.4 ug/kg. Acetone present in soil blank at 4.25 J ug/kg (sample # 023101-01). Acetone, 2-Butanone, and PCE present in equipment blank at 11.4 ug/l, 2.82 J ug/l, and 4.18 ug/l (sample # 022430-01).
	022422-01	30	26	Acetone	15.6 J	[c]8 x 10^{6}	Y	Y	
	022423-01	50	43	Acetone	9.49 J	[c]8 x 10^{6}	Y	Y	
	022424-01	70	61	Acetone	21.6 J	[c]8 x 10^{6}	Y	Y	
				2-Butanone	2.12 J	[d]5 x 10^{7}	Y	Y	
	022426-01	90	78	Acetone	9.73 J	[c]8 x 10^{6}	Y	Y	
	022427-01	90 dup	78 dup	Acetone	181	[c]8 x 10^{6}	Y	N	
				2-Butanone	17.4 J	[d]5 x 10^{7}	Y	Y	
				2-Hexanone	5.81 J	[d]3 x 10^{6}	Y	N	
				4-Methyl-2-pentanone	4.0 J	[c]4 x 10^{6}	Y	N	
	022429-01	120	104	Acetone	32.3 J	[c]8 x 10^{8}	Y	Y	
				2-Butanone	3.6 J	[d]5 x 10^{7}	Y	Y	
BH-3	022432-01	10	9	Acetone	12.4 J	[c]8 x 10^{6}	Y	Y	Acetone present in soil blank at 12.3 J ug/kg (sample # 023284-01). Acetone and 2-Butanone present in equipment blank at 13.9 ug/l and 2.32 J ug/l (sample # 022441-01).
				2-Butanone	2.21 J	[d]5 x 10^{7}	Y	Y	
	022433-01	30	26	Acetone	17.5 J	[c]8 x 10^{8}	Y	Y	
				2-Butanone	2.0 J	[d]5 x 10^{7}	Y	Y	
				PCE	2.45 J	[c]1 X 10^{4}	Y	N	
				Total Xylenes	3.97 J	[c]2 X 10^{8}	Y	N	
	022434-01	50	43	Acetone	32.9 J	[c]8 x 10^{6}	Y	Y	

Appendix B MWL Borehole Drilling VOC Analytical Results

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Compound	Concentration (ug/kg)	Action Level (ug/kg)	Below Action Level	Eliminated Based on 10x Rule[e]	Comments
BH-3, Continued				2-Butanone	3.6 J	[d]5 x 10^{7}	Y	Y	
	022435-01	70	61	Acetone	38.9 J	[c]8 x 10^{6}	Y	Y	
				2-Butanone	4.03 J	[d]5 x 10^{7}	Y	Y	
	022436-01	70 dup	61 dup	Acetone	37.1 J	[c]8 x 10^{6}	Y	Y	
				2-Butanone	3.89 J	[d]5 x 10^{7}	Y	Y	
	022437-01	90	78	Acetone	83.3	[c]8 x 10^{6}	Y	Y	
				2-Butanone	8.01 J	[d]5 x 10^{7}	Y	Y	
				2-Hexanone	4.88 J	[d]3 x 10^{6}	Y	N	
	022440-01	120	104	Acetone	22.2 J	[c]8 x 10^{6}	Y	Y	
				2-Butanone	2.28 J	[d]5 x 10^{7}	Y	Y	
BH-4	022443-01	10	9	Acetone	12.8 J	[c]8 x 10^{6}	Y	Y	Acetone present in laboratory
	022444-01	30	26	Acetone	4.1 J	[c]8 x 10^{6}	Y	Y	method blank at 2.75 J ug/kg.
	022445-01	30 dup	26 dup	Acetone	4.58 J	[c]8 x 10^{6}	Y	Y	Acetone present in equipment blank
	022446-01	50	43	Acetone	122	[c]8 x 10^{6}	Y	N	at 8.31 ug/l (sample # 022452-01).
				2-Butanone	15.0 J	[d]5 x 10^{7}	Y	N	Acetone present in trip blank at
				2-Hexanone	8.85 J	[d]3 x 10^{6}	Y	N	2.8 ug/l (sample # 022453-01).
				4-Methyl-2-pentanone	7.57 J	[c]4 x 10^{6}	Y	N	Acetone present in soil blank at
	022448-01	70	61	Acetone	7.81 J	[c]8 x 10^{6}	Y	Y	8.7 J ug/l (sample # 023285-01).
	022449-01	90	78	Acetone	17.0 J	[c]8 x 10^{6}	Y	Y	
	022451-01	120	104	Acetone	19.1 J	[c]8 x 10^{6}	Y	Y	
BH-5	022455-01	10	9	Acetone	13.2 J	[c]8 x 10^{6}	Y	Y	Acetone present in laboratory
				TCE	1.0 J	[c]6 x 10^{4}	Y	N	method blank at 2.75 J ug/kg.
	022456-01	30	26	Acetone	3.0 J	[c]8 x 10^{6}	Y	Y	Acetone present in equipment blank
	022457-01	50	43	Acetone	5.3 J	[c]8 x 10^{6}	Y	Y	at 3.37 J ug/l (sample # 023292-01).
	022458-01	50 dup	43 dup	Acetone	6.29 J	[c]8 x 10^{6}	Y	Y	Acetone and 2-Butanone present in
	023286-01	70	61	Acetone	13.3 J	[c]8 x 10^{6}	Y	Y	trip blank at 19.7 ug/l and 4.0 ug/l

Appendix B MWL Borehole Drilling VOC Analytical Results

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Compound	Concentration (ug/kg)	Action Level (ug/kg)	Below Action Level	Eliminated Based on 10x Rule[e]	Comments
BH-5, Continued				2-Butanone	2.44 J	[d]5 x 10^{7}	Y	Y	(sample # 023293-01).
	023287-01	90	78	Acetone	7.12 J	[c]8 x 10^{6}	Y	Y	Acetone present in soil blank at
	023290-01	120	104	Acetone	6.3 J	[c]8 x 10^{6}	Y	Y	8.7 J ug/kg (sample # 023285-01).
BH-6	023291-01	10	9	Acetone	12.3 J	[c]8 x 10^{6}	Y	Y	Acetone present in laboratory
				Methylene Chloride	1.48 J	[c]9 X 10^{4}	Y	N	method blank at 2.75 J ug/kg.
	023294-01	30	26	Acetone	30.8 J	[c]8 x 10^{6}	Y	Y	Acetone and 2-Butanone present in
	023295-01	30 dup	26 dup	Acetone	9.38 J	[c]8 x 10^{6}	Y	Y	equipment blank at 6.19 ug/l and
				Methylene Chloride	1.01 J	[c]9 X 10^{4}	Y	N	2.55 J ug/l (sample # 023302-01).
	023296-01	50	43	Acetone	12.4 J	[c]8 x 10^{6}	Y	Y	Acetone present in trip blank at
				Methylene Chloride	1.12 J	[c]9 X 10^{4}	Y	N	2.83 J ug/l (sample # 023303-01).
	023297-01	70	61	Acetone	14.1 J	[c]8 x 10^{6}	Y	Y	Acetone present in soil blank at
	023298-01	90	78	Acetone	17.4 J	[c]8 x 10^{6}	Y	Y	21.3 J ug/kg (sample # 023697-01).
	023301-01	120	104	Acetone	20.1 J	[c]8 x 10^{6}	Y	Y	
BH-7	023306-01	10	9	Acetone	22.3 J	[c]8 x 10^{6}	Y	Y	Acetone present in laboratory
				2-Butanone	3.49 J	[d]5 x 10^{7}	Y	N	method blank at 4.42 J ug/kg.
				Methylene Chloride	1.52 J	[c]9 X 10^{4}	Y	N	Acetone present in equipment blank
	023307-01	30	26	Acetone	10.7 J	[c]8 x 10^{6}	Y	Y	at 4.49 J ug/l (sample # 023315-01).
				Methylene Chloride	1.49 J	[c]9 X 10^{4}	Y	N	Acetone present in trip blank at
	023308-01	30 dup	26 dup	Acetone	9.45 J	[c]8 x 10^{6}	Y	Y	2.22 J ug/l (sample # 023316-01).
				Methylene Chloride	1.25 J	[c]9 X 10^{4}	Y	N	
	023309-01	50	43	Acetone	126	[c]8 x 10^{6}	Y	N	
				2-Butanone	19.1 J	[d]5 x 10^{7}	Y	N	
				2-Hexanone	4.11 J	[d]3 x 10^{6}	Y	N	
				4-Methyl-2-pentanone	4.03 J	[c]4 x 10^{6}	Y	N	
				Total Xylenes	4.4 J	[c]2 X 10^{8}	Y	N	
				Methylene Chloride	1.35 J	[c]9 X 10^{4}	Y	N	

Appendix B MWL Borehole Drilling VOC Analytical Results

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Compound	Concentration (ug/kg)	Action Level (ug/kg)	Below Action Level	Eliminated Based on 10x Rule[e]	Comments
BH-7, Continued	023310-01	70	61	Acetone	6.01 J	[c]8 x 10^{6}	Y	Y	
				Methylene Chloride	1.29 J	[c]9 X 10^{4}	Y	N	
	023312-01	90	78	Acetone	85.6	[c]8 x 10^{6}	Y	N	
				2-Butanone	14.5 J	[d]5 x 10^{7}	Y	N	
				2-Hexanone	5.91 J	[d]3 x 10^{6}	Y	N	
				4-Methyl-2-pentanone	5.1 J	[c]4 x 10^{6}	Y	N	
	023314-01	120	104	Acetone	12.3 J	[c]8 x 10^{6}	Y	Y	
				2-Butanone	6.22 J	[d]5 x 10^{7}	Y	N	
				Methylene Chloride	1.38 J	[c]9 X 10^{4}	Y	N	
BH-8	023318-01	10	9	Acetone	17.2 J	[c]8 x 10^{6}	Y	Y	Acetone and methylene chloride
				Methylene Chloride	1.6 J	[c]9 X 10^{4}	Y	Y	present in laboratory method blank
	023319-01	30	26	Acetone	6.89 J	[c]8 x 10^{6}	Y	Y	at 2.87 J ug/kg and 1.06 J ug/kg.
	023320-01	30 dup	26 dup	Acetone	6.95 J	[c]8 x 10^{6}	Y	Y	Acetone and methylene chloride
				Methylene Chloride	1.36 J	[c]9 X 10^{4}	Y	Y	present in equipment blank at
	023321-01	50	43	Acetone	5.48 J	[c]8 x 10^{6}	Y	Y	at 4.51 J ug/l and 13.9 ug/l
				Methylene Chloride	1.5 J	[c]9 X 10^{4}	Y	Y	(sample # 023327-01).
	023322-01	70	61	Acetone	5.51 J	[c]8 x 10^{6}	Y	Y	Acetone and methylene chloride
				Methylene Chloride	1.47 J	[c]9 X 10^{4}	Y	Y	present in trip blank at 2.45 J ug/l
	023324-01	90	78	Acetone	9.61 J	[c]8 x 10^{6}	Y	Y	and 17.2 ug/l (sample # 023328-01).
				Methylene Chloride	1.55 J	[c]9 X 10^{4}	Y	Y	
	023326-01	130	113	Acetone	61.8	[c]8 x 10^{6}	Y	N	
				2-Butanone	4.38 J	[d]5 x 10^{7}	Y	N	
				Methylene Chloride	1.98 J	[c]9 X 10^{4}	Y	Y	
BH-9	023329-01	10	9	Acetone	34.8 J	[c]8 x 10^{6}	Y	Y	Acetone present in laboratory
				Methylene Chloride	1.9 J	[c]9 X 10^{4}	Y	Y	method blank at 7.62 J ug/kg.
	023330-01	30	26	Acetone	19.8 J	[c]8 x 10^{6}	Y	Y	Acetone and methylene chloride

Appendix B MWL Borehole Drilling VOC Analytical Results

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Compound	Concentration (ug/kg)	Action Level (ug/kg)	Below Action Level	Eliminated Based on 10x Rule[e]	Comments
BH-9, Continued				Methylene Chloride	1.57 J	[c]9 X 10^{4}	Y	Y	present in equipment blank at
	023331-01	30 dup	26 dup	Acetone	19.8 J	[c]8 x 10^{6}	Y	Y	4.35 J ug/l and 12.4 ug/l
				Methylene Chloride	1.89 J	[c]9 X 10^{4}	Y	Y	(sample # 023338-01).
	023332-01	50	43	Acetone	26.2 J	[c]8 x 10^{6}	Y	Y	Acetone and methylene chloride
				Methylene Chloride	1.89 J	[c]9 X 10^{4}	Y	Y	present in trip blank at 3.45 J ug/l
	023333-01	70	61	Acetone	13.1 J	[c]8 x 10^{6}	Y	Y	and 12.3 ug/l (sample # 023339-01).
				Methylene Chloride	1.57 J	[c]9 X 10^{4}	Y	Y	
	023335-01	90	78	Acetone	18.1 J	[c]8 x 10^{6}	Y	Y	
				Methylene Chloride	1.25 J	[c]9 X 10^{4}	Y	Y	
BH-10	023340-01	10	9	Acetone	7.48 J	[c]8 x 10^{6}	Y	Y	Acetone, 2-Butanone and methylene
				Methylene Chloride	1.39 J	[c]9 X 10^{4}	Y	Y	chloride present in laboratory
	023341-01	30	26	Acetone	9.22 J	[c]8 x 10^{6}	Y	Y	method blank at 4.76 ug/kg, 2.29 J
				Methylene Chloride	1.22 J	[c]9 X 10^{4}	Y	Y	ug/kg, and 1.06 J ug/kg.
	023337-01	50	43	Acetone	60.9	[c]8 x 10^{6}	Y	Y	Acetone and methylene chloride
				2-Butanone	13.7 J	[d]5 x 10^{7}	Y	Y	present in trip blank at 27.1 J ug/l
				2-Hexanone	8.46 J	[d]3 x 10^{6}	Y	N	and 37.5 ug/l (sample # 024033-01).
				Methylene Chloride	2.6 J	[c]9 X 10^{4}	Y	Y	Acetone present in trip blank at
	023342-01	50 dup	43 dup	Acetone	25.7 J	[c]8 x 10^{6}	Y	Y	8.31 J ug/l (sample # 024100-05).
				2-Butanone	4.04 J	[d]5 x 10^{7}	Y	Y	Acetone and methylene chloride
				2-Hexanone	2.85 J	[d]3 x 10^{6}	Y	N	present in equipment blank at 4.41 J
				Methylene Chloride	1.02 J	[c]9 X 10^{4}	Y	Y	ug/l and 1.07 J ug/l (sample #
	023343-01	70	61	Acetone	6.2 J	[c]8 x 10^{6}	Y	Y	023248-01).
				Methylene Chloride	1.2 J	[c]9 X 10^{4}	Y	Y	
	023344-01	90	78	Acetone	19.0 J	[c]8 x 10^{6}	Y	Y	
				Methylene Chloride	1.97 J	[c]9 X 10^{4}	Y	Y	
	023346-01	130	113	Acetone	13.6 J	[c]8 x 10^{6}	Y	Y	

Appendix B MWL Borehole Drilling VOC Analytical Results

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Compound	Concentration (ug/kg)	Action Level (ug/kg)	Below Action Level	Eliminated Based on 10x Rule[e]	Comments
BH-10, Continued				2-Butanone	2.13 J	[d]5 x 10^{7}	Y	Y	
				Methylene Chloride	1.74 J	[c]9 X 10^{4}	Y	Y	
BH-11	023351-01	10	9	Acetone	21.8 J	[c]8 x 10^{6}	Y	Y	Acetone and 2-Butanone present in laboratory method blank at 4.76 ug/kg and 2.29 J ug/kg. Acetone and methylene chloride present in equipment blank at 6.06 ug/kg and 3.82 ug/kg (sample # 023885-01). Acetone and methylene chloride present in trip blank at 3.05 J ug/l and 14.0 ug/l (sample # 023886-01). Acetone, 2-Butanone, 2-Hexanone, 4-Methyl-2-pentanone, methylene chloride, and toluene present in soil blank at 159 ug/kg, 27.1 J ug/kg, 18.7 ug/kg, 9.68 J ug/kg, 16.9 J ug/kg, and 2.88 J ug/kg (sample # 024244-01).
	023352-01	30	26	Acetone	5.92 J	[c]8 x 10^{6}	Y	Y	
	023353-01	30 dup	26 dup	Acetone	3.91 J	[c]8 x 10^{6}	Y	Y	
				Methylene Chloride	1.13 J	[c]9 X 10^{4}	Y	Y	
	023354-01	50	43	Acetone	21.5 J	[c]8 x 10^{6}	Y	Y	
	023355-01	70	61	Acetone	15.4 J	[c]8 x 10^{6}	Y	Y	
	023356-01	90	78	Acetone	20.3 J	[c]8 x 10^{6}	Y	Y	
				2-Butanone	3.91 J	[d]5 x 10^{7}	Y	Y	
	023884-01	126	109	Acetone	15.1 J	[c]8 x 10^{6}	Y	Y	
				Methylene Chloride	1.07 J	[c]9 X 10^{4}	Y	Y	
BH-12	023888-01	10	9	Acetone	24.3 J	[c]8 x 10^{6}	Y	Y	Acetone, 2-Butanone, and methylene chloride present in laboratory method blank at 3.63 J ug/kg, 6.09 J ug/kg, and 1.11 J ug/kg. Acetone and methylene chloride present in soil blank at 44.0 J ug/kg and 1.96 J ug/kg (sample # 024248-01).
				Methylene Chloride	1.04 J	[c]9 X 10^{4}	Y	Y	
	023890-01	30	26	Acetone	12.5 J	[c]8 x 10^{6}	Y	Y	
				Methylene Chloride	1.42 J	[c]9 X 10^{4}	Y	Y	
	023889-01	50	43	Acetone	7.01 J	[c]8 x 10^{6}	Y	Y	
				Methylene Chloride	1.28 J	[c]9 X 10^{4}	Y	Y	
	023891-01	50 dup	43 dup	Acetone	8.93 J	[c]8 x 10^{6}	Y	Y	
				Methylene Chloride	1.1 J	[c]9 X 10^{4}	Y	Y	

Appendix B MWL Borehole Drilling VOC Analytical Results

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Compound	Concentration (ug/kg)	Action Level (ug/kg)	Below Action Level	Eliminated Based on 10x Rule[a]	Comments
BH-12, Continued	023892-01	70	61	Acetone	9.52 J	[c]8 x 10^6	Y	Y	Acetone and methylene chloride
				Methylene Chloride	1.5 J	[c]9 X 10^4	Y	Y	present in equipment blank at
	023893-01	90	78	Acetone	20.5 J	[c]8 x 10^6	Y	Y	11.0 ug/l and 1.31 J ug/l (sample #
				2-Butanone	3.08 J	[d]5 x 10^7	Y	Y	023897-01).
				Methylene Chloride	5.59 J	[c]9 X 10^4	Y	Y	Acetone and methylene chloride
	023896-01	122	106	Acetone	20.8 J	[c]8 x 10^6	Y	Y	present in trip blank at 5.23 ug/l and
				2-Butanone	3.19 J	[d]5 x 10^7	Y	Y	1.28 J ug/l (sample # 023898-01).
				Methylene Chloride	5.82 J	[c]9 X 10^4	Y	Y	Acetone and methylene chloride
									present in soil blank at 12.8 J ug/kg and 1.8 J ug/kg (sample # 024249-01).
BH-13	023899-01	10	9	Acetone	5.91 J	[c]8 x 10^6	Y	Y	Acetone, 2-Butanone, and methylene
				Methylene Chloride	8.2 J	[c]9 X 10^4	Y	Y	chloride present in laboratory
	023900-01	30	26	Acetone	21.9 J	[c]8 x 10^6	Y	Y	method blank at 4.77 J ug/kg, 6.09 J
				2-Butanone	2.13 J	[d]5 x 10^7	Y	Y	ug/kg, and 1.11 J ug/kg.
				Methylene Chloride	5.79 J	[c]9 X 10^4	Y	Y	Acetone, 2-Butanone, and methylene
	023901-01	30 dup	26 dup	Acetone	14.3 J	[c]8 x 10^6	Y	Y	chloride present in equipment blank
				Methylene Chloride	5.44 J	[c]9 X 10^4	Y	Y	at 2.73 J ug/l, 3.0 J ug/l, and 2.37
	023902-01	50	43	Acetone	11.9 J	[c]8 x 10^6	Y	Y	ug/l (sample # 023908-01).
				Methylene Chloride	5.68 J	[c]9 X 10^4	Y	Y	Acetone and methylene chloride
	023903-01	70	61	Acetone	20.9 J	[c]8 x 10^6	Y	Y	present in trip blank at 3.02 J ug/l
				2-Butanone	2.34 J	[d]5 x 10^7	Y	Y	and 1.53 J ug/l (sample #
				Methylene Chloride	6.16 J	[c]9 X 10^4	Y	Y	023909-01).
	023905-01	90	78	Acetone	21.6 J	[c]8 x 10^6	Y	Y	Acetone and methylene chloride
				Methylene Chloride	5.93 J	[c]9 X 10^4	Y	Y	present in soil blank at 30.6 J ug/kg
	023907-01	119	103	Acetone	129 J	[c]8 x 10^6	Y	Y	and 6.27 J ug/kg (sample #
				2-Butanone	18.8 J	[d]5 x 10^7	Y	Y	024280-01).

Appendix B MWL Borehole Drilling VOC Analytical Results

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Compound	Concentration (ug/kg)	Action Level (ug/kg)	Below Action Level	Eliminated Based on 10x Rule[e]	Comments
BH-13, Continued				Methylene Chloride	17.1 J	[c]9 X 10^4	Y	Y	
				Total Xylenes	17.8 J	[c]2 X 10^8	Y	N	
				Toluene	20.4 J	[c]2 X 10^7	Y	N	
BH-14	023910-01	NA	10	Acetone	7.26 J	[c]8 x 10^6	Y	Y	Acetone and methylene chloride
				Methylene Chloride	3.56 J	[c]9 X 10^4	Y	Y	present in laboratory method blank
	023911-01	NA	30	Acetone	3.05 J	[c]8 x 10^6	Y	Y	at 5.99 J ug/kg and 3.62 ug/kg.
	023912-01	NA	30 dup	Acetone	20.5J	[c]8 x 10^6	Y	Y	Acetone present in equipment blank
				Methylene Chloride	4.09 J	[c]9 X 10^4	Y	Y	at 8.9 ug/l (sample # 023919-01).
	023913-01	NA	50	Acetone	14.6J	[c]8 x 10^6	Y	Y	Acetone present in trip blank at
				Methylene Chloride	3.63 J	[c]9 X 10^4	Y	Y	2.74 ug/l (sample # 023920-01).
	023914-01	NA	70	Acetone	19.4J	[c]8 x 10^6	Y	Y	
				Methylene Chloride	3.51 J	[c]9 X 10^4	Y	Y	
	023916-01	NA	90	Acetone	29.1J	[c]8 x 10^6	Y	Y	
				Methylene Chloride	4.01 J	[c]9 X 10^4	Y	Y	
BH-15	023921-01	NA	10	Acetone	35.6J	[c]8 x 10^6	Y	Y	Acetone present equipment blank
				Methylene Chloride	3.52 J	[c]9 X 10^4	Y	N	at 11.5 ug/l (sample # 024281-01).
	023922-01	NA	30	Acetone	30.9J	[c]8 x 10^6	Y	Y	Acetone present in trip blank at
				Methylene Chloride	3.69 J	[c]9 X 10^4	Y	N	3.47 ug/l (sample # 024282-01).
	023923-01	NA	30 dup	Acetone	30.7J	[c]8 x 10^6	Y	Y	
				Methylene Chloride	3.63 J	[c]9 X 10^4	Y	N	
	023924-01	NA	50	Acetone	18.2J	[c]8 x 10^6	Y	Y	
				Methylene Chloride	3.74 J	[c]9 X 10^4	Y	N	
	023927-01	NA	70	Acetone	31.6J	[c]8 x 10^6	Y	Y	
				Methylene Chloride	3.66 J	[c]9 X 10^4	Y	N	
	023925-01	NA	90	Acetone	225 J	[c]8 x 10^6	Y	N	
				2-Butanone	22.3 J	[d]5 x 10^7	Y	N	

Appendix B MWL Borehole Drilling VOC Analytical Results

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Compound	Concentration (ug/kg)	Action Level (ug/kg)	Below Action Level	Eliminated Based on 10x Rule[e]	Comments
BH-15, Continued				Methylene Chloride	5.3 J	[c]9×10^4	Y	N	
	023929-01	NA	122	Acetone	17.3J	[c]8×10^6	Y	Y	
				Methylene Chloride	3.71 J	[c]9×10^4	Y	N	

[a] Depth reported is linear feet. Boreholes 1 through 13 were drilled at an angle of 30 degrees from vertical.

[b] Depth reported is actual feet bgs. Boreholes 14 and 15 were drilled vertically, therefore the depths reported are actual feet bgs.

[c] Proposed RCRA Subpart S action levels for soils (55 FR 30865).

[d] Action level based on toxicity information contained in the IRIS database or the HEAST and a HI of 1. The soil ingestion equations provided in Subpart S (55 FR 30870) were used to calculate the action levels.

[e] Guidance on Evaluation, Resolution, and Documentation of Analytical Problems Associated with Compliance Monitoring, EPA 821-B-93-001, February 1993.

ug/kg - micrograms per kilogram

NA - Not applicable. Borehole was drilled vertically.

J - Concentration of the compound in the sample was below the Reporting Limit but above the Detection Limit.

dup - Duplicate sample

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APPENDIX C

MWL Borehole Drilling SVOC Analytical Results

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Appendix C MWL Borehole Drilling SVOC Analytical Results

orehol Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Compound	Concentration (ug/kg)	Action Level (ug/kg)	Below Action Level	Eliminated Based on 10x Rule[e]	Comments
BH-1	022411-02	10	9	ND	-	-	-	-	
	022412-02	30	26	ND	-	-	-	-	
	022413-02	30 dup	26 dup	ND	-	-	-	-	
	022414-02	50	43	Bis(2-ethylhexyl)phthalate	219 J	[c]5 X 10^4	Y	N	
	022416-02	70	61	ND	-	-	-	-	
	022415-02	90	78	Bis(2-ethylhexyl)phthalate	203 J	[c]5 X 10^4	Y	N	
	022418-02	120	104	ND	-	-	-	-	
BH-2	022421-02	10	9	ND	-	-	-	-	
	022422-02	30	26	ND	-	-	-	-	
	022423-02	50	43	ND	-	-	-	-	
	022424-02	70	61	ND	-	-	-	-	
	022426-02	90	78	Bis(2-ethylhexyl)phthalate	614	[c]5 X 10^4	Y	N	
	022427-02	90 dup	78 dup	ND	-	-	-	-	
	022429-02	120	104	ND	-	-	-	-	
BH-3	022432-02	10	9	ND	-	-	-	-	
	022433-02	30	26	ND	-	-	-	-	
	022434-02	50	43	ND	-	-	-	-	
	022435-02	70	61	ND	-	-	-	-	
	022436-02	70 dup	61 dup	ND	-	-	-	-	
	022437-02	90	78	Bis(2-ethylhexyl)phthalate	1110	[c]5 X 10^4	Y	N	
	022440-02	120	104	ND	-	-	-	-	
BH-4	022443-02	10	9	ND	-	-	-	-	Bis(2-ethylhexyl)phthalate present in equipment blank at 28.2 ug/l (sample # 022452-02).
	022444-02	30	26	Pyrene	1060	[d]2 x 10^6	Y	N	
	022445-02	30 dup	26 dup	ND	-	-	-	-	
	022446-02	50	43	Bis(2-ethylhexyl)phthalate	194 J	[c]5 X 10^4	Y	Y	
	022448-02	70	61	ND	-	-	-	-	
	022449-02	90	78	ND	-	-	-	-	
	022451-02	120	104	ND	-	-	-	-	
BH-5	022455-02	10	9	ND	-	-	-	-	Bis(2-ethylhexyl)phthalate present in laboratory
	022456-02	30	26	Bis(2-ethylhexyl)phthalate	342	[c]5 X 10^4	Y	Y	

Appendix C MWL Borehole Drilling SVOC Analytical Results

orehol Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Compound	Concentration (ug/kg)	Action Level (ug/kg)	Below Action Level	Eliminated Based on 10x Rule[e]	Comments
BH-5, Continued	022457-02	50	43	ND	-	-	-	-	method blank at 283 J ug/kg.
	022458-02	50 dup	43 dup	Bis(2-ethylhexyl)phthalate	210 J	[c]5×10^4	Y	Y	
	023286-02	70	61	ND	-	-	-	-	
	023287-02	90	78	ND	-	-	-	-	
	023290-02	120	104	ND	-	-	-	-	
BH-6	023291-02	10	9	ND	-	-	-	-	
	023294-02	30	26	ND	-	-	-	-	
	023295-02	30 dup	26 dup	ND	-	-	-	-	
	023296-02	50	43	ND	-	-	-	-	
	023297-02	70	61	ND	-	-	-	-	
	023298-02	90	78	ND	-	-	-	-	
	023301-02	120	104	ND	-	-	-	-	
BH-7	023306-02	10	9	ND	-	-	-	-	
	023307-02	30	26	ND	-	-	-	-	
	023308-02	30 dup	26 dup	ND	-	-	-	-	
	023309-02	50	43	ND	-	-	-	-	
	023310-02	70	61	ND	-	-	-	-	
	023312-02	90	78	Bis(2-ethylhexyl)phthalate	795	[c]5×10^4	Y	N	
	023314-02	120	104	ND	-	-	-	-	
BH-8	023318-02	10	9	ND	-	-	-	-	
	023319-02	30	26	ND	-	-	-	-	
	023320-02	30 dup	26 dup	ND	-	-	-	-	
	023321-02	50	43	ND	-	-	-	-	
	023322-02	70	61	ND	-	-	-	-	
	023324-02	90	78	ND	-	-	-	-	
	023326-02	130	113	Bis(2-ethylhexyl)phthalate	199 J	[c]5×10^4	Y	N	
BH-9	023329-02	10	9	ND	-	-	-	-	
	023330-02	30	26	ND	-	-	-	-	
	023331-02	30 dup	26 dup	ND	-	-	-	-	
	023332-02	50	43	Bis(2-ethylhexyl)phthalate	504	[c]5×10^4	Y	N	

Appendix C MWL Borehole Drilling SVOC Analytical Results

orehol Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Compound	Concentration (ug/kg)	Action Level (ug/kg)	Below Action Level	Eliminated Based on 10x Rule[e]	Comments
BH-9, Continued	023333-02	70	61	Bis(2-ethylhexyl)phthalate	173 J	[c]5 X 10^4	Y	N	
	023335-02	90	78	Bis(2-ethylhexyl)phthalate	436	[c]5 X 10^4	Y	N	
BH-10	023340-02	10	9	ND	-	-	-	-	Bis(2-ethylhexyl) phthalate and Isophorone present in laboratory method blank at 96 ug/kg and 5.2 ug/kg.
	023341-02	30	26	ND	-	-	-	-	
	023337-02	50	43	Bis(2-ethylhexyl)phthalate	652	[c]5 X 10^4	Y	Y	
	023342-02	50 dup	43 dup	ND	-	-	-	-	
	023343-02	70	61	ND	-	-	-	-	
	023344-02	90	78	Bis(2-ethylhexyl)phthalate	1780	[c]5 X 10^4	Y	N	
	023346-02	130	113	ND	-	-	-	-	
BH-11	023351-02	10	9	ND	-	-	-	-	
	023352-02	30	26	ND	-	-	-	-	
	023353-02	30 dup	26 dup	ND	-	-	-	-	
	023354-02	50	43	ND	-	-	-	-	
	023355-02	70	61	ND	-	-	-	-	
	023356-02	90	78	Bis(2-ethylhexyl)phthalate	325 J	[c]5 X 10^4	Y	N	
	023884-02	126	109	ND	-	-	-	-	
BH-12	023888-02	10	9	ND	-	-	-	-	
	023890-02	30	26	ND	-	-	-	-	
	023889-02	50	43	ND	-	-	-	-	
	023891-02	50 dup	43 dup	ND	-	-	-	-	
	023892-02	70	61	ND	-	-	-	-	
	023893-02	90	78	ND	-	-	-	-	
	023896-02	122	106	ND	-	-	-	-	
BH-13	023899-02	10	9	ND	-	-	-	-	
	023900-02	30	26	ND	-	-	-	-	
	023901-02	30 dup	26 dup	ND	-	-	-	-	
	023902-02	50	43	ND	-	-	-	-	
	023903-02	70	61	ND	-	-	-	-	
	023905-02	90	78	ND	-	-	-	-	
	023907-02	119	103	ND	-	-	-	-	

Appendix C MWL Borehole Drilling SVOC Analytical Results

orehol Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Compound	Concentration (ug/kg)	Action Level (ug/kg)	Below Action Level	Eliminated Based on 10x Rule[e]	Comments
BH-14	023910-02	10	9	ND	-	-	-	-	
	023911-02	30	26	ND	-	-	-	-	
	023912-02	30 dup	26 dup	ND	-	-	-	-	
	023913-02	50	43	ND	-	-	-	-	
	023914-02	70	61	ND	-	-	-	-	
	023916-02	90	78	ND	-	-	-	-	
BH-15	023921-02	10	9	ND	-	-	-	-	
	023922-02	30	26	ND	-	-	-	-	
	023923-02	30 dup	26 dup	ND	-	-	-	-	
	023924-02	50	43	ND	-	-	-	-	
	023927-02	70	61	ND	-	-	-	-	
	023925-02	90	78	ND	-	-	-	-	
	023929-02	122	106	ND	-	-	-	-	

[a] Depth reported is linear feet. Boreholes 1 through 13 were drilled at an angle of 30 degrees from vertical.

[b] Depth reported is actual feet bgs. Boreholes 14 and 15 were drilled vertically, therefore the depths reported are actual feet bgs.

[c] Proposed RCRA Subpart S action levels for soils (55 FR 30865).

[d] Action level based on toxicity information contained in the IRIS database or the HEAST and a HI of 1. The soil ingestion equations provided in Subpart S (55 FR 30870) were used to calculate the action levels.

[e] Guidance on Evaluation, Resolution, and Documentation of Analytical Problems Associated with Compliance Monitoring, EPA 821-B-93-001, February 1993.

ug/kg - micrograms per kilogram

ND - No semivolatile organic compound was detected above instrument method detection limits.

J - Concentration of the compound in the sample was below the Reporting Limit but above the Detection Limit.

dup - Duplicate sample

APPENDIX D

MWL Borehole Drilling TAL Metals Analytical Results

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Appendix D MWL Borehole Drilling TAL Metals Analytical Results

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Hg (mg/kg)	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Ca (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
BH-1	022411-02	10	9	0.0111	ND	4010	2.56	117	0.225	34300	0.381	0.233	4.64
	022412-02	30	26	0.0347	ND	4570	2.39	95.4	0.275	39700	0.537	3.54	7.78
	022413-02	30 dup	26 dup	0.0115	ND	3990	2.12	55.3	0.275	40100	0.506	3.55	7.02
	022414-02	50	43	0.0189	ND	4740	2.48	64.4	0.264	25900	0.399	2.63	6.84
	022416-02	70	61	0.0207	ND	6950	3.6	189	0.486	41100	0.58	4.9	8.02
	022415-02	90	78	0.0243	ND	4900	2.46	52.4	0.394	16500	0.445	2.73	7.32
	022418-02	120	104	0.014	ND	3980	2.19	33.4	0.254	64500	0.651	2.85	9.11

Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Cu (mg/kg)	Fe (mg/kg)	K (mg/kg)	Mg (mg/kg)	Mn (mg/kg)	Na (mg/kg)	Ni (mg/kg)	Pb (mg/kg)	Sb (mg/kg)	Se (mg/kg)
022411-02	10	9	18.9	6440	669	2820	105	358	5.4	3.47	ND	ND
022412-02	30	26	26.9	9100	659	2910	167	181	7.37	4.56	ND	ND
022413-02	30 dup	26 dup	6.65	7860	536	2340	131	132	6.32	3.33	ND	ND
022414-02	50	43	4.98	7060	670	2260	114	184	5.16	4.43	ND	ND
022416-02	70	61	9.37	9500	719	3630	204	313	9.09	7.15	ND	ND
022415-02	90	78	4.85	7770	776	2050	100	180	5.59	5	0.147	ND
022418-02	120	104	8.83	8020	656	2700	183	158	6.51	3.51	0.0914	ND

Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Tl (mg/kg)	V (mg/kg)	Zn (mg/kg)
022411-02	10	9	ND	12.2	30.1
022412-02	30	26	ND	13.6	40.2
022413-02	30 dup	26 dup	ND	10.9	36
022414-02	50	43	ND	13.5	18.6
022416-02	70	61	ND	18.4	27
022415-02	90	78	ND	13.5	18.6
022418-02	120	104	ND	13.3	24

Appendix D MWL Borehole Drilling TAL Metals Analytical Results (continued)

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Hg (mg/kg)	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Ca (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
BH-2	022421-02	10	9	0.0449	ND	6010	3.15	220	0.324	50700	0.47	3.15	6.38
	022422-02	30	26	0.0304	ND	3030	2.8	62.6	0.229	21700	0.36	1.98	5.21
	022423-02	50	43	0.0127	ND	2150	1.23	37.3	0.136	23200	0.34	1.75	4.49
	022424-02	70	61	0.0755	ND	8670	2.89	63.1	0.451	24100	1.51	4.3	10
	022426-02	90	78	0.0568	ND	8410	2.63	82.4	0.41	42300	1.69	3.68	15.4
	022427-02	90 dup	78 dup	0.0599	ND	7520	2.42	91.2	0.382	43700	1.81	3.64	15.3
	022429-02	120	104	0.0576	ND	4740	1.77	73.8	0.264	44900	1.97	4.93	17.8

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Cu (mg/kg)	Fe (mg/kg)	K (mg/kg)	Mg (mg/kg)	Mn (mg/kg)	Na (mg/kg)	Ni (mg/kg)	Pb (mg/kg)	Sb (mg/kg)	Se (mg/kg)
BH-2	022421-02	10	9	5.56	7560	949	3410	111	45.5	5.88	4.79	0.107	ND
	022422-02	30	26	3.39	5730	414	1590	92.9	164	3.92	3.29	0.193	ND
	022423-02	50	43	7.59	4760	325	1320	85.3	100	3.72	2.55	0.0559	ND
	022424-02	70	61	8.08	10900	1060	3450	195	281	8.49	6.96	0.128	ND
	022426-02	90	78	8.86	11900	1240	3090	169	291	9.39	6.07	ND	ND
	022427-02	90 dup	78 dup	9.08	12200	1100	3040	177	287	9.79	5.96	ND	ND
	022429-02	120	104	25.7	13500	801	2740	200	209	15.6	5.11	ND	ND

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Tl (mg/kg)	V (mg/kg)	Zn (mg/kg)
BH-2	022421-02	10	9	ND	16.5	18.1
	022422-02	30	26	ND	12.3	12.9
	022423-02	50	43	ND	8.17	10.1
	022424-02	70	61	ND	20.4	27.1
	022426-02	90	78	ND	18.8	38.1
	022427-02	90 dup	78 dup	ND	17.6	38.4
	022429-02	120	104	ND	16.1	34.9

Appendix D MWL Borehole Drilling TAL Metals Analytical Results (continued)

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Hg (mg/kg)	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Ca (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
BH-3	022432-02	10	9	0.0189	ND	4730	3.05	70.5	0.338	49700	1.58	4.61	13.6
	022433-02	30	26	ND	ND	5540	2.79	110	0.258	43400	1.13	2.71	6.27
	022434-02	50	43	ND	1.46	5520	2.13	98.6	0.28	38400	1.44	105	8.35
	022435-02	70	61	0.0197	ND	6940	2.17	87.4	0.314	24300	1.18	2.82	9.69
	022436-02	70 dup	61 dup	0.041	ND	5310	2.67	80.5	0.305	32100	1.39	3.25	10.5
	022437-02	90	78	0.0377	ND	5170	2.64	86.4	0.269	56700	1.58	15.1	14.2
	022440-02	120	104	ND	ND	7990	2.6	182	0.531	18900	1.31	3.59	9.63

Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Cu (mg/kg)	Fe (mg/kg)	K (mg/kg)	Mg (mg/kg)	Mn (mg/kg)	Na (mg/kg)	Ni (mg/kg)	Pb (mg/kg)	Sb (mg/kg)	Se (mg/kg)
022432-02	10	9	11.3	10600	746	3160	241	150	9.43	3.99	ND	ND
022433-02	30	26	4.34	7700	730	2250	95.5	98.2	5.95	4.54	ND	ND
022434-02	50	43	645	9970	789	2650	152	148	97.5	10.7	ND	0.374
022435-02	70	61	6.36	8080	1010	2060	103	146	5.28	5.11	0.118	ND
022436-02	70 dup	61 dup	9.43	9810	776	2580	153	113	6.84	6.08	ND	ND
022437-02	90	78	37.3	10400	810	2770	175	186	11.8	5.31	ND	ND
022440-02	120	104	18.7	9310	1270	2940	173	206	7.62	6.83	ND	ND

Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Tl (mg/kg)	V (mg/kg)	Zn (mg/kg)
022432-02	10	9	ND	17	23.5
022433-02	30	26	ND	14.2	16.1
022434-02	50	43	ND	16.7	413
022435-02	70	61	ND	15.1	17.3
022436-02	70 dup	61 dup	ND	15	28
022437-02	90	78	ND	16.4	117
022440-02	120	104	ND	16.4	31.5

Appendix D MWL Borehole Drilling TAL Metals Analytical Results (continued)

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Hg (mg/kg)	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Ca (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
BH-4	022443-02	10	9	0.675	ND	8250	4.01	204	0.486	38400	1.62	5.08	9.18
	022444-02	30	26	ND	ND	3520	1.97	49.7	0.257	35600	1.03	2.32	7.85
	022445-02	30 dup	26 dup	ND	ND	2440	1.58	40.2	0.193	39600	0.775	2.13	5.33
	022446-02	50	43	ND	ND	4000	1.95	141	0.243	57700	1.18	2.79	12.8
	022448-02	70	61	ND	ND	3960	2.13	59.3	0.252	66500	1.08	2.84	9.08
	022449-02	90	78	ND	ND	5140	1.93	85.4	0.293	43000	1.46	3.34	13.4
	022451-02	120	104	ND	ND	4540	1.78	43.6	0.28	40500	1.53	3.25	8.61

Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Cu (mg/kg)	Fe (mg/kg)	K (mg/kg)	Mg (mg/kg)	Mn (mg/kg)	Na (mg/kg)	Ni (mg/kg)	Pb (mg/kg)	Sb (mg/kg)	Se (mg/kg)
022443-02	10	9	8.81	11100	1220	4820	207	437	9.18	7.98	0.108	ND
022444-02	30	26	5.41	7020	504	1960	124	114	6.3	3.93	ND	ND
022445-02	30 dup	26 dup	4.94	4980	349	1780	136	99	4.83	3.35	0.0964	ND
022446-02	50	43	21.5	7940	612	2430	155	143	6.71	4.77	ND	ND
022448-02	70	61	12.6	6930	654	2550	163	148	6.46	5.34	0.119	ND
022449-02	90	78	11.5	9860	791	2830	168	177	7.58	5.2	ND	ND
022451-02	120	104	14.4	9770	781	2500	173	180	5.8	10.9	0.0952	ND

Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Tl (mg/kg)	V (mg/kg)	Zn (mg/kg)
022443-02	10	9	ND	21.4	29.1
022444-02	30	26	ND	14	17.2
022445-02	30 dup	26 dup	ND	9.89	14
022446-02	50	43	ND	11.4	28.5
022448-02	70	61	ND	11.6	22.6
022449-02	90	78	ND	14.8	26.3
022451-02	120	104	ND	17.6	24.9

Appendix D MWL Borehole Drilling TAL Metals Analytical Results (continued)

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Hg (mg/kg)	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Ca (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
BH-5	022455-02	10	9	0.0159	ND	8500	4.17	808	0.46	49200	1.6	4.55	9.6
	022456-02	30	26	0.0272	ND	4990	2.01	69.2	0.315	34200	1.17	3.05	8.5
	022457-02	50	43	0.035	ND	5180	2.31	63.6	0.293	29100	1.17	3.14	6.64
	022458-02	50 dup	43 dup	0.0123	ND	5530	2.59	71.4	0.294	26400	1.3	3.23	11.2
	023286-02	70	61	0.0204	ND	4590	2.62	52.9	0.294	48600	1.39	3.29	10.5
	023287-02	90	78	0.0164	ND	4890	2.33	75.7	0.367	15100	1.02	2.82	5.59
	023290-02	120	104	0.0153	ND	6950	2.68	66.9	0.354	37700	1.16	2.97	8.29

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Cu (mg/kg)	Fe (mg/kg)	K (mg/kg)	Mg (mg/kg)	Mn (mg/kg)	Na (mg/kg)	Ni (mg/kg)	Pb (mg/kg)	Sb (mg/kg)	Se (mg/kg)
BH-5	022455-02	10	9	8.69	10600	1270	4770	189	618	8.67	7.14	0.213	ND
	022456-02	30	26	6.06	7970	578	2430	136	195	5.46	4.13	0.126	ND
	022457-02	50	43	7.87	8200	749	2690	144	273	6.29	5.47	0.162	ND
	022458-02	50 dup	43 dup	6.83	9050	805	2480	127	267	6.29	4.87	ND	ND
	023286-02	70	61	8.43	8990	704	2700	174	175	7.09	5.11	ND	ND
	023287-02	90	78	4.5	7270	799	2640	130	172	5.38	5.28	0.148	ND
	023290-02	120	104	5	7970	1170	2940	136	154	6.46	4.98	0.169	ND

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Tl (mg/kg)	V (mg/kg)	Zn (mg/kg)
BH-5	022455-02	10	9	ND	22.5	28.2
	022456-02	30	26	ND	16	18.8
	022457-02	50	43	ND	15	23.6
	022458-02	50 dup	43 dup	ND	16.4	23.4
	023286-02	70	61	ND	15.9	25
	023287-02	90	78	ND	11.8	20.8
	023290-02	120	104	ND	15	19.3

Appendix D MWL Borehole Drilling TAL Metals Analytical Results (continued)

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Hg (mg/kg)	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Ca (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
BH-6	023291-02	10	9	0.0206	ND	7840	3.72	185	0.41	39900	1.15	4.54	11.9
	023294-02	30	26	0.018	ND	4900	2.19	153	0.324	17600	0.82	2.86	6.43
	023295-02	30 dup	26 dup	0.0307	ND	6180	2.61	80.2	0.425	18000	1	3.6	8.43
	023296-02	50	43	0.0142	ND	5030	2.15	50.6	0.29	40400	1.16	4.41	10.8
	023297-02	70	61	0.0214	ND	4170	2.81	48.6	0.32	47800	1.02	3.44	8.01
	023298-02	90	78	0.023	ND	6530	2.12	67.9	0.373	43700	0.876	3.13	9.71
	023301-02	120	104	0.0153	ND	10700	2.29	177	0.605	11000	1.19	3.89	27.5

Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Cu (mg/kg)	Fe (mg/kg)	K (mg/kg)	Mg (mg/kg)	Mn (mg/kg)	Na (mg/kg)	Ni (mg/kg)	Pb (mg/kg)	Sb (mg/kg)	Se (mg/kg)
023291-02	10	9	9.56	11300	1090	4410	194	271	9.02	7.03	0.237	ND
023294-02	30	26	4.83	7620	597	2300	128	279	5.77	4.57	0.124	ND
023295-02	30 dup	26 dup	6.52	9580	783	2650	147	327	7.47	5.52	0.202	ND
023296-02	50	43	9.18	10500	723	2890	189	219	9.02	5.47	0.138	ND
023297-02	70	61	9.27	9470	675	2730	177	173	7.09	13.9	0.185	ND
023298-02	90	78	5.5	8680	1070	2830	116	190	6.51	5.03	0.177	ND
023301-02	120	104	7.4	11300	1680	3220	173	288	11.6	6.84	0.135	ND

Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Tl (mg/kg)	V (mg/kg)	Zn (mg/kg)
023291-02	10	9	ND	23.2	31.6
023294-02	30	26	ND	14.8	19.5
023295-02	30 dup	26 dup	ND	19.2	23.6
023296-02	50	43	ND	17.7	23.4
023297-02	70	61	ND	17.1	21.4
023298-02	90	78	ND	16	21.4
023301-02	120	104	ND	19.6	28.4

Appendix D MWL Borehole Drilling TAL Metals Analytical Results (continued)

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Hg (mg/kg)	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Ca (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
BH-7	023306-02	10	9	0.0238	ND	6740	2.98	336	0.362	49600	0.47	3.43	9.18
	023307-02	30	26	0.0171	ND	4340	1.91	120	0.265	37100	0.409	2.33	7.37
	023308-02	30 dup	26 dup	0.0276	ND	2300	1.36	104	0.182	36400	0.274	1.76	4.65
	023309-02	50	43	0.0134	ND	4110	2.13	71.4	0.238	42000	0.406	2.52	7.6
	023310-02	70	61	0.0254	ND	4880	2.59	72.7	0.349	37300	0.494	3.7	9.83
	023312-02	90	78	0.0298	ND	8060	2.98	123	0.419	30800	0.594	3.73	19.3
	023314-02	120	104	0.0327	ND	5290	2.15	58.4	0.338	34200	0.549	3.66	12.3

Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Cu (mg/kg)	Fe (mg/kg)	K (mg/kg)	Mg (mg/kg)	Mn (mg/kg)	Na (mg/kg)	Ni (mg/kg)	Pb (mg/kg)	Sb (mg/kg)	Se (mg/kg)
023306-02	10	9	7.33	8500	1020	4360	146	563	7.38	5.88	0.174	ND
023307-02	30	26	4.97	6820	532	2150	120	209	5.77	4.39	0.201	ND
023308-02	30 dup	26 dup	4.35	3740	307	1640	90.5	187	4.48	2.87	0.141	ND
023309-02	50	43	5.25	6770	614	2150	117	261	5.6	4.68	0.183	ND
023310-02	70	61	8.65	9210	668	2770	159	161	7.57	4.59	ND	ND
023312-02	90	78	8.65	11200	1340	3280	173	284	8.98	6.33	ND	ND
023314-02	120	104	9.18	10100	886	2780	189	236	6.9	4.84	ND	ND

Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Tl (mg/kg)	V (mg/kg)	Zn (mg/kg)
023306-02	10	9	ND	17.1	23.2
023307-02	30	26	ND	15.6	16.4
023308-02	30 dup	26 dup	ND	8.37	11.4
023309-02	50	43	ND	12.2	16.3
023310-02	70	61	ND	15.7	19.5
023312-02	90	78	ND	18.9	34.8
023314-02	120	104	ND	18.4	21.7

Appendix D MWL Borehole Drilling TAL Metals Analytical Results (continued)

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Hg (mg/kg)	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Ca (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
BH-8	023318-02	10	9	0.0287	ND	10300	5.12	187	0.569	62400	ND	5.56	13.2
	023319-02	30	26	0.029	ND	4400	3.08	107	0.303	61200	0.0405	3.13	8.87
	023320-02	30 dup	26 dup	0.0277	ND	516	2.48	98.6	0.394	64100	0.0393	3.43	10.7
	023321-02	50	43	0.0292	ND	4610	2.12	55.7	0.258	51700	ND	3.53	8.03
	023322-02	70	61	0.0293	ND	5030	2.81	60.6	0.35	50900	0.021	4.01	10.6
	023324-02	90	78	0.0359	ND	5840	2.47	50.3	0.387	26500	ND	3.39	10.6
	023326-02	130	113	0.0189	ND	7980	2.74	129	0.393	39000	ND	3.2	33.1

Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Cu (mg/kg)	Fe (mg/kg)	K (mg/kg)	Mg (mg/kg)	Mn (mg/kg)	Na (mg/kg)	Ni (mg/kg)	Pb (mg/kg)	Sb (mg/kg)	Se (mg/kg)
023318-02	10	9	10.7	13800	1240	6270	231	523	11.3	7.71	0.403	ND
023319-02	30	26	9.38	7410	584	2950	153	209	8.01	3.82	0.206	ND
023320-02	30 dup	26 dup	8.82	8800	669	3320	170	221	8.6	3.97	0.201	0.152
023321-02	50	43	8.64	9030	572	3450	189	190	8.35	3.87	0.386	ND
023322-02	70	61	8.27	10200	662	3080	194	167	7.57	5.99	0.207	ND
023324-02	90	78	5.47	9230	871	3310	160	169	6.9	4.31	0.193	ND
023326-02	130	113	6.16	9970	1290	3040	134	235	7.18	4.98	0.391	ND

Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Tl (mg/kg)	V (mg/kg)	Zn (mg/kg)
023318-02	10	9	1.38	27	31.8
023319-02	30	26	0.888	14	18.2
023320-02	30 dup	26 dup	1	16.6	20.8
023321-02	50	43	0.894	15.5	21.6
023322-02	70	61	0.936	18.5	23.4
023324-02	90	78	1.03	17	21.2
023326-02	130	113	0.979	18	19.7

Appendix D MWL Borehole Drilling TAL Metals Analytical Results (continued)

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Hg (mg/kg)	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Ca (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
BH-9	023329-02	10	9	0.0364	ND	5800	3.65	122	0.404	57700	ND	3.95	7.47
	023330-02	30	26	0.0167	ND	5170	2.34	70.7	0.333	39300	ND	5.15	11.9
	023331-02	30 dup	26 dup	0.0399	0.371	4650	4.85	68.5	0.353	76400	0.191	3.62	16.1
	023332-02	50	43	0.0292	ND	6910	3.66	158	0.38	23200	0.0048	3.52	14
	023333-02	70	61	0.0389	ND	3570	1.84	56.1	0.244	84700	0.109	2.62	9.64
	023335-02	90	78	0.00589	ND	5930	2.9	89.7	0.418	54400	0.0551	3.99	13.5

Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Cu (mg/kg)	Fe (mg/kg)	K (mg/kg)	Mg (mg/kg)	Mn (mg/kg)	Na (mg/kg)	Ni (mg/kg)	Pb (mg/kg)	Sb (mg/kg)	Se (mg/kg)
023329-02	10	9	7.28	8750	763	4050	174	353	7.89	5.52	0.24	ND
023330-02	30	26	9.36	10400	621	3250	203	249	7.43	3.35	0.284	ND
023331-02	30 dup	26 dup	12.7	9470	559	2840	189	180	8.03	3.75	0.305	ND
023332-02	50	43	5.05	9690	894	2680	136	311	7.1	5.31	0.475	0.07
023333-02	70	61	7.83	6520	519	2460	166	175	5.7	3.19	0.138	ND
023335-02	90	78	12.2	10600	815	3120	282	243	9.19	5.13	0.384	0.07

Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Tl (mg/kg)	V (mg/kg)	Zn (mg/kg)
023329-02	10	9	1.08	17	22.2
023330-02	30	26	0.747	22.2	24.8
023331-02	30 dup	26 dup	0.907	19.4	20.2
023332-02	50	43	1.04	19.9	21.5
023333-02	70	61	0.58	11.6	16.2
023335-02	90	78	1.14	17.4	24.9

Appendix D MWL Borehole Drilling TAL Metals Analytical Results (continued)

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Hg (mg/kg)	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Ca (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
BH-10	023340-02	10	9	0.00816	ND	10500	5.63	254	0.603	57900	0.0188	6.23	13.8
	023341-02	30	26	0.00662	ND	4450	2.61	87	0.236	16800	0.025	2.1	5.91
	023337-02	50	43	2.11	ND	5660	2.76	96.7	0.323	37100	ND	3.13	14.6
	023342-02	50 dup	43 dup	0.107	ND	5830	2.71	90.7	0.321	36900	ND	2.95	13.4
	023343-02	70	61	0.00527	ND	3980	2.37	56.1	0.225	82900	0.66	3.02	7.16
	023344-02	90	78	0.00936	ND	7010	2.12	115	0.314	55400	0.653	3.82	24.4
	023346-02	130	113	0.00664	ND	6840	2.4	120	0.313	39100	0.457	2.75	21.1

Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Cu (mg/kg)	Fe (mg/kg)	K (mg/kg)	Mg (mg/kg)	Mn (mg/kg)	Na (mg/kg)	Ni (mg/kg)	Pb (mg/kg)	Sb (mg/kg)	Se (mg/kg)
023340-02	10	9	10.3	14200	1310	5920	262	490	12.1	8.46	0.375	ND
023341-02	30	26	2.12	5780	632	1560	73.7	148	3.97	3.24	0.238	ND
023337-02	50	43	7.15	9190	788	2510	143	261	7.23	4.45	0.289	ND
023342-02	50 dup	43 dup	6.21	9000	816	2470	129	252	6.77	4.34	0.265	ND
023343-02	70	61	9.22	8280	532	2770	164	140	6.84	4.74	ND	ND
023344-02	90	78	10.9	11700	1060	3140	176	273	7.6	5.18	ND	ND
023346-02	130	113	5.41	8360	1110	2640	129	215	6.08	4.99	ND	ND

Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Tl (mg/kg)	V (mg/kg)	Zn (mg/kg)
023340-02	10	9	1.27	30.3	34.4
023341-02	30	26	0.526	12.6	11.6
023337-02	50	43	0.821	15.7	21.5
023342-02	50 dup	43 dup	0.699	16.3	19.7
023343-02	70	61	ND	13.9	18.1
023344-02	90	78	ND	26.1	25.2
023346-02	130	113	ND	15.6	17.3

Appendix D MWL Borehole Drilling TAL Metals Analytical Results (continued)

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Hg (mg/kg)	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Ca (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
BH-11	023351-02	10	9	0.0274	ND	8620	4.03	281	0.458	37700	0.587	4.61	10.7
	023352-02	30	26	0.0268	ND	4700	2.72	76	0.319	43900	0.556	3.24	7.91
	023353-02	30 dup	26 dup	0.0272	ND	4510	3.47	63.5	0.358	37800	0.0679	3.22	8.24
	023354-02	50	43	0.0281	ND	7930	3.49	154	0.413	33400	0.0313	4.41	12.3
	023355-02	70	61	0.0302	ND	10800	3.85	77.3	0.588	39500	0.0682	5.01	12.5
	023356-02	90	78	0.0256	ND	5500	2.62	66.9	0.313	56100	0.073	3.14	11.7
	023884-02	126	109	0.0269	ND	5990	2.15	55.2	0.311	22700	ND	2.44	9.68

Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Cu (mg/kg)	Fe (mg/kg)	K (mg/kg)	Mg (mg/kg)	Mn (mg/kg)	Na (mg/kg)	Ni (mg/kg)	Pb (mg/kg)	Sb (mg/kg)	Se (mg/kg)
023351-02	10	9	8.04	11500	1310	4640	206	441	9.51	7.14	ND	ND
023352-02	30	26	6.53	8680	508	2650	172	189	6.7	4.93	0.0959	ND
023353-02	30 dup	26 dup	9.46	8010	478	2780	137	187	7.67	3.69	0.186	0.34
023354-02	50	43	7.72	11800	889	3630	187	310	8.62	6.19	0.336	ND
023355-02	70	61	9.39	13100	1180	4410	227	352	10.7	7.51	0.309	ND
023356-02	90	78	9.07	9110	751	2910	163	200	7.44	4.49	0.176	ND
023884-02	126	109	3.77	7440	1080	2080	104	213	5.31	3.84	0.32	0.07

Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Tl (mg/kg)	V (mg/kg)	Zn (mg/kg)
023351-02	10	9	ND	22.7	27.4
023352-02	30	26	ND	17.1	18.4
023353-02	30 dup	26 dup	0.896	16	20
023354-02	50	43	0.939	21.8	25.6
023355-02	70	61	1.08	24.4	30.8
023356-02	90	78	0.738	14.9	26.7
023884-02	126	109	0.547	13.7	16

Appendix D MWL Borehole Drilling TAL Metals Analytical Results (continued)

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Hg (mg/kg)	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Ca (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
BH-12	023888-02	10	9	0.039	ND	6340	4.65	162	0.404	40700	ND	3.21	8.08
	023890-02	30	26	0.0986	ND	4200	1.81	41	0.213	21300	ND	1.81	5.51
	023889-02	50	43	0.0236	ND	5070	2.43	57.5	0.273	32400	ND	2.8	9.07
	023891-02	50 dup	43 dup	0.0121	ND	4960	2.51	76.1	0.259	43800	ND	2.74	9.32
	023892-02	70	61	0.0168	ND	7390	3.23	85.8	0.466	37900	ND	4.25	12.3
	023893-02	90	78	0.00384	ND	6840	3.02	112	0.393	27000	ND	3.57	9.42
	023896-02	122	106	0.00319	ND	4720	2.25	59.2	0.272	53000	ND	3.14	10.4

Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Cu (mg/kg)	Fe (mg/kg)	K (mg/kg)	Mg (mg/kg)	Mn (mg/kg)	Na (mg/kg)	Ni (mg/kg)	Pb (mg/kg)	Sb (mg/kg)	Se (mg/kg)
023888-02	10	9	5.02	8690	903	3830	132	377	7.28	4.61	0.389	ND
023890-02	30	26	2.43	5570	636	1630	77.4	239	4.14	3.02	0.209	ND
023889-02	50	43	4.83	7900	669	2550	126	234	5.61	4.09	0.243	0.188
023891-02	50 dup	43 dup	4.77	7710	660	2590	152	251	5.73	3.98	0.185	ND
023892-02	70	61	8.03	10200	909	3410	197	330	8.83	6.08	0.25	ND
023893-02	90	78	6.36	9310	1040	3210	160	244	7.4	5.56	0.266	ND
023896-02	122	106	7.93	9350	835	2710	201	222	6.27	4.36	0.213	ND

Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Tl (mg/kg)	V (mg/kg)	Zn (mg/kg)
023888-02	10	9	0.812	21.5	19.4
023890-02	30	26	0.565	10.9	12.3
023889-02	50	43	0.702	15	18.2
023891-02	50 dup	43 dup	0.71	15.2	17.2
023892-02	70	61	0.966	18	24.8
023893-02	90	78	0.627	15.9	23
023896-02	122	106	0.577	17.1	21.2

Appendix D MWL Borehole Drilling TAL Metals Analytical Results (continued)

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Hg (mg/kg)	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Ca (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
BH-13	023899-02	10	9	0.00828	ND	6970	3.26	201	0.343	67900	ND	3.23	9.3
	023900-02	30	26	0.00512	ND	5850	2.79	66.6	0.278	25200	ND	2.53	6.47
	023901-02	30 dup	26 dup	0.00571	ND	7540	2.88	557	0.339	29800	ND	3.26	8.31
	023902-02	50	43	0.00689	ND	4640	3.14	69.5	0.265	37100	ND	3.75	13.1
	023903-02	70	61	0.00294	ND	8290	3.24	96.9	0.451	31400	ND	4.26	10.5
	023905-02	90	78	0.00963	ND	6350	2.73	65.3	0.34	26400	ND	3.61	9.63
	023907-02	119	103	0.0034	ND	7150	2.91	104	0.382	38900	ND	3.65	15.6

Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Cu (mg/kg)	Fe (mg/kg)	K (mg/kg)	Mg (mg/kg)	Mn (mg/kg)	Na (mg/kg)	Ni (mg/kg)	Pb (mg/kg)	Sb (mg/kg)	Se (mg/kg)
023899-02	10	9	5.83	8040	1230	3480	118	276	6.75	4.15	0.287	ND
023900-02	30	26	3.61	6890	808	2330	109	217	5.26	3.83	0.283	ND
023901-02	30 dup	26 dup	4.36	8230	1040	2800	136	244	6.36	4.41	0.235	ND
023902-02	50	43	8.9	10300	737	2610	171	204	7.37	4.46	0.275	ND
023903-02	70	61	7.88	11400	996	3430	203	276	8.46	5.8	0.326	ND
023905-02	90	78	9.62	9930	973	2980	165	216	7.03	5.19	0.199	ND
023907-02	119	103	8.33	10700	1170	3240	186	296	7.9	5.4	0.29	ND

Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Tl (mg/kg)	V (mg/kg)	Zn (mg/kg)
023899-02	10	9	0.719	16.3	18.9
023900-02	30	26	0.611	13.4	15.9
023901-02	30 dup	26 dup	0.581	16.5	18.1
023902-02	50	43	1.05	17.3	21.1
023903-02	70	61	1.14	21	25.4
023905-02	90	78	0.608	18.1	21.3
023907-02	119	103	0.845	18.3	75

[a] Depth reported is linear feet. Borehole was drilled at an angle of 30 degrees from vertical.

[b] Depth reported is actual feet bgs.

ND - Not detected. Concentration reported below instrument detection limit.

Appendix D MWL Borehole Drilling TAL Metals Analytical Results (continued)

Borehole Number	Sample Number	Borehole Depth (linear ft)	True Depth[a] (ft bgs)	Hg (mg/kg)	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Ca (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
BH-14	023910-02	NA	10	0.0103	ND	8410	4.76	266	0.435	37400	ND	4.78	10.7
	023911-02	NA	30	0.00432	ND	7070	3.17	106	0.455	41400	ND	3.93	10.3
	023912-02	NA	30 dup	0.00426	ND	5910	3.07	102	0.376	37500	ND	3.14	8.48
	023913-02	NA	50	ND	ND	5230	2.25	58.1	0.279	25800	ND	2.63	7.98
	023914-02	NA	70	0.0249	ND	7550	2.96	53.7	0.39	24700	ND	3.39	10.3
	023916-02	NA	90	0.00843	ND	6810	2.88	86.2	0.358	34000	ND	4.2	14.4

Sample Number	Borehole Depth (linear ft)	True Depth[a] (ft bgs)	Cu (mg/kg)	Fe (mg/kg)	K (mg/kg)	Mg (mg/kg)	Mn (mg/kg)	Na (mg/kg)	Ni (mg/kg)	Pb (mg/kg)	Sb (mg/kg)	Se (mg/kg)
023910-02	NA	10	9.07	12100	1240	4780	217	430	9.1	6.45	0.304	0.222
023911-02	NA	30	6.38	9670	879	3460	184	315	7.83	4.73	0.208	ND
023912-02	NA	30 dup	5.46	8600	780	2800	155	292	6.49	4.34	0.275	ND
023913-02	NA	50	4.54	7890	817	2460	125	300	6.94	3.96	0.275	ND
023914-02	NA	70	5.34	9710	1120	3030	139	243	6.84	5.31	0.241	ND
023916-02	NA	90	8.02	11600	1020	3340	212	187	7.82	5.15	0.374	0.583

Sample Number	Borehole Depth (linear ft)	True Depth[a] (ft bgs)	Tl (mg/kg)	V (mg/kg)	Zn (mg/kg)
023910-02	NA	10	0.901	24.7	28.7
023911-02	NA	30	0.78	20.2	23.3
023912-02	NA	30 dup	0.727	17.4	20
023913-02	NA	50	0.601	14.8	16.1
023914-02	NA	70	0.682	16.9	22.1
023916-02	NA	90	1.56	20.8	24.8

Appendix D MWL Borehole Drilling TAL Metals Analytical Results (concluded)

Borehole Number	Sample Number	Borehole Depth (linear ft)	True Depth[a] (ft bgs)	Hg (mg/kg)	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Ca (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
BH-15	023921-02	NA	10	0.0267	ND	6960	3.16	207	0.333	35300	ND	3.07	8.09
	023922-02	NA	30	0.0333	ND	4490	2.38	58.7	0.26	8950	ND	2.17	6.53
	023923-02	NA	30 dup	0.0261	ND	6560	2.78	119	0.325	13400	ND	2.63	8.27
	023924-02	NA	50	0.0186	ND	4570	2.34	50.1	0.254	34400	ND	3.63	6.97
	023927-02	NA	70	0.027	ND	5490	2.92	86.4	0.358	37400	ND	3.23	6.92
	023925-02	NA	90	0.112	ND	8930	3.63	93	0.411	34100	ND	3.97	22.4
	023929-02	NA	122	0.0221	ND	2550	1.46	20.8	0.127	155000	ND	1.86	4.06

Sample Number	Borehole Depth (linear ft)	True Depth[a] (ft bgs)	Cu (mg/kg)	Fe (mg/kg)	K (mg/kg)	Mg (mg/kg)	Mn (mg/kg)	Na (mg/kg)	Ni (mg/kg)	Pb (mg/kg)	Sb (mg/kg)	Se (mg/kg)
023921-02	NA	10	5.45	8110	1230	3540	120	341	5.99	4.19	0.278	ND
023922-02	NA	30	3.21	5980	659	1630	90.7	237	4.54	3.54	0.118	ND
023923-02	NA	30 dup	4.14	7590	923	2210	113	282	5.53	4.19	0.234	ND
023924-02	NA	50	7.77	9690	676	2770	183	258	6.24	4.18	0.141	ND
023927-02	NA	70	5.46	8070	704	3200	149	254	6.39	4.85	0.245	ND
023925-02	NA	90	14.6	13000	1380	3530	173	331	9.99	5.36	0.316	ND
023929-02	NA	122	11.4	4080	480	2830	136	150	3.93	3.25	ND	ND

Sample Number	Borehole Depth (linear ft)	True Depth[a] (ft bgs)	Tl (mg/kg)	V (mg/kg)	Zn (mg/kg)
023921-02	NA	10	0.591	17.6	18.5
023922-02	NA	30	0.425	11.8	13.7
023923-02	NA	30 dup	0.664	14.8	16.7
023924-02	NA	50	0.732	17.1	23.5
023927-02	NA	70	0.491	14.3	23.2
023925-02	NA	90	1.19	20.1	45.4
023929-02	NA	122	ND	7.88	9.58

[a] Borehole was drilled vertically. Depth reported is actual feet bgs.

ND - Not detected. Concentration reported below instrument detection limit.

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APPENDIX E

MWL Borehole Drilling Radiochemical Analytical Results

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Appendix E MWL Borehole Drilling Radiochemical Analytical Results

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Radionuclide	Activity (pCi/g)
BH-1	022411-03	10	9	Tritium	3.7
	022412-03	30	26	Tritium	1
	022413-03	30 dup	26	Tritium	1.1
	022414-03	50	43	-	ND
	022416-03	70	61	Tritium	4
	022415-03	90	78	Tritium	0.8
	022417-03	110	95	Tritium	0.4
	022418-03	120	104	Tritium	0.2
BH-2	022421-03	10	9	Tritium	6.4
	022422-03	30	26	-	ND
	022423-03	50	43	-	ND
	022424-03	70	61	-	ND
	022426-03	90	78	-	ND
	022427-03	90 dup	78	-	ND
	022428-03	110	95	-	ND
	022429-03	120	104	-	ND
BH-3	022432-03	10	9	Tritium	0.9
	022433-03	30	26	-	ND
	022434-03	50	43	-	ND
	022435-03	70	61	-	ND
	022436-03	70 dup	61	-	ND
	022437-03	90	78	-	ND
	022439-03	110	95	-	ND
	022440-03	120	104	Tritium	0.8
BH-4	022443-03	10	9	Tritium	7.5
	022444-03	30	26	Tritium	0.6
	022445-03	30 dup	26	Tritium	1.2
	022446-03	50	43	Tritium	0.3
	022448-03	70	61	-	ND
	022449-03	90	78	-	ND
	022450-03	110	95	Tritium	0.3
	022451-03	120	104	-	ND
BH-5	022455-03	10	9	Tritium	39.5
	022456-03	30	26	Tritium	0.3
	022457-03	50	43	-	ND
	022458-03	50 dup	43	Tritium	1.4
	023286-03	70	61	Tritium	0.2
	023287-03	90	78	-	ND
	023289-03	110	95	-	ND
	023290-03	120	104	Tritium	0.9
BH-6	023291-03	10	9	Tritium	18.7
	023294-03	30	26	Tritium	74.2
	023295-03	30 dup	26	Tritium	74.4
	023296-03	50	43	-	ND
	023297-03	70	61	-	ND
	023298-03	90	78	Tritium	0.3

Appendix E MWL Borehole Drilling Radiochemical Analytical Results

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Radionuclide	Activity (pCi/g)
BH-6, Continued	023300-03	110	95	-	ND
	023301-03	120	104	Tritium	0.9
BH-7	023306-03	10	9	Tritium	10.6
	023307-03	30	26	-	ND
	023308-03	30 dup	26	-	ND
	023309-03	50	43	-	ND
	023310-03	70	61	Tritium	5
	023312-03	90	78	Tritium	0.7
	023313-03	110	95	Tritium	0.4
	023314-03	120	104	Tritium	6.4
BH-8	023318-03	10	9	Tritium	58.3
	023319-03	30	26	Tritium	15.5
	023320-03	30 dup	26	Tritium	104.3
	023321-03	50	43	Tritium	0.5
	023321-04	50	43	Pu-238	0.979
				Pu-239/240	8.85
	Reanalysis 023321-04	50	43	Pu-238	-0.0010
				Pu-239/240	0.00
	023322-03	70	61	Tritium	0.9
	023324-03	90	78	Tritium	0.9
	023325-03	110	95	Tritium	0.4
	023326-03	130	113	Tritium	1
BH-9	023329-03	10	9	Tritium	140.3
	023330-03	30	26	Tritium	55.7
	023331-03	30 dup	26	Tritium	45.6
	023332-03	50	43	Tritium	39.1
	023333-03	70	61	Tritium	11.2
	023335-03	90	78	Tritium	13.5
	023336-03	110	95	Tritium	ND
BH-10	023340-03	10	9	Tritium	209
	023341-03	30	26	Tritium	1354
	023337-03	50	43	Tritium	55.7
	023342-03	50 dup	43	Tritium	140.6
	023343-03	70	61	Tritium	8
	023344-03	90	78	Tritium	16.1
	023345-03	110	95	Tritium	7.4
	023346-03	130	113	Tritium	1.7
	023346-04	130	113	Sr-90	2.5
	Reanalysis 023346-04	130	113	Sr-90	0.19 MDA 0.18; Error 0.22
	023347-03	135	117	Tritium	1
	023350-03	139	120	Tritium	2.9
BH-11	023351-03	10	9	Tritium	29.5
	023352-03	30	26	Tritium	1.3
	023353-03	30 dup	26	Tritium	1

Appendix E MWL Borehole Drilling Radiochemical Analytical Results

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Radionuclide	Activity (pCi/g)
BH-11, Continued	023354-03	50	43	Tritium	3
	023355-03	70	61	Tritium	1.6
	023356-03	90	78	Tritium	2.2
	023883-03	110	95	Tritium	0.7
	023884-03	126	109	Tritium	1.2
BH-12	023888-03	10	9	Tritium	2948
	023890-03	30	26	Tritium	20670
	023889-03	50	43	Tritium	507.3
	023891-03	50 dup	43	Tritium	472.3
	023892-03	70	61	Tritium	11.6
	023893-03	90	78	Tritium	4.6
	023895-03	110	95	Tritium	1.7
	023896-03	122	106	Tritium	1.7
BH-13	023899-03	10	9	Tritium	10
	023900-03	30	26	-	ND
	023901-03	30 dup	26	Tritium	4.5
	023902-03	50	43	Tritium	0.7
	023903-03	70	61	Tritium	1
	023905-03	90	78	Tritium	0.8
	023906-03	110	95	Tritium	0.5
	023907-03	119	103	Tritium	1
BH-14	023910-03	NA	10	Tritium	7
	023911-03	NA	30	Tritium	2.7
	023912-03	NA	30 dup	Tritium	1.7
	023913-03	NA	50	Tritium	3
	023914-03	NA	70	Tritium	2
	023916-03	NA	90	Tritium	2.3
	023917-03	NA	110	Tritium	0.8
BH-15	023921-03	NA	10	Tritium	177.3
	023922-03	NA	30	Tritium	5.9
	023923-03	NA	30 dup	Tritium	4.1
	023924-03	NA	50	Tritium	1.1
	023927-03	NA	70	Tritium	3.6
	023925-03	NA	90	Tritium	1.1
	023928-03	NA	110	Tritium	1.9
	023929-03	NA	122	Tritium	0.1

[a] Depth reported is linear feet for boreholes 1 through 13. These boreholes were drilled at an angle of 30 degrees from vertical.

[b] Depth reported is actual feet bgs.

pCi/g - Pico curies per gram

ND - Not detected above instrument method detection limits

NA - Boreholes 14 and 15 were drilled vertically, therefore the depths reported are actual feet bgs.

dup - Duplicate sample

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APPENDIX F

MW-4 VOC Analytical Results

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Appendix F MW-4 VOC Analytical Results

Sample Number	Sample Depth[a] (linear ft)	True Sample Depth[b] (ft bgs)	Compound	Concentration (ug/kg)	Action Level (ug/kg)	Below Action Level	Eliminated Based on 10x Rule[e]	Comments
ER92003639-2	10	10	Acetone	1400	[c]8×10^6	Y	Y	Acetone, 2-Butanone, and Methylene Chloride were present in the laboratory method blank at 1100 ug/kg, 250 J ug/kg, and 210 J ug/kg, respectively. Methylene Chloride was present in the trip blank at 1.2 J ug/L (sample # ER92003642-1).
			2-Butanone	650 J	[d]5×10^7	Y	Y	
			Methylene Chloride	3800	[c]9×10^4	Y	N	
ER92003640-2	10 dup	10 dup	Acetone	920 J	[c]8×10^6	Y	Y	Lab error caused wrong sample preparation and raised reporting limits. Acetone, 2-Butanone, and Methylene Chloride were present in the laboratory method blank at 1100 ug/kg, 250 J ug/kg, and 210 J ug/kg, respectively. Methylene Chloride was present in the trip blank at 1.2 J ug/L (sample # ER92003642-1).
			2-Butanone	460 J	[d]5×10^7	Y	Y	
ER92003640-2 Reanalysis	10 dup	10 dup	Acetone	4.9 J	[c]8×10^6	Y	Y	Analysis reprepared and reanalyzed outside of holding times. Sample was analyzed 23 days after the hold times expired - data invalid. Acetone and Methylene Chloride present in the laboratory method blank at 5.3 J ug/kg and 1.1 J ug/kg.
			Methylene Chloride	1.3 J	[c]9×10^4	Y	Y	
ER92003643-1	20	20	Acetone	580 J	[c]8×10^6	Y	Y	Lab error caused wrong sample preparation and raised reporting limits. Acetone, 2-Butanone, and Methylene Chloride were present in the laboratory method blank at 1100 ug/kg, 250 J ug/kg, and 210 J ug/kg, respectively. Methylene Chloride was present in the trip blank at 2.2 J ug/L (sample # ER92003644-1).
			2-Butanone	530 J	[d]5×10^7	Y	Y	

Appendix F MW-4 VOC Analytical Results

Sample Number	Sample Depth[a] (linear ft)	True Sample Depth[b] (ft bgs)	Compound	Concentration (ug/kg)	Action Level (ug/kg)	Below Action Level	Eliminated Based on 10x Rule[e]	Comments
ER92003643-1 Reanalysis	20	20	Methylene Chloride	1.3 J	[c]9×10^4	Y	Y	Analysis reprepared and reanalyzed outside of holding times. Sample was analyzed 21 days after the hold times expired - data invalid. Acetone and Methylene Chloride present in the laboratory method blank at 5.3 J ug/kg and 1.1 J ug/kg.
ER92003646-2	30	30	Acetone	830 J	[c]8×10^6	Y	Y	Lab error caused wrong sample preparation and raised reporting limits. Acetone, 2-Butanone, and Methylene Chloride were present in the laboratory method blank at 1100 ug/kg, 250 J ug/kg, and 210 J ug/kg, respectively. Methylene Chloride was present in the trip blank at 2.2 J ug/L (sample # ER92003644-1).
			2-Butanone	510 J	[d]5×10^7	Y	Y	
ER92003646-2	30 dup	30 dup	Acetone	1000	[c]8×10^6	Y	Y	Acetone, 2-Butanone, and Methylene Chloride were present in the laboratory method blank at 1100 ug/kg, 250 J ug/kg, and 210 J ug/kg, respectively.
			2-Butanone	410 J	[d]5×10^7	Y	Y	
			Methylene Chloride	200 J	[c]9×10^4	Y	Y	
ER92003646-2 Reanalysis	30	30	ND	-	-	-	-	Analysis reprepared and reanalyzed outside of holding times. Sample was analyzed 21 days after the hold times expired - data invalid. Acetone and Methylene Chloride present in the laboratory method blank at 5.3 J ug/kg and 1.1 J ug/kg.
ER92003649-2	41	41	ND	-	-	-	-	Lab error caused wrong sample preparation and raised reporting limits. Acetone present in the laboratory method blank at 14 ug/kg. Acetone and Methylene Chloride present in the trip blank at 36 ug/L and 1.2 J ug/L (sample # ER92003650-1).

Appendix F MW-4 VOC Analytical Results

Sample Number	Sample Depth[a] (linear ft)	True Sample Depth[b] (ft bgs)	Compound	Concentration (ug/kg)	Action Level (ug/kg)	Below Action Level	Eliminated Based on 10x Rule[e]	Comments
ER92003649-2 Reanalysis	41	41	Acetone	10	[c]8×10^6	Y	Y	Analysis reprepared and reanalyzed outside of holding times. Sample was analyzed 20 days after the hold times expired - data invalid. Acetone and Methylene Chloride present in the laboratory method blank at 5.3 J ug/kg and 1.1 J ug/kg.
ER92003652-2	50	50	Methylene Chloride	120 J	[c]9×10^4	Y	N	Lab error caused wrong sample preparation and raised reporting limits. Acetone and Methylene Chloride present in the trip blank at 36 ug/L and 1.2 J ug/L (sample # ER92003650-1).
ER92003652-2 Reanalysis	50	50	Acetone	9.6 J	[c]8×10^6	Y	Y	Analysis reprepared and reanalyzed outside of holding times. Sample was analyzed 20 days after the hold times expired - data invalid. Acetone and Methylene Chloride present in the laboratory method blank at 5.3 J ug/kg and 1.1 J ug/kg.
ER92003655-2	70	70	Acetone	7.9 J	[c]8×10^6	Y	Y	Acetone and Methylene Chloride present in the laboratory method blank at 4.5 J ug/kg and 3.3 J ug/kg. Methylene Chloride present in the trip blank at 1.8 J ug/L (sample # ER92003654-1).
			2-Butanone	3.5 J	[d]5×10^7	Y	N	
			Methylene Chloride	20	[c]9×10^4	Y	Y	
			Toluene	5.4	[c]2×10^7	Y	N	
ER92004042-1	78	78	Acetone	9.8 J	[c]8×10^6	Y	Y	Acetone and Methylene Chloride present in the laboratory method blank at 4.5 J ug/kg and 3.3 J ug/kg. Methylene Chloride present in the trip blank at 1.8 J ug/L (sample # ER92003654-1).
			Methylene Chloride	3.5 J	[c]9×10^4	Y	Y	
			Toluene	3.4 J	[c]2×10^7	Y	N	

Appendix F MW-4 VOC Analytical Results

Sample Number	Sample Depth[a] (linear ft)	True Sample Depth[b] (ft bgs)	Compound	Concentration (ug/kg)	Action Level (ug/kg)	Below Action Level	Eliminated Based on 10x Rule[e]	Comments
ER92004043-1	89	89	Acetone	17	[c]8×10^6	Y	Y	Acetone and Methylene Chloride present in the laboratory method blank at 4.5 J ug/kg and 3.3 J ug/kg. Methylene Chloride present in the trip blank at 1.8 J ug/L (sample # ER92003654-1).
			2-Butanone	4.5 J	[d]5×10^7	Y	N	
			Methylene Chloride	2.8 J	[c]9×10^4	Y	Y	
			Toluene	2.4 J	[c]2×10^7	Y	N	
ER92004031-1	100	99	Acetone	19	[c]8×10^6	Y	Y	Acetone present in the equipment blank at 4.6 J ug/L (sample # ER92004032-1). Acetone present in the trip blank at 3.8 J ug/L (sample # ER92004034-1).
			Methylene Chloride	7.6	[c]9×10^4	Y	N	
			Toluene	5 J	[c]2×10^7	Y	N	
ER92004033-1	121	120	Acetone	8.6 J	[c]8×10^6	Y	Y	Acetone present in the equipment blank at 4.6 J ug/L (sample # ER92004032-1). Acetone present in the trip blank at 3.8 J ug/L (sample # ER92004034-1).
			Methylene Chloride	4.8 J	[c]9×10^4	Y	N	
			Toluene	3.8 J	[c]2×10^7	Y	N	
ER92004036-1	140	139	Acetone	24	[c]8×10^6	Y	Y	Acetone and Methylene Chloride present in the laboratory method blank at 4.5 J ug/kg and 3.3 J ug/kg. Methylene Chloride present in the trip blank at 4.1 J ug/L (sample # ER92004038-1).
			2-Butanone	4.8 J	[d]5×10^7	Y	N	
			Methylene Chloride	14	[c]9×10^4	Y	Y	
			Toluene	2.4 J	[c]2×10^7	Y	N	
ER92004037-1	160	159	Acetone	80	[c]8×10^6	Y	Y	Acetone present in the laboratory method blank at 14 ug/kg. Methylene Chloride present in trip blank at 4.1 J ug/L (sample # ER92004038-1).
			2-Butanone	6 J	[d]5×10^7	Y	N	
			Methylene Chloride	1.1 J	[c]9×10^4	Y	Y	
			Toluene	2.8 J	[c]2×10^7	Y	N	
ER92004040-1	180	179	Acetone	22	[c]8×10^6	Y	Y	Acetone, Methylene Chloride, and Total Xylenes present in the laboratory method blank at 7.4 J ug/kg, 1.2 ug/kg, and 1.2 J ug/kg, respectively. Acetone and Methylene Chloride present in the trip blank at 7.8 J ug/L and 1 J ug/L (sample # ER92004029-1).
			Methylene Chloride	2.1 J	[c]9×10^4	Y	Y	

Appendix F MW-4 VOC Analytical Results

Sample Number	Sample Depth[a] (linear ft)	True Sample Depth[b] (ft bgs)	Compound	Concentration (ug/kg)	Action Level (ug/kg)	Below Action Level	Eliminated Based on 10x Rule[a]	Comments
ER92004041-1	200	199	Methylene Chloride	4.5 J	[c]9×10^4	Y	Y	Acetone, Methylene Chloride, and Total Xylenes present in the laboratory method blank at 7.4 J ug/kg, 1.2 ug/kg, and 1.2 J ug/kg, respectively. Acetone and Methylene Chloride present in the trip blank at 7.8 J ug/L and 1 J ug/L (sample # ER92004029-1).
			PCE	1.4 J	[c]1×10^4	Y	N	
ER92004030-1	200 dup	199 dup	Acetone	5.1 J	[c]8×10^6	Y	Y	Acetone, Methylene Chloride, and Total Xylenes present in the laboratory method blank at 7.4 J ug/kg, 1.2 ug/kg, and 1.2 J ug/kg, respectively. Acetone and Methylene Chloride present in the trip blank at 7.8 J ug/L and 1 J ug/L (sample # ER92004029-1).
ER92004027-1	250	249	Methylene Chloride	4.8 J	[c]9×10^4	Y	Y	Acetone, Methylene Chloride, and Total Xylenes present in the laboratory method blank at 7.4 J ug/kg, 1.2 ug/kg, and 1.2 J ug/kg, respectively.
			PCE	5.4	[c]1×10^4	Y	N	
ER92004025-1	294	292	Acetone	15	[c]8×10^6	Y	Y	Acetone present in the laboratory method blank at 1.8 J ug/kg. Carbon Disulfide present in the trip blank at 31 ug/L (sample # ER92004026-1).
			Methylene Chloride	1.3 J	[c]9×10^4	Y	N	
ER92004024-1	294 dup	292 dup	Acetone	7.6 J	[c]8×10^6	Y	Y	Acetone present in the laboratory method blank at 1.8 J ug/kg. Carbon Disulfide present in the trip blank at 31 ug/L (sample # ER92004026-1).
			Methylene Chloride	1.1 J	[c]9×10^4	Y	N	
ER92004181-1	353	351	Acetone	10	[c]8×10^6	Y	Y	Acetone present in the laboratory method blank at 1.8 J ug/kg. Acetone and Methylene Chloride present in the trip blank at 8.8 J ug/L and 6.4 ug/L (sample # ER92004182-1).
			Methylene Chloride	1.2 J	[c]9×10^4	Y	Y	

Appendix F MW-4 VOC Analytical Results

Sample Number	Sample Depth[a] (linear ft)	True Sample Depth[b] (ft bgs)	Compound	Concentration (ug/kg)	Action Level (ug/kg)	Below Action Level	Eliminated Based on 10x Rule[e]	Comments
ER92004183-1	400	398	Acetone	4.7 J	[c]8×10^6	Y	Y	Acetone and Methylene Chloride present in the trip blank at 9 J ug/L and 5.2 ug/L (sample # ER92004184-1).
ER92004180-1	447	445	Acetone	130	[c]8×10^6	Y	N	Acetone and Methylene Chloride present in the laboratory method blank at 6.8 J ug/kg and 1.2 J ug/kg. Acetone and Methylene Chloride present in the trip blank at 7.4 J ug/L and 5.5 J ug/L (sample # ER92004185-1).
			2-Butanone	12	[d]5×10^7	Y	N	
			2-Hexanone	1.7 J	[d]3×10^6	Y	N	
			Methylene Chloride	2.7 J	[c]9×10^4	Y	Y	
ER92004347-1	486	483	NS	-	-	-	-	
ER92004348-1	499	496	Acetone	28	[c]8×10^6	Y	Y	Acetone present in the laboratory method blank at 6.3 J ug/kg. Acetone and Methylene Chloride present in the trip blank at 34 ug/L and 2.6 J ug/L (sample # ER92004349-1).
			2-Butanone	7.9 J	[d]5×10^7	Y	N	
			Methylene Chloride	1.2 J	[c]9×10^4	Y	Y	
ER92004342-1	546	543	Acetone	15	[c]8×10^6	Y	Y	Acetone and 2-Butanone present in the laboratory method blank at 7 J ug/kg and 1 J ug/kg. Acetone and Ethylbenzene present in the equipment blank at 8.9 J ug/L and 1.4 J ug/L (sample # ER92004350-1). Acetone and Methylene Chloride present in the trip blank at 6 J ug/L and 1.1 J ug/L (sample # ER92004343-1).
			Methylene Chloride	1.5 J	[c]9×10^4	Y	Y	

[a] Depth reported is linear feet. Monitor well was drilled at an angle of 6 degrees from vertical.

[b] Depth reported is actual feet bgs.

[c] Proposed RCRA Subpart S action levels for soils (55 FR 30865).

[d] Action level based on toxicity information contained in the IRIS database or the HEAST and a HI of 1. The soil ingestion equations provided in Subpart S (55 FR 30870) were used to calculate the action levels.

[e] Guidance on Evaluation, Resolution, and Documentation of Analytical Problems Associated with Compliance Monitoring, EPA 821-B-93-001, February 1993.

ug/kg - micrograms per kilogram

ug/L - micrograms per liter

ND - No volatile organic compound was detected above instrument method detection limits.

J - Concentration of the compound in the sample was below the Reporting Limit but above the Detection Limit.

dup - Duplicate sample

NS - No samples were collected for VOC analysis at this depth

APPENDIX G

MW-4 SVOC Analytical Results

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Appendix G MW-4 SVOC Analytical Results

Sample Number	Sample Depth[a] (linear ft)	True Sample Depth[b] (ft bgs)	Compound	Concentration (ug/kg)	Action Level (ug/kg)	Below Action Level	Eliminated Based on 10x Rule[e]	Comments
ER92003639-3	10	10	N-nitrosodiphenylamine	43 J	[c]1×10^{5}	Y	N	
			Bis(2-ethylhexyl) phthalate	96 J	[c]5×10^{4}	Y	N	
ER92003639-3	10 dup	10 dup	Bis(2-ethylhexyl) phthalate	90 J	[c]5×10^{4}	Y	N	
ER92003643-3	20	20	N-nitrosodiphenylamine	37 J	[c]1×10^{5}	Y	N	
			Bis(2-ethylhexyl) phthalate	380	[c]5×10^{4}	Y	N	
ER92003646-3	30	30	N-nitrosodiphenylamine	36 J	[c]1×10^{5}	Y	N	
			Bis(2-ethylhexyl) phthalate	140 J	[c]5×10^{4}	Y	N	
ER92003646-3	30 dup	30 dup	N-nitrosodiphenylamine	37 J	[c]1×10^{5}	Y	N	
			Bis(2-ethylhexyl) phthalate	130 J	[c]5×10^{4}	Y	N	
ER92003649-3	41	41	Bis(2-ethylhexyl) phthalate	460	[c]5×10^{4}	Y	N	
ER92003652-3	50	50	Bis(2-ethylhexyl) phthalate	160 J	[c]5×10^{4}	Y	N	
ER92003655-3	70	70	N-nitrosodiphenylamine	65 J	[c]1×10^{5}	Y	N	
			Bis(2-ethylhexyl) phthalate	340	[c]5×10^{4}	Y	N	
ER92004042-2	78	78	N-nitrosodiphenylamine	49 J	[c]1×10^{5}	Y	N	
			Bis(2-ethylhexyl) phthalate	330 J	[c]5×10^{4}	Y	N	
ER92004043-2	89	89	Phenol	39 J	[c]5×10^{7}	Y	N	
			N-nitrosodiphenylamine	69 J	[c]1×10^{5}	Y	N	
			Di-n-butyl phthalate	73 J	[c]8×10^{6}	Y	N	
			Bis(2-ethylhexyl) phthalate	2600	[c]5×10^{4}	Y	N	
ER92004031-2	100	99	N-nitrosodiphenylamine	37 J	[c]1×10^{5}	Y	N	Diethyl phthalate and N-nitrosodiphenylamine present in the equipment blank at 9.5 J ug/L and 1.6 ug/L (sample # ER92004032-2).
ER92004033-2	121	120	Bis(2-ethylhexyl) phthalate	65 J	[c]5×10^{4}	Y	N	
ER92004036-2	140	139	ND	-	-	-	-	
ER92004037-2	160	159	Benzoic Acid	68 J	[d]3×10^{8}	Y	N	
			N-nitrosodiphenylamine	74 J	[c]1×10^{5}	Y	N	
			Di-n-butyl phthalate	73 J	[c]8×10^{6}	Y	N	
			Bis(2-ethylhexyl) phthalate	2000	[c]5×10^{4}	Y	N	
ER92004040-2	180	179	Phenol	460	[c]5×10^{7}	Y	N	Di-n-butyl phthalate present in the laboratory method blank at 44 J ug/kg.
			Di-n-butyl phthalate	36 J	[c]8×10^{6}	Y	Y	
			Bis(2-ethylhexyl) phthalate	880	[c]5×10^{4}	Y	N	

Appendix G MW-4 SVOC Analytical Results

Sample Number	Sample Depth[a] (linear ft)	True Sample Depth[b] (ft bgs)	Compound	Concentration (ug/kg)	Action Level (ug/kg)	Below Action Level	Eliminated Based on 10x Rule[e]	Comments
ER92004041-2	200	199	Phenol	98 J	[c] 5×10^{7}	Y	N	
			Bis(2-ethylhexyl) phthalate	240 J	[c] 5×10^{4}	Y	N	
ER92004030-2	200 dup	199 dup	Phenol	140 J	[c] 5×10^{7}	Y	N	
			Bis(2-ethylhexyl) phthalate	2900	[c] 5×10^{4}	Y	N	
			Di-n-octyl phthalate	130 J	[d] 1.6×10^{6}	Y	N	
ER92004027-2	250	249	ND	-	-	-	-	
ER92004025-2	294	292	Phenol	240 J	[c] 5×10^{7}	Y	N	
			Benzoic Acid	60 J	[d] 3×10^{8}	Y	N	
			Bis(2-ethylhexyl) phthalate	1600	[c] 5×10^{4}	Y	N	
			Di-n-octyl phthalate	110 J	[d] 1.6×10^{6}	Y	N	
			Di-n-butyl phthalate	80 J	[c] 8×10^{6}	Y	N	
ER92004024-2	294 dup	292 dup	Benzoic Acid	35 J	[d] 3×10^{8}	Y	N	
			Bis(2-ethylhexyl) phthalate	260 J	[c] 5×10^{4}	Y	N	
ER92004181-2	353	351	Bis(2-ethylhexyl) phthalate	170 J	[c] 5×10^{4}	Y	N	
ER92004183-2	400	398	Bis(2-ethylhexyl) phthalate	70 J	[c] 5×10^{4}	Y	N	
ER92004180-2	447	445	N-nitrosodiphenylamine	55 J	[c] 1×10^{5}	Y	N	
			Bis(2-ethylhexyl) phthalate	140 J	[c] 5×10^{4}	Y	N	
ER92004347-2	486	483	ND	-	-	-	-	
ER92004348-2	499	496	ND	-	-	-	-	
ER92004342-2	546	543	Bis(2-ethylhexyl) phthalate	36 J	[c] 5×10^{4}	Y	N	

[a] Depth reported is linear feet. Monitoring well was drilled at an angle of 6 degrees from vertical.

[b] Depth reported is actual feet bgs.

[c] Proposed RCRA Subpart S action levels for soils (55 FR 30865).

[d] Action level based on toxicity information contained in the IRIS database or the HEAST and a HI of 1. The soil ingestion equations provided in Subpart S (55 FR 30870) were used to calculate the action levels.

[e] Guidance on Evaluation, Resolution, and Documentation of Analytical Problems Associated with Compliance Monitoring, EPA 821-B-93-001, February 1993.

ug/kg - micrograms per kilogram

ug/L - micrograms per liter

ND - No semivolatile organic compound was detected above instrument method detection limits.

J - Concentration of the compound in the sample was below the Reporting Limit but above the Detection Limit.

dup - Duplicate sample

APPENDIX H

MW-4 TAL Metals Analytical Results

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Appendix H MW-4 TAL Metals Analytical Results

Sample Number	Sample Depth[a] (linear ft)	True Sample Depth[b] (ft bgs)	Hg (mg/kg)	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Ca (mg/kg)	Cd (mg/kg)
ER92003639-3	10	10	0.019	0.44	4050	2.7	113	0.28	28900	0.69
ER92003639-3	10 dup	10 dup	0.019	0.3	4030	2.7	138	0.32	35000	0.81
ER92003643-3	20	20	0.019	0.63	4570	2.4	77.1	0.33	29900	0.15
ER92003646-3	30	30	0.019	0.73	3920	2.7	120	0.26	42600	0.15
ER92003646-3	30 dup	30 dup	0.019	0.48	4100	2.5	121	0.19	34300	0.15
ER92003649-3	41	41	0.019	0.3	4640	1.8	83.4	0.32	67100	0.15
ER92003652-3	50	50	0.019	0.3	3420	2	119	0.33	61200	0.66
ER92003655-3	70	70	0.019	0.3	2950	2.4	33.7	0.22	74200	0.15
ER92004042-2	78	78	0.019	0.41	4080	2.6	46.7	0.33	39800	0.15
ER92004043-2	89	89	0.019	0.3	4760	3.8	70.1	0.32	45100	0.15
ER92004031-2	100	99	0.019	0.3	3440	1.9	53.8	0.05	32300	0.15
ER92004033-2	121	120	0.019	0.3	2710	2	31.2	0.05	31100	0.15
ER92004036-2	140	139	0.019	0.3	6880	3.4	48.6	0.38	28700	0.15
ER92004037-2	160	159	0.019	0.3	5690	3.6	43.8	0.35	26300	0.15
ER92004040-2	180	179	0.1	0.3	6520	2.7	85.7	0.41	43900	0.15
ER92004041-2	200	199	0.019	0.3	4570	1.6	52.7	0.33	56900	0.15
ER92004030-2	200 dup	199 dup	0.019	0.3	7380	1.8	60.7	0.34	118000	0.15
ER92004027-2	250	249	0.019	0.3	12400	4.8	74.1	0.96	55000	0.15
ER92004025-2	294	292	0.12	0.3	9720	2.5	159	0.64	35100	0.15
ER92004024-2	294 dup	292 dup	0.019	0.3	8450	2.8	94.2	0.71	18700	0.15
ER92004181-2	353	351	0.019	0.3	11200	1.7	147	0.85	42500	0.15
ER92004183-2	400	398	0.019	0.3	8970	2	70.4	0.55	17000	0.15
ER92004180-2	447	445	0.019	0.3	9820	1	225	0.94	28300	0.31
ER92004347-2	486	483	0.019	0.3	5800	2.4	97.2	0.69	28800	0.17
ER92004348-2	499	496	0.019	0.3	11800	4.5	74.4	1	67200	0.15
ER92004342-2	546	543	0.019	0.3	15900	3.6	94.6	1.1	44200	0.15

Appendix H MW-4 TAL Metals Analytical Results

Sample Number	Sample Depth[a] (linear ft)	True Sample Depth[b] (ft bgs)	Co (mg/kg)	Cr (mg/kg)	Cu (mg/kg)	Fe (mg/kg)	K (mg/kg)	Mg (mg/kg)	Mn (mg/kg)	Na (mg/kg)
ER92003639-3	10	10	4.5	8.6	8	10900	599	2980	151	183
ER92003639-3	10 dup	10 dup	4.9	34.3	9.2	13200	593	3110	172	153
ER92003643-3	20	20	4.1	13.6	7.3	9030	837	2500	152	413
ER92003646-3	30	30	3.4	10.2	14.1	8180	594	2020	161	276
ER92003646-3	30 dup	30 dup	3.2	9.2	9	8650	573	2120	214	141
ER92003649-3	41	41	4.2	14.8	12.9	9680	684	2880	224	234
ER92003652-3	50	50	3.1	13.7	7.5	8230	441	2470	579	192
ER92003655-3	70	70	3.2	6.7	5.8	8510	443	2540	143	1.15
ER92004042-2	78	78	2.9	5.9	3.9	7270	754	2240	108	256
ER92004043-2	89	89	4.7	9.3	9.4	10300	639	3250	187	248
ER92004031-2	100	99	3	5.6	5.5	7550	595	2220	136	1.15
ER92004033-2	121	120	3.4	5.6	6.7	6830	35.1	1990	125	1.15
ER92004036-2	140	139	5.5	13.2	10.3	13400	1190	3820	229	1.15
ER92004037-2	160	159	4.3	13.6	8.6	11900	1030	3160	197	1.15
ER92004040-2	180	179	3.7	23.5	9.4	11300	1150	3430	224	178
ER92004041-2	200	199	2.1	14.1	5.4	6920	698	2470	151	1.15
ER92004030-2	200 dup	199 dup	0.25	10	7.4	12000	520	5120	282	1.15
ER92004027-2	250	249	7.5	11.9	15.7	15700	2530	6630	375	201
ER92004025-2	294	292	6.4	25.9	11.5	14000	1970	4270	302	178
ER92004024-2	294 dup	292 dup	7.4	13.8	11.3	12600	1610	4310	408	176
ER92004181-2	353	351	6.5	13.4	12.2	12600	2550	5780	330	179
ER92004183-2	400	398	4	9.9	6.5	11200	1830	4130	227	1.15
ER92004180-2	447	445	6.5	17.9	12	13200	2350	4750	377	253
ER92004347-2	486	483	6	11.4	10.9	10800	1420	3550	297	1.15
ER92004348-2	499	496	8.3	13.8	12.4	14700	2130	7640	332	1.15
ER92004342-2	546	543	8.9	14.1	15.9	16600	3480	7630	477	1.15

Appendix H MW-4 TAL Metals Analytical Results

Sample Number	Sample Depth[a] (linear ft)	True Sample Depth[b] (ft bgs)	Ni (mg/kg)	Pb (mg/kg)	Sb (mg/kg)	Se (mg/kg)	Tl (mg/kg)	V (mg/kg)	Zn (mg/kg)
ER92003639-3	10	10	6.5	4.3	3.65	0.0363	0.0379	18.5	31.2
ER92003639-3	10 dup	10 dup	7.7	3.8	3.65	0.0363	0.0267	17.1	30.6
ER92003643-3	20	20	6.8	3.6	3.65	0.27	0.0379	14.2	24.6
ER92003646-3	30	30	5.3	3.3	3.65	0.49	0.0379	12.7	65.9
ER92003646-3	30 dup	30 dup	6.1	3.6	3.65	0.57	0.0379	12.8	66.8
ER92003649-3	41	41	8.7	3.6	3.65	0.0363	0.0267	17.5	68.9
ER92003652-3	50	50	5.5	3.9	3.65	0.0363	0.0267	13.8	26.9
ER92003655-3	70	70	4.7	3.3	3.65	0.61	0.0379	13.4	21.9
ER92004042-2	78	78	4.1	4	3.65	0.34	0.0379	11.7	16.7
ER92004043-2	89	89	9	6	3.65	0.49	0.0379	16.5	69.4
ER92004031-2	100	99	4.9	4.8	3.65	0.25	0.0379	11.8	17.6
ER92004033-2	121	120	4.3	2.9	3.65	0.24	0.0379	11.4	16
ER92004036-2	140	139	10	5.6	3.65	0.39	0.0379	23.1	39.5
ER92004037-2	160	159	7.4	6.2	3.65	0.36	0.0379	19.6	31.5
ER92004040-2	180	179	9.6	5	2.8	0.063	0.0379	17.8	34.2
ER92004041-2	200	199	6.7	3.7	5.5	0.063	0.0379	11.8	30.8
ER92004030-2	200 dup	199 dup	11.7	4.2	5.8	0.063	0.0379	14	19.4
ER92004027-2	250	249	15.6	12.2	3.65	0.063	0.0379	23.9	47.4
ER92004025-2	294	292	11	8.1	3.65	0.063	0.0379	22	51.7
ER92004024-2	294 dup	292 dup	11.9	13.2	3.65	0.063	0.0379	21.6	43.7
ER92004181-2	353	351	10.7	8.9	3.65	0.063	0.0379	21.4	39.4
ER92004183-2	400	398	7.3	5.8	4.8	0.063	0.0379	19.9	31.5
ER92004180-2	447	445	13.6	10.7	3.65	0.063	0.0379	20.9	41.6
ER92004347-2	486	483	9.8	6.6	0.74	0.063	0.0379	20.6	30.8
ER92004348-2	499	496	14.4	10	3.65	0.1	0.0379	23.2	42.3
ER92004342-2	546	543	14.2	11.9	3.65	0.063	0.0379	25.7	48.8

[a] Depth reported is linear feet. Monitoring well was drilled at an angle of 6 degrees from vertical.

[b] Depth reported is actual feet bgs.

mg/kg - milligrams per kilogram

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APPENDIX I

MWL Groundwater Major Ion Chemistry Data

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Appendix I
MWL Groundwater Major Ion Chemistry Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
ALKALINITY AS CACO3	MWL-BW1	SNL0201107	10-NOV-93	229		5	F
ALKALINITY AS CACO3	MWL-BW1	SNL0201477	27-OCT-94	217		5	F
ALKALINITY AS CACO3	MWL-BW1	SNL0201492	27-OCT-94	216		5	F
ALKALINITY AS CACO3	MWL-BW1	026461-06	23-OCT-95	229		1	SA
ALKALINITY AS CACO3	MWL-BW1-D	SNL0201126	10-NOV-93	229		5	F
ALKALINITY AS CACO3	MWL-BW1-EB	SNL0201263	27-APR-94	5	U	5	F
ALKALINITY AS CACO3	MWL-BW1-EB	SNL0201461	26-OCT-94	5	U	5	F
ALKALINITY AS CACO3	MWL-MW1	SNL0201069	09-NOV-93	211		5	F
ALKALINITY AS CACO3	MWL-MW1	SNL0201316	03-MAY-94	223		5	F
ALKALINITY AS CACO3	MWL-MW1	SNL0201431	25-OCT-94	204		5	F
ALKALINITY AS CACO3	MWL-MW1	SNL0201447	25-OCT-94	207		5	F
ALKALINITY AS CACO3	MWL-MW1	026464-06	20-OCT-95	234		1	SA
ALKALINITY AS CACO3	MWL-MW1-D	SNL0201298	04-MAY-94	222		5	F
ALKALINITY AS CACO3	MWL-MW1-EB	SNL0201216	26-APR-94	5	U	5	F
ALKALINITY AS CACO3	MWL-MW2	SNL0201050	08-NOV-93	208		5	F
ALKALINITY AS CACO3	MWL-MW2	SNL0201280	02-MAY-94	203		5	F
ALKALINITY AS CACO3	MWL-MW2	SNL0201399	24-OCT-94	185		5	F
ALKALINITY AS CACO3	MWL-MW2-EB	SNL0201232	27-APR-94	5	U	5	F
ALKALINITY AS CACO3	MWL-MW2-EB	SNL0201383	19-OCT-94	5	U	5	F
ALKALINITY AS CACO3	MWL-MW3	SNL0201088	09-NOV-93	193		5	F
ALKALINITY AS CACO3	MWL-MW3	SNL0201334	03-MAY-94	180		5	F
ALKALINITY AS CACO3	MWL-MW3	SNL0201415	25-OCT-94	177		5	F
ALKALINITY AS CACO3	MWL-MW3	026458-06	16-OCT-95	191		1	SA
ALKALINITY AS CACO3	MWL-MW3-EB	SNL0201248	27-APR-94	5	U	5	F
ALKALINITY AS CACO3	MWL-MW3-EB	SNL0201367	17-OCT-94	5	U	5	F
ALKALINITY AS CACO3	MWL-MW4	SNL0201350	31-MAY-94	221		5	F
ALKALINITY AS CACO3	MWL-MW4	SNL0201507	28-OCT-94	234		5	F
ALKALINITY AS CACO3	MWL-MW4	026465-06	20-OCT-95	257		1	SA
ALKALINITY AS CACO3	MWL-MW4	026466-06	20-OCT-95	276		1	DU
ALKALINITY AS CACO3	MWL-MW4-EB	SNL0201165	11-NOV-93	5	U	5	F
ALKALINITY AS CACO3	MWL-MW4C	SNL0201145	11-NOV-93	218		5	F
ALKALINITY AS CACO3	MWL-MW4L	SNL0201192	14-MAR-94	296		5	F
CALCIUM	MWL-BW1	SNL0200782	29-JUL-92	52.5		0.2	F
CALCIUM	MWL-BW1	SNL0200788	29-JUL-92	52.4		0.2	F
CALCIUM	MWL-BW1	SNL0200863	20-JAN-93	53.9		0.2	F
CALCIUM	MWL-BW1	SNL0200873	20-JAN-93	55.1		0.2	D
CALCIUM	MWL-BW1	SNL0200992	28-APR-93	46.6		0.2	F
CALCIUM	MWL-BW1	SNL0200998	28-APR-93	48		0.2	F
CALCIUM	MWL-BW1	SNL0201120	10-NOV-93	54.1		0.2	F
CALCIUM	MWL-BW1	SNL0201480	27-OCT-94	55.8		0.2	F
CALCIUM	MWL-BW1	SNL0201495	27-OCT-94	54.7		0.2	F
CALCIUM	MWL-BW1	026461-07	23-OCT-95	56.8		0.02	SA
CALCIUM	MWL-BW1-D	SNL0200800	29-JUL-92	51.2		0.2	F
CALCIUM	MWL-BW1-D	SNL0200806	29-JUL-92	51.5		0.2	F
CALCIUM	MWL-BW1-D	SNL0201139	10-NOV-93	54.7		0.2	F
CALCIUM	MWL-BW1-EB	SNL0200706	23-JUL-92	0.2	U	0.2	F
CALCIUM	MWL-BW1-EB	SNL0200712	23-JUL-92	0.25		0.2	F
CALCIUM	MWL-BW1-EB	SNL0200934	21-APR-93	0.11	J	0.2	EB
CALCIUM	MWL-BW1-EB	SNL0201266	27-APR-94	0.19	J	0.2	F
CALCIUM	MWL-BW1-EB	SNL0201464	26-OCT-94	0.24		0.2	F
CALCIUM	MWL-BW1-FB	SNL0200819	29-JUL-92	0.2	U	0.2	F
CALCIUM	MWL-BW1-FB	SNL0200825	29-JUL-92	0.2	U	0.2	F
CALCIUM	MWL-MW1	SNL0200744	28-JUL-92	55.9		0.2	F
CALCIUM	MWL-MW1	SNL0200750	28-JUL-92	54.7		0.2	F
CALCIUM	MWL-MW1	SNL0200843	19-JAN-93	59.1		0.2	F
CALCIUM	MWL-MW1	SNL0200960	27-APR-93	51.8		0.2	F
CALCIUM	MWL-MW1	SNL0200966	27-APR-93	50.7		0.2	F
CALCIUM	MWL-MW1	SNL0201082	09-NOV-93	57.1		0.2	F
CALCIUM	MWL-MW1	SNL0201320	03-MAY-94	65.1		0.2	F
CALCIUM	MWL-MW1	SNL0201434	25-OCT-94	60.3		0.2	F

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MWL Groundwater Major Ion Chemistry Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
CALCIUM	MWL-MW1	SNL0201450	25-OCT-94	59.6		0.2	F
CALCIUM	MWL-MW1	022149-06	19-APR-95	61.1		0.134	F
CALCIUM	MWL-MW1	026464-07	20-OCT-95	58.6		0.02	SA
CALCIUM	MWL-MW1-D	SNL0201302	04-MAY-94	64.1		0.2	F
CALCIUM	MWL-MW1-EB	SNL0200669	22-JUL-92	0.2	U	0.2	F
CALCIUM	MWL-MW1-EB	SNL0200675	22-JUL-92	0.2	U	0.2	F
CALCIUM	MWL-MW1-EB	SNL0200896	20-APR-93	0.13	J	0.2	EB
CALCIUM	MWL-MW1-EB	SNL0201219	26-APR-94	0.13	J	0.2	F
CALCIUM	MWL-MW2	SNL0200725	27-JUL-92	46.8		0.2	F
CALCIUM	MWL-MW2	SNL0200731	27-JUL-92	47		0.2	F
CALCIUM	MWL-MW2	SNL0200833	18-JAN-93	50.7		0.2	F
CALCIUM	MWL-MW2	SNL0200944	26-APR-93	47.1		0.2	F
CALCIUM	MWL-MW2	SNL0200950	26-APR-93	47		0.2	F
CALCIUM	MWL-MW2	SNL0201063	08-NOV-93	51.3		0.2	F
CALCIUM	MWL-MW2	SNL0201284	02-MAY-94	56.8		0.2	F
CALCIUM	MWL-MW2	SNL0201402	24-OCT-94	54.9		0.2	F
CALCIUM	MWL-MW2	022145-06	17-APR-95	42.8		0.134	F
CALCIUM	MWL-MW2-EB	SNL0200687	22-JUL-92	0.2	U	0.2	F
CALCIUM	MWL-MW2-EB	SNL0200693	22-JUL-92	0.2	U	0.2	F
CALCIUM	MWL-MW2-EB	SNL0200906	20-APR-93	0.093	J	0.2	EB
CALCIUM	MWL-MW2-EB	SNL0201235	27-APR-94	0.2	U	0.2	F
CALCIUM	MWL-MW2-EB	SNL0201386	19-OCT-94	0.095	J	0.2	F
CALCIUM	MWL-MW3	SNL0200762	28-JUL-92	45.3		0.2	F
CALCIUM	MWL-MW3	SNL0200768	28-JUL-92	43.7		0.2	F
CALCIUM	MWL-MW3	SNL0200853	19-JAN-93	48.6		0.2	F
CALCIUM	MWL-MW3	SNL0200976	27-APR-93	42.1		0.2	F
CALCIUM	MWL-MW3	SNL0200982	27-APR-93	40.5		0.2	F
CALCIUM	MWL-MW3	SNL0201101	09-NOV-93	44.2		0.2	F
CALCIUM	MWL-MW3	SNL0201338	03-MAY-94	49.1		0.2	F
CALCIUM	MWL-MW3	SNL0201418	25-OCT-94	48.2		0.2	F
CALCIUM	MWL-MW3	022147-06	17-APR-95	39.2		0.134	F
CALCIUM	MWL-MW3	026458-07	16-OCT-95	45.7		0.02	SA
CALCIUM	MWL-MW3-EB	SNL0200650	21-JUL-92	0.43		0.2	F
CALCIUM	MWL-MW3-EB	SNL0200656	21-JUL-92	0.3		0.2	F
CALCIUM	MWL-MW3-EB	SNL0200924	21-APR-93	0.062	J	0.2	EB
CALCIUM	MWL-MW3-EB	SNL0201251	27-APR-94	0.53		0.2	F
CALCIUM	MWL-MW3-EB	SNL0201370	17-OCT-94	0.12	J	0.2	F
CALCIUM	MWL-MW4	SNL0201354	31-MAY-94	57.4	B	0.2	F
CALCIUM	MWL-MW4	SNL0201510	28-OCT-94	59.7		0.2	F
CALCIUM	MWL-MW4	022150-06	19-APR-95	68.7		0.134	F
CALCIUM	MWL-MW4	022151-06	19-APR-95	65.5		0.134	F
CALCIUM	MWL-MW4	026465-07	20-OCT-95	61.1		0.02	SA
CALCIUM	MWL-MW4	026466-07	20-OCT-95	62.9		0.02	DU
CALCIUM	MWL-MW4-D	SNL0201008	28-APR-93	47.8		0.2	D
CALCIUM	MWL-MW4-D	SNL0201014	28-APR-93	48.5		0.2	D
CALCIUM	MWL-MW4-EB	SNL0201040	03-MAY-93	0.27		0.2	EB
CALCIUM	MWL-MW4-EB	SNL0201178	11-NOV-93	0.2	U	0.2	F
CALCIUM	MWL-MW4C	SNL0201024	30-APR-93	52.1		0.2	F
CALCIUM	MWL-MW4C	SNL0201030	30-APR-93	54.4		0.2	F
CALCIUM	MWL-MW4C	SNL0201158	11-NOV-93	55.4		0.2	F
CALCIUM	MWL-MW4L	SNL0201199	14-MAR-94	83		0.2	F
CHLORIDE	MWL-BW1	SNL0200028	27-SEP-90	28.8		3	F
CHLORIDE	MWL-BW1	SNL0200116	24-JAN-91	26.4		3	F
CHLORIDE	MWL-BW1	SNL0200295	07-MAY-91	26.7		3	F
CHLORIDE	MWL-BW1	SNL0200417	06-AUG-91	26.7		3	F
CHLORIDE	MWL-BW1	SNL0200580	16-OCT-91	27.4		3	F
CHLORIDE	MWL-BW1	SNL0200776	29-JUL-92	26.5		3	F
CHLORIDE	MWL-BW1	SNL0200862	20-JAN-93	4.6		3	F
CHLORIDE	MWL-BW1	SNL0200872	20-JAN-93	4.6		3	D
CHLORIDE	MWL-BW1	SNL0200991	28-APR-93	27.6		3	F
CHLORIDE	MWL-BW1	SNL0201106	10-NOV-93	26.4		3	F
CHLORIDE	MWL-BW1	SNL0201476	27-OCT-94	25.6		3	F

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MWL Groundwater Major Ion Chemistry Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
CHLORIDE	MWL-BW1	SNL0201491	27-OCT-94	25.3		3	F
CHLORIDE	MWL-BW1	026461-06	23-OCT-95	24.8		0.64	SA
CHLORIDE	MWL-BW1-D	SNL0200046	27-SEP-90	28.1		3	F
CHLORIDE	MWL-BW1-D	SNL0200154	24-JAN-91	27.9		3	F
CHLORIDE	MWL-BW1-D	SNL0200331	07-MAY-91	26.8		3	F
CHLORIDE	MWL-BW1-D	SNL0200434	06-AUG-91	27.9		3	F
CHLORIDE	MWL-BW1-D	SNL0200598	16-OCT-91	27.8		3	F
CHLORIDE	MWL-BW1-D	SNL0200794	29-JUL-92	26.2		3	F
CHLORIDE	MWL-BW1-D	SNL0201125	10-NOV-93	26.4		3	F
CHLORIDE	MWL-BW1-EB	SNL0200508	09-OCT-91	3	U	3	F
CHLORIDE	MWL-BW1-EB	SNL0200700	23-JUL-92	3	U	3	F
CHLORIDE	MWL-BW1-EB	SNL0200933	21-APR-93	3	U	3	EB
CHLORIDE	MWL-BW1-EB	SNL0201262	27-APR-94	1	U	1	F
CHLORIDE	MWL-BW1-EB	SNL0201460	26-OCT-94	3	U	3	F
CHLORIDE	MWL-BW1-FB	SNL0200616	16-OCT-91	3	U	3	F
CHLORIDE	MWL-BW1-FB	SNL0200813	29-JUL-92	3	U	3	F
CHLORIDE	MWL-FB	SNL0200211	28-JAN-91	3	U	3	F
CHLORIDE	MWL-FB	SNL0200271	02-MAY-91	3		3	F
CHLORIDE	MWL-FB	SNL0200383	01-AUG-91	3	U	3	F
CHLORIDE	MWL-MW1	SNL0200135	24-JAN-91	29.9		3	F
CHLORIDE	MWL-MW1	SNL0200313	07-MAY-91	28.5		3	F
CHLORIDE	MWL-MW1	SNL0200337	31-JUL-91	28.2		3	F
CHLORIDE	MWL-MW1	SNL0200562	15-OCT-91	28.2		3	F
CHLORIDE	MWL-MW1	SNL0200738	28-JUL-92	28.5		3	F
CHLORIDE	MWL-MW1	SNL0200842	19-JAN-93	4.9		3	F
CHLORIDE	MWL-MW1	SNL0200959	27-APR-93	29.5		3	F
CHLORIDE	MWL-MW1	SNL0201068	09-NOV-93	29.1		3	F
CHLORIDE	MWL-MW1	SNL0201315	03-MAY-94	29.9		1	F
CHLORIDE	MWL-MW1	SNL0201430	25-OCT-94	30.7		3	F
CHLORIDE	MWL-MW1	SNL0201446	25-OCT-94	30		3	F
CHLORIDE	MWL-MW1	026464-06	20-OCT-95	29.5		0.64	SA
CHLORIDE	MWL-MW1-D	SNL0201297	04-MAY-94	29.4		1	F
CHLORIDE	MWL-MW1-EB	SNL0200472	08-OCT-91	3	U	3	F
CHLORIDE	MWL-MW1-EB	SNL0200663	22-JUL-92	3	U	3	F
CHLORIDE	MWL-MW1-EB	SNL0200895	20-APR-93	3	U	3	EB
CHLORIDE	MWL-MW1-EB	SNL0201215	26-APR-94	0.53		0.5	F
CHLORIDE	MWL-MW2	SNL0200098	28-SEP-90	32.8		3	F
CHLORIDE	MWL-MW2	SNL0200173	28-JAN-91	32.2		3	F
CHLORIDE	MWL-MW2	SNL0200235	02-MAY-91	36.5		3	F
CHLORIDE	MWL-MW2	SNL0200366	01-AUG-91	31.9		3	F
CHLORIDE	MWL-MW2	SNL0200526	14-OCT-91	32.1		3	F
CHLORIDE	MWL-MW2	SNL0200719	27-JUL-92	30.7		3	F
CHLORIDE	MWL-MW2	SNL0200832	18-JAN-93	5.2		3	F
CHLORIDE	MWL-MW2	SNL0200943	26-APR-93	31.9		3	F
CHLORIDE	MWL-MW2	SNL0201049	08-NOV-93	30.2		3	F
CHLORIDE	MWL-MW2	SNL0201279	02-MAY-94	30.6		1	F
CHLORIDE	MWL-MW2	SNL0201398	24-OCT-94	30.8		3	F
CHLORIDE	MWL-MW2-EB	SNL0200454	07-OCT-91	3	U	3	F
CHLORIDE	MWL-MW2-EB	SNL0200681	22-JUL-92	3	U	3	F
CHLORIDE	MWL-MW2-EB	SNL0200905	20-APR-93	3	U	3	EB
CHLORIDE	MWL-MW2-EB	SNL0201231	27-APR-94	1	U	1	F
CHLORIDE	MWL-MW2-EB	SNL0201382	19-OCT-94	3	U	3	F
CHLORIDE	MWL-MW3	SNL0200073	28-SEP-90	28.1		3	F
CHLORIDE	MWL-MW3	SNL0200192	28-JAN-91	29.9		3	F
CHLORIDE	MWL-MW3	SNL0200253	02-MAY-91	31.9		3	F
CHLORIDE	MWL-MW3	SNL0200400	05-AUG-91	30.6		3	F
CHLORIDE	MWL-MW3	SNL0200544	15-OCT-91	31.1		3	F
CHLORIDE	MWL-MW3	SNL0200756	28-JUL-92	37.8		3	F
CHLORIDE	MWL-MW3	SNL0200852	19-JAN-93	5.4		3	F
CHLORIDE	MWL-MW3	SNL0200975	27-APR-93	33.4		3	F
CHLORIDE	MWL-MW3	SNL0201087	09-NOV-93	32.2		3	F
CHLORIDE	MWL-MW3	SNL0201333	03-MAY-94	32.5		1	F

Appendix I
MWL Groundwater Major Ion Chemistry Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
CHLORIDE	MWL-MW3	SNL0201414	25-OCT-94	32.7		3	F
CHLORIDE	MWL-MW3	026458-06	16-OCT-95	31.5		0.32	SA
CHLORIDE	MWL-MW3-EB	SNL0200490	09-OCT-91	3	U	3	F
CHLORIDE	MWL-MW3-EB	SNL0200644	21-JUL-92	3	U	3	F
CHLORIDE	MWL-MW3-EB	SNL0200923	21-APR-93	3	U	3	EB
CHLORIDE	MWL-MW3-EB	SNL0201247	27-APR-94	1	U	1	F
CHLORIDE	MWL-MW3-EB	SNL0201366	17-OCT-94	3	U	3	F
CHLORIDE	MWL-MW4	SNL0201349	31-MAY-94	55		1	F
CHLORIDE	MWL-MW4	SNL0201506	28-OCT-94	57.4		3	F
CHLORIDE	MWL-MW4	026465-06	20-OCT-95	56.2		0.64	SA
CHLORIDE	MWL-MW4	026466-06	20-OCT-95	55.6		0.64	DU
CHLORIDE	MWL-MW4-D	SNL0201007	28-APR-93	27.9		3	D
CHLORIDE	MWL-MW4-EB	SNL0201039	03-MAY-93	3	U	3	EB
CHLORIDE	MWL-MW4-EB	SNL0201164	11-NOV-93	3	U	3	F
CHLORIDE	MWL-MW4C	SNL0201023	30-APR-93	61.2		3	F
CHLORIDE	MWL-MW4C	SNL0201144	11-NOV-93	59.1		3	F
CHLORIDE	MWL-MW4L	SNL0201191	14-MAR-94	81.9		0.5	F
IRON	MWL-BW1	SNL0200110	24-JAN-91	0.28		0.1	F
IRON	MWL-BW1	SNL0200114	24-JAN-91	0.1	U	0.1	F
IRON	MWL-BW1	SNL0200289	07-MAY-91	0.1	U	0.1	F
IRON	MWL-BW1	SNL0200293	07-MAY-91	0.1	U	0.1	F
IRON	MWL-BW1	SNL0200411	06-AUG-91	0.1	U	0.1	F
IRON	MWL-BW1	SNL0200415	06-AUG-91	0.1	U	0.1	F
IRON	MWL-BW1	SNL0200573	16-OCT-91	0.1	U	0.1	F
IRON	MWL-BW1	SNL0200577	16-OCT-91	0.1	U	0.1	F
IRON	MWL-BW1	SNL0200782	29-JUL-92	0.23		0.1	F
IRON	MWL-BW1	SNL0200788	29-JUL-92	0.1	U	0.1	F
IRON	MWL-BW1	SNL0200863	20-JAN-93	0.058	J	0.1	F
IRON	MWL-BW1	SNL0200873	20-JAN-93	0.09	J	0.1	D
IRON	MWL-BW1	SNL0200992	28-APR-93	0.055	J	0.1	F
IRON	MWL-BW1	SNL0200998	28-APR-93	0.15		0.1	F
IRON	MWL-BW1	SNL0201120	10-NOV-93	0.054	J	0.1	F
IRON	MWL-BW1	SNL0201480	27-OCT-94	0.057	J	0.1	F
IRON	MWL-BW1	SNL0201495	27-OCT-94	0.032	J	0.1	F
IRON	MWL-BW1	026461-07	23-OCT-95	0.321	B	0.0101	SA
IRON	MWL-BW1-D	SNL0200148	24-JAN-91	0.1	U	0.1	F
IRON	MWL-BW1-D	SNL0200152	24-JAN-91	0.1	U	0.1	F
IRON	MWL-BW1-D	SNL0200325	07-MAY-91	0.1		0.1	F
IRON	MWL-BW1-D	SNL0200329	07-MAY-91	0.1	U	0.1	F
IRON	MWL-BW1-D	SNL0200428	06-AUG-91	0.1	U	0.1	F
IRON	MWL-BW1-D	SNL0200432	06-AUG-91	0.1	U	0.1	F
IRON	MWL-BW1-D	SNL0200591	16-OCT-91	0.1	U	0.1	F
IRON	MWL-BW1-D	SNL0200595	16-OCT-91	0.1	U	0.1	F
IRON	MWL-BW1-D	SNL0200800	29-JUL-92	0.1	U	0.1	F
IRON	MWL-BW1-D	SNL0200806	29-JUL-92	0.1	U	0.1	F
IRON	MWL-BW1-D	SNL0201139	10-NOV-93	0.041	J	0.1	F
IRON	MWL-BW1-EB	SNL0200501	09-OCT-91	0.1	U	0.1	F
IRON	MWL-BW1-EB	SNL0200505	09-OCT-91	0.1	U	0.1	F
IRON	MWL-BW1-EB	SNL0200706	23-JUL-92	0.1	U	0.1	F
IRON	MWL-BW1-EB	SNL0200712	23-JUL-92	0.12		0.1	F
IRON	MWL-BW1-EB	SNL0200934	21-APR-93	0.1	U	0.1	EB
IRON	MWL-BW1-EB	SNL0201266	27-APR-94	0.035	J	0.1	F
IRON	MWL-BW1-EB	SNL0201464	26-OCT-94	0.1	U	0.1	F
IRON	MWL-BW1-FB	SNL0200609	16-OCT-91	0.1	U	0.1	F
IRON	MWL-BW1-FB	SNL0200613	16-OCT-91	0.1	U	0.1	F
IRON	MWL-BW1-FB	SNL0200819	29-JUL-92	0.1	U	0.1	F
IRON	MWL-BW1-FB	SNL0200825	29-JUL-92	0.1	U	0.1	F
IRON	MWL-FB	SNL0200205	28-JAN-91	0.1	U	0.1	F
IRON	MWL-FB	SNL0200209	28-JAN-91	0.1	U	0.1	F
IRON	MWL-FB	SNL0200265	02-MAY-91	0.15		0.1	F
IRON	MWL-FB	SNL0200269	02-MAY-91	0.1	U	0.1	F
IRON	MWL-FB	SNL0200377	01-AUG-91	0.17	U	0.17	F

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MWL Groundwater Major Ion Chemistry Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
IRON	MWL-FB	SNL0200381	01-AUG-91	0.1	U	0.1	F
IRON	MWL-MW1	SNL0200129	24-JAN-91	0.44		0.1	F
IRON	MWL-MW1	SNL0200133	24-JAN-91	0.1	U	0.1	F
IRON	MWL-MW1	SNL0200307	07-MAY-91	0.76		0.1	F
IRON	MWL-MW1	SNL0200311	07-MAY-91	0.1	U	0.1	F
IRON	MWL-MW1	SNL0200345	31-JUL-91	0.71		0.17	F
IRON	MWL-MW1	SNL0200349	31-JUL-91	0.1	U	0.1	F
IRON	MWL-MW1	SNL0200555	15-OCT-91	0.49		0.1	F
IRON	MWL-MW1	SNL0200559	15-OCT-91	0.1	U	0.1	F
IRON	MWL-MW1	SNL0200744	28-JUL-92	0.19		0.1	F
IRON	MWL-MW1	SNL0200750	28-JUL-92	0.1	U	0.1	F
IRON	MWL-MW1	SNL0200843	19-JAN-93	0.09	J	0.1	F
IRON	MWL-MW1	SNL0200960	27-APR-93	0.1	U	0.1	F
IRON	MWL-MW1	SNL0200966	27-APR-93	0.1	U	0.1	F
IRON	MWL-MW1	SNL0201082	09-NOV-93	0.22		0.1	F
IRON	MWL-MW1	SNL0201320	03-MAY-94	0.11		0.1	F
IRON	MWL-MW1	SNL0201434	25-OCT-94	0.058	J	0.1	F
IRON	MWL-MW1	SNL0201450	25-OCT-94	0.1	U	0.1	F
IRON	MWL-MW1	022149-06	19-APR-95	0.094	J	0.026	F
IRON	MWL-MW1	026464-07	20-OCT-95	0.565	B	0.0101	SA
IRON	MWL-MW1-D	SNL0201302	04-MAY-94	0.048	J	0.1	F
IRON	MWL-MW1-EB	SNL0200465	08-OCT-91	0.1	U	0.1	F
IRON	MWL-MW1-EB	SNL0200469	08-OCT-91	0.1	U	0.1	F
IRON	MWL-MW1-EB	SNL0200669	22-JUL-92	0.1	U	0.1	F
IRON	MWL-MW1-EB	SNL0200675	22-JUL-92	0.1	U	0.1	F
IRON	MWL-MW1-EB	SNL0200896	20-APR-93	0.1	U	0.1	EB
IRON	MWL-MW1-EB	SNL0201219	26-APR-94	0.1	U	0.1	F
IRON	MWL-MW2	SNL0200167	28-JAN-91	0.85		0.1	F
IRON	MWL-MW2	SNL0200171	28-JAN-91	0.1	U	0.1	F
IRON	MWL-MW2	SNL0200229	02-MAY-91	0.2		0.1	F
IRON	MWL-MW2	SNL0200233	02-MAY-91	0.1	U	0.1	F
IRON	MWL-MW2	SNL0200360	01-AUG-91	0.17	U	0.17	F
IRON	MWL-MW2	SNL0200364	01-AUG-91	0.1	U	0.1	F
IRON	MWL-MW2	SNL0200519	14-OCT-91	0.12		0.1	F
IRON	MWL-MW2	SNL0200523	14-OCT-91	0.1	U	0.1	F
IRON	MWL-MW2	SNL0200725	27-JUL-92	0.1		0.1	F
IRON	MWL-MW2	SNL0200731	27-JUL-92	0.1	U	0.1	F
IRON	MWL-MW2	SNL0200833	18-JAN-93	0.045	J	0.1	F
IRON	MWL-MW2	SNL0200944	26-APR-93	0.1	U	0.1	F
IRON	MWL-MW2	SNL0200950	26-APR-93	0.1	U	0.1	F
IRON	MWL-MW2	SNL0201063	08-NOV-93	0.1	U	0.1	F
IRON	MWL-MW2	SNL0201284	02-MAY-94	0.048	J	0.1	F
IRON	MWL-MW2	SNL0201402	24-OCT-94	0.1	U	0.1	F
IRON	MWL-MW2	022145-06	17-APR-95	0.024	J	0.026	F
IRON	MWL-MW2-EB	SNL0200447	07-OCT-91	0.1	U	0.1	F
IRON	MWL-MW2-EB	SNL0200451	07-OCT-91	0.1	U	0.1	F
IRON	MWL-MW2-EB	SNL0200687	22-JUL-92	0.1	U	0.1	F
IRON	MWL-MW2-EB	SNL0200693	22-JUL-92	0.1	U	0.1	F
IRON	MWL-MW2-EB	SNL0200906	20-APR-93	0.1	U	0.1	EB
IRON	MWL-MW2-EB	SNL0201235	27-APR-94	0.1	U	0.1	F
IRON	MWL-MW2-EB	SNL0201386	19-OCT-94	0.1	U	0.1	F
IRON	MWL-MW3	SNL0200186	28-JAN-91	0.1	U	0.1	F
IRON	MWL-MW3	SNL0200190	28-JAN-91	0.1	U	0.1	F
IRON	MWL-MW3	SNL0200247	02-MAY-91	0.24		0.1	F
IRON	MWL-MW3	SNL0200251	02-MAY-91	0.1	U	0.1	F
IRON	MWL-MW3	SNL0200394	05-AUG-91	0.25		0.11	F
IRON	MWL-MW3	SNL0200398	05-AUG-91	0.1		0.1	F
IRON	MWL-MW3	SNL0200537	15-OCT-91	0.14		0.1	F
IRON	MWL-MW3	SNL0200541	15-OCT-91	0.1	U	0.1	F
IRON	MWL-MW3	SNL0200762	28-JUL-92	1.3		0.1	F
IRON	MWL-MW3	SNL0200768	28-JUL-92	0.1	U	0.1	F
IRON	MWL-MW3	SNL0200853	19-JAN-93	0.37		0.1	F

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Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
IRON	MWL-MW3	SNL0200976	27-APR-93	0.38		0.1	F
IRON	MWL-MW3	SNL0200982	27-APR-93	0.033	J	0.1	F
IRON	MWL-MW3	SNL0201101	09-NOV-93	0.12		0.1	F
IRON	MWL-MW3	SNL0201338	03-MAY-94	0.25		0.1	F
IRON	MWL-MW3	SNL0201418	25-OCT-94	0.078	J	0.1	F
IRON	MWL-MW3	022147-06	17-APR-95	0.071	J	0.026	F
IRON	MWL-MW3	026458-07	16-OCT-95	0.266		0.0101	SA
IRON	MWL-MW3-EB	SNL0200483	09-OCT-91	0.1	U	0.1	F
IRON	MWL-MW3-EB	SNL0200487	09-OCT-91	0.1	U	0.1	F
IRON	MWL-MW3-EB	SNL0200650	21-JUL-92	1.6		0.1	F
IRON	MWL-MW3-EB	SNL0200656	21-JUL-92	0.1	U	0.1	F
IRON	MWL-MW3-EB	SNL0200924	21-APR-93	0.1	U	0.1	EB
IRON	MWL-MW3-EB	SNL0201251	27-APR-94	0.032	J	0.1	F
IRON	MWL-MW3-EB	SNL0201370	17-OCT-94	0.041	J	0.1	F
IRON	MWL-MW4	SNL0201354	31-MAY-94	0.036	J	0.1	F
IRON	MWL-MW4	SNL0201510	28-OCT-94	0.15		0.1	F
IRON	MWL-MW4	022150-06	19-APR-95	0.07	J	0.026	F
IRON	MWL-MW4	022151-06	19-APR-95	0.098	J	0.026	F
IRON	MWL-MW4	026465-07	20-OCT-95	0.0134	BJ	0.0101	SA
IRON	MWL-MW4	026466-07	20-OCT-95	0.0161	BJ	0.0101	DU
IRON	MWL-MW4-D	SNL0201008	28-APR-93	0.14		0.1	D
IRON	MWL-MW4-D	SNL0201014	28-APR-93	0.12		0.1	D

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Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
SODIUM	MWL-MW1	SNL0200133	24-JAN-91	49.8		5	F
SODIUM	MWL-MW1	SNL0200307	07-MAY-91	50.3		5	F
SODIUM	MWL-MW1	SNL0200311	07-MAY-91	50.6		5	F
SODIUM	MWL-MW1	SNL0200345	31-JUL-91	54.2		5	F
SODIUM	MWL-MW1	SNL0200349	31-JUL-91	51.7		5	F
SODIUM	MWL-MW1	SNL0200555	15-OCT-91	50.7		5	F
SODIUM	MWL-MW1	SNL0200559	15-OCT-91	53.3		5	F
SODIUM	MWL-MW1	SNL0200744	28-JUL-92	45.9		5	F
SODIUM	MWL-MW1	SNL0200750	28-JUL-92	45.1		5	F
SODIUM	MWL-MW1	SNL0200843	19-JAN-93	52.7		5	F
SODIUM	MWL-MW1	SNL0200960	27-APR-93	45.7		5	F
SODIUM	MWL-MW1	SNL0200966	27-APR-93	44.3		5	F
SODIUM	MWL-MW1	SNL0201082	09-NOV-93	50.9		5	F
SODIUM	MWL-MW1	SNL0201320	03-MAY-94	57.1		5	F
SODIUM	MWL-MW1	SNL0201434	25-OCT-94	54.2		5	F
SODIUM	MWL-MW1	SNL0201450	25-OCT-94	53.6		5	F
SODIUM	MWL-MW1	022149-06	19-APR-95	52.1		1.054	F
SODIUM	MWL-MW1	026464-07	20-OCT-95	52.2	B	0.0156	SA
SODIUM	MWL-MW1-D	SNL0201302	04-MAY-94	57.7		5	F
SODIUM	MWL-MW1-EB	SNL0200465	08-OCT-91	5	U	5	F
SODIUM	MWL-MW1-EB	SNL0200469	08-OCT-91	5	U	5	F
SODIUM	MWL-MW1-EB	SNL0200669	22-JUL-92	5	U	5	F
SODIUM	MWL-MW1-EB	SNL0200675	22-JUL-92	5	U	5	F
SODIUM	MWL-MW1-EB	SNL0200896	20-APR-93	5	U	5	EB
SODIUM	MWL-MW1-EB	SNL0201219	26-APR-94	5	U	5	F
SODIUM	MWL-MW2	SNL0200167	28-JAN-91	56.5		5	F
SODIUM	MWL-MW2	SNL0200171	28-JAN-91	57.3		5	F
SODIUM	MWL-MW2	SNL0200229	02-MAY-91	55.4		5	F
SODIUM	MWL-MW2	SNL0200233	02-MAY-91	62.1		5	F
SODIUM	MWL-MW2	SNL0200360	01-AUG-91	57.2		5	F
SODIUM	MWL-MW2	SNL0200364	01-AUG-91	55.7		5	F
SODIUM	MWL-MW2	SNL0200519	14-OCT-91	55.1		5	F
SODIUM	MWL-MW2	SNL0200523	14-OCT-91	56.2		5	F
SODIUM	MWL-MW2	SNL0200725	27-JUL-92	47.7		5	F
SODIUM	MWL-MW2	SNL0200731	27-JUL-92	48.3		5	F
SODIUM	MWL-MW2	SNL0200833	18-JAN-93	52.9		5	F
SODIUM	MWL-MW2	SNL0200944	26-APR-93	45.7		5	F
SODIUM	MWL-MW2	SNL0200950	26-APR-93	45.5		5	F
SODIUM	MWL-MW2	SNL0201063	08-NOV-93	55.4		5	F

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MWL Groundwater Major Ion Chemistry Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
SODIUM	MWL-MW3	SNL0201101	09-NOV-93	51.5		5	F
SODIUM	MWL-MW3	SNL0201338	03-MAY-94	58		5	F
SODIUM	MWL-MW3	SNL0201418	25-OCT-94	53.2		5	F
SODIUM	MWL-MW3	022147-06	17-APR-95	49.9		1.054	F
SODIUM	MWL-MW3	026458-07	16-OCT-95	49.2	B	0.0156	SA
SODIUM	MWL-MW3-EB	SNL0200483	09-OCT-91	5	U	5	F
SODIUM	MWL-MW3-EB	SNL0200487	09-OCT-91	5	U	5	F
SODIUM	MWL-MW3-EB	SNL0200650	21-JUL-92	5	U	5	F
SODIUM	MWL-MW3-EB	SNL0200656	21-JUL-92	5	U	5	F
SODIUM	MWL-MW3-EB	SNL0200924	21-APR-93	5	U	5	EB
SODIUM	MWL-MW3-EB	SNL0201251	27-APR-94	5	U	5	F
SODIUM	MWL-MW3-EB	SNL0201370	17-OCT-94	5	U	5	F
SODIUM	MWL-MW4	SNL0201354	31-MAY-94	51.3		5	F
SODIUM	MWL-MW4	SNL0201510	28-OCT-94	67.1		5	F
SODIUM	MWL-MW4	022150-06	19-APR-95	80.7		1.054	F
SODIUM	MWL-MW4	022151-06	19-APR-95	75.9		1.054	F
SODIUM	MWL-MW4	026465-07	20-OCT-95	76.6	B	0.0156	SA
SODIUM	MWL-MW4	026466-07	20-OCT-95	78.5	B	0.0156	DU
SODIUM	MWL-MW4-D	SNL0201008	28-APR-93	47.4		5	D
SODIUM	MWL-MW4-D	SNL0201014	28-APR-93	48.7		5	D
SODIUM	MWL-MW4-EB	SNL0201040	03-MAY-93	5	U	5	EB
SODIUM	MWL-MW4-EB	SNL0201178	11-NOV-93	5	U	5	F
SODIUM	MWL-MW4C	SNL0201024	30-APR-93	46.9		5	F
SODIUM	MWL-MW4C	SNL0201030	30-APR-93	49		5	F
SODIUM	MWL-MW4C	SNL0201158	11-NOV-93	46.2		5	F
SODIUM	MWL-MW4L	SNL0201199	14-MAR-94	63.9		5	F
SULFATE	MWL-BW1	SNL0200028	27-SEP-90	45.1		5	F
SULFATE	MWL-BW1	SNL0200116	24-JAN-91	41.7		5	F
SULFATE	MWL-BW1	SNL0200295	07-MAY-91	42.6		5	F
SULFATE	MWL-BW1	SNL0200417	06-AUG-91	43.3		5	F
SULFATE	MWL-BW1	SNL0200580	16-OCT-91	44.8		5	F
SULFATE	MWL-BW1	SNL0200776	29-JUL-92	42.8		5	F
SULFATE	MWL-BW1	SNL0200862	20-JAN-93	23.9		5	F
SULFATE	MWL-BW1	SNL0200872	20-JAN-93	23.8		5	D
SULFATE	MWL-BW1	SNL0200991	28-APR-93	46.7		5	F
SULFATE	MWL-BW1	SNL0201106	10-NOV-93	43.5		5	F
SULFATE	MWL-BW1	SNL0201476	27-OCT-94	42.5		5	F
SULFATE	MWL-BW1	SNL0201491	27-OCT-94	42.7		5	F
SULFATE	MWL-BW1	026461-06	23-OCT-95	46.9		0.9	SA
SULFATE	MWL-BW1-D	SNL0200046	27-SEP-90	43.9		5	F
SULFATE	MWL-BW1-D	SNL0200154	24-JAN-91	43.4		5	F
SULFATE	MWL-BW1-D	SNL0200331	07-MAY-91	42.8		5	F
SULFATE	MWL-BW1-D	SNL0200434	06-AUG-91	44.3		5	F
SULFATE	MWL-BW1-D	SNL0200598	16-OCT-91	44.6		5	F
SULFATE	MWL-BW1-D	SNL0200794	29-JUL-92	42.5		5	F
SULFATE	MWL-BW1-D	SNL0201125	10-NOV-93	43.6		5	F
SULFATE	MWL-BW1-EB	SNL0200508	09-OCT-91	5	U	5	F
SULFATE	MWL-BW1-EB	SNL0200700	23-JUL-92	5	U	5	F
SULFATE	MWL-BW1-EB	SNL0200933	21-APR-93	5	U	5	EB
SULFATE	MWL-BW1-EB	SNL0201262	27-APR-94	2.2		1	F
SULFATE	MWL-BW1-EB	SNL0201460	26-OCT-94	5	U	5	F
SULFATE	MWL-BW1-FB	SNL0200616	16-OCT-91	5	U	5	F
SULFATE	MWL-BW1-FB	SNL0200813	29-JUL-92	5	U	5	F
SULFATE	MWL-FB	SNL0200211	28-JAN-91	5	U	5	F
SULFATE	MWL-FB	SNL0200271	02-MAY-91	5	U	5	F
SULFATE	MWL-FB	SNL0200383	01-AUG-91	5	U	5	F
SULFATE	MWL-MW1	SNL0200135	24-JAN-91	42.3		5	F
SULFATE	MWL-MW1	SNL0200313	07-MAY-91	42.4		5	F
SULFATE	MWL-MW1	SNL0200337	31-JUL-91	41		5	F
SULFATE	MWL-MW1	SNL0200562	15-OCT-91	43.1		5	F
SULFATE	MWL-MW1	SNL0200738	28-JUL-92	40.6		5	F
SULFATE	MWL-MW1	SNL0200842	19-JAN-93	22.9		5	F

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Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
SULFATE	MWL-MW1	SNL0200959	27-APR-93	43.7		5	F
SULFATE	MWL-MW1	SNL0201068	09-NOV-93	41.9		5	F
SULFATE	MWL-MW1	SNL0201315	03-MAY-94	41.7		1	F
SULFATE	MWL-MW1	SNL0201430	25-OCT-94	46		5	F
SULFATE	MWL-MW1	SNL0201446	25-OCT-94	45.4		5	F
SULFATE	MWL-MW1	026464-06	20-OCT-95	46.6		0.9	SA
SULFATE	MWL-MW1-D	SNL0201297	04-MAY-94	43.7		1	F
SULFATE	MWL-MW1-EB	SNL0200472	08-OCT-91	5	U	5	F
SULFATE	MWL-MW1-EB	SNL0200663	22-JUL-92	5	U	5	F
SULFATE	MWL-MW1-EB	SNL0200895	20-APR-93	5	U	5	EB
SULFATE	MWL-MW1-EB	SNL0201215	26-APR-94	0.99		0.5	F
SULFATE	MWL-MW2	SNL0200098	28-SEP-90	44.7		5	F
SULFATE	MWL-MW2	SNL0200173	28-JAN-91	41.3		5	F
SULFATE	MWL-MW2	SNL0200235	02-MAY-91	45.2		5	F
SULFATE	MWL-MW2	SNL0200366	01-AUG-91	41.2		5	F
SULFATE	MWL-MW2	SNL0200526	14-OCT-91	42.7		5	F
SULFATE	MWL-MW2	SNL0200719	27-JUL-92	38.4		5	F
SULFATE	MWL-MW2	SNL0200832	18-JAN-93	22.5		5	F
SULFATE	MWL-MW2	SNL0200943	26-APR-93	47.3		5	F
SULFATE	MWL-MW2	SNL0201049	08-NOV-93	40.5		5	F
SULFATE	MWL-MW2	SNL0201279	02-MAY-94	40.5		1	F
SULFATE	MWL-MW2	SNL0201398	24-OCT-94	42.9		5	F
SULFATE	MWL-MW2-EB	SNL0200454	07-OCT-91	5	U	5	F
SULFATE	MWL-MW2-EB	SNL0200681	22-JUL-92	5	U	5	F
SULFATE	MWL-MW2-EB	SNL0200905	20-APR-93	5	U	5	EB
SULFATE	MWL-MW2-EB	SNL0201231	27-APR-94	1	U	1	F
SULFATE	MWL-MW2-EB	SNL0201382	19-OCT-94	5	U	5	F
SULFATE	MWL-MW3	SNL0200073	28-SEP-90	44.1		5	F
SULFATE	MWL-MW3	SNL0200192	28-JAN-91	41.1		5	F
SULFATE	MWL-MW3	SNL0200253	02-MAY-91	42.7		5	F
SULFATE	MWL-MW3	SNL0200400	05-AUG-91	38.6		5	F
SULFATE	MWL-MW3	SNL0200544	15-OCT-91	40		5	F
SULFATE	MWL-MW3	SNL0200756	28-JUL-92	37.5		5	F
SULFATE	MWL-MW3	SNL0200852	19-JAN-93	21.1		5	F
SULFATE	MWL-MW3	SNL0200975	27-APR-93	39.7		5	F
SULFATE	MWL-MW3	SNL0201087	09-NOV-93	38.3		5	F
SULFATE	MWL-MW3	SNL0201333	03-MAY-94	38		1	F
SULFATE	MWL-MW3	SNL0201414	25-OCT-94	40.5		5	F
SULFATE	MWL-MW3	026458-06	16-OCT-95	39.1		0.45	SA
SULFATE	MWL-MW3-EB	SNL0200490	09-OCT-91	5	U	5	F
SULFATE	MWL-MW3-EB	SNL0200644	21-JUL-92	5	U	5	F
SULFATE	MWL-MW3-EB	SNL0200923	21-APR-93	5	U	5	EB
SULFATE	MWL-MW3-EB	SNL0201247	27-APR-94	2.1		1	F
SULFATE	MWL-MW3-EB	SNL0201366	17-OCT-94	5	U	5	F
SULFATE	MWL-MW4	SNL0201349	31-MAY-94	34.2		1	F
SULFATE	MWL-MW4	SNL0201506	28-OCT-94	43.9		5	F
SULFATE	MWL-MW4	026465-06	20-OCT-95	52.2		0.9	SA
SULFATE	MWL-MW4	026466-06	20-OCT-95	52		0.9	DU
SULFATE	MWL-MW4-D	SNL0201007	28-APR-93	46.7		5	D
SULFATE	MWL-MW4-EB	SNL0201039	03-MAY-93	5	U	5	EB
SULFATE	MWL-MW4-EB	SNL0201164	11-NOV-93	5	U	5	F
SULFATE	MWL-MW4C	SNL0201023	30-APR-93	38.7		5	F
SULFATE	MWL-MW4C	SNL0201144	11-NOV-93	34.8		5	F
SULFATE	MWL-MW4L	SNL0201191	14-MAR-94	49.6		0.5	F
TOTAL DISSOLVED SOLIDS	MWL-BW1	SNL0201105	10-NOV-93	388		10	F
TOTAL DISSOLVED SOLIDS	MWL-BW1	SNL0201475	27-OCT-94	391		10	F
TOTAL DISSOLVED SOLIDS	MWL-BW1	SNL0201490	27-OCT-94	392		10	F
TOTAL DISSOLVED SOLIDS	MWL-BW1-D	SNL0201124	10-NOV-93	388		10	F
TOTAL DISSOLVED SOLIDS	MWL-BW1-EB	SNL0201261	27-APR-94	10	U	10	F
TOTAL DISSOLVED SOLIDS	MWL-BW1-EB	SNL0201459	26-OCT-94	10	U	10	F
TOTAL DISSOLVED SOLIDS	MWL-MW1	SNL0201067	09-NOV-93	382		10	F
TOTAL DISSOLVED SOLIDS	MWL-MW1	SNL0201314	03-MAY-94	411		10	F

Appendix I
MWL Groundwater Major Ion Chemistry Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
TOTAL DISSOLVED SOLIDS	MWL-MW1	SNL0201429	25-OCT-94	384		10	F
TOTAL DISSOLVED SOLIDS	MWL-MW1	SNL0201445	25-OCT-94	379		10	F
TOTAL DISSOLVED SOLIDS	MWL-MW1-D	SNL0201296	04-MAY-94	383		10	F
TOTAL DISSOLVED SOLIDS	MWL-MW1-EB	SNL0201214	26-APR-94	18		10	F
TOTAL DISSOLVED SOLIDS	MWL-MW2	SNL0201048	08-NOV-93	372		10	F
TOTAL DISSOLVED SOLIDS	MWL-MW2	SNL0201278	02-MAY-94	373		10	F
TOTAL DISSOLVED SOLIDS	MWL-MW2	SNL0201397	24-OCT-94	359		10	F
TOTAL DISSOLVED SOLIDS	MWL-MW2-EB	SNL0201230	27-APR-94	10		10	F
TOTAL DISSOLVED SOLIDS	MWL-MW2-EB	SNL0201381	19-OCT-94	10	U	10	F
TOTAL DISSOLVED SOLIDS	MWL-MW3	SNL0201086	09-NOV-93	333		10	F
TOTAL DISSOLVED SOLIDS	MWL-MW3	SNL0201332	03-MAY-94	335		10	F
TOTAL DISSOLVED SOLIDS	MWL-MW3	SNL0201413	25-OCT-94	340		10	F
TOTAL DISSOLVED SOLIDS	MWL-MW3-EB	SNL0201246	27-APR-94	20		10	F
TOTAL DISSOLVED SOLIDS	MWL-MW3-EB	SNL0201365	17-OCT-94	10	U	10	F
TOTAL DISSOLVED SOLIDS	MWL-MW4	SNL0201348	31-MAY-94	391		10	F
TOTAL DISSOLVED SOLIDS	MWL-MW4	SNL0201505	28-OCT-94	430		10	F
TOTAL DISSOLVED SOLIDS	MWL-MW4-EB	SNL0201163	11-NOV-93	10	U	10	F
TOTAL DISSOLVED SOLIDS	MWL-MW4C	SNL0201143	11-NOV-93	401		10	F
TOTAL DISSOLVED SOLIDS	MWL-MW4L	SNL0201190	14-MAR-94	516		10	F

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APPENDIX J

MWL Groundwater TAL Metals and Nitrate Data

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Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
ALUMINUM	MWL-BW1	SNL0200782	29-JUL-92	0.1	U	0.1	F
ALUMINUM	MWL-BW1	SNL0200788	29-JUL-92	0.1	U	0.1	F
ALUMINUM	MWL-BW1	SNL0200863	20-JAN-93	0.044	J	0.1	F
ALUMINUM	MWL-BW1	SNL0200873	20-JAN-93	0.052	J	0.1	D
ALUMINUM	MWL-BW1	SNL0200998	28-APR-93	0.13		0.1	F
ALUMINUM	MWL-BW1	SNL0200992	28-APR-93	0.068	J	0.1	F
ALUMINUM	MWL-BW1	SNL0201120	10-NOV-93	0.1	U	0.1	F
ALUMINUM	MWL-BW1	SNL0201480	27-OCT-94	0.055	J	0.1	F
ALUMINUM	MWL-BW1	SNL0201495	27-OCT-94	0.063	J	0.1	F
ALUMINUM	MWL-BW1	026461-07	23-OCT-95	0.267	B	0.0119	SA
ALUMINUM	MWL-BW1-D	SNL0200800	29-JUL-92	0.1	U	0.1	F
ALUMINUM	MWL-BW1-D	SNL0200806	29-JUL-92	0.1	U	0.1	F
ALUMINUM	MWL-BW1-D	SNL0201139	10-NOV-93	0.1	U	0.1	F
ALUMINUM	MWL-BW1-EB	SNL0200712	23-JUL-92	0.1	U	0.1	F
ALUMINUM	MWL-BW1-EB	SNL0200706	23-JUL-92	0.1	U	0.1	F
ALUMINUM	MWL-BW1-EB	SNL0200934	21-APR-93	0.1	U	0.1	EB
ALUMINUM	MWL-BW1-EB	SNL0201266	27-APR-94	0.1	U	0.1	F
ALUMINUM	MWL-BW1-EB	SNL0201464	26-OCT-94	0.045	J	0.1	F
ALUMINUM	MWL-BW1-FB	SNL0200819	29-JUL-92	0.1	U	0.1	F
ALUMINUM	MWL-BW1-FB	SNL0200825	29-JUL-92	0.1	U	0.1	F
ALUMINUM	MWL-MW1	SNL0200750	28-JUL-92	0.1	U	0.1	F
ALUMINUM	MWL-MW1	SNL0200744	28-JUL-92	0.1	U	0.1	F
ALUMINUM	MWL-MW1	SNL0200843	19-JAN-93	0.032	J	0.1	F
ALUMINUM	MWL-MW1	SNL0200966	27-APR-93	0.06	J	0.1	F
ALUMINUM	MWL-MW1	SNL0200960	27-APR-93	0.063	J	0.1	F
ALUMINUM	MWL-MW1	SNL0201082	09-NOV-93	0.1	U	0.1	F
ALUMINUM	MWL-MW1	SNL0201320	03-MAY-94	0.1	U	0.1	F
ALUMINUM	MWL-MW1	SNL0201450	25-OCT-94	0.035	J	0.1	F
ALUMINUM	MWL-MW1	SNL0201434	25-OCT-94	0.06	J	0.1	F
ALUMINUM	MWL-MW1	022149-06	19-APR-95	0.1	U	0.013	F
ALUMINUM	MWL-MW1	026464-07	20-OCT-95	0.0434	BJ	0.0119	SA
ALUMINUM	MWL-MW1-D	SNL0201302	04-MAY-94	0.1	U	0.1	F
ALUMINUM	MWL-MW1-EB	SNL0200669	22-JUL-92	0.1	U	0.1	F
ALUMINUM	MWL-MW1-EB	SNL0200675	22-JUL-92	0.1	U	0.1	F
ALUMINUM	MWL-MW1-EB	SNL0200896	20-APR-93	0.1	U	0.1	EB
ALUMINUM	MWL-MW1-EB	SNL0201219	26-APR-94	0.1	U	0.1	F
ALUMINUM	MWL-MW2	SNL0200725	27-JUL-92	0.1	U	0.1	F
ALUMINUM	MWL-MW2	SNL0200731	27-JUL-92	0.1	U	0.1	F
ALUMINUM	MWL-MW2	SNL0200833	18-JAN-93	0.1	U	0.1	F
ALUMINUM	MWL-MW2	SNL0200950	26-APR-93	0.032	J	0.1	F
ALUMINUM	MWL-MW2	SNL0200944	26-APR-93	0.057	J	0.1	F
ALUMINUM	MWL-MW2	SNL0201063	08-NOV-93	0.078	J	0.1	F
ALUMINUM	MWL-MW2	SNL0201284	02-MAY-94	0.1	U	0.1	F
ALUMINUM	MWL-MW2	SNL0201402	24-OCT-94	0.1	U	0.1	F
ALUMINUM	MWL-MW2	022145-06	17-APR-95	0.1	U	0.013	F
ALUMINUM	MWL-MW2-EB	SNL0200687	22-JUL-92	0.1	U	0.1	F
ALUMINUM	MWL-MW2-EB	SNL0200693	22-JUL-92	0.1	U	0.1	F
ALUMINUM	MWL-MW2-EB	SNL0200906	20-APR-93	0.1	U	0.1	EB
ALUMINUM	MWL-MW2-EB	SNL0201235	27-APR-94	0.1	U	0.1	F
ALUMINUM	MWL-MW2-EB	SNL0201386	19-OCT-94	0.1	U	0.1	F
ALUMINUM	MWL-MW3	SNL0200762	28-JUL-92	0.13		0.1	F
ALUMINUM	MWL-MW3	SNL0200768	28-JUL-92	0.1	U	0.1	F
ALUMINUM	MWL-MW3	SNL0200853	19-JAN-93	0.034	J	0.1	F
ALUMINUM	MWL-MW3	SNL0200982	27-APR-93	0.051	J	0.1	F
ALUMINUM	MWL-MW3	SNL0200976	27-APR-93	0.1		0.1	F
ALUMINUM	MWL-MW3	SNL0201101	09-NOV-93	0.1	U	0.1	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
ALUMINUM	MWL-MW3	SNL0201338	03-MAY-94	0.1	U	0.1	F
ALUMINUM	MWL-MW3	SNL0201418	25-OCT-94	0.055	J	0.1	F
ALUMINUM	MWL-MW3	022147-06	17-APR-95	0.1	U	0.013	F
ALUMINUM	MWL-MW3	026458-07	16-OCT-95	0.0571		0.0119	SA
ALUMINUM	MWL-MW3-EB	SNL0200650	21-JUL-92	0.33		0.1	F
ALUMINUM	MWL-MW3-EB	SNL0200656	21-JUL-92	0.1	U	0.1	F
ALUMINUM	MWL-MW3-EB	SNL0200924	21-APR-93	0.1	U	0.1	EB
ALUMINUM	MWL-MW3-EB	SNL0201251	27-APR-94	0.1	U	0.1	F
ALUMINUM	MWL-MW3-EB	SNL0201370	17-OCT-94	0.1	U	0.1	F
ALUMINUM	MWL-MW4	022151-06	19-APR-95	0.1	U	0.013	F
ALUMINUM	MWL-MW4	022150-06	19-APR-95	0.023	J	0.013	F
ALUMINUM	MWL-MW4	026466-07	20-OCT-95	0.0283	JB	0.0119	DU
ALUMINUM	MWL-MW4	026465-07	20-OCT-95	0.0208	JB	0.0119	SA
ALUMINUM	MWL-MW4-D	SNL0201008	28-APR-93	0.14		0.1	D
ALUMINUM	MWL-MW4-D	SNL0201014	28-APR-93	0.087	J	0.1	D
ALUMINUM	MWL-MW4-EB	SNL0201040	03-MAY-93	0.15		0.1	EB
ALUMINUM	MWL-MW4-EB	SNL0201178	11-NOV-93	0.1	U	0.1	F
ALUMINUM	MWL-MW4C	SNL0201030	30-APR-93	0.041	J	0.1	F
ALUMINUM	MWL-MW4C	SNL0201024	30-APR-93	0.13		0.1	F
ALUMINUM	MWL-MW4C	SNL0201158	11-NOV-93	0.1	U	0.1	F
ALUMINUM	MWL-MW4L	SNL0201199	14-MAR-94	0.1	U	0.1	F
ALUMINUM	MWL-MW4	SNL0201354	31-MAY-94	0.012	J	0.1	F
ALUMINUM	MWL-MW4	SNL0201510	28-OCT-94	0.13		0.1	F
ANTIMONY	MWL-BW1	SNL0200026	27-SEP-90	0.06	U	0.06	F
ANTIMONY	MWL-BW1	SNL0200021	27-SEP-90	0.06	U	0.06	F
ANTIMONY	MWL-BW1	SNL0200788	29-JUL-92	0.06	U	0.06	F
ANTIMONY	MWL-BW1	SNL0200782	29-JUL-92	0.06	U	0.06	F
ANTIMONY	MWL-BW1	SNL0200873	20-JAN-93	0.06	U	0.06	D
ANTIMONY	MWL-BW1	SNL0200863	20-JAN-93	0.06	U	0.06	F
ANTIMONY	MWL-BW1	SNL0200992	28-APR-93	0.06	U	0.06	F
ANTIMONY	MWL-BW1	SNL0200998	28-APR-93	0.06	U	0.06	F
ANTIMONY	MWL-BW1	SNL0201120	10-NOV-93	0.06	U	0.06	F
ANTIMONY	MWL-BW1	SNL0201480	27-OCT-94	0.06	U	0.06	F
ANTIMONY	MWL-BW1	SNL0201495	27-OCT-94	0.06	U	0.06	F
ANTIMONY	MWL-BW1	026461-07	23-OCT-95	0.00235	JB	0.00096	SA
ANTIMONY	MWL-BW1-D	SNL0200044	27-SEP-90	0.06	U	0.06	F
ANTIMONY	MWL-BW1-D	SNL0200039	27-SEP-90	0.06	U	0.06	F
ANTIMONY	MWL-BW1-D	SNL0200800	29-JUL-92	0.06	U	0.06	F
ANTIMONY	MWL-BW1-D	SNL0200806	29-JUL-92	0.06	U	0.06	F
ANTIMONY	MWL-BW1-D	SNL0201139	10-NOV-93	0.06	U	0.06	F
ANTIMONY	MWL-BW1-EB	SNL0200706	23-JUL-92	0.06	U	0.06	F
ANTIMONY	MWL-BW1-EB	SNL0200712	23-JUL-92	0.06	U	0.06	F
ANTIMONY	MWL-BW1-EB	SNL0200934	21-APR-93	0.06	U	0.06	EB
ANTIMONY	MWL-BW1-EB	SNL0201266	27-APR-94	0.06	U	0.06	F
ANTIMONY	MWL-BW1-EB	SNL0201464	26-OCT-94	0.06	U	0.06	F
ANTIMONY	MWL-BW1-FB	SNL0200825	29-JUL-92	0.06	U	0.06	F
ANTIMONY	MWL-BW1-FB	SNL0200819	29-JUL-92	0.06	U	0.06	F
ANTIMONY	MWL-MW1	SNL0200744	28-JUL-92	0.06	U	0.06	F
ANTIMONY	MWL-MW1	SNL0200750	28-JUL-92	0.06	U	0.06	F
ANTIMONY	MWL-MW1	SNL0200843	19-JAN-93	0.06	U	0.06	F
ANTIMONY	MWL-MW1	SNL0200960	27-APR-93	0.06	U	0.06	F
ANTIMONY	MWL-MW1	SNL0200966	27-APR-93	0.06	U	0.06	F
ANTIMONY	MWL-MW1	SNL0201082	09-NOV-93	0.06	U	0.06	F
ANTIMONY	MWL-MW1	SNL0201320	03-MAY-94	0.024	J	0.06	F
ANTIMONY	MWL-MW1	SNL0201434	25-OCT-94	0.06	U	0.06	F
ANTIMONY	MWL-MW1	SNL0201450	25-OCT-94	0.06	U	0.06	F
ANTIMONY	MWL-MW1	022149-06	19-APR-95	0.06	U	0.021	F
ANTIMONY	MWL-MW1	026464-07	20-OCT-95	0.00096	BU	0.00096	SA

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
ANTIMONY	MWL-MW1-D	SNL0201302	04-MAY-94	0.06	U	0.06	F
ANTIMONY	MWL-MW1-EB	SNL0200675	22-JUL-92	0.06	U	0.06	F
ANTIMONY	MWL-MW1-EB	SNL0200669	22-JUL-92	0.06	U	0.06	F
ANTIMONY	MWL-MW1-EB	SNL0200896	20-APR-93	0.06	U	0.06	EB
ANTIMONY	MWL-MW1-EB	SNL0201219	26-APR-94	0.06	U	0.06	F
ANTIMONY	MWL-MW2	SNL0200091	28-SEP-90	0.06	U	0.06	F
ANTIMONY	MWL-MW2	SNL0200096	28-SEP-90	0.05	U	0.05	F
ANTIMONY	MWL-MW2	SNL0200725	27-JUL-92	0.06	U	0.06	F
ANTIMONY	MWL-MW2	SNL0200731	27-JUL-92	0.06	U	0.06	F
ANTIMONY	MWL-MW2	SNL0200833	18-JAN-93	0.06	U	0.06	F
ANTIMONY	MWL-MW2	SNL0200944	26-APR-93	0.06	U	0.06	F
ANTIMONY	MWL-MW2	SNL0200950	26-APR-93	0.06	U	0.06	F
ANTIMONY	MWL-MW2	SNL0201063	08-NOV-93	0.06	U	0.06	F
ANTIMONY	MWL-MW2	SNL0201284	02-MAY-94	0.06	U	0.06	F
ANTIMONY	MWL-MW2	SNL0201402	24-OCT-94	0.06	U	0.06	F
ANTIMONY	MWL-MW2	022145-06	17-APR-95	0.06	U	0.021	F
ANTIMONY	MWL-MW2-EB	SNL0200693	22-JUL-92	0.06	U	0.06	F
ANTIMONY	MWL-MW2-EB	SNL0200687	22-JUL-92	0.06	U	0.06	F
ANTIMONY	MWL-MW2-EB	SNL0200906	20-APR-93	0.06	U	0.06	EB
ANTIMONY	MWL-MW2-EB	SNL0201235	27-APR-94	0.06	U	0.06	F
ANTIMONY	MWL-MW2-EB	SNL0201386	19-OCT-94	0.06	U	0.06	F
ANTIMONY	MWL-MW3	SNL0200066	28-SEP-90	0.06	U	0.06	F
ANTIMONY	MWL-MW3	SNL0200071	28-SEP-90	0.06	U	0.06	F
ANTIMONY	MWL-MW3	SNL0200768	28-JUL-92	0.06	U	0.06	F
ANTIMONY	MWL-MW3	SNL0200762	28-JUL-92	0.06	U	0.06	F
ANTIMONY	MWL-MW3	SNL0200853	19-JAN-93	0.06	U	0.06	F
ANTIMONY	MWL-MW3	SNL0200982	27-APR-93	0.06	U	0.06	F
ANTIMONY	MWL-MW3	SNL0200976	27-APR-93	0.06	U	0.06	F
ANTIMONY	MWL-MW3	SNL0201101	09-NOV-93	0.06	U	0.06	F
ANTIMONY	MWL-MW3	SNL0201338	03-MAY-94	0.06	U	0.06	F
ANTIMONY	MWL-MW3	SNL0201418	25-OCT-94	0.06	U	0.06	F
ANTIMONY	MWL-MW3	022147-06	17-APR-95	0.06	U	0.021	F
ANTIMONY	MWL-MW3	026458-07	16-OCT-95	0.00096	U	0.00096	SA
ANTIMONY	MWL-MW3-EB	SNL0200650	21-JUL-92	0.06	U	0.06	F
ANTIMONY	MWL-MW3-EB	SNL0200656	21-JUL-92	0.06	U	0.06	F
ANTIMONY	MWL-MW3-EB	SNL0200924	21-APR-93	0.06	U	0.06	EB
ANTIMONY	MWL-MW3-EB	SNL0201251	27-APR-94	0.06	U	0.06	F
ANTIMONY	MWL-MW3-EB	SNL0201370	17-OCT-94	0.06	U	0.06	F
ANTIMONY	MWL-MW4	022150-06	19-APR-95	0.06	U	0.021	F
ANTIMONY	MWL-MW4	022151-06	19-APR-95	0.06	U	0.021	F
ANTIMONY	MWL-MW4	026466-07	20-OCT-95	0.001	JB	0.00096	DU
ANTIMONY	MWL-MW4	026465-07	20-OCT-95	0.00096	UB	0.00096	SA
ANTIMONY	MWL-MW4-D	SNL0201014	28-APR-93	0.06	U	0.06	D
ANTIMONY	MWL-MW4-D	SNL0201008	28-APR-93	0.06	U	0.06	D
ANTIMONY	MWL-MW4-EB	SNL0201040	03-MAY-93	0.06	U	0.06	EB
ANTIMONY	MWL-MW4-EB	SNL0201178	11-NOV-93	0.06	U	0.06	F
ANTIMONY	MWL-MW4C	SNL0201024	30-APR-93	0.06	U	0.06	F
ANTIMONY	MWL-MW4C	SNL0201030	30-APR-93	0.06	U	0.06	F
ANTIMONY	MWL-MW4C	SNL0201158	11-NOV-93	0.06	U	0.06	F
ANTIMONY	MWL-MW4L	SNL0201199	14-MAR-94	0.06	U	0.06	F
ANTIMONY	MWL-MW4	SNL0201354	31-MAY-94	0.06	U	0.06	F
ANTIMONY	MWL-MW4	SNL0201510	28-OCT-94	0.06	U	0.06	F
ARSENIC	MWL-BW1	SNL0200016	27-SEP-90	0.005	U	0.005	F
ARSENIC	MWL-BW1	SNL0200022	27-SEP-90	0.01	U	0.01	F
ARSENIC	MWL-BW1	SNL0200106	24-JAN-91	0.005	U	0.005	F
ARSENIC	MWL-BW1	SNL0200111	24-JAN-91	0.005	U	0.005	F
ARSENIC	MWL-BW1	SNL0200285	07-MAY-91	0.005	U	0.005	F
ARSENIC	MWL-BW1	SNL0200290	07-MAY-91	0.005	U	0.005	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
ARSENIC	MWL-BW1	SNL0200412	06-AUG-91	0.005	U	0.005	F
ARSENIC	MWL-BW1	SNL0200407	06-AUG-91	0.005	U	0.005	F
ARSENIC	MWL-BW1	SNL0200569	16-OCT-91	0.005	U	0.005	F
ARSENIC	MWL-BW1	SNL0200574	16-OCT-91	0.01	U	0.01	F
ARSENIC	MWL-BW1	SNL0200783	29-JUL-92	0.005	U	0.005	F
ARSENIC	MWL-BW1	SNL0200777	29-JUL-92	0.005	U	0.005	F
ARSENIC	MWL-BW1	SNL0200864	20-JAN-93	0.005	U	0.005	F
ARSENIC	MWL-BW1	SNL0200874	20-JAN-93	0.005	U	0.005	D
ARSENIC	MWL-BW1	SNL0200993	28-APR-93	0.005	U	0.005	F
ARSENIC	MWL-BW1	SNL0200999	28-APR-93	0.0013	J	0.005	F
ARSENIC	MWL-BW1	SNL0201115	10-NOV-93	0.005	U	0.005	F
ARSENIC	MWL-BW1	SNL0201495	27-OCT-94	0.01	U	0.01	F
ARSENIC	MWL-BW1	SNL0201480	27-OCT-94	0.01	U	0.01	F
ARSENIC	MWL-BW1	026461-07	23-OCT-95	0.00219	J	0.00186	SA
ARSENIC	MWL-BW1-D	SNL0200040	27-SEP-90	0.01	U	0.01	F
ARSENIC	MWL-BW1-D	SNL0200034	27-SEP-90	0.005	U	0.005	F
ARSENIC	MWL-BW1-D	SNL0200149	24-JAN-91	0.005	U	0.005	F
ARSENIC	MWL-BW1-D	SNL0200144	24-JAN-91	0.01	U	0.01	F
ARSENIC	MWL-BW1-D	SNL0200321	07-MAY-91	0.005	U	0.005	F
ARSENIC	MWL-BW1-D	SNL0200326	07-MAY-91	0.01	U	0.01	F
ARSENIC	MWL-BW1-D	SNL0200424	06-AUG-91	0.005	U	0.005	F
ARSENIC	MWL-BW1-D	SNL0200429	06-AUG-91	0.005	U	0.005	F
ARSENIC	MWL-BW1-D	SNL0200592	16-OCT-91	0.01	U	0.01	F
ARSENIC	MWL-BW1-D	SNL0200587	16-OCT-91	0.005	U	0.005	F
ARSENIC	MWL-BW1-D	SNL0200795	29-JUL-92	0.005	U	0.005	F
ARSENIC	MWL-BW1-D	SNL0200801	29-JUL-92	0.005	U	0.005	F
ARSENIC	MWL-BW1-D	SNL0201134	10-NOV-93	0.0015	J	0.005	F
ARSENIC	MWL-BW1-EB	SNL0200497	09-OCT-91	0.005	U	0.005	F
ARSENIC	MWL-BW1-EB	SNL0200502	09-OCT-91	0.005	U	0.005	F
ARSENIC	MWL-BW1-EB	SNL0200707	23-JUL-92	0.005	U	0.005	F
ARSENIC	MWL-BW1-EB	SNL0200701	23-JUL-92	0.005	U	0.005	F
ARSENIC	MWL-BW1-EB	SNL0200935	21-APR-93	0.005	U	0.005	EB
ARSENIC	MWL-BW1-EB	SNL0201266	27-APR-94	0.01	U	0.01	F
ARSENIC	MWL-BW1-EB	SNL0201464	26-OCT-94	0.01	U	0.01	F
ARSENIC	MWL-BW1-FB	SNL0200610	16-OCT-91	0.01	U	0.01	F
ARSENIC	MWL-BW1-FB	SNL0200605	16-OCT-91	0.01	U	0.01	F
ARSENIC	MWL-BW1-FB	SNL0200820	29-JUL-92	0.005	U	0.005	F
ARSENIC	MWL-BW1-FB	SNL0200814	29-JUL-92	0.005	U	0.005	F
ARSENIC	MWL-FB	SNL0200201	28-JAN-91	0.005	U	0.005	F
ARSENIC	MWL-FB	SNL0200206	28-JAN-91	0.005	U	0.005	F
ARSENIC	MWL-FB	SNL0200261	02-MAY-91	0.005	U	0.005	F
ARSENIC	MWL-FB	SNL0200266	02-MAY-91	0.005	U	0.005	F
ARSENIC	MWL-FB	SNL0200373	01-AUG-91	0.005	U	0.005	F
ARSENIC	MWL-FB	SNL0200378	01-AUG-91	0.005	U	0.005	F
ARSENIC	MWL-MW1	SNL0200130	24-JAN-91	0.005	U	0.005	F
ARSENIC	MWL-MW1	SNL0200125	24-JAN-91	0.005	U	0.005	F
ARSENIC	MWL-MW1	SNL0200308	07-MAY-91	0.01	U	0.01	F
ARSENIC	MWL-MW1	SNL0200303	07-MAY-91	0.005	U	0.005	F
ARSENIC	MWL-MW1	SNL0200346	31-JUL-91	0.005	U	0.005	F
ARSENIC	MWL-MW1	SNL0200341	31-JUL-91	0.005	U	0.005	F
ARSENIC	MWL-MW1	SNL0200556	15-OCT-91	0.01	U	0.01	F
ARSENIC	MWL-MW1	SNL0200551	15-OCT-91	0.005	U	0.005	F
ARSENIC	MWL-MW1	SNL0200745	28-JUL-92	0.005	U	0.005	F
ARSENIC	MWL-MW1	SNL0200739	28-JUL-92	0.005	U	0.005	F
ARSENIC	MWL-MW1	SNL0200844	19-JAN-93	0.005	U	0.005	F
ARSENIC	MWL-MW1	SNL0200967	27-APR-93	0.0016	J	0.005	F
ARSENIC	MWL-MW1	SNL0200961	27-APR-93	0.005	U	0.005	F
ARSENIC	MWL-MW1	SNL0201077	09-NOV-93	0.005	U	0.005	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
ARSENIC	MWL-MW1	SNL0201320	03-MAY-94	0.01	U	0.01	F
ARSENIC	MWL-MW1	SNL0201450	25-OCT-94	0.01	U	0.01	F
ARSENIC	MWL-MW1	SNL0201434	25-OCT-94	0.01	U	0.01	F
ARSENIC	MWL-MW1	022149-06	19-APR-95	0.01	U	0.003	F
ARSENIC	MWL-MW1	026464-07	20-OCT-95	0.00186	U	0.00186	SA
ARSENIC	MWL-MW1-D	SNL0201302	04-MAY-94	0.01	U	0.01	F
ARSENIC	MWL-MW1-EB	SNL0200461	08-OCT-91	0.005	U	0.005	F
ARSENIC	MWL-MW1-EB	SNL0200466	08-OCT-91	0.005	U	0.005	F
ARSENIC	MWL-MW1-EB	SNL0200664	22-JUL-92	0.005	U	0.005	F
ARSENIC	MWL-MW1-EB	SNL0200670	22-JUL-92	0.005	U	0.005	F
ARSENIC	MWL-MW1-EB	SNL0200897	20-APR-93	0.005	U	0.005	EB
ARSENIC	MWL-MW1-EB	SNL0201219	26-APR-94	0.01	U	0.01	F
ARSENIC	MWL-MW2	SNL0200086	28-SEP-90	0.005	U	0.005	F
ARSENIC	MWL-MW2	SNL0200092	28-SEP-90	0.005	U	0.005	F
ARSENIC	MWL-MW2	SNL0200163	28-JAN-91	0.005	U	0.005	F
ARSENIC	MWL-MW2	SNL0200168	28-JAN-91	0.005	U	0.005	F
ARSENIC	MWL-MW2	SNL0200230	02-MAY-91	0.005	U	0.005	F
ARSENIC	MWL-MW2	SNL0200225	02-MAY-91	0.005	U	0.005	F
ARSENIC	MWL-MW2	SNL0200356	01-AUG-91	0.005	U	0.005	F
ARSENIC	MWL-MW2	SNL0200361	01-AUG-91	0.005	U	0.005	F
ARSENIC	MWL-MW2	SNL0200515	14-OCT-91	0.01	U	0.01	F
ARSENIC	MWL-MW2	SNL0200520	14-OCT-91	0.005	U	0.005	F
ARSENIC	MWL-MW2	SNL0200720	27-JUL-92	0.005	U	0.005	F
ARSENIC	MWL-MW2	SNL0200726	27-JUL-92	0.005	U	0.005	F
ARSENIC	MWL-MW2	SNL0200834	18-JAN-93	0.002	J	0.005	F
ARSENIC	MWL-MW2	SNL0200951	26-APR-93	0.0012	J	0.005	F
ARSENIC	MWL-MW2	SNL0200945	26-APR-93	0.001	J	0.005	F
ARSENIC	MWL-MW2	SNL0201058	08-NOV-93	0.005	U	0.005	F
ARSENIC	MWL-MW2	SNL0201284	02-MAY-94	0.01	U	0.01	F
ARSENIC	MWL-MW2	SNL0201402	24-OCT-94	0.01	U	0.01	F
ARSENIC	MWL-MW2	022145-06	17-APR-95	0.01	U	0.003	F
ARSENIC	MWL-MW2-EB	SNL0200443	07-OCT-91	0.005	U	0.005	F
ARSENIC	MWL-MW2-EB	SNL0200448	07-OCT-91	0.005	U	0.005	F
ARSENIC	MWL-MW2-EB	SNL0200688	22-JUL-92	0.005	U	0.005	F
ARSENIC	MWL-MW2-EB	SNL0200682	22-JUL-92	0.005	U	0.005	F
ARSENIC	MWL-MW2-EB	SNL0200907	20-APR-93	0.005	U	0.005	EB
ARSENIC	MWL-MW2-EB	SNL0201235	27-APR-94	0.01	U	0.01	F
ARSENIC	MWL-MW2-EB	SNL0201386	19-OCT-94	0.01	U	0.01	F
ARSENIC	MWL-MW3	SNL0200061	28-SEP-90	0.005	U	0.005	F
ARSENIC	MWL-MW3	SNL0200067	28-SEP-90	0.005	U	0.005	F
ARSENIC	MWL-MW3	SNL0200182	28-JAN-91	0.005	U	0.005	F
ARSENIC	MWL-MW3	SNL0200187	28-JAN-91	0.005	U	0.005	F
ARSENIC	MWL-MW3	SNL0200248	02-MAY-91	0.005	U	0.005	F
ARSENIC	MWL-MW3	SNL0200243	02-MAY-91	0.005	U	0.005	F
ARSENIC	MWL-MW3	SNL0200395	05-AUG-91	0.01	U	0.01	F
ARSENIC	MWL-MW3	SNL0200390	05-AUG-91	0.01	U	0.01	F
ARSENIC	MWL-MW3	SNL0200538	15-OCT-91	0.005	U	0.005	F
ARSENIC	MWL-MW3	SNL0200533	15-OCT-91	0.01	U	0.01	F
ARSENIC	MWL-MW3	SNL0200763	28-JUL-92	0.005	U	0.005	F
ARSENIC	MWL-MW3	SNL0200757	28-JUL-92	0.005	U	0.005	F
ARSENIC	MWL-MW3	SNL0200854	19-JAN-93	0.0021	J	0.005	F
ARSENIC	MWL-MW3	SNL0200983	27-APR-93	0.0019	J	0.005	F
ARSENIC	MWL-MW3	SNL0200977	27-APR-93	0.0016	J	0.005	F
ARSENIC	MWL-MW3	SNL0201096	09-NOV-93	0.0015	J	0.005	F
ARSENIC	MWL-MW3	SNL0201338	03-MAY-94	0.01	U	0.01	F
ARSENIC	MWL-MW3	SNL0201418	25-OCT-94	0.01	U	0.01	F
ARSENIC	MWL-MW3	022147-06	17-APR-95	0.01	U	0.003	F
ARSENIC	MWL-MW3	026458-07	16-OCT-95	0.00186	U	0.00186	SA

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
ARSENIC	MWL-MW3-EB	SNL0200479	09-OCT-91	0.005	U	0.005	F
ARSENIC	MWL-MW3-EB	SNL0200484	09-OCT-91	0.005	U	0.005	F
ARSENIC	MWL-MW3-EB	SNL0200645	21-JUL-92	0.005	U	0.005	F
ARSENIC	MWL-MW3-EB	SNL0200651	21-JUL-92	0.005	U	0.005	F
ARSENIC	MWL-MW3-EB	SNL0200925	21-APR-93	0.005	U	0.005	EB
ARSENIC	MWL-MW3-EB	SNL0201251	27-APR-94	0.01	U	0.01	F
ARSENIC	MWL-MW3-EB	SNL0201370	17-OCT-94	0.01	U	0.01	F
ARSENIC	MWL-MW4	022150-06	19-APR-95	0.01	U	0.003	F
ARSENIC	MWL-MW4	022151-06	19-APR-95	0.011		0.003	F
ARSENIC	MWL-MW4	026465-07	20-OCT-95	0.00864	J	0.00186	SA
ARSENIC	MWL-MW4	026466-07	20-OCT-95	0.00938	J	0.00186	DU
ARSENIC	MWL-MW4-D	SNL0201015	28-APR-93	0.001	J	0.005	D
ARSENIC	MWL-MW4-D	SNL0201009	28-APR-93	0.0011	J	0.005	D
ARSENIC	MWL-MW4-EB	SNL0201041	03-MAY-93	0.005	U	0.005	EB
ARSENIC	MWL-MW4-EB	SNL0201173	11-NOV-93	0.005	U	0.005	F
ARSENIC	MWL-MW4C	SNL0201025	30-APR-93	0.004	J	0.005	F
ARSENIC	MWL-MW4C	SNL0201031	30-APR-93	0.0045	J	0.005	F
ARSENIC	MWL-MW4C	SNL0201153	11-NOV-93	0.0047	J	0.005	F
ARSENIC	MWL-MW4L	SNL0201200	14-MAR-94	0.003	J	0.005	F
ARSENIC	MWL-MW4	SNL0201354	31-MAY-94	0.0091	J	0.01	F
ARSENIC	MWL-MW4	SNL0201510	28-OCT-94	0.01	U	0.01	F
BARIUM	MWL-BW1	SNL0200026	27-SEP-90	0.12		0.01	F
BARIUM	MWL-BW1	SNL0200021	27-SEP-90	0.12		0.01	F
BARIUM	MWL-BW1	SNL0200110	24-JAN-91	0.11		0.01	F
BARIUM	MWL-BW1	SNL0200114	24-JAN-91	0.1		0.01	F
BARIUM	MWL-BW1	SNL0200293	07-MAY-91	0.098		0.01	F
BARIUM	MWL-BW1	SNL0200289	07-MAY-91	0.093		0.01	F
BARIUM	MWL-BW1	SNL0200415	06-AUG-91	0.082		0.01	F
BARIUM	MWL-BW1	SNL0200411	06-AUG-91	0.097		0.01	F
BARIUM	MWL-BW1	SNL0200577	16-OCT-91	0.092		0.01	F
BARIUM	MWL-BW1	SNL0200573	16-OCT-91	0.097		0.01	F
BARIUM	MWL-BW1	SNL0200788	29-JUL-92	0.08		0.01	F
BARIUM	MWL-BW1	SNL0200782	29-JUL-92	0.085		0.01	F
BARIUM	MWL-BW1	SNL0200873	20-JAN-93	0.092		0.01	D
BARIUM	MWL-BW1	SNL0200863	20-JAN-93	0.095		0.01	F
BARIUM	MWL-BW1	SNL0200998	28-APR-93	0.077		0.01	F
BARIUM	MWL-BW1	SNL0200992	28-APR-93	0.073		0.01	F
BARIUM	MWL-BW1	SNL0201120	10-NOV-93	0.081		0.01	F
BARIUM	MWL-BW1	SNL0201495	27-OCT-94	0.085		0.01	F
BARIUM	MWL-BW1	SNL0201480	27-OCT-94	0.085		0.01	F
BARIUM	MWL-BW1	026461-07	23-OCT-95	0.0882		0.00007	SA
BARIUM	MWL-BW1-D	SNL0200039	27-SEP-90	0.12		0.01	F
BARIUM	MWL-BW1-D	SNL0200044	27-SEP-90	0.13		0.01	F
BARIUM	MWL-BW1-D	SNL0200152	24-JAN-91	0.1		0.01	F
BARIUM	MWL-BW1-D	SNL0200148	24-JAN-91	0.11		0.01	F
BARIUM	MWL-BW1-D	SNL0200329	07-MAY-91	0.1		0.01	F
BARIUM	MWL-BW1-D	SNL0200325	07-MAY-91	0.08		0.01	F
BARIUM	MWL-BW1-D	SNL0200432	06-AUG-91	0.081		0.01	F
BARIUM	MWL-BW1-D	SNL0200428	06-AUG-91	0.09		0.01	F
BARIUM	MWL-BW1-D	SNL0200595	16-OCT-91	0.099		0.01	F
BARIUM	MWL-BW1-D	SNL0200591	16-OCT-91	0.095		0.01	F
BARIUM	MWL-BW1-D	SNL0200806	29-JUL-92	0.084		0.01	F
BARIUM	MWL-BW1-D	SNL0200800	29-JUL-92	0.087		0.01	F
BARIUM	MWL-BW1-D	SNL0201139	10-NOV-93	0.078		0.01	F
BARIUM	MWL-BW1-EB	SNL0200501	09-OCT-91	0.01	U	0.01	F
BARIUM	MWL-BW1-EB	SNL0200505	09-OCT-91	0.01	U	0.01	F
BARIUM	MWL-BW1-EB	SNL0200706	23-JUL-92	0.01	U	0.01	F
BARIUM	MWL-BW1-EB	SNL0200712	23-JUL-92	0.01	U	0.01	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
BARIUM	MWL-BW1-EB	SNL0200934	21-APR-93	0.01	U	0.01	EB
BARIUM	MWL-BW1-EB	SNL0201266	27-APR-94	0.01	U	0.01	F
BARIUM	MWL-BW1-EB	SNL0201464	26-OCT-94	0.0023	J	0.01	F
BARIUM	MWL-BW1-FB	SNL0200609	16-OCT-91	0.01	U	0.01	F
BARIUM	MWL-BW1-FB	SNL0200613	16-OCT-91	0.01	U	0.01	F
BARIUM	MWL-BW1-FB	SNL0200825	29-JUL-92	0.01	U	0.01	F
BARIUM	MWL-BW1-FB	SNL0200819	29-JUL-92	0.01	U	0.01	F
BARIUM	MWL-FB	SNL0200209	28-JAN-91	0.01	U	0.01	F
BARIUM	MWL-FB	SNL0200205	28-JAN-91	0.01	U	0.01	F
BARIUM	MWL-FB	SNL0200265	02-MAY-91	0.01	U	0.01	F
BARIUM	MWL-FB	SNL0200269	02-MAY-91	0.01	U	0.01	F
BARIUM	MWL-FB	SNL0200381	01-AUG-91	0.01	U	0.01	F
BARIUM	MWL-FB	SNL0200377	01-AUG-91	0.01	U	0.01	F
BARIUM	MWL-MW1	SNL0200133	24-JAN-91	0.07		0.01	F
BARIUM	MWL-MW1	SNL0200129	24-JAN-91	0.069		0.01	F
BARIUM	MWL-MW1	SNL0200307	07-MAY-91	0.065		0.01	F
BARIUM	MWL-MW1	SNL0200311	07-MAY-91	0.067		0.01	F
BARIUM	MWL-MW1	SNL0200349	31-JUL-91	0.064		0.01	F
BARIUM	MWL-MW1	SNL0200345	31-JUL-91	0.066		0.01	F
BARIUM	MWL-MW1	SNL0200559	15-OCT-91	0.068		0.01	F
BARIUM	MWL-MW1	SNL0200555	15-OCT-91	0.068		0.01	F
BARIUM	MWL-MW1	SNL0200750	28-JUL-92	0.063		0.01	F
BARIUM	MWL-MW1	SNL0200744	28-JUL-92	0.065		0.01	F
BARIUM	MWL-MW1	SNL0200843	19-JAN-93	0.076		0.01	F
BARIUM	MWL-MW1	SNL0200960	27-APR-93	0.057		0.01	F
BARIUM	MWL-MW1	SNL0200966	27-APR-93	0.056		0.01	F
BARIUM	MWL-MW1	SNL0201082	09-NOV-93	0.061		0.01	F
BARIUM	MWL-MW1	SNL0201320	03-MAY-94	0.076		0.01	F
BARIUM	MWL-MW1	SNL0201434	25-OCT-94	0.073		0.01	F
BARIUM	MWL-MW1	SNL0201450	25-OCT-94	0.071		0.01	F
BARIUM	MWL-MW1	022149-06	19-APR-95	0.067		0.002	F
BARIUM	MWL-MW1	026464-07	20-OCT-95	0.0677		0.00007	SA
BARIUM	MWL-MW1-D	SNL0201302	04-MAY-94	0.076		0.01	F
BARIUM	MWL-MW1-EB	SNL0200465	08-OCT-91	0.01	U	0.01	F
BARIUM	MWL-MW1-EB	SNL0200469	08-OCT-91	0.01	U	0.01	F
BARIUM	MWL-MW1-EB	SNL0200669	22-JUL-92	0.01	U	0.01	F
BARIUM	MWL-MW1-EB	SNL0200675	22-JUL-92	0.01	U	0.01	F
BARIUM	MWL-MW1-EB	SNL0200896	20-APR-93	0.01	U	0.01	EB
BARIUM	MWL-MW1-EB	SNL0201219	26-APR-94	0.0022	J	0.01	F
BARIUM	MWL-MW2	SNL0200091	28-SEP-90	0.1		0.01	F
BARIUM	MWL-MW2	SNL0200096	28-SEP-90	0.099		0.01	F
BARIUM	MWL-MW2	SNL0200171	28-JAN-91	0.11		0.01	F
BARIUM	MWL-MW2	SNL0200167	28-JAN-91	0.11		0.01	F
BARIUM	MWL-MW2	SNL0200233	02-MAY-91	0.11		0.01	F
BARIUM	MWL-MW2	SNL0200229	02-MAY-91	0.099		0.01	F
BARIUM	MWL-MW2	SNL0200360	01-AUG-91	0.098		0.01	F
BARIUM	MWL-MW2	SNL0200364	01-AUG-91	0.081		0.01	F
BARIUM	MWL-MW2	SNL0200523	14-OCT-91	0.095		0.01	F
BARIUM	MWL-MW2	SNL0200519	14-OCT-91	0.1		0.01	F
BARIUM	MWL-MW2	SNL0200725	27-JUL-92	0.094		0.01	F
BARIUM	MWL-MW2	SNL0200731	27-JUL-92	0.092		0.01	F
BARIUM	MWL-MW2	SNL0200833	18-JAN-93	0.11		0.01	F
BARIUM	MWL-MW2	SNL0200944	26-APR-93	0.074		0.01	F
BARIUM	MWL-MW2	SNL0200950	26-APR-93	0.078		0.01	F
BARIUM	MWL-MW2	SNL0201063	08-NOV-93	0.11		0.01	F
BARIUM	MWL-MW2	SNL0201284	02-MAY-94	0.11		0.01	F
BARIUM	MWL-MW2	SNL0201402	24-OCT-94	0.1		0.01	F
BARIUM	MWL-MW2	022145-06	17-APR-95	0.091		0.002	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
BARIUM	MWL-MW2-EB	SNL0200451	07-OCT-91	0.01	U	0.01	F
BARIUM	MWL-MW2-EB	SNL0200447	07-OCT-91	0.01	U	0.01	F
BARIUM	MWL-MW2-EB	SNL0200687	22-JUL-92	0.01	U	0.01	F
BARIUM	MWL-MW2-EB	SNL0200693	22-JUL-92	0.01	U	0.01	F
BARIUM	MWL-MW2-EB	SNL0200906	20-APR-93	0.01	U	0.01	EB
BARIUM	MWL-MW2-EB	SNL0201235	27-APR-94	0.01	U	0.01	F
BARIUM	MWL-MW2-EB	SNL0201386	19-OCT-94	0.01	U	0.01	F
BARIUM	MWL-MW3	SNL0200071	28-SEP-90	0.1		0.01	F
BARIUM	MWL-MW3	SNL0200066	28-SEP-90	0.11		0.01	F
BARIUM	MWL-MW3	SNL0200190	28-JAN-91	0.1		0.01	F
BARIUM	MWL-MW3	SNL0200186	28-JAN-91	0.098		0.01	F
BARIUM	MWL-MW3	SNL0200251	02-MAY-91	0.1		0.01	F
BARIUM	MWL-MW3	SNL0200247	02-MAY-91	0.091		0.01	F
BARIUM	MWL-MW3	SNL0200398	05-AUG-91	0.082		0.01	F
BARIUM	MWL-MW3	SNL0200394	05-AUG-91	0.089		0.01	F
BARIUM	MWL-MW3	SNL0200537	15-OCT-91	0.094		0.01	F
BARIUM	MWL-MW3	SNL0200541	15-OCT-91	0.088		0.01	F
BARIUM	MWL-MW3	SNL0200768	28-JUL-92	0.078		0.01	F
BARIUM	MWL-MW3	SNL0200762	28-JUL-92	0.084		0.01	F
BARIUM	MWL-MW3	SNL0200853	19-JAN-93	0.097		0.01	F
BARIUM	MWL-MW3	SNL0200976	27-APR-93	0.074		0.01	F
BARIUM	MWL-MW3	SNL0200982	27-APR-93	0.07		0.01	F
BARIUM	MWL-MW3	SNL0201101	09-NOV-93	0.085		0.01	F
BARIUM	MWL-MW3	SNL0201338	03-MAY-94	0.1		0.01	F
BARIUM	MWL-MW3	SNL0201418	25-OCT-94	0.094		0.01	F
BARIUM	MWL-MW3	022147-06	17-APR-95	0.093		0.002	F
BARIUM	MWL-MW3	026458-07	16-OCT-95	0.0934		0.00007	SA
BARIUM	MWL-MW3-EB	SNL0200483	09-OCT-91	0.01	U	0.01	F
BARIUM	MWL-MW3-EB	SNL0200487	09-OCT-91	0.01	U	0.01	F
BARIUM	MWL-MW3-EB	SNL0200656	21-JUL-92	0.01	U	0.01	F
BARIUM	MWL-MW3-EB	SNL0200650	21-JUL-92	0.01	U	0.01	F
BARIUM	MWL-MW3-EB	SNL0200924	21-APR-93	0.01	U	0.01	EB
BARIUM	MWL-MW3-EB	SNL0201251	27-APR-94	0.0025	J	0.01	F
BARIUM	MWL-MW3-EB	SNL0201370	17-OCT-94	0.01	U	0.01	F
BARIUM	MWL-MW4	022150-06	19-APR-95	0.11		0.002	F
BARIUM	MWL-MW4	022151-06	19-APR-95	0.1		0.002	F
BARIUM	MWL-MW4	026466-07	20-OCT-95	0.108		0.00007	DU
BARIUM	MWL-MW4	026465-07	20-OCT-95	0.105		0.00007	SA
BARIUM	MWL-MW4-D	SNL0201014	28-APR-93	0.075		0.01	D
BARIUM	MWL-MW4-D	SNL0201008	28-APR-93	0.075		0.01	D
BARIUM	MWL-MW4-EB	SNL0201040	03-MAY-93	0.01	U	0.01	EB
BARIUM	MWL-MW4-EB	SNL0201178	11-NOV-93	0.01	U	0.01	F
BARIUM	MWL-MW4C	SNL0201024	30-APR-93	0.082		0.01	F
BARIUM	MWL-MW4C	SNL0201030	30-APR-93	0.081		0.01	F
BARIUM	MWL-MW4C	SNL0201158	11-NOV-93	0.085		0.01	F
BARIUM	MWL-MW4L	SNL0201199	14-MAR-94	0.13		0.01	F
BARIUM	MWL-MW4	SNL0201354	31-MAY-94	0.1		0.01	F
BARIUM	MWL-MW4	SNL0201510	28-OCT-94	0.11		0.01	F
BERYLLIUM	MWL-BW1	SNL0200026	27-SEP-90	0.002	U	0.002	F
BERYLLIUM	MWL-BW1	SNL0200021	27-SEP-90	0.002	U	0.002	F
BERYLLIUM	MWL-BW1	SNL0200788	29-JUL-92	0.002	U	0.002	F
BERYLLIUM	MWL-BW1	SNL0200782	29-JUL-92	0.002	U	0.002	F
BERYLLIUM	MWL-BW1	SNL0200863	20-JAN-93	0.002	U	0.002	F
BERYLLIUM	MWL-BW1	SNL0200873	20-JAN-93	0.002	U	0.002	D
BERYLLIUM	MWL-BW1	SNL0200998	28-APR-93	0.002	U	0.002	F
BERYLLIUM	MWL-BW1	SNL0200992	28-APR-93	0.002	U	0.002	F
BERYLLIUM	MWL-BW1	SNL0201120	10-NOV-93	0.002	U	0.002	F
BERYLLIUM	MWL-BW1	SNL0201495	27-OCT-94	0.002	U	0.002	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
BERYLLIUM	MWL-BW1	SNL0201480	27-OCT-94	0.002	U	0.002	F
BERYLLIUM	MWL-BW1	026461-07	23-OCT-95	0.00009	JB	0.00001	SA
BERYLLIUM	MWL-BW1-D	SNL0200039	27-SEP-90	0.002	U	0.002	F
BERYLLIUM	MWL-BW1-D	SNL0200044	27-SEP-90	0.002	U	0.002	F
BERYLLIUM	MWL-BW1-D	SNL0200806	29-JUL-92	0.002	U	0.002	F
BERYLLIUM	MWL-BW1-D	SNL0200800	29-JUL-92	0.002	U	0.002	F
BERYLLIUM	MWL-BW1-D	SNL0201139	10-NOV-93	0.002	U	0.002	F
BERYLLIUM	MWL-BW1-EB	SNL0200712	23-JUL-92	0.002	U	0.002	F
BERYLLIUM	MWL-BW1-EB	SNL0200706	23-JUL-92	0.002	U	0.002	F
BERYLLIUM	MWL-BW1-EB	SNL0200934	21-APR-93	0.002	U	0.002	EB
BERYLLIUM	MWL-BW1-EB	SNL0201266	27-APR-94	0.002	U	0.002	F
BERYLLIUM	MWL-BW1-EB	SNL0201464	26-OCT-94	0.002	U	0.002	F
BERYLLIUM	MWL-BW1-FB	SNL0200825	29-JUL-92	0.002	U	0.002	F
BERYLLIUM	MWL-BW1-FB	SNL0200819	29-JUL-92	0.002	U	0.002	F
BERYLLIUM	MWL-MW1	SNL0200750	28-JUL-92	0.002	U	0.002	F
BERYLLIUM	MWL-MW1	SNL0200744	28-JUL-92	0.002	U	0.002	F
BERYLLIUM	MWL-MW1	SNL0200843	19-JAN-93	0.002	U	0.002	F
BERYLLIUM	MWL-MW1	SNL0200966	27-APR-93	0.002	U	0.002	F
BERYLLIUM	MWL-MW1	SNL0200960	27-APR-93	0.0016	J	0.002	F
BERYLLIUM	MWL-MW1	SNL0201082	09-NOV-93	0.002	U	0.002	F
BERYLLIUM	MWL-MW1	SNL0201320	03-MAY-94	0.002	U	0.002	F
BERYLLIUM	MWL-MW1	SNL0201434	25-OCT-94	0.002	U	0.002	F
BERYLLIUM	MWL-MW1	SNL0201450	25-OCT-94	0.002	U	0.002	F
BERYLLIUM	MWL-MW1	022149-06	19-APR-95	0.002	U	0.002	F
BERYLLIUM	MWL-MW1	026464-07	20-OCT-95	0.00006	JB	0.00001	SA
BERYLLIUM	MWL-MW1-D	SNL0201302	04-MAY-94	0.002	U	0.002	F
BERYLLIUM	MWL-MW1-EB	SNL0200675	22-JUL-92	0.002	U	0.002	F
BERYLLIUM	MWL-MW1-EB	SNL0200669	22-JUL-92	0.002	U	0.002	F
BERYLLIUM	MWL-MW1-EB	SNL0200896	20-APR-93	0.002	U	0.002	EB
BERYLLIUM	MWL-MW1-EB	SNL0201219	26-APR-94	0.002	U	0.002	F
BERYLLIUM	MWL-MW2	SNL0200096	28-SEP-90	0.002	U	0.002	F
BERYLLIUM	MWL-MW2	SNL0200091	28-SEP-90	0.002	U	0.002	F
BERYLLIUM	MWL-MW2	SNL0200731	27-JUL-92	0.002	U	0.002	F
BERYLLIUM	MWL-MW2	SNL0200725	27-JUL-92	0.002	U	0.002	F
BERYLLIUM	MWL-MW2	SNL0200833	18-JAN-93	0.002	U	0.002	F
BERYLLIUM	MWL-MW2	SNL0200950	26-APR-93	0.002	U	0.002	F
BERYLLIUM	MWL-MW2	SNL0200944	26-APR-93	0.002	U	0.002	F
BERYLLIUM	MWL-MW2	SNL0201063	08-NOV-93	0.002	U	0.002	F
BERYLLIUM	MWL-MW2	SNL0201284	02-MAY-94	0.002	U	0.002	F
BERYLLIUM	MWL-MW2	SNL0201402	24-OCT-94	0.002	U	0.002	F
BERYLLIUM	MWL-MW2	022145-06	17-APR-95	0.002	U	0.002	F
BERYLLIUM	MWL-MW2-EB	SNL0200687	22-JUL-92	0.002	U	0.002	F
BERYLLIUM	MWL-MW2-EB	SNL0200693	22-JUL-92	0.002	U	0.002	F
BERYLLIUM	MWL-MW2-EB	SNL0200906	20-APR-93	0.002	U	0.002	EB
BERYLLIUM	MWL-MW2-EB	SNL0201235	27-APR-94	0.002	U	0.002	F
BERYLLIUM	MWL-MW2-EB	SNL0201386	19-OCT-94	0.002	U	0.002	F
BERYLLIUM	MWL-MW3	SNL0200066	28-SEP-90	0.002	U	0.002	F
BERYLLIUM	MWL-MW3	SNL0200071	28-SEP-90	0.002	U	0.002	F
BERYLLIUM	MWL-MW3	SNL0200768	28-JUL-92	0.002	U	0.002	F
BERYLLIUM	MWL-MW3	SNL0200762	28-JUL-92	0.002	U	0.002	F
BERYLLIUM	MWL-MW3	SNL0200853	19-JAN-93	0.002	U	0.002	F
BERYLLIUM	MWL-MW3	SNL0200982	27-APR-93	0.0024		0.002	F
BERYLLIUM	MWL-MW3	SNL0200976	27-APR-93	0.002	U	0.002	F
BERYLLIUM	MWL-MW3	SNL0201101	09-NOV-93	0.002	U	0.002	F
BERYLLIUM	MWL-MW3	SNL0201338	03-MAY-94	0.002	U	0.002	F
BERYLLIUM	MWL-MW3	SNL0201418	25-OCT-94	0.002	U	0.002	F
BERYLLIUM	MWL-MW3	022147-06	17-APR-95	0.002	U	0.002	F
BERYLLIUM	MWL-MW3	026458-07	16-OCT-95	0.00001	U	0.00001	SA

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
BERYLLIUM	MWL-MW3-EB	SNL0200656	21-JUL-92	0.002	U	0.002	F
BERYLLIUM	MWL-MW3-EB	SNL0200650	21-JUL-92	0.002	U	0.002	F
BERYLLIUM	MWL-MW3-EB	SNL0200924	21-APR-93	0.002	U	0.002	EB
BERYLLIUM	MWL-MW3-EB	SNL0201251	27-APR-94	0.002	U	0.002	F
BERYLLIUM	MWL-MW3-EB	SNL0201370	17-OCT-94	0.002	U	0.002	F
BERYLLIUM	MWL-MW4	022151-06	19-APR-95	0.002	U	0.002	F
BERYLLIUM	MWL-MW4	022150-06	19-APR-95	0.002	U	0.002	F
BERYLLIUM	MWL-MW4	026465-07	20-OCT-95	0.00006	JB	0.00001	SA
BERYLLIUM	MWL-MW4	026466-07	20-OCT-95	0.00006	JB	0.00001	DU
BERYLLIUM	MWL-MW4-D	SNL0201014	28-APR-93	0.002	U	0.002	D
BERYLLIUM	MWL-MW4-D	SNL0201008	28-APR-93	0.002	U	0.002	D
BERYLLIUM	MWL-MW4-EB	SNL0201040	03-MAY-93	0.002	U	0.002	EB
BERYLLIUM	MWL-MW4-EB	SNL0201178	11-NOV-93	0.002	U	0.002	F
BERYLLIUM	MWL-MW4C	SNL0201024	30-APR-93	0.002	U	0.002	F
BERYLLIUM	MWL-MW4C	SNL0201030	30-APR-93	0.002	U	0.002	F
BERYLLIUM	MWL-MW4C	SNL0201158	11-NOV-93	0.002	U	0.002	F
BERYLLIUM	MWL-MW4L	SNL0201199	14-MAR-94	0.002	U	0.002	F
BERYLLIUM	MWL-MW4	SNL0201354	31-MAY-94	0.002	U	0.002	F
BERYLLIUM	MWL-MW4	SNL0201510	28-OCT-94	0.002	U	0.002	F
CADMIUM	MWL-BW1	SNL0200021	27-SEP-90	0.005	U	0.005	F
CADMIUM	MWL-BW1	SNL0200026	27-SEP-90	0.005	U	0.005	F
CADMIUM	MWL-BW1	SNL0200110	24-JAN-91	0.005	U	0.005	F
CADMIUM	MWL-BW1	SNL0200114	24-JAN-91	0.005	U	0.005	F
CADMIUM	MWL-BW1	SNL0200293	07-MAY-91	0.005	U	0.005	F
CADMIUM	MWL-BW1	SNL0200289	07-MAY-91	0.005	U	0.005	F
CADMIUM	MWL-BW1	SNL0200415	06-AUG-91	0.005	U	0.005	F
CADMIUM	MWL-BW1	SNL0200411	06-AUG-91	0.005	U	0.005	F
CADMIUM	MWL-BW1	SNL0200573	16-OCT-91	0.005	U	0.005	F
CADMIUM	MWL-BW1	SNL0200577	16-OCT-91	0.005	U	0.005	F
CADMIUM	MWL-BW1	SNL0200782	29-JUL-92	0.005	U	0.005	F
CADMIUM	MWL-BW1	SNL0200788	29-JUL-92	0.005	U	0.005	F
CADMIUM	MWL-BW1	SNL0200873	20-JAN-93	0.023		0.005	D
CADMIUM	MWL-BW1	SNL0200863	20-JAN-93	0.031		0.005	F
CADMIUM	MWL-BW1	SNL0200992	28-APR-93	0.005	U	0.005	F
CADMIUM	MWL-BW1	SNL0200998	28-APR-93	0.005	U	0.005	F
CADMIUM	MWL-BW1	SNL0201120	10-NOV-93	0.005	U	0.005	F
CADMIUM	MWL-BW1	SNL0201495	27-OCT-94	0.005	U	0.005	F
CADMIUM	MWL-BW1	SNL0201480	27-OCT-94	0.005	U	0.005	F
CADMIUM	MWL-BW1	026461-07	23-OCT-95	0.00012	BJ	0.0001	SA
CADMIUM	MWL-BW1-D	SNL0200039	27-SEP-90	0.005	U	0.005	F
CADMIUM	MWL-BW1-D	SNL0200044	27-SEP-90	0.005	U	0.005	F
CADMIUM	MWL-BW1-D	SNL0200148	24-JAN-91	0.005	U	0.005	F
CADMIUM	MWL-BW1-D	SNL0200152	24-JAN-91	0.005	U	0.005	F
CADMIUM	MWL-BW1-D	SNL0200329	07-MAY-91	0.005	U	0.005	F
CADMIUM	MWL-BW1-D	SNL0200325	07-MAY-91	0.005	U	0.005	F
CADMIUM	MWL-BW1-D	SNL0200432	06-AUG-91	0.005	U	0.005	F
CADMIUM	MWL-BW1-D	SNL0200428	06-AUG-91	0.005	U	0.005	F
CADMIUM	MWL-BW1-D	SNL0200595	16-OCT-91	0.005	U	0.005	F
CADMIUM	MWL-BW1-D	SNL0200591	16-OCT-91	0.005	U	0.005	F
CADMIUM	MWL-BW1-D	SNL0200800	29-JUL-92	0.005	U	0.005	F
CADMIUM	MWL-BW1-D	SNL0200806	29-JUL-92	0.005	U	0.005	F
CADMIUM	MWL-BW1-D	SNL0201139	10-NOV-93	0.005	U	0.005	F
CADMIUM	MWL-BW1-EB	SNL0200505	09-OCT-91	0.005	U	0.005	F
CADMIUM	MWL-BW1-EB	SNL0200501	09-OCT-91	0.005	U	0.005	F
CADMIUM	MWL-BW1-EB	SNL0200706	23-JUL-92	0.005	U	0.005	F
CADMIUM	MWL-BW1-EB	SNL0200712	23-JUL-92	0.005	U	0.005	F
CADMIUM	MWL-BW1-EB	SNL0200934	21-APR-93	0.005	U	0.005	EB
CADMIUM	MWL-BW1-EB	SNL0201266	27-APR-94	0.005	U	0.005	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
CADMIUM	MWL-BW1-EB	SNL0201464	26-OCT-94	0.005	U	0.005	F
CADMIUM	MWL-BW1-FB	SNL0200609	16-OCT-91	0.005	U	0.005	F
CADMIUM	MWL-BW1-FB	SNL0200613	16-OCT-91	0.005	U	0.005	F
CADMIUM	MWL-BW1-FB	SNL0200825	29-JUL-92	0.005	U	0.005	F
CADMIUM	MWL-BW1-FB	SNL0200819	29-JUL-92	0.005	U	0.005	F
CADMIUM	MWL-FB	SNL0200209	28-JAN-91	0.005	U	0.005	F
CADMIUM	MWL-FB	SNL0200205	28-JAN-91	0.005	U	0.005	F
CADMIUM	MWL-FB	SNL0200265	02-MAY-91	0.005	U	0.005	F
CADMIUM	MWL-FB	SNL0200269	02-MAY-91	0.005	U	0.005	F
CADMIUM	MWL-FB	SNL0200377	01-AUG-91	0.005	U	0.005	F
CADMIUM	MWL-FB	SNL0200381	01-AUG-91	0.005	U	0.005	F
CADMIUM	MWL-MW1	SNL0200129	24-JAN-91	0.005	U	0.005	F
CADMIUM	MWL-MW1	SNL0200133	24-JAN-91	0.005	U	0.005	F
CADMIUM	MWL-MW1	SNL0200307	07-MAY-91	0.005	U	0.005	F
CADMIUM	MWL-MW1	SNL0200311	07-MAY-91	0.005	U	0.005	F
CADMIUM	MWL-MW1	SNL0200345	31-JUL-91	0.005	U	0.005	F
CADMIUM	MWL-MW1	SNL0200349	31-JUL-91	0.005	U	0.005	F
CADMIUM	MWL-MW1	SNL0200559	15-OCT-91	0.005	U	0.005	F
CADMIUM	MWL-MW1	SNL0200555	15-OCT-91	0.005	U	0.005	F
CADMIUM	MWL-MW1	SNL0200744	28-JUL-92	0.005	U	0.005	F
CADMIUM	MWL-MW1	SNL0200750	28-JUL-92	0.005	U	0.005	F
CADMIUM	MWL-MW1	SNL0200843	19-JAN-93	0.0086		0.005	F
CADMIUM	MWL-MW1	SNL0200966	27-APR-93	0.005	U	0.005	F
CADMIUM	MWL-MW1	SNL0200960	27-APR-93	0.005	U	0.005	F
CADMIUM	MWL-MW1	SNL0201082	09-NOV-93	0.005	U	0.005	F
CADMIUM	MWL-MW1	SNL0201320	03-MAY-94	0.005	U	0.005	F
CADMIUM	MWL-MW1	SNL0201434	25-OCT-94	0.005	U	0.005	F
CADMIUM	MWL-MW1	SNL0201450	25-OCT-94	0.005	U	0.005	F
CADMIUM	MWL-MW1	022149-06	19-APR-95	0.005	U	0.0049	F
CADMIUM	MWL-MW1	026464-07	20-OCT-95	0.00013	JB	0.0001	SA
CADMIUM	MWL-MW1-D	SNL0201302	04-MAY-94	0.005	U	0.005	F
CADMIUM	MWL-MW1-EB	SNL0200469	08-OCT-91	0.005	U	0.005	F
CADMIUM	MWL-MW1-EB	SNL0200465	08-OCT-91	0.005	U	0.005	F
CADMIUM	MWL-MW1-EB	SNL0200669	22-JUL-92	0.005	U	0.005	F
CADMIUM	MWL-MW1-EB	SNL0200675	22-JUL-92	0.005	U	0.005	F
CADMIUM	MWL-MW1-EB	SNL0200896	20-APR-93	0.005	U	0.005	EB
CADMIUM	MWL-MW1-EB	SNL0201219	26-APR-94	0.005	U	0.005	F
CADMIUM	MWL-MW2	SNL0200091	28-SEP-90	0.005	U	0.005	F
CADMIUM	MWL-MW2	SNL0200096	28-SEP-90	0.005	U	0.005	F
CADMIUM	MWL-MW2	SNL0200171	28-JAN-91	0.005	U	0.005	F
CADMIUM	MWL-MW2	SNL0200167	28-JAN-91	0.005	U	0.005	F
CADMIUM	MWL-MW2	SNL0200233	02-MAY-91	0.005	U	0.005	F
CADMIUM	MWL-MW2	SNL0200229	02-MAY-91	0.005	U	0.005	F
CADMIUM	MWL-MW2	SNL0200360	01-AUG-91	0.005	U	0.005	F
CADMIUM	MWL-MW2	SNL0200364	01-AUG-91	0.005	U	0.005	F
CADMIUM	MWL-MW2	SNL0200523	14-OCT-91	0.005	U	0.005	F
CADMIUM	MWL-MW2	SNL0200519	14-OCT-91	0.005	U	0.005	F
CADMIUM	MWL-MW2	SNL0200725	27-JUL-92	0.005	U	0.005	F
CADMIUM	MWL-MW2	SNL0200731	27-JUL-92	0.005	U	0.005	F
CADMIUM	MWL-MW2	SNL0200833	18-JAN-93	0.016		0.005	F
CADMIUM	MWL-MW2	SNL0200950	26-APR-93	0.005	U	0.005	F
CADMIUM	MWL-MW2	SNL0200944	26-APR-93	0.005	U	0.005	F
CADMIUM	MWL-MW2	SNL0201063	08-NOV-93	0.005	U	0.005	F
CADMIUM	MWL-MW2	SNL0201284	02-MAY-94	0.005	U	0.005	F
CADMIUM	MWL-MW2	SNL0201402	24-OCT-94	0.005	U	0.005	F
CADMIUM	MWL-MW2	022145-06	17-APR-95	0.005	U	0.0049	F
CADMIUM	MWL-MW2-EB	SNL0200451	07-OCT-91	0.005	U	0.005	F
CADMIUM	MWL-MW2-EB	SNL0200447	07-OCT-91	0.005	U	0.005	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
CADMIUM	MWL-MW2-EB	SNL0200687	22-JUL-92	0.005	U	0.005	F
CADMIUM	MWL-MW2-EB	SNL0200693	22-JUL-92	0.005	U	0.005	F
CADMIUM	MWL-MW2-EB	SNL0200906	20-APR-93	0.005	U	0.005	EB
CADMIUM	MWL-MW2-EB	SNL0201235	27-APR-94	0.005	U	0.005	F
CADMIUM	MWL-MW2-EB	SNL0201386	19-OCT-94	0.005	U	0.005	F
CADMIUM	MWL-MW3	SNL0200066	28-SEP-90	0.005	U	0.005	F
CADMIUM	MWL-MW3	SNL0200071	28-SEP-90	0.005	U	0.005	F
CADMIUM	MWL-MW3	SNL0200190	28-JAN-91	0.005	U	0.005	F
CADMIUM	MWL-MW3	SNL0200186	28-JAN-91	0.005	U	0.005	F
CADMIUM	MWL-MW3	SNL0200251	02-MAY-91	0.005	U	0.005	F
CADMIUM	MWL-MW3	SNL0200247	02-MAY-91	0.005	U	0.005	F
CADMIUM	MWL-MW3	SNL0200394	05-AUG-91	0.005	U	0.005	F
CADMIUM	MWL-MW3	SNL0200398	05-AUG-91	0.005	U	0.005	F
CADMIUM	MWL-MW3	SNL0200541	15-OCT-91	0.005	U	0.005	F
CADMIUM	MWL-MW3	SNL0200537	15-OCT-91	0.005	U	0.005	F
CADMIUM	MWL-MW3	SNL0200768	28-JUL-92	0.005	U	0.005	F
CADMIUM	MWL-MW3	SNL0200762	28-JUL-92	0.005	U	0.005	F
CADMIUM	MWL-MW3	SNL0200853	19-JAN-93	0.029		0.005	F
CADMIUM	MWL-MW3	SNL0200976	27-APR-93	0.005	U	0.005	F
CADMIUM	MWL-MW3	SNL0200982	27-APR-93	0.005	U	0.005	F
CADMIUM	MWL-MW3	SNL0201101	09-NOV-93	0.005	U	0.005	F
CADMIUM	MWL-MW3	SNL0201338	03-MAY-94	0.005	U	0.005	F
CADMIUM	MWL-MW3	SNL0201418	25-OCT-94	0.005	U	0.005	F
CADMIUM	MWL-MW3	022147-06	17-APR-95	0.005	U	0.0049	F
CADMIUM	MWL-MW3	026458-07	16-OCT-95	0.0002	J	0.0001	SA
CADMIUM	MWL-MW3-EB	SNL0200487	09-OCT-91	0.005	U	0.005	F
CADMIUM	MWL-MW3-EB	SNL0200483	09-OCT-91	0.005	U	0.005	F
CADMIUM	MWL-MW3-EB	SNL0200656	21-JUL-92	0.005	U	0.005	F
CADMIUM	MWL-MW3-EB	SNL0200650	21-JUL-92	0.005	U	0.005	F
CADMIUM	MWL-MW3-EB	SNL0200924	21-APR-93	0.005	U	0.005	EB
CADMIUM	MWL-MW3-EB	SNL0201251	27-APR-94	0.005	U	0.005	F
CADMIUM	MWL-MW3-EB	SNL0201370	17-OCT-94	0.005	U	0.005	F
CADMIUM	MWL-MW4	022151-06	19-APR-95	0.005	U	0.0049	F
CADMIUM	MWL-MW4	022150-06	19-APR-95	0.005	U	0.0049	F
CADMIUM	MWL-MW4	026465-07	20-OCT-95	0.00093	JB	0.0001	SA
CADMIUM	MWL-MW4	026466-07	20-OCT-95	0.00087	JB	0.0001	DU
CADMIUM	MWL-MW4-D	SNL0201014	28-APR-93	0.005	U	0.005	D
CADMIUM	MWL-MW4-D	SNL0201008	28-APR-93	0.005	U	0.005	D
CADMIUM	MWL-MW4-EB	SNL0201040	03-MAY-93	0.005	U	0.005	EB
CADMIUM	MWL-MW4-EB	SNL0201178	11-NOV-93	0.005	U	0.005	F
CADMIUM	MWL-MW4C	SNL0201024	30-APR-93	0.005	U	0.005	F
CADMIUM	MWL-MW4C	SNL0201030	30-APR-93	0.005	U	0.005	F
CADMIUM	MWL-MW4C	SNL0201158	11-NOV-93	0.005	U	0.005	F
CADMIUM	MWL-MW4L	SNL0201199	14-MAR-94	0.005	U	0.005	F
CADMIUM	MWL-MW4	SNL0201354	31-MAY-94	0.005	U	0.005	F
CADMIUM	MWL-MW4	SNL0201510	28-OCT-94	0.005	U	0.005	F
CALCIUM	MWL-BW1	SNL0200788	29-JUL-92	52.4		0.2	F
CALCIUM	MWL-BW1	SNL0200782	29-JUL-92	52.5		0.2	F
CALCIUM	MWL-BW1	SNL0200863	20-JAN-93	53.9		0.2	F
CALCIUM	MWL-BW1	SNL0200873	20-JAN-93	55.1		0.2	D
CALCIUM	MWL-BW1	SNL0200998	28-APR-93	48		0.2	F
CALCIUM	MWL-BW1	SNL0200992	28-APR-93	46.6		0.2	F
CALCIUM	MWL-BW1	SNL0201120	10-NOV-93	54.1		0.2	F
CALCIUM	MWL-BW1	SNL0201480	27-OCT-94	55.8		0.2	F
CALCIUM	MWL-BW1	SNL0201495	27-OCT-94	54.7		0.2	F
CALCIUM	MWL-BW1	026461-07	23-OCT-95	56.8		0.02	SA
CALCIUM	MWL-BW1-D	SNL0200806	29-JUL-92	51.5		0.2	F
CALCIUM	MWL-BW1-D	SNL0200800	29-JUL-92	51.2		0.2	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
CALCIUM	MWL-BW1-D	SNL0201139	10-NOV-93	54.7		0.2	F
CALCIUM	MWL-BW1-EB	SNL0200706	23-JUL-92	0.2	U	0.2	F
CALCIUM	MWL-BW1-EB	SNL0200712	23-JUL-92	0.25		0.2	F
CALCIUM	MWL-BW1-EB	SNL0200934	21-APR-93	0.11	J	0.2	EB
CALCIUM	MWL-BW1-EB	SNL0201266	27-APR-94	0.19	J	0.2	F
CALCIUM	MWL-BW1-EB	SNL0201464	26-OCT-94	0.24		0.2	F
CALCIUM	MWL-BW1-FB	SNL0200819	29-JUL-92	0.2	U	0.2	F
CALCIUM	MWL-BW1-FB	SNL0200825	29-JUL-92	0.2	U	0.2	F
CALCIUM	MWL-MW1	SNL0200750	28-JUL-92	54.7		0.2	F
CALCIUM	MWL-MW1	SNL0200744	28-JUL-92	55.9		0.2	F
CALCIUM	MWL-MW1	SNL0200843	19-JAN-93	59.1		0.2	F
CALCIUM	MWL-MW1	SNL0200960	27-APR-93	51.8		0.2	F
CALCIUM	MWL-MW1	SNL0200966	27-APR-93	50.7		0.2	F
CALCIUM	MWL-MW1	SNL0201082	09-NOV-93	57.1		0.2	F
CALCIUM	MWL-MW1	SNL0201320	03-MAY-94	65.1		0.2	F
CALCIUM	MWL-MW1	SNL0201450	25-OCT-94	59.6		0.2	F
CALCIUM	MWL-MW1	SNL0201434	25-OCT-94	60.3		0.2	F
CALCIUM	MWL-MW1	022149-06	19-APR-95	61.1		0.134	F
CALCIUM	MWL-MW1	026464-07	20-OCT-95	58.6		0.02	SA
CALCIUM	MWL-MW1-D	SNL0201302	04-MAY-94	64.1		0.2	F
CALCIUM	MWL-MW1-EB	SNL0200669	22-JUL-92	0.2	U	0.2	F
CALCIUM	MWL-MW1-EB	SNL0200675	22-JUL-92	0.2	U	0.2	F
CALCIUM	MWL-MW1-EB	SNL0200896	20-APR-93	0.13	J	0.2	EB
CALCIUM	MWL-MW1-EB	SNL0201219	26-APR-94	0.13	J	0.2	F
CALCIUM	MWL-MW2	SNL0200725	27-JUL-92	46.8		0.2	F
CALCIUM	MWL-MW2	SNL0200731	27-JUL-92	47		0.2	F
CALCIUM	MWL-MW2	SNL0200833	18-JAN-93	50.7		0.2	F
CALCIUM	MWL-MW2	SNL0200950	26-APR-93	47		0.2	F
CALCIUM	MWL-MW2	SNL0200944	26-APR-93	47.1		0.2	F
CALCIUM	MWL-MW2	SNL0201063	08-NOV-93	51.3		0.2	F
CALCIUM	MWL-MW2	SNL0201284	02-MAY-94	56.8		0.2	F
CALCIUM	MWL-MW2	SNL0201402	24-OCT-94	54.9		0.2	F
CALCIUM	MWL-MW2	022145-06	17-APR-95	42.8		0.134	F
CALCIUM	MWL-MW2-EB	SNL0200693	22-JUL-92	0.2	U	0.2	F
CALCIUM	MWL-MW2-EB	SNL0200687	22-JUL-92	0.2	U	0.2	F
CALCIUM	MWL-MW2-EB	SNL0200906	20-APR-93	0.093	J	0.2	EB
CALCIUM	MWL-MW2-EB	SNL0201235	27-APR-94	0.2	U	0.2	F
CALCIUM	MWL-MW2-EB	SNL0201386	19-OCT-94	0.095	J	0.2	F
CALCIUM	MWL-MW3	SNL0200762	28-JUL-92	45.3		0.2	F
CALCIUM	MWL-MW3	SNL0200768	28-JUL-92	43.7		0.2	F
CALCIUM	MWL-MW3	SNL0200853	19-JAN-93	48.6		0.2	F
CALCIUM	MWL-MW3	SNL0200976	27-APR-93	42.1		0.2	F
CALCIUM	MWL-MW3	SNL0200982	27-APR-93	40.5		0.2	F
CALCIUM	MWL-MW3	SNL0201101	09-NOV-93	44.2		0.2	F
CALCIUM	MWL-MW3	SNL0201338	03-MAY-94	49.1		0.2	F
CALCIUM	MWL-MW3	SNL0201418	25-OCT-94	48.2		0.2	F
CALCIUM	MWL-MW3	022147-06	17-APR-95	39.2		0.134	F
CALCIUM	MWL-MW3	026458-07	16-OCT-95	45.7		0.02	SA
CALCIUM	MWL-MW3-EB	SNL0200656	21-JUL-92	0.3		0.2	F
CALCIUM	MWL-MW3-EB	SNL0200650	21-JUL-92	0.43		0.2	F
CALCIUM	MWL-MW3-EB	SNL0200924	21-APR-93	0.062	J	0.2	EB
CALCIUM	MWL-MW3-EB	SNL0201251	27-APR-94	0.53		0.2	F
CALCIUM	MWL-MW3-EB	SNL0201370	17-OCT-94	0.12	J	0.2	F
CALCIUM	MWL-MW4	022150-06	19-APR-95	68.7		0.134	F
CALCIUM	MWL-MW4	022151-06	19-APR-95	65.5		0.134	F
CALCIUM	MWL-MW4	026466-07	20-OCT-95	62.9		0.02	DU
CALCIUM	MWL-MW4	026465-07	20-OCT-95	61.1		0.02	SA
CALCIUM	MWL-MW4-D	SNL0201008	28-APR-93	47.8		0.2	D

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
CALCIUM	MWL-MW4-D	SNL0201014	28-APR-93	48.5		0.2	D
CALCIUM	MWL-MW4-EB	SNL0201040	03-MAY-93	0.27		0.2	EB
CALCIUM	MWL-MW4-EB	SNL0201178	11-NOV-93	0.2	U	0.2	F
CALCIUM	MWL-MW4C	SNL0201030	30-APR-93	54.4		0.2	F
CALCIUM	MWL-MW4C	SNL0201024	30-APR-93	52.1		0.2	F
CALCIUM	MWL-MW4C	SNL0201158	11-NOV-93	55.4		0.2	F
CALCIUM	MWL-MW4L	SNL0201199	14-MAR-94	83		0.2	F
CALCIUM	MWL-MW4	SNL0201354	31-MAY-94	57.4	B	0.2	F
CALCIUM	MWL-MW4	SNL0201510	28-OCT-94	59.7		0.2	F
CHROMIUM	MWL-BW1	SNL0200021	27-SEP-90	0.01	U	0.01	F
CHROMIUM	MWL-BW1	SNL0200026	27-SEP-90	0.01	U	0.01	F
CHROMIUM	MWL-BW1	SNL0200114	24-JAN-91	0.01	U	0.01	F
CHROMIUM	MWL-BW1	SNL0200110	24-JAN-91	0.01	U	0.01	F
CHROMIUM	MWL-BW1	SNL0200289	07-MAY-91	0.01	U	0.01	F
CHROMIUM	MWL-BW1	SNL0200293	07-MAY-91	0.01	U	0.01	F
CHROMIUM	MWL-BW1	SNL0200415	06-AUG-91	0.01	U	0.01	F
CHROMIUM	MWL-BW1	SNL0200411	06-AUG-91	0.01	U	0.01	F
CHROMIUM	MWL-BW1	SNL0200573	16-OCT-91	0.01	U	0.01	F
CHROMIUM	MWL-BW1	SNL0200577	16-OCT-91	0.01	U	0.01	F
CHROMIUM	MWL-BW1	SNL0200782	29-JUL-92	0.01	U	0.01	F
CHROMIUM	MWL-BW1	SNL0200788	29-JUL-92	0.01	U	0.01	F
CHROMIUM	MWL-BW1	SNL0200873	20-JAN-93	0.012		0.01	D
CHROMIUM	MWL-BW1	SNL0200863	20-JAN-93	0.017		0.01	F
CHROMIUM	MWL-BW1	SNL0200998	28-APR-93	0.01	U	0.01	F
CHROMIUM	MWL-BW1	SNL0200992	28-APR-93	0.01	U	0.01	F
CHROMIUM	MWL-BW1	SNL0201120	10-NOV-93	0.011		0.01	F
CHROMIUM	MWL-BW1	SNL0201495	27-OCT-94	0.01	U	0.01	F
CHROMIUM	MWL-BW1	SNL0201480	27-OCT-94	0.0041	J	0.01	F
CHROMIUM	MWL-BW1	026461-07	23-OCT-95	0.00411	J	0.0006	SA
CHROMIUM	MWL-BW1-D	SNL0200044	27-SEP-90	0.01	U	0.01	F
CHROMIUM	MWL-BW1-D	SNL0200039	27-SEP-90	0.01	U	0.01	F
CHROMIUM	MWL-BW1-D	SNL0200148	24-JAN-91	0.01	U	0.01	F
CHROMIUM	MWL-BW1-D	SNL0200152	24-JAN-91	0.01	U	0.01	F
CHROMIUM	MWL-BW1-D	SNL0200329	07-MAY-91	0.01	U	0.01	F
CHROMIUM	MWL-BW1-D	SNL0200325	07-MAY-91	0.01	U	0.01	F
CHROMIUM	MWL-BW1-D	SNL0200432	06-AUG-91	0.01	U	0.01	F
CHROMIUM	MWL-BW1-D	SNL0200428	06-AUG-91	0.01	U	0.01	F
CHROMIUM	MWL-BW1-D	SNL0200591	16-OCT-91	0.01	U	0.01	F
CHROMIUM	MWL-BW1-D	SNL0200595	16-OCT-91	0.01	U	0.01	F
CHROMIUM	MWL-BW1-D	SNL0200800	29-JUL-92	0.01	U	0.01	F
CHROMIUM	MWL-BW1-D	SNL0200806	29-JUL-92	0.01	U	0.01	F
CHROMIUM	MWL-BW1-D	SNL0201139	10-NOV-93	0.0092	J	0.01	F
CHROMIUM	MWL-BW1-EB	SNL0200501	09-OCT-91	0.01	U	0.01	F
CHROMIUM	MWL-BW1-EB	SNL0200505	09-OCT-91	0.01	U	0.01	F
CHROMIUM	MWL-BW1-EB	SNL0200706	23-JUL-92	0.01	U	0.01	F
CHROMIUM	MWL-BW1-EB	SNL0200712	23-JUL-92	0.01	U	0.01	F
CHROMIUM	MWL-BW1-EB	SNL0200934	21-APR-93	0.01	U	0.01	EB
CHROMIUM	MWL-BW1-EB	SNL0201266	27-APR-94	0.01	U	0.01	F
CHROMIUM	MWL-BW1-EB	SNL0201464	26-OCT-94	0.01	U	0.01	F
CHROMIUM	MWL-BW1-FB	SNL0200613	16-OCT-91	0.01	U	0.01	F
CHROMIUM	MWL-BW1-FB	SNL0200609	16-OCT-91	0.01	U	0.01	F
CHROMIUM	MWL-BW1-FB	SNL0200825	29-JUL-92	0.01	U	0.01	F
CHROMIUM	MWL-BW1-FB	SNL0200819	29-JUL-92	0.01	U	0.01	F
CHROMIUM	MWL-FB	SNL0200209	28-JAN-91	0.01	U	0.01	F
CHROMIUM	MWL-FB	SNL0200205	28-JAN-91	0.01	U	0.01	F
CHROMIUM	MWL-FB	SNL0200265	02-MAY-91	0.01	U	0.01	F
CHROMIUM	MWL-FB	SNL0200269	02-MAY-91	0.01	U	0.01	F
CHROMIUM	MWL-FB	SNL0200381	01-AUG-91	0.01	U	0.01	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
CHROMIUM	MWL-FB	SNL0200377	01-AUG-91	0.01	U	0.01	F
CHROMIUM	MWL-MW1	SNL0200129	24-JAN-91	0.021		0.01	F
CHROMIUM	MWL-MW1	SNL0200133	24-JAN-91	0.01	U	0.01	F
CHROMIUM	MWL-MW1	SNL0200307	07-MAY-91	0.015		0.01	F
CHROMIUM	MWL-MW1	SNL0200311	07-MAY-91	0.01	U	0.01	F
CHROMIUM	MWL-MW1	SNL0200345	31-JUL-91	0.011		0.01	F
CHROMIUM	MWL-MW1	SNL0200349	31-JUL-91	0.01	U	0.01	F
CHROMIUM	MWL-MW1	SNL0200555	15-OCT-91	0.019		0.01	F
CHROMIUM	MWL-MW1	SNL0200559	15-OCT-91	0.01	U	0.01	F
CHROMIUM	MWL-MW1	SNL0200744	28-JUL-92	0.011		0.01	F
CHROMIUM	MWL-MW1	SNL0200750	28-JUL-92	0.01	U	0.01	F
CHROMIUM	MWL-MW1	SNL0200843	19-JAN-93	0.011		0.01	F
CHROMIUM	MWL-MW1	SNL0200960	27-APR-93	0.01	U	0.01	F
CHROMIUM	MWL-MW1	SNL0200966	27-APR-93	0.01	U	0.01	F
CHROMIUM	MWL-MW1	SNL0201082	09-NOV-93	0.01		0.01	F
CHROMIUM	MWL-MW1	SNL0201320	03-MAY-94	0.01	U	0.01	F
CHROMIUM	MWL-MW1	SNL0201450	25-OCT-94	0.01	U	0.01	F
CHROMIUM	MWL-MW1	SNL0201434	25-OCT-94	0.01	U	0.01	F
CHROMIUM	MWL-MW1	022149-06	19-APR-95	0.01	U	0.003	F
CHROMIUM	MWL-MW1	026464-07	20-OCT-95	0.0428		0.0006	SA
CHROMIUM	MWL-MW1-D	SNL0201302	04-MAY-94	0.01	U	0.01	F
CHROMIUM	MWL-MW1-EB	SNL0200469	08-OCT-91	0.01	U	0.01	F
CHROMIUM	MWL-MW1-EB	SNL0200465	08-OCT-91	0.01	U	0.01	F
CHROMIUM	MWL-MW1-EB	SNL0200675	22-JUL-92	0.01	U	0.01	F
CHROMIUM	MWL-MW1-EB	SNL0200669	22-JUL-92	0.01	U	0.01	F
CHROMIUM	MWL-MW1-EB	SNL0200896	20-APR-93	0.01	U	0.01	EB
CHROMIUM	MWL-MW1-EB	SNL0201219	26-APR-94	0.01	U	0.01	F
CHROMIUM	MWL-MW2	SNL0200091	28-SEP-90	0.01	U	0.01	F
CHROMIUM	MWL-MW2	SNL0200096	28-SEP-90	0.01	U	0.01	F
CHROMIUM	MWL-MW2	SNL0200171	28-JAN-91	0.01	U	0.01	F
CHROMIUM	MWL-MW2	SNL0200167	28-JAN-91	0.017		0.01	F
CHROMIUM	MWL-MW2	SNL0200233	02-MAY-91	0.01	U	0.01	F
CHROMIUM	MWL-MW2	SNL0200229	02-MAY-91	0.014		0.01	F
CHROMIUM	MWL-MW2	SNL0200360	01-AUG-91	0.01	U	0.01	F
CHROMIUM	MWL-MW2	SNL0200364	01-AUG-91	0.01	U	0.01	F
CHROMIUM	MWL-MW2	SNL0200523	14-OCT-91	0.01	U	0.01	F
CHROMIUM	MWL-MW2	SNL0200519	14-OCT-91	0.02		0.01	F
CHROMIUM	MWL-MW2	SNL0200725	27-JUL-92	0.01	U	0.01	F
CHROMIUM	MWL-MW2	SNL0200731	27-JUL-92	0.01	U	0.01	F
CHROMIUM	MWL-MW2	SNL0200833	18-JAN-93	0.014		0.01	F
CHROMIUM	MWL-MW2	SNL0200944	26-APR-93	0.016		0.01	F
CHROMIUM	MWL-MW2	SNL0200950	26-APR-93	0.0077	J	0.01	F
CHROMIUM	MWL-MW2	SNL0201063	08-NOV-93	0.01	U	0.01	F
CHROMIUM	MWL-MW2	SNL0201284	02-MAY-94	0.0057	J	0.01	F
CHROMIUM	MWL-MW2	SNL0201402	24-OCT-94	0.0085	J	0.01	F
CHROMIUM	MWL-MW2	022145-06	17-APR-95	0.01	U	0.003	F
CHROMIUM	MWL-MW2-EB	SNL0200451	07-OCT-91	0.01	U	0.01	F
CHROMIUM	MWL-MW2-EB	SNL0200447	07-OCT-91	0.01	U	0.01	F
CHROMIUM	MWL-MW2-EB	SNL0200687	22-JUL-92	0.01	U	0.01	F
CHROMIUM	MWL-MW2-EB	SNL0200693	22-JUL-92	0.01	U	0.01	F
CHROMIUM	MWL-MW2-EB	SNL0200906	20-APR-93	0.01	U	0.01	EB
CHROMIUM	MWL-MW2-EB	SNL0201235	27-APR-94	0.01	U	0.01	F
CHROMIUM	MWL-MW2-EB	SNL0201386	19-OCT-94	0.01	U	0.01	F
CHROMIUM	MWL-MW3	SNL0200071	28-SEP-90	0.01	U	0.01	F
CHROMIUM	MWL-MW3	SNL0200066	28-SEP-90	0.013		0.01	F
CHROMIUM	MWL-MW3	SNL0200190	28-JAN-91	0.016		0.01	F
CHROMIUM	MWL-MW3	SNL0200186	28-JAN-91	0.021		0.01	F
CHROMIUM	MWL-MW3	SNL0200247	02-MAY-91	0.017		0.01	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
CHROMIUM	MWL-MW3	SNL0200251	02-MAY-91	0.01	U	0.01	F
CHROMIUM	MWL-MW3	SNL0200398	05-AUG-91	0.015		0.01	F
CHROMIUM	MWL-MW3	SNL0200394	05-AUG-91	0.027		0.01	F
CHROMIUM	MWL-MW3	SNL0200541	15-OCT-91	0.01	U	0.01	F
CHROMIUM	MWL-MW3	SNL0200537	15-OCT-91	0.018		0.01	F
CHROMIUM	MWL-MW3	SNL0200768	28-JUL-92	0.01	U	0.01	F
CHROMIUM	MWL-MW3	SNL0200762	28-JUL-92	0.056		0.01	F
CHROMIUM	MWL-MW3	SNL0200853	19-JAN-93	0.026		0.01	F
CHROMIUM	MWL-MW3	SNL0200982	27-APR-93	0.011		0.01	F
CHROMIUM	MWL-MW3	SNL0200976	27-APR-93	0.029		0.01	F
CHROMIUM	MWL-MW3	SNL0201101	09-NOV-93	0.01		0.01	F
CHROMIUM	MWL-MW3	SNL0201338	03-MAY-94	0.0092	J	0.01	F
CHROMIUM	MWL-MW3	SNL0201418	25-OCT-94	0.01	U	0.01	F
CHROMIUM	MWL-MW3	022147-06	17-APR-95	0.01	U	0.003	F
CHROMIUM	MWL-MW3	026458-07	16-OCT-95	0.0369		0.0006	SA
CHROMIUM	MWL-MW3-EB	SNL0200483	09-OCT-91	0.01	U	0.01	F
CHROMIUM	MWL-MW3-EB	SNL0200487	09-OCT-91	0.01	U	0.01	F
CHROMIUM	MWL-MW3-EB	SNL0200656	21-JUL-92	0.01	U	0.01	F
CHROMIUM	MWL-MW3-EB	SNL0200650	21-JUL-92	0.072		0.01	F
CHROMIUM	MWL-MW3-EB	SNL0200924	21-APR-93	0.01	U	0.01	EB
CHROMIUM	MWL-MW3-EB	SNL0201251	27-APR-94	0.01	U	0.01	F
CHROMIUM	MWL-MW3-EB	SNL0201370	17-OCT-94	0.01	U	0.01	F
CHROMIUM	MWL-MW4	022150-06	19-APR-95	0.01	U	0.003	F
CHROMIUM	MWL-MW4	022151-06	19-APR-95	0.01	U	0.003	F
CHROMIUM	MWL-MW4	026466-07	20-OCT-95	0.0006	U	0.0006	DU
CHROMIUM	MWL-MW4	026465-07	20-OCT-95	0.0006	U	0.0006	SA
CHROMIUM	MWL-MW4-D	SNL0201014	28-APR-93	0.01	U	0.01	D
CHROMIUM	MWL-MW4-D	SNL0201008	28-APR-93	0.01	U	0.01	D
CHROMIUM	MWL-MW4-EB	SNL0201040	03-MAY-93	0.014		0.01	EB
CHROMIUM	MWL-MW4-EB	SNL0201178	11-NOV-93	0.0066	J	0.01	F
CHROMIUM	MWL-MW4C	SNL0201024	30-APR-93	0.01	U	0.01	F
CHROMIUM	MWL-MW4C	SNL0201030	30-APR-93	0.01	U	0.01	F
CHROMIUM	MWL-MW4C	SNL0201158	11-NOV-93	0.003	J	0.01	F
CHROMIUM	MWL-MW4L	SNL0201199	14-MAR-94	0.01	U	0.01	F
CHROMIUM	MWL-MW4	SNL0201354	31-MAY-94	0.01	U	0.01	F
CHROMIUM	MWL-MW4	SNL0201510	28-OCT-94	0.01	U	0.01	F
COBALT	MWL-BW1	SNL0200021	27-SEP-90	0.01	U	0.01	F
COBALT	MWL-BW1	SNL0200026	27-SEP-90	0.01	U	0.01	F
COBALT	MWL-BW1	SNL0200788	29-JUL-92	0.01	U	0.01	F
COBALT	MWL-BW1	SNL0200782	29-JUL-92	0.01	U	0.01	F
COBALT	MWL-BW1	SNL0200863	20-JAN-93	0.01	U	0.01	F
COBALT	MWL-BW1	SNL0200873	20-JAN-93	0.01	U	0.01	D
COBALT	MWL-BW1	SNL0200992	28-APR-93	0.01	U	0.01	F
COBALT	MWL-BW1	SNL0200998	28-APR-93	0.01	U	0.01	F
COBALT	MWL-BW1	SNL0201120	10-NOV-93	0.01	U	0.01	F
COBALT	MWL-BW1	SNL0201480	27-OCT-94	0.01	U	0.01	F
COBALT	MWL-BW1	SNL0201495	27-OCT-94	0.01	U	0.01	F
COBALT	MWL-BW1	026461-07	23-OCT-95	0.00069	J	0.00018	SA
COBALT	MWL-BW1-D	SNL0200044	27-SEP-90	0.01	U	0.01	F
COBALT	MWL-BW1-D	SNL0200039	27-SEP-90	0.01	U	0.01	F
COBALT	MWL-BW1-D	SNL0200806	29-JUL-92	0.01	U	0.01	F
COBALT	MWL-BW1-D	SNL0200800	29-JUL-92	0.01	U	0.01	F
COBALT	MWL-BW1-D	SNL0201139	10-NOV-93	0.01	U	0.01	F
COBALT	MWL-BW1-EB	SNL0200706	23-JUL-92	0.01	U	0.01	F
COBALT	MWL-BW1-EB	SNL0200712	23-JUL-92	0.01	U	0.01	F
COBALT	MWL-BW1-EB	SNL0200934	21-APR-93	0.01	U	0.01	EB
COBALT	MWL-BW1-EB	SNL0201266	27-APR-94	0.01	U	0.01	F
COBALT	MWL-BW1-EB	SNL0201464	26-OCT-94	0.01	U	0.01	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
COBALT	MWL-BW1-FB	SNL0200825	29-JUL-92	0.01	U	0.01	F
COBALT	MWL-BW1-FB	SNL0200819	29-JUL-92	0.01	U	0.01	F
COBALT	MWL-MW1	SNL0200750	28-JUL-92	0.01	U	0.01	F
COBALT	MWL-MW1	SNL0200744	28-JUL-92	0.01	U	0.01	F
COBALT	MWL-MW1	SNL0200843	19-JAN-93	0.01	U	0.01	F
COBALT	MWL-MW1	SNL0200966	27-APR-93	0.01	U	0.01	F
COBALT	MWL-MW1	SNL0200960	27-APR-93	0.01	U	0.01	F
COBALT	MWL-MW1	SNL0201082	09-NOV-93	0.01	U	0.01	F
COBALT	MWL-MW1	SNL0201320	03-MAY-94	0.01	U	0.01	F
COBALT	MWL-MW1	SNL0201434	25-OCT-94	0.01	U	0.01	F
COBALT	MWL-MW1	SNL0201450	25-OCT-94	0.01	U	0.01	F
COBALT	MWL-MW1	022149-06	19-APR-95	0.01	U	0.004	F
COBALT	MWL-MW1	026464-07	20-OCT-95	0.00092	J	0.00018	SA
COBALT	MWL-MW1-D	SNL0201302	04-MAY-94	0.01	U	0.01	F
COBALT	MWL-MW1-EB	SNL0200675	22-JUL-92	0.01	U	0.01	F
COBALT	MWL-MW1-EB	SNL0200669	22-JUL-92	0.01	U	0.01	F
COBALT	MWL-MW1-EB	SNL0200896	20-APR-93	0.01	U	0.01	EB
COBALT	MWL-MW1-EB	SNL0201219	26-APR-94	0.004	J	0.01	F
COBALT	MWL-MW2	SNL0200096	28-SEP-90	0.01	U	0.01	F
COBALT	MWL-MW2	SNL0200091	28-SEP-90	0.01	U	0.01	F
COBALT	MWL-MW2	SNL0200731	27-JUL-92	0.01	U	0.01	F
COBALT	MWL-MW2	SNL0200725	27-JUL-92	0.01	U	0.01	F
COBALT	MWL-MW2	SNL0200833	18-JAN-93	0.01	U	0.01	F
COBALT	MWL-MW2	SNL0200944	26-APR-93	0.01	U	0.01	F
COBALT	MWL-MW2	SNL0200950	26-APR-93	0.01	U	0.01	F
COBALT	MWL-MW2	SNL0201063	08-NOV-93	0.01	U	0.01	F
COBALT	MWL-MW2	SNL0201284	02-MAY-94	0.01	U	0.01	F
COBALT	MWL-MW2	SNL0201402	24-OCT-94	0.01	U	0.01	F
COBALT	MWL-MW2	022145-06	17-APR-95	0.01	U	0.004	F
COBALT	MWL-MW2-EB	SNL0200687	22-JUL-92	0.01	U	0.01	F
COBALT	MWL-MW2-EB	SNL0200693	22-JUL-92	0.01	U	0.01	F
COBALT	MWL-MW2-EB	SNL0200906	20-APR-93	0.01	U	0.01	EB
COBALT	MWL-MW2-EB	SNL0201235	27-APR-94	0.01	U	0.01	F
COBALT	MWL-MW2-EB	SNL0201386	19-OCT-94	0.01	U	0.01	F
COBALT	MWL-MW3	SNL0200071	28-SEP-90	0.01	U	0.01	F
COBALT	MWL-MW3	SNL0200066	28-SEP-90	0.01	U	0.01	F
COBALT	MWL-MW3	SNL0200768	28-JUL-92	0.01	U	0.01	F
COBALT	MWL-MW3	SNL0200762	28-JUL-92	0.01	U	0.01	F
COBALT	MWL-MW3	SNL0200853	19-JAN-93	0.01	U	0.01	F
COBALT	MWL-MW3	SNL0200982	27-APR-93	0.01	U	0.01	F
COBALT	MWL-MW3	SNL0200976	27-APR-93	0.01	U	0.01	F
COBALT	MWL-MW3	SNL0201101	09-NOV-93	0.01	U	0.01	F
COBALT	MWL-MW3	SNL0201338	03-MAY-94	0.01	U	0.01	F
COBALT	MWL-MW3	SNL0201418	25-OCT-94	0.01	U	0.01	F
COBALT	MWL-MW3	022147-06	17-APR-95	0.01	U	0.004	F
COBALT	MWL-MW3	026458-07	16-OCT-95	0.00059	J	0.00018	SA
COBALT	MWL-MW3-EB	SNL0200650	21-JUL-92	0.01	U	0.01	F
COBALT	MWL-MW3-EB	SNL0200656	21-JUL-92	0.01	U	0.01	F
COBALT	MWL-MW3-EB	SNL0200924	21-APR-93	0.01	U	0.01	EB
COBALT	MWL-MW3-EB	SNL0201251	27-APR-94	0.01	U	0.01	F
COBALT	MWL-MW3-EB	SNL0201370	17-OCT-94	0.01	U	0.01	F
COBALT	MWL-MW4	022150-06	19-APR-95	0.01	U	0.004	F
COBALT	MWL-MW4	022151-06	19-APR-95	0.01	U	0.004	F
COBALT	MWL-MW4	026466-07	20-OCT-95	0.00018	U	0.00018	DU
COBALT	MWL-MW4	026465-07	20-OCT-95	0.00018	U	0.00018	SA
COBALT	MWL-MW4-D	SNL0201014	28-APR-93	0.01	U	0.01	D
COBALT	MWL-MW4-D	SNL0201008	28-APR-93	0.01	U	0.01	D
COBALT	MWL-MW4-EB	SNL0201040	03-MAY-93	0.01	U	0.01	EB

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
COBALT	MWL-MW4-EB	SNL0201178	11-NOV-93	0.01	U	0.01	F
COBALT	MWL-MW4C	SNL0201024	30-APR-93	0.01	U	0.01	F
COBALT	MWL-MW4C	SNL0201030	30-APR-93	0.01	U	0.01	F
COBALT	MWL-MW4C	SNL0201158	11-NOV-93	0.01	U	0.01	F
COBALT	MWL-MW4L	SNL0201199	14-MAR-94	0.0041	J	0.01	F
COBALT	MWL-MW4	SNL0201354	31-MAY-94	0.01	U	0.01	F
COBALT	MWL-MW4	SNL0201510	28-OCT-94	0.01	U	0.01	F
COPPER	MWL-BW1	SNL0200021	27-SEP-90	0.02	U	0.02	F
COPPER	MWL-BW1	SNL0200026	27-SEP-90	0.02	U	0.02	F
COPPER	MWL-BW1	SNL0200782	29-JUL-92	0.02	U	0.02	F
COPPER	MWL-BW1	SNL0200788	29-JUL-92	0.02	U	0.02	F
COPPER	MWL-BW1	SNL0200863	20-JAN-93	0.015	J	0.02	F
COPPER	MWL-BW1	SNL0200873	20-JAN-93	0.01	J	0.02	D
COPPER	MWL-BW1	SNL0200998	28-APR-93	0.0045	J	0.02	F
COPPER	MWL-BW1	SNL0200992	28-APR-93	0.02	U	0.02	F
COPPER	MWL-BW1	SNL0201120	10-NOV-93	0.0079	J	0.02	F
COPPER	MWL-BW1	SNL0201480	27-OCT-94	0.02	U	0.02	F
COPPER	MWL-BW1	SNL0201495	27-OCT-94	0.02	U	0.02	F
COPPER	MWL-BW1	026461-07	23-OCT-95	0.00054	BU	0.00054	SA
COPPER	MWL-BW1-D	SNL0200044	27-SEP-90	0.02	U	0.02	F
COPPER	MWL-BW1-D	SNL0200039	27-SEP-90	0.02	U	0.02	F
COPPER	MWL-BW1-D	SNL0200800	29-JUL-92	0.02	U	0.02	F
COPPER	MWL-BW1-D	SNL0200806	29-JUL-92	0.02	U	0.02	F
COPPER	MWL-BW1-D	SNL0201139	10-NOV-93	0.0036	J	0.02	F
COPPER	MWL-BW1-EB	SNL0200712	23-JUL-92	0.02	U	0.02	F
COPPER	MWL-BW1-EB	SNL0200706	23-JUL-92	0.02	U	0.02	F
COPPER	MWL-BW1-EB	SNL0200934	21-APR-93	0.02	U	0.02	EB
COPPER	MWL-BW1-EB	SNL0201266	27-APR-94	0.02	U	0.02	F
COPPER	MWL-BW1-EB	SNL0201464	26-OCT-94	0.02	U	0.02	F
COPPER	MWL-BW1-FB	SNL0200819	29-JUL-92	0.02	U	0.02	F
COPPER	MWL-BW1-FB	SNL0200825	29-JUL-92	0.02	U	0.02	F
COPPER	MWL-MW1	SNL0200750	28-JUL-92	0.02	U	0.02	F
COPPER	MWL-MW1	SNL0200744	28-JUL-92	0.02	U	0.02	F
COPPER	MWL-MW1	SNL0200843	19-JAN-93	0.014	J	0.02	F
COPPER	MWL-MW1	SNL0200960	27-APR-93	0.02	U	0.02	F
COPPER	MWL-MW1	SNL0200966	27-APR-93	0.004	J	0.02	F
COPPER	MWL-MW1	SNL0201082	09-NOV-93	0.0053	J	0.02	F
COPPER	MWL-MW1	SNL0201320	03-MAY-94	0.02	U	0.02	F
COPPER	MWL-MW1	SNL0201450	25-OCT-94	0.02	U	0.02	F
COPPER	MWL-MW1	SNL0201434	25-OCT-94	0.02	U	0.02	F
COPPER	MWL-MW1	022149-06	19-APR-95	0.02	U	0.003	F
COPPER	MWL-MW1	026464-07	20-OCT-95	0.0007	JB	0.00054	SA
COPPER	MWL-MW1-D	SNL0201302	04-MAY-94	0.02	U	0.02	F
COPPER	MWL-MW1-EB	SNL0200675	22-JUL-92	0.027		0.02	F
COPPER	MWL-MW1-EB	SNL0200669	22-JUL-92	0.02	U	0.02	F
COPPER	MWL-MW1-EB	SNL0200896	20-APR-93	0.02	U	0.02	EB
COPPER	MWL-MW1-EB	SNL0201219	26-APR-94	0.02	U	0.02	F
COPPER	MWL-MW2	SNL0200091	28-SEP-90	0.02	U	0.02	F
COPPER	MWL-MW2	SNL0200096	28-SEP-90	0.01	U	0.01	F
COPPER	MWL-MW2	SNL0200725	27-JUL-92	0.02	U	0.02	F
COPPER	MWL-MW2	SNL0200731	27-JUL-92	0.02	U	0.02	F
COPPER	MWL-MW2	SNL0200833	18-JAN-93	0.0053	J	0.02	F
COPPER	MWL-MW2	SNL0200944	26-APR-93	0.0031	J	0.02	F
COPPER	MWL-MW2	SNL0200950	26-APR-93	0.0036	J	0.02	F
COPPER	MWL-MW2	SNL0201063	08-NOV-93	0.02	U	0.02	F
COPPER	MWL-MW2	SNL0201284	02-MAY-94	0.02	U	0.02	F
COPPER	MWL-MW2	SNL0201402	24-OCT-94	0.0071	J	0.02	F
COPPER	MWL-MW2	022145-06	17-APR-95	0.02	U	0.003	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
COPPER	MWL-MW2-EB	SNL0200687	22-JUL-92	0.02	U	0.02	F
COPPER	MWL-MW2-EB	SNL0200693	22-JUL-92	0.02	U	0.02	F
COPPER	MWL-MW2-EB	SNL0200906	20-APR-93	0.02	U	0.02	EB
COPPER	MWL-MW2-EB	SNL0201235	27-APR-94	0.02	U	0.02	F
COPPER	MWL-MW2-EB	SNL0201386	19-OCT-94	0.0032	J	0.02	F
COPPER	MWL-MW3	SNL0200071	28-SEP-90	0.02	U	0.02	F
COPPER	MWL-MW3	SNL0200066	28-SEP-90	0.02	U	0.02	F
COPPER	MWL-MW3	SNL0200768	28-JUL-92	0.02	U	0.02	F
COPPER	MWL-MW3	SNL0200762	28-JUL-92	0.02	U	0.02	F
COPPER	MWL-MW3	SNL0200853	19-JAN-93	0.015	J	0.02	F
COPPER	MWL-MW3	SNL0200976	27-APR-93	0.0059	J	0.02	F
COPPER	MWL-MW3	SNL0200982	27-APR-93	0.015	J	0.02	F
COPPER	MWL-MW3	SNL0201101	09-NOV-93	0.0092	J	0.02	F
COPPER	MWL-MW3	SNL0201338	03-MAY-94	0.02	U	0.02	F
COPPER	MWL-MW3	SNL0201418	25-OCT-94	0.02	U	0.02	F
COPPER	MWL-MW3	022147-06	17-APR-95	0.02	U	0.003	F
COPPER	MWL-MW3	026458-07	16-OCT-95	0.00117	JB	0.00054	SA
COPPER	MWL-MW3-EB	SNL0200650	21-JUL-92	0.02	U	0.02	F
COPPER	MWL-MW3-EB	SNL0200656	21-JUL-92	0.02	U	0.02	F
COPPER	MWL-MW3-EB	SNL0200924	21-APR-93	0.0051	J	0.02	EB
COPPER	MWL-MW3-EB	SNL0201251	27-APR-94	0.02	U	0.02	F
COPPER	MWL-MW3-EB	SNL0201370	17-OCT-94	0.02	U	0.02	F
COPPER	MWL-MW4	022150-06	19-APR-95	0.02	U	0.003	F
COPPER	MWL-MW4	022151-06	19-APR-95	0.02	U	0.003	F
COPPER	MWL-MW4	026466-07	20-OCT-95	0.00054	UB	0.00054	DU
COPPER	MWL-MW4	026465-07	20-OCT-95	0.00054	UB	0.00054	SA
COPPER	MWL-MW4-D	SNL0201008	28-APR-93	0.02	U	0.02	D
COPPER	MWL-MW4-D	SNL0201014	28-APR-93	0.02	U	0.02	D
COPPER	MWL-MW4-EB	SNL0201040	03-MAY-93	0.013	J	0.02	EB
COPPER	MWL-MW4-EB	SNL0201178	11-NOV-93	0.0049	J	0.02	F
COPPER	MWL-MW4C	SNL0201030	30-APR-93	0.02	U	0.02	F
COPPER	MWL-MW4C	SNL0201024	30-APR-93	0.02	U	0.02	F
COPPER	MWL-MW4C	SNL0201158	11-NOV-93	0.02	U	0.02	F
COPPER	MWL-MW4L	SNL0201199	14-MAR-94	0.0043	J	0.02	F
COPPER	MWL-MW4	SNL0201354	31-MAY-94	0.02	U	0.02	F
COPPER	MWL-MW4	SNL0201510	28-OCT-94	0.02	U	0.02	F
IRON	MWL-BW1	SNL0200114	24-JAN-91	0.1	U	0.1	F
IRON	MWL-BW1	SNL0200110	24-JAN-91	0.28		0.1	F
IRON	MWL-BW1	SNL0200289	07-MAY-91	0.1	U	0.1	F
IRON	MWL-BW1	SNL0200293	07-MAY-91	0.1	U	0.1	F
IRON	MWL-BW1	SNL0200415	06-AUG-91	0.1	U	0.1	F
IRON	MWL-BW1	SNL0200411	06-AUG-91	0.1	U	0.1	F
IRON	MWL-BW1	SNL0200573	16-OCT-91	0.1	U	0.1	F
IRON	MWL-BW1	SNL0200577	16-OCT-91	0.1	U	0.1	F
IRON	MWL-BW1	SNL0200788	29-JUL-92	0.1	U	0.1	F
IRON	MWL-BW1	SNL0200782	29-JUL-92	0.23		0.1	F
IRON	MWL-BW1	SNL0200873	20-JAN-93	0.09	J	0.1	D
IRON	MWL-BW1	SNL0200863	20-JAN-93	0.058	J	0.1	F
IRON	MWL-BW1	SNL0200998	28-APR-93	0.15		0.1	F
IRON	MWL-BW1	SNL0200992	28-APR-93	0.055	J	0.1	F
IRON	MWL-BW1	SNL0201120	10-NOV-93	0.054	J	0.1	F
IRON	MWL-BW1	SNL0201495	27-OCT-94	0.032	J	0.1	F
IRON	MWL-BW1	SNL0201480	27-OCT-94	0.057	J	0.1	F
IRON	MWL-BW1	026461-07	23-OCT-95	0.321	B	0.0101	SA
IRON	MWL-BW1-D	SNL0200148	24-JAN-91	0.1	U	0.1	F
IRON	MWL-BW1-D	SNL0200152	24-JAN-91	0.1	U	0.1	F
IRON	MWL-BW1-D	SNL0200325	07-MAY-91	0.1		0.1	F
IRON	MWL-BW1-D	SNL0200329	07-MAY-91	0.1	U	0.1	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
IRON	MWL-BW1-D	SNL0200428	06-AUG-91	0.1	U	0.1	F
IRON	MWL-BW1-D	SNL0200432	06-AUG-91	0.1	U	0.1	F
IRON	MWL-BW1-D	SNL0200595	16-OCT-91	0.1	U	0.1	F
IRON	MWL-BW1-D	SNL0200591	16-OCT-91	0.1	U	0.1	F
IRON	MWL-BW1-D	SNL0200800	29-JUL-92	0.1	U	0.1	F
IRON	MWL-BW1-D	SNL0200806	29-JUL-92	0.1	U	0.1	F
IRON	MWL-BW1-D	SNL0201139	10-NOV-93	0.041	J	0.1	F
IRON	MWL-BW1-EB	SNL0200505	09-OCT-91	0.1	U	0.1	F
IRON	MWL-BW1-EB	SNL0200501	09-OCT-91	0.1	U	0.1	F
IRON	MWL-BW1-EB	SNL0200706	23-JUL-92	0.1	U	0.1	F
IRON	MWL-BW1-EB	SNL0200712	23-JUL-92	0.12		0.1	F
IRON	MWL-BW1-EB	SNL0200934	21-APR-93	0.1	U	0.1	EB
IRON	MWL-BW1-EB	SNL0201266	27-APR-94	0.035	J	0.1	F
IRON	MWL-BW1-EB	SNL0201464	26-OCT-94	0.1	U	0.1	F
IRON	MWL-BW1-FB	SNL0200609	16-OCT-91	0.1	U	0.1	F
IRON	MWL-BW1-FB	SNL0200613	16-OCT-91	0.1	U	0.1	F
IRON	MWL-BW1-FB	SNL0200819	29-JUL-92	0.1	U	0.1	F
IRON	MWL-BW1-FB	SNL0200825	29-JUL-92	0.1	U	0.1	F
IRON	MWL-FB	SNL0200205	28-JAN-91	0.1	U	0.1	F
IRON	MWL-FB	SNL0200209	28-JAN-91	0.1	U	0.1	F
IRON	MWL-FB	SNL0200269	02-MAY-91	0.1	U	0.1	F
IRON	MWL-FB	SNL0200265	02-MAY-91	0.15		0.1	F
IRON	MWL-FB	SNL0200377	01-AUG-91	0.17	U	0.17	F
IRON	MWL-FB	SNL0200381	01-AUG-91	0.1	U	0.1	F
IRON	MWL-MW1	SNL0200133	24-JAN-91	0.1	U	0.1	F
IRON	MWL-MW1	SNL0200129	24-JAN-91	0.44		0.1	F
IRON	MWL-MW1	SNL0200307	07-MAY-91	0.76		0.1	F
IRON	MWL-MW1	SNL0200311	07-MAY-91	0.1	U	0.1	F
IRON	MWL-MW1	SNL0200349	31-JUL-91	0.1	U	0.1	F
IRON	MWL-MW1	SNL0200345	31-JUL-91	0.71		0.17	F
IRON	MWL-MW1	SNL0200555	15-OCT-91	0.49		0.1	F
IRON	MWL-MW1	SNL0200559	15-OCT-91	0.1	U	0.1	F
IRON	MWL-MW1	SNL0200750	28-JUL-92	0.1	U	0.1	F
IRON	MWL-MW1	SNL0200744	28-JUL-92	0.19		0.1	F
IRON	MWL-MW1	SNL0200843	19-JAN-93	0.09	J	0.1	F
IRON	MWL-MW1	SNL0200966	27-APR-93	0.1	U	0.1	F
IRON	MWL-MW1	SNL0200960	27-APR-93	0.1	U	0.1	F
IRON	MWL-MW1	SNL0201082	09-NOV-93	0.22		0.1	F
IRON	MWL-MW1	SNL0201320	03-MAY-94	0.11		0.1	F
IRON	MWL-MW1	SNL0201434	25-OCT-94	0.058	J	0.1	F
IRON	MWL-MW1	SNL0201450	25-OCT-94	0.1	U	0.1	F
IRON	MWL-MW1	022149-06	19-APR-95	0.094	J	0.026	F
IRON	MWL-MW1	026464-07	20-OCT-95	0.565	B	0.0101	SA
IRON	MWL-MW1-D	SNL0201302	04-MAY-94	0.048	J	0.1	F
IRON	MWL-MW1-EB	SNL0200465	08-OCT-91	0.1	U	0.1	F
IRON	MWL-MW1-EB	SNL0200469	08-OCT-91	0.1	U	0.1	F
IRON	MWL-MW1-EB	SNL0200669	22-JUL-92	0.1	U	0.1	F
IRON	MWL-MW1-EB	SNL0200675	22-JUL-92	0.1	U	0.1	F
IRON	MWL-MW1-EB	SNL0200896	20-APR-93	0.1	U	0.1	EB
IRON	MWL-MW1-EB	SNL0201219	26-APR-94	0.1	U	0.1	F
IRON	MWL-MW2	SNL0200167	28-JAN-91	0.85		0.1	F
IRON	MWL-MW2	SNL0200171	28-JAN-91	0.1	U	0.1	F
IRON	MWL-MW2	SNL0200233	02-MAY-91	0.1	U	0.1	F
IRON	MWL-MW2	SNL0200229	02-MAY-91	0.2		0.1	F
IRON	MWL-MW2	SNL0200364	01-AUG-91	0.1	U	0.1	F
IRON	MWL-MW2	SNL0200360	01-AUG-91	0.17	U	0.17	F
IRON	MWL-MW2	SNL0200523	14-OCT-91	0.1	U	0.1	F
IRON	MWL-MW2	SNL0200519	14-OCT-91	0.12		0.1	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
IRON	MWL-MW2	SNL0200731	27-JUL-92	0.1	U	0.1	F
IRON	MWL-MW2	SNL0200725	27-JUL-92	0.1		0.1	F
IRON	MWL-MW2	SNL0200833	18-JAN-93	0.045	J	0.1	F
IRON	MWL-MW2	SNL0200944	26-APR-93	0.1	U	0.1	F
IRON	MWL-MW2	SNL0200950	26-APR-93	0.1	U	0.1	F
IRON	MWL-MW2	SNL0201063	08-NOV-93	0.1	U	0.1	F
IRON	MWL-MW2	SNL0201284	02-MAY-94	0.048	J	0.1	F
IRON	MWL-MW2	SNL0201402	24-OCT-94	0.1	U	0.1	F
IRON	MWL-MW2	022145-06	17-APR-95	0.024	J	0.026	F
IRON	MWL-MW2-EB	SNL0200447	07-OCT-91	0.1	U	0.1	F
IRON	MWL-MW2-EB	SNL0200451	07-OCT-91	0.1	U	0.1	F
IRON	MWL-MW2-EB	SNL0200693	22-JUL-92	0.1	U	0.1	F
IRON	MWL-MW2-EB	SNL0200687	22-JUL-92	0.1	U	0.1	F
IRON	MWL-MW2-EB	SNL0200906	20-APR-93	0.1	U	0.1	EB
IRON	MWL-MW2-EB	SNL0201235	27-APR-94	0.1	U	0.1	F
IRON	MWL-MW2-EB	SNL0201386	19-OCT-94	0.1	U	0.1	F
IRON	MWL-MW3	SNL0200190	28-JAN-91	0.1	U	0.1	F
IRON	MWL-MW3	SNL0200186	28-JAN-91	0.1	U	0.1	F
IRON	MWL-MW3	SNL0200247	02-MAY-91	0.24		0.1	F
IRON	MWL-MW3	SNL0200251	02-MAY-91	0.1	U	0.1	F
IRON	MWL-MW3	SNL0200394	05-AUG-91	0.25		0.11	F
IRON	MWL-MW3	SNL0200398	05-AUG-91	0.1		0.1	F
IRON	MWL-MW3	SNL0200537	15-OCT-91	0.14		0.1	F
IRON	MWL-MW3	SNL0200541	15-OCT-91	0.1	U	0.1	F
IRON	MWL-MW3	SNL0200762	28-JUL-92	1.3		0.1	F
IRON	MWL-MW3	SNL0200768	28-JUL-92	0.1	U	0.1	F
IRON	MWL-MW3	SNL0200853	19-JAN-93	0.37		0.1	F
IRON	MWL-MW3	SNL0200976	27-APR-93	0.38		0.1	F
IRON	MWL-MW3	SNL0200982	27-APR-93	0.033	J	0.1	F
IRON	MWL-MW3	SNL0201101	09-NOV-93	0.12		0.1	F
IRON	MWL-MW3	SNL0201338	03-MAY-94	0.25		0.1	F
IRON	MWL-MW3	SNL0201418	25-OCT-94	0.078	J	0.1	F
IRON	MWL-MW3	022147-06	17-APR-95	0.071	J	0.026	F
IRON	MWL-MW3	026458-07	16-OCT-95	0.266		0.0101	SA
IRON	MWL-MW3-EB	SNL0200483	09-OCT-91	0.1	U	0.1	F
IRON	MWL-MW3-EB	SNL0200487	09-OCT-91	0.1	U	0.1	F
IRON	MWL-MW3-EB	SNL0200656	21-JUL-92	0.1	U	0.1	F
IRON	MWL-MW3-EB	SNL0200650	21-JUL-92	1.6		0.1	F
IRON	MWL-MW3-EB	SNL0200924	21-APR-93	0.1	U	0.1	EB
IRON	MWL-MW3-EB	SNL0201251	27-APR-94	0.032	J	0.1	F
IRON	MWL-MW3-EB	SNL0201370	17-OCT-94	0.041	J	0.1	F
IRON	MWL-MW4	022151-06	19-APR-95	0.098	J	0.026	F
IRON	MWL-MW4	022150-06	19-APR-95	0.07	J	0.026	F
IRON	MWL-MW4	026466-07	20-OCT-95	0.0161	JB	0.0101	DU
IRON	MWL-MW4	026465-07	20-OCT-95	0.0134	JB	0.0101	SA
IRON	MWL-MW4-D	SNL0201008	28-APR-93	0.14		0.1	D
IRON	MWL-MW4-D	SNL0201014	28-APR-93	0.12		0.1	D
IRON	MWL-MW4-EB	SNL0201040	03-MAY-93	0.21		0.1	EB
IRON	MWL-MW4-EB	SNL0201178	11-NOV-93	0.1	U	0.1	F
IRON	MWL-MW4C	SNL0201024	30-APR-93	0.21		0.1	F
IRON	MWL-MW4C	SNL0201030	30-APR-93	0.1	U	0.1	F
IRON	MWL-MW4C	SNL0201158	11-NOV-93	0.1		0.1	F
IRON	MWL-MW4L	SNL0201199	14-MAR-94	0.1		0.1	F
IRON	MWL-MW4	SNL0201354	31-MAY-94	0.036	J	0.1	F
IRON	MWL-MW4	SNL0201510	28-OCT-94	0.15		0.1	F
LEAD	MWL-BW1	SNL0200023	27-SEP-90	0.02	U	0.02	F
LEAD	MWL-BW1	SNL0200017	27-SEP-90	0.005	U	0.005	F
LEAD	MWL-BW1	SNL0200107	24-JAN-91	0.005	U	0.005	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
LEAD	MWL-BW1	SNL0200112	24-JAN-91	0.01	U	0.01	F
LEAD	MWL-BW1	SNL0200286	07-MAY-91	0.005	U	0.005	F
LEAD	MWL-BW1	SNL0200291	07-MAY-91	0.005	U	0.005	F
LEAD	MWL-BW1	SNL0200408	06-AUG-91	0.01	U	0.01	F
LEAD	MWL-BW1	SNL0200413	06-AUG-91	0.005	U	0.005	F
LEAD	MWL-BW1	SNL0200570	16-OCT-91	0.005	U	0.005	F
LEAD	MWL-BW1	SNL0200575	16-OCT-91	0.005	U	0.005	F
LEAD	MWL-BW1	SNL0200784	29-JUL-92	0.005	U	0.005	F
LEAD	MWL-BW1	SNL0200778	29-JUL-92	0.005	U	0.005	F
LEAD	MWL-BW1	SNL0200865	20-JAN-93	0.01	U	0.01	F
LEAD	MWL-BW1	SNL0200875	20-JAN-93	0.0012	J	0.005	D
LEAD	MWL-BW1	SNL0200994	28-APR-93	0.02	U	0.02	F
LEAD	MWL-BW1	SNL0201000	28-APR-93	0.02	U	0.02	F
LEAD	MWL-BW1	SNL0201116	10-NOV-93	0.01	U	0.01	F
LEAD	MWL-BW1	SNL0201495	27-OCT-94	0.003	U	0.003	F
LEAD	MWL-BW1	SNL0201480	27-OCT-94	0.003	U	0.003	F
LEAD	MWL-BW1	026461-07	23-OCT-95	0.00113	U	0.00113	SA
LEAD	MWL-BW1-D	SNL0200041	27-SEP-90	0.01	U	0.01	F
LEAD	MWL-BW1-D	SNL0200035	27-SEP-90	0.005	U	0.005	F
LEAD	MWL-BW1-D	SNL0200150	24-JAN-91	0.01	U	0.01	F
LEAD	MWL-BW1-D	SNL0200145	24-JAN-91	0.005	U	0.005	F
LEAD	MWL-BW1-D	SNL0200327	07-MAY-91	0.005	U	0.005	F
LEAD	MWL-BW1-D	SNL0200322	07-MAY-91	0.005	U	0.005	F
LEAD	MWL-BW1-D	SNL0200430	06-AUG-91	0.005	U	0.005	F
LEAD	MWL-BW1-D	SNL0200425	06-AUG-91	0.01	U	0.01	F
LEAD	MWL-BW1-D	SNL0200588	16-OCT-91	0.005	U	0.005	F
LEAD	MWL-BW1-D	SNL0200593	16-OCT-91	0.005	U	0.005	F
LEAD	MWL-BW1-D	SNL0200802	29-JUL-92	0.005	U	0.005	F
LEAD	MWL-BW1-D	SNL0200796	29-JUL-92	0.005	U	0.005	F
LEAD	MWL-BW1-D	SNL0201135	10-NOV-93	0.01	U	0.01	F
LEAD	MWL-BW1-EB	SNL0200498	09-OCT-91	0.005	U	0.005	F
LEAD	MWL-BW1-EB	SNL0200503	09-OCT-91	0.01	U	0.01	F
LEAD	MWL-BW1-EB	SNL0200708	23-JUL-92	0.005	U	0.005	F
LEAD	MWL-BW1-EB	SNL0200702	23-JUL-92	0.005	U	0.005	F
LEAD	MWL-BW1-EB	SNL0200936	21-APR-93	0.005	U	0.005	EB
LEAD	MWL-BW1-EB	SNL0201266	27-APR-94	0.003	U	0.003	F
LEAD	MWL-BW1-EB	SNL0201464	26-OCT-94	0.003	U	0.003	F
LEAD	MWL-BW1-FB	SNL0200611	16-OCT-91	0.005	U	0.005	F
LEAD	MWL-BW1-FB	SNL0200606	16-OCT-91	0.005	U	0.005	F
LEAD	MWL-BW1-FB	SNL0200815	29-JUL-92	0.005	U	0.005	F
LEAD	MWL-BW1-FB	SNL0200821	29-JUL-92	0.005	U	0.005	F
LEAD	MWL-FB	SNL0200207	28-JAN-91	0.005	U	0.005	F
LEAD	MWL-FB	SNL0200202	28-JAN-91	0.005	U	0.005	F
LEAD	MWL-FB	SNL0200262	02-MAY-91	0.005	U	0.005	F
LEAD	MWL-FB	SNL0200267	02-MAY-91	0.005	U	0.005	F
LEAD	MWL-FB	SNL0200379	01-AUG-91	0.005	U	0.005	F
LEAD	MWL-FB	SNL0200374	01-AUG-91	0.01	U	0.01	F
LEAD	MWL-MW1	SNL0200131	24-JAN-91	0.01	U	0.01	F
LEAD	MWL-MW1	SNL0200126	24-JAN-91	0.005	U	0.005	F
LEAD	MWL-MW1	SNL0200304	07-MAY-91	0.005	U	0.005	F
LEAD	MWL-MW1	SNL0200309	07-MAY-91	0.005	U	0.005	F
LEAD	MWL-MW1	SNL0200347	31-JUL-91	0.005	U	0.005	F
LEAD	MWL-MW1	SNL0200342	31-JUL-91	0.01	U	0.01	F
LEAD	MWL-MW1	SNL0200557	15-OCT-91	0.01	U	0.01	F
LEAD	MWL-MW1	SNL0200552	15-OCT-91	0.005	U	0.005	F
LEAD	MWL-MW1	SNL0200746	28-JUL-92	0.005	U	0.005	F
LEAD	MWL-MW1	SNL0200740	28-JUL-92	0.005	U	0.005	F
LEAD	MWL-MW1	SNL0200845	19-JAN-93	0.01	U	0.01	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
LEAD	MWL-MW1	SNL0200962	27-APR-93	0.05	U	0.05	F
LEAD	MWL-MW1	SNL0200968	27-APR-93	0.05	U	0.05	F
LEAD	MWL-MW1	SNL0201078	09-NOV-93	0.018		0.005	F
LEAD	MWL-MW1	SNL0201320	03-MAY-94	0.003	U	0.003	F
LEAD	MWL-MW1	SNL0201450	25-OCT-94	0.003	U	0.003	F
LEAD	MWL-MW1	SNL0201434	25-OCT-94	0.003	U	0.003	F
LEAD	MWL-MW1	022149-06	19-APR-95	0.003	U	0.031	F
LEAD	MWL-MW1	026464-07	20-OCT-95	0.00113	U	0.00113	SA
LEAD	MWL-MW1-D	SNL0201302	04-MAY-94	0.003	U	0.003	F
LEAD	MWL-MW1-EB	SNL0200467	08-OCT-91	0.005	U	0.005	F
LEAD	MWL-MW1-EB	SNL0200462	08-OCT-91	0.005	U	0.005	F
LEAD	MWL-MW1-EB	SNL0200665	22-JUL-92	0.005	U	0.005	F
LEAD	MWL-MW1-EB	SNL0200671	22-JUL-92	0.005	U	0.005	F
LEAD	MWL-MW1-EB	SNL0200898	20-APR-93	0.001	J	0.005	EB
LEAD	MWL-MW1-EB	SNL0201219	26-APR-94	0.003	U	0.003	F
LEAD	MWL-MW2	SNL0200093	28-SEP-90	0.005	U	0.005	F
LEAD	MWL-MW2	SNL0200087	28-SEP-90	0.005	U	0.005	F
LEAD	MWL-MW2	SNL0200169	28-JAN-91	0.01	U	0.01	F
LEAD	MWL-MW2	SNL0200164	28-JAN-91	0.005	U	0.005	F
LEAD	MWL-MW2	SNL0200231	02-MAY-91	0.01	U	0.01	F
LEAD	MWL-MW2	SNL0200226	02-MAY-91	0.005	U	0.005	F
LEAD	MWL-MW2	SNL0200357	01-AUG-91	0.01	U	0.01	F
LEAD	MWL-MW2	SNL0200362	01-AUG-91	0.005	U	0.005	F
LEAD	MWL-MW2	SNL0200521	14-OCT-91	0.005	U	0.005	F
LEAD	MWL-MW2	SNL0200516	14-OCT-91	0.005	U	0.005	F
LEAD	MWL-MW2	SNL0200727	27-JUL-92	0.005	U	0.005	F
LEAD	MWL-MW2	SNL0200721	27-JUL-92	0.005	U	0.005	F
LEAD	MWL-MW2	SNL0200835	18-JAN-93	0.01	U	0.01	F
LEAD	MWL-MW2	SNL0200946	26-APR-93	0.01	U	0.01	F
LEAD	MWL-MW2	SNL0200952	26-APR-93	0.01	U	0.01	F
LEAD	MWL-MW2	SNL0201059	08-NOV-93	0.005	U	0.005	F
LEAD	MWL-MW2	SNL0201284	02-MAY-94	0.003	U	0.003	F
LEAD	MWL-MW2	SNL0201402	24-OCT-94	0.003	U	0.003	F
LEAD	MWL-MW2	022145-06	17-APR-95	0.003	U	0.031	F
LEAD	MWL-MW2-EB	SNL0200444	07-OCT-91	0.005	U	0.005	F
LEAD	MWL-MW2-EB	SNL0200449	07-OCT-91	0.005	U	0.005	F
LEAD	MWL-MW2-EB	SNL0200689	22-JUL-92	0.005	U	0.005	F
LEAD	MWL-MW2-EB	SNL0200683	22-JUL-92	0.005	U	0.005	F
LEAD	MWL-MW2-EB	SNL0200908	20-APR-93	0.0019	J	0.005	EB
LEAD	MWL-MW2-EB	SNL0201235	27-APR-94	0.003	U	0.003	F
LEAD	MWL-MW2-EB	SNL0201386	19-OCT-94	0.003		0.003	F
LEAD	MWL-MW3	SNL0200068	28-SEP-90	0.0058		0.005	F
LEAD	MWL-MW3	SNL0200062	28-SEP-90	0.005	U	0.005	F
LEAD	MWL-MW3	SNL0200183	28-JAN-91	0.01	U	0.01	F
LEAD	MWL-MW3	SNL0200188	28-JAN-91	0.005	U	0.005	F
LEAD	MWL-MW3	SNL0200249	02-MAY-91	0.01	U	0.01	F
LEAD	MWL-MW3	SNL0200244	02-MAY-91	0.005	U	0.005	F
LEAD	MWL-MW3	SNL0200396	05-AUG-91	0.005	U	0.005	F
LEAD	MWL-MW3	SNL0200391	05-AUG-91	0.005	U	0.005	F
LEAD	MWL-MW3	SNL0200534	15-OCT-91	0.005	U	0.005	F
LEAD	MWL-MW3	SNL0200539	15-OCT-91	0.01	U	0.01	F
LEAD	MWL-MW3	SNL0200758	28-JUL-92	0.005	U	0.005	F
LEAD	MWL-MW3	SNL0200764	28-JUL-92	0.005	U	0.005	F
LEAD	MWL-MW3	SNL0200855	19-JAN-93	0.01	U	0.01	F
LEAD	MWL-MW3	SNL0200978	27-APR-93	0.05	U	0.05	F
LEAD	MWL-MW3	SNL0200984	27-APR-93	0.05	U	0.05	F
LEAD	MWL-MW3	SNL0201097	09-NOV-93	0.005	U	0.005	F
LEAD	MWL-MW3	SNL0201338	03-MAY-94	0.003	U	0.003	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
LEAD	MWL-MW3	SNL0201418	25-OCT-94	0.003	U	0.003	F
LEAD	MWL-MW3	022147-06	17-APR-95	0.003	U	0.031	F
LEAD	MWL-MW3	026458-07	16-OCT-95	0.00113	U	0.00113	SA
LEAD	MWL-MW3-EB	SNL0200480	09-OCT-91	0.005	U	0.005	F
LEAD	MWL-MW3-EB	SNL0200485	09-OCT-91	0.005	U	0.005	F
LEAD	MWL-MW3-EB	SNL0200652	21-JUL-92	0.005	U	0.005	F
LEAD	MWL-MW3-EB	SNL0200646	21-JUL-92	0.005	U	0.005	F
LEAD	MWL-MW3-EB	SNL0200926	21-APR-93	0.005	U	0.005	EB
LEAD	MWL-MW3-EB	SNL0201251	27-APR-94	0.003	U	0.003	F
LEAD	MWL-MW3-EB	SNL0201370	17-OCT-94	0.003	U	0.003	F
LEAD	MWL-MW4	022151-06	19-APR-95	0.003	U	0.031	F
LEAD	MWL-MW4	022150-06	19-APR-95	0.003	U	0.031	F
LEAD	MWL-MW4	026466-07	20-OCT-95	0.00113	U	0.00113	DU
LEAD	MWL-MW4	026465-07	20-OCT-95	0.00113	U	0.00113	SA
LEAD	MWL-MW4-D	SNL0201016	28-APR-93	0.02	U	0.02	D
LEAD	MWL-MW4-D	SNL0201010	28-APR-93	0.02	U	0.02	D
LEAD	MWL-MW4-EB	SNL0201042	03-MAY-93	0.005	U	0.005	EB
LEAD	MWL-MW4-EB	SNL0201174	11-NOV-93	0.005	U	0.005	F
LEAD	MWL-MW4C	SNL0201026	30-APR-93	0.05	U	0.05	F
LEAD	MWL-MW4C	SNL0201032	30-APR-93	0.05	U	0.05	F
LEAD	MWL-MW4C	SNL0201154	11-NOV-93	0.0036	J	0.005	F
LEAD	MWL-MW4L	SNL0201201	14-MAR-94	0.0056		0.005	F
LEAD	MWL-MW4	SNL0201354	31-MAY-94	0.003	BU	0.003	F
LEAD	MWL-MW4	SNL0201510	28-OCT-94	0.003	U	0.003	F
MAGNESIUM	MWL-BW1	SNL0200788	29-JUL-92	17.7		0.2	F
MAGNESIUM	MWL-BW1	SNL0200782	29-JUL-92	17.8		0.2	F
MAGNESIUM	MWL-BW1	SNL0200873	20-JAN-93	19.4		0.2	D
MAGNESIUM	MWL-BW1	SNL0200863	20-JAN-93	19.3		0.2	F
MAGNESIUM	MWL-BW1	SNL0200998	28-APR-93	18.8		0.2	F
MAGNESIUM	MWL-BW1	SNL0200992	28-APR-93	17.9		0.2	F
MAGNESIUM	MWL-BW1	SNL0201120	10-NOV-93	19.1		0.2	F
MAGNESIUM	MWL-BW1	SNL0201495	27-OCT-94	19.7		0.2	F
MAGNESIUM	MWL-BW1	SNL0201480	27-OCT-94	20		0.2	F
MAGNESIUM	MWL-BW1	026461-07	23-OCT-95	19.1		0.00235	SA
MAGNESIUM	MWL-BW1-D	SNL0200806	29-JUL-92	17.9		0.2	F
MAGNESIUM	MWL-BW1-D	SNL0200800	29-JUL-92	17.8		0.2	F
MAGNESIUM	MWL-BW1-D	SNL0201139	10-NOV-93	19.3		0.2	F
MAGNESIUM	MWL-BW1-EB	SNL0200706	23-JUL-92	0.2	U	0.2	F
MAGNESIUM	MWL-BW1-EB	SNL0200712	23-JUL-92	0.2	U	0.2	F
MAGNESIUM	MWL-BW1-EB	SNL0200934	21-APR-93	0.2	U	0.2	EB
MAGNESIUM	MWL-BW1-EB	SNL0201266	27-APR-94	0.2	U	0.2	F
MAGNESIUM	MWL-BW1-EB	SNL0201464	26-OCT-94	0.2	U	0.2	F
MAGNESIUM	MWL-BW1-FB	SNL0200819	29-JUL-92	0.2	U	0.2	F
MAGNESIUM	MWL-BW1-FB	SNL0200825	29-JUL-92	0.2	U	0.2	F
MAGNESIUM	MWL-MW1	SNL0200750	28-JUL-92	16.5		0.2	F
MAGNESIUM	MWL-MW1	SNL0200744	28-JUL-92	16.9		0.2	F
MAGNESIUM	MWL-MW1	SNL0200843	19-JAN-93	18.4		0.2	F
MAGNESIUM	MWL-MW1	SNL0200966	27-APR-93	17.3		0.2	F
MAGNESIUM	MWL-MW1	SNL0200960	27-APR-93	17.4		0.2	F
MAGNESIUM	MWL-MW1	SNL0201082	09-NOV-93	17.8		0.2	F
MAGNESIUM	MWL-MW1	SNL0201320	03-MAY-94	20.5		0.2	F
MAGNESIUM	MWL-MW1	SNL0201434	25-OCT-94	19.4		0.2	F
MAGNESIUM	MWL-MW1	SNL0201450	25-OCT-94	19		0.2	F
MAGNESIUM	MWL-MW1	022149-06	19-APR-95	18.9		0.028	F
MAGNESIUM	MWL-MW1	026464-07	20-OCT-95	18.1		0.00235	SA
MAGNESIUM	MWL-MW1-D	SNL0201302	04-MAY-94	20.3		0.2	F
MAGNESIUM	MWL-MW1-EB	SNL0200675	22-JUL-92	0.2	U	0.2	F
MAGNESIUM	MWL-MW1-EB	SNL0200669	22-JUL-92	0.2	U	0.2	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
MAGNESIUM	MWL-MW1-EB	SNL0200896	20-APR-93	0.2	U	0.2	EB
MAGNESIUM	MWL-MW1-EB	SNL0201219	26-APR-94	0.2	U	0.2	F
MAGNESIUM	MWL-MW2	SNL0200725	27-JUL-92	15.9		0.2	F
MAGNESIUM	MWL-MW2	SNL0200731	27-JUL-92	16		0.2	F
MAGNESIUM	MWL-MW2	SNL0200833	18-JAN-93	17.6		0.2	F
MAGNESIUM	MWL-MW2	SNL0200950	26-APR-93	17		0.2	F
MAGNESIUM	MWL-MW2	SNL0200944	26-APR-93	17.1		0.2	F
MAGNESIUM	MWL-MW2	SNL0201063	08-NOV-93	18.5		0.2	F
MAGNESIUM	MWL-MW2	SNL0201284	02-MAY-94	19.7		0.2	F
MAGNESIUM	MWL-MW2	SNL0201402	24-OCT-94	18.8		0.2	F
MAGNESIUM	MWL-MW2	022145-06	17-APR-95	16.6		0.028	F
MAGNESIUM	MWL-MW2-EB	SNL0200687	22-JUL-92	0.2	U	0.2	F
MAGNESIUM	MWL-MW2-EB	SNL0200693	22-JUL-92	0.2	U	0.2	F
MAGNESIUM	MWL-MW2-EB	SNL0200906	20-APR-93	0.2	U	0.2	EB
MAGNESIUM	MWL-MW2-EB	SNL0201235	27-APR-94	0.2	U	0.2	F
MAGNESIUM	MWL-MW2-EB	SNL0201386	19-OCT-94	0.2	U	0.2	F
MAGNESIUM	MWL-MW3	SNL0200768	28-JUL-92	13.5		0.2	F
MAGNESIUM	MWL-MW3	SNL0200762	28-JUL-92	13.8		0.2	F
MAGNESIUM	MWL-MW3	SNL0200853	19-JAN-93	15.5		0.2	F
MAGNESIUM	MWL-MW3	SNL0200982	27-APR-93	14.1		0.2	F
MAGNESIUM	MWL-MW3	SNL0200976	27-APR-93	14.6		0.2	F
MAGNESIUM	MWL-MW3	SNL0201101	09-NOV-93	15.9		0.2	F
MAGNESIUM	MWL-MW3	SNL0201338	03-MAY-94	17.3		0.2	F
MAGNESIUM	MWL-MW3	SNL0201418	25-OCT-94	16.3		0.2	F
MAGNESIUM	MWL-MW3	022147-06	17-APR-95	17		0.028	F
MAGNESIUM	MWL-MW3	026458-07	16-OCT-95	15.2		0.00235	SA
MAGNESIUM	MWL-MW3-EB	SNL0200656	21-JUL-92	0.2	U	0.2	F
MAGNESIUM	MWL-MW3-EB	SNL0200650	21-JUL-92	0.31		0.2	F
MAGNESIUM	MWL-MW3-EB	SNL0200924	21-APR-93	0.2	U	0.2	EB
MAGNESIUM	MWL-MW3-EB	SNL0201251	27-APR-94	0.12	J	0.2	F
MAGNESIUM	MWL-MW3-EB	SNL0201370	17-OCT-94	0.2	U	0.2	F
MAGNESIUM	MWL-MW4	022150-06	19-APR-95	23		0.028	F
MAGNESIUM	MWL-MW4	022151-06	19-APR-95	22		0.028	F
MAGNESIUM	MWL-MW4	026466-07	20-OCT-95	20.9		0.00235	DU
MAGNESIUM	MWL-MW4	026465-07	20-OCT-95	20.3		0.00235	SA
MAGNESIUM	MWL-MW4-D	SNL0201008	28-APR-93	18.3		0.2	D
MAGNESIUM	MWL-MW4-D	SNL0201014	28-APR-93	18.8		0.2	D
MAGNESIUM	MWL-MW4-EB	SNL0201040	03-MAY-93	0.2	U	0.2	EB
MAGNESIUM	MWL-MW4-EB	SNL0201178	11-NOV-93	0.2	U	0.2	F
MAGNESIUM	MWL-MW4C	SNL0201024	30-APR-93	19.5		0.2	F
MAGNESIUM	MWL-MW4C	SNL0201030	30-APR-93	20.1		0.2	F
MAGNESIUM	MWL-MW4C	SNL0201158	11-NOV-93	19.7		0.2	F
MAGNESIUM	MWL-MW4L	SNL0201199	14-MAR-94	28.1		0.2	F
MAGNESIUM	MWL-MW4	SNL0201354	31-MAY-94	19.8		0.2	F
MAGNESIUM	MWL-MW4	SNL0201510	28-OCT-94	20.4		0.2	F
MANGANESE	MWL-BW1	SNL0200114	24-JAN-91	0.01	U	0.01	F
MANGANESE	MWL-BW1	SNL0200110	24-JAN-91	0.01	U	0.01	F
MANGANESE	MWL-BW1	SNL0200289	07-MAY-91	0.01	U	0.01	F
MANGANESE	MWL-BW1	SNL0200293	07-MAY-91	0.01	U	0.01	F
MANGANESE	MWL-BW1	SNL0200415	06-AUG-91	0.01	U	0.01	F
MANGANESE	MWL-BW1	SNL0200411	06-AUG-91	0.01	U	0.01	F
MANGANESE	MWL-BW1	SNL0200577	16-OCT-91	0.01	U	0.01	F
MANGANESE	MWL-BW1	SNL0200573	16-OCT-91	0.01	U	0.01	F
MANGANESE	MWL-BW1	SNL0200788	29-JUL-92	0.01	U	0.01	F
MANGANESE	MWL-BW1	SNL0200782	29-JUL-92	0.01	U	0.01	F
MANGANESE	MWL-BW1	SNL0200873	20-JAN-93	0.01	U	0.01	D
MANGANESE	MWL-BW1	SNL0200863	20-JAN-93	0.01	U	0.01	F
MANGANESE	MWL-BW1	SNL0200998	28-APR-93	0.016		0.01	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
MANGANESE	MWL-BW1	SNL0200992	28-APR-93	0.0098	J	0.01	F
MANGANESE	MWL-BW1	SNL0201120	10-NOV-93	0.01	U	0.01	F
MANGANESE	MWL-BW1	SNL0201480	27-OCT-94	0.01	U	0.01	F
MANGANESE	MWL-BW1	SNL0201495	27-OCT-94	0.01	U	0.01	F
MANGANESE	MWL-BW1	026461-07	23-OCT-95	0.00955	J	0.0001	SA
MANGANESE	MWL-BW1-D	SNL0200148	24-JAN-91	0.01	U	0.01	F
MANGANESE	MWL-BW1-D	SNL0200152	24-JAN-91	0.01	U	0.01	F
MANGANESE	MWL-BW1-D	SNL0200325	07-MAY-91	0.01	U	0.01	F
MANGANESE	MWL-BW1-D	SNL0200329	07-MAY-91	0.01	U	0.01	F
MANGANESE	MWL-BW1-D	SNL0200432	06-AUG-91	0.01	U	0.01	F
MANGANESE	MWL-BW1-D	SNL0200428	06-AUG-91	0.01	U	0.01	F
MANGANESE	MWL-BW1-D	SNL0200591	16-OCT-91	0.01	U	0.01	F
MANGANESE	MWL-BW1-D	SNL0200595	16-OCT-91	0.01	U	0.01	F
MANGANESE	MWL-BW1-D	SNL0200800	29-JUL-92	0.01	U	0.01	F
MANGANESE	MWL-BW1-D	SNL0200806	29-JUL-92	0.01	U	0.01	F
MANGANESE	MWL-BW1-D	SNL0201139	10-NOV-93	0.01	U	0.01	F
MANGANESE	MWL-BW1-EB	SNL0200505	09-OCT-91	0.01	U	0.01	F
MANGANESE	MWL-BW1-EB	SNL0200501	09-OCT-91	0.01	U	0.01	F
MANGANESE	MWL-BW1-EB	SNL0200712	23-JUL-92	0.01	U	0.01	F
MANGANESE	MWL-BW1-EB	SNL0200706	23-JUL-92	0.01	U	0.01	F
MANGANESE	MWL-BW1-EB	SNL0200934	21-APR-93	0.01	U	0.01	EB
MANGANESE	MWL-BW1-EB	SNL0201266	27-APR-94	0.01	U	0.01	F
MANGANESE	MWL-BW1-EB	SNL0201464	26-OCT-94	0.01	U	0.01	F
MANGANESE	MWL-BW1-FB	SNL0200609	16-OCT-91	0.01	U	0.01	F
MANGANESE	MWL-BW1-FB	SNL0200613	16-OCT-91	0.01	U	0.01	F
MANGANESE	MWL-BW1-FB	SNL0200819	29-JUL-92	0.01	U	0.01	F
MANGANESE	MWL-BW1-FB	SNL0200825	29-JUL-92	0.01	U	0.01	F
MANGANESE	MWL-FB	SNL0200205	28-JAN-91	0.01	U	0.01	F
MANGANESE	MWL-FB	SNL0200209	28-JAN-91	0.01	U	0.01	F
MANGANESE	MWL-FB	SNL0200269	02-MAY-91	0.01	U	0.01	F
MANGANESE	MWL-FB	SNL0200265	02-MAY-91	0.01	U	0.01	F
MANGANESE	MWL-FB	SNL0200377	01-AUG-91	0.01	U	0.01	F
MANGANESE	MWL-FB	SNL0200381	01-AUG-91	0.01	U	0.01	F
MANGANESE	MWL-MW1	SNL0200129	24-JAN-91	0.019		0.01	F
MANGANESE	MWL-MW1	SNL0200133	24-JAN-91	0.01	U	0.01	F
MANGANESE	MWL-MW1	SNL0200311	07-MAY-91	0.01	U	0.01	F
MANGANESE	MWL-MW1	SNL0200307	07-MAY-91	0.015		0.01	F
MANGANESE	MWL-MW1	SNL0200345	31-JUL-91	0.019		0.01	F
MANGANESE	MWL-MW1	SNL0200349	31-JUL-91	0.01	U	0.01	F
MANGANESE	MWL-MW1	SNL0200555	15-OCT-91	0.017		0.01	F
MANGANESE	MWL-MW1	SNL0200559	15-OCT-91	0.01	U	0.01	F
MANGANESE	MWL-MW1	SNL0200750	28-JUL-92	0.01	U	0.01	F
MANGANESE	MWL-MW1	SNL0200744	28-JUL-92	0.01	U	0.01	F
MANGANESE	MWL-MW1	SNL0200843	19-JAN-93	0.011		0.01	F
MANGANESE	MWL-MW1	SNL0200966	27-APR-93	0.012		0.01	F
MANGANESE	MWL-MW1	SNL0200960	27-APR-93	0.0095	J	0.01	F
MANGANESE	MWL-MW1	SNL0201082	09-NOV-93	0.01	U	0.01	F
MANGANESE	MWL-MW1	SNL0201320	03-MAY-94	0.012		0.01	F
MANGANESE	MWL-MW1	SNL0201450	25-OCT-94	0.0072	J	0.01	F
MANGANESE	MWL-MW1	SNL0201434	25-OCT-94	0.011		0.01	F
MANGANESE	MWL-MW1	022149-06	19-APR-95	0.01	U	0.005	F
MANGANESE	MWL-MW1	026464-07	20-OCT-95	0.0128		0.0001	SA
MANGANESE	MWL-MW1-D	SNL0201302	04-MAY-94	0.0078	J	0.01	F
MANGANESE	MWL-MW1-EB	SNL0200469	08-OCT-91	0.01	U	0.01	F
MANGANESE	MWL-MW1-EB	SNL0200465	08-OCT-91	0.01	U	0.01	F
MANGANESE	MWL-MW1-EB	SNL0200669	22-JUL-92	0.01	U	0.01	F
MANGANESE	MWL-MW1-EB	SNL0200675	22-JUL-92	0.01	U	0.01	F
MANGANESE	MWL-MW1-EB	SNL0200896	20-APR-93	0.01	U	0.01	EB

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
MANGANESE	MWL-MW1-EB	SNL0201219	26-APR-94	0.01	U	0.01	F
MANGANESE	MWL-MW2	SNL0200171	28-JAN-91	0.01	U	0.01	F
MANGANESE	MWL-MW2	SNL0200167	28-JAN-91	0.016		0.01	F
MANGANESE	MWL-MW2	SNL0200233	02-MAY-91	0.01	U	0.01	F
MANGANESE	MWL-MW2	SNL0200229	02-MAY-91	0.01	U	0.01	F
MANGANESE	MWL-MW2	SNL0200360	01-AUG-91	0.01	U	0.01	F
MANGANESE	MWL-MW2	SNL0200364	01-AUG-91	0.01	U	0.01	F
MANGANESE	MWL-MW2	SNL0200523	14-OCT-91	0.01	U	0.01	F
MANGANESE	MWL-MW2	SNL0200519	14-OCT-91	0.01	U	0.01	F
MANGANESE	MWL-MW2	SNL0200725	27-JUL-92	0.01	U	0.01	F
MANGANESE	MWL-MW2	SNL0200731	27-JUL-92	0.01	U	0.01	F
MANGANESE	MWL-MW2	SNL0200833	18-JAN-93	0.01	U	0.01	F
MANGANESE	MWL-MW2	SNL0200944	26-APR-93	0.01	U	0.01	F
MANGANESE	MWL-MW2	SNL0200950	26-APR-93	0.0082	J	0.01	F
MANGANESE	MWL-MW2	SNL0201063	08-NOV-93	0.01	U	0.01	F
MANGANESE	MWL-MW2	SNL0201284	02-MAY-94	0.0089	J	0.01	F
MANGANESE	MWL-MW2	SNL0201402	24-OCT-94	0.01	U	0.01	F
MANGANESE	MWL-MW2	022145-06	17-APR-95	0.01	U	0.005	F
MANGANESE	MWL-MW2-EB	SNL0200451	07-OCT-91	0.01	U	0.01	F
MANGANESE	MWL-MW2-EB	SNL0200447	07-OCT-91	0.01	U	0.01	F
MANGANESE	MWL-MW2-EB	SNL0200687	22-JUL-92	0.01	U	0.01	F
MANGANESE	MWL-MW2-EB	SNL0200693	22-JUL-92	0.01	U	0.01	F
MANGANESE	MWL-MW2-EB	SNL0200906	20-APR-93	0.01	U	0.01	EB
MANGANESE	MWL-MW2-EB	SNL0201235	27-APR-94	0.01	U	0.01	F
MANGANESE	MWL-MW2-EB	SNL0201386	19-OCT-94	0.055		0.01	F
MANGANESE	MWL-MW3	SNL0200190	28-JAN-91	0.01	U	0.01	F
MANGANESE	MWL-MW3	SNL0200186	28-JAN-91	0.01	U	0.01	F
MANGANESE	MWL-MW3	SNL0200247	02-MAY-91	0.01	U	0.01	F
MANGANESE	MWL-MW3	SNL0200251	02-MAY-91	0.01	U	0.01	F
MANGANESE	MWL-MW3	SNL0200394	05-AUG-91	0.01	U	0.01	F
MANGANESE	MWL-MW3	SNL0200398	05-AUG-91	0.01	U	0.01	F
MANGANESE	MWL-MW3	SNL0200541	15-OCT-91	0.01	U	0.01	F
MANGANESE	MWL-MW3	SNL0200537	15-OCT-91	0.01	U	0.01	F
MANGANESE	MWL-MW3	SNL0200768	28-JUL-92	0.01	U	0.01	F
MANGANESE	MWL-MW3	SNL0200762	28-JUL-92	0.01	U	0.01	F
MANGANESE	MWL-MW3	SNL0200853	19-JAN-93	0.01	U	0.01	F
MANGANESE	MWL-MW3	SNL0200982	27-APR-93	0.05		0.01	F
MANGANESE	MWL-MW3	SNL0200976	27-APR-93	0.056		0.01	F
MANGANESE	MWL-MW3	SNL0201101	09-NOV-93	0.0043	J	0.01	F
MANGANESE	MWL-MW3	SNL0201338	03-MAY-94	0.012		0.01	F
MANGANESE	MWL-MW3	SNL0201418	25-OCT-94	0.021		0.01	F
MANGANESE	MWL-MW3	022147-06	17-APR-95	0.01	U	0.005	F
MANGANESE	MWL-MW3	026458-07	16-OCT-95	0.013		0.0001	SA
MANGANESE	MWL-MW3-EB	SNL0200487	09-OCT-91	0.01	U	0.01	F
MANGANESE	MWL-MW3-EB	SNL0200483	09-OCT-91	0.01	U	0.01	F
MANGANESE	MWL-MW3-EB	SNL0200650	21-JUL-92	0.01	U	0.01	F
MANGANESE	MWL-MW3-EB	SNL0200656	21-JUL-92	0.01	U	0.01	F
MANGANESE	MWL-MW3-EB	SNL0200924	21-APR-93	0.01	U	0.01	EB
MANGANESE	MWL-MW3-EB	SNL0201251	27-APR-94	0.01	U	0.01	F
MANGANESE	MWL-MW3-EB	SNL0201370	17-OCT-94	0.01	U	0.01	F
MANGANESE	MWL-MW4	022150-06	19-APR-95	0.028		0.005	F
MANGANESE	MWL-MW4	022151-06	19-APR-95	0.027		0.005	F
MANGANESE	MWL-MW4	026465-07	20-OCT-95	0.0284		0.0001	SA
MANGANESE	MWL-MW4	026466-07	20-OCT-95	0.0295		0.0001	DU
MANGANESE	MWL-MW4-D	SNL0201014	28-APR-93	0.0097	J	0.01	D
MANGANESE	MWL-MW4-D	SNL0201008	28-APR-93	0.022		0.01	D
MANGANESE	MWL-MW4-EB	SNL0201040	03-MAY-93	0.014		0.01	EB
MANGANESE	MWL-MW4-EB	SNL0201178	11-NOV-93	0.01	U	0.01	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
MANGANESE	MWL-MW4C	SNL0201024	30-APR-93	0.16		0.01	F
MANGANESE	MWL-MW4C	SNL0201030	30-APR-93	0.17		0.01	F
MANGANESE	MWL-MW4C	SNL0201158	11-NOV-93	0.04		0.01	F
MANGANESE	MWL-MW4L	SNL0201199	14-MAR-94	0.041		0.01	F
MANGANESE	MWL-MW4	SNL0201354	31-MAY-94	0.094		0.01	F
MANGANESE	MWL-MW4	SNL0201510	28-OCT-94	0.045		0.01	F
MERCURY	MWL-BW1	SNL0200027	27-SEP-90	0.0002	U	0.0002	F
MERCURY	MWL-BW1	SNL0200018	27-SEP-90	0.0002	U	0.0002	F
MERCURY	MWL-BW1	SNL0200115	24-JAN-91	0.0002	U	0.0002	F
MERCURY	MWL-BW1	SNL0200108	24-JAN-91	0.0002	U	0.0002	F
MERCURY	MWL-BW1	SNL0200287	07-MAY-91	0.0002	U	0.0002	F
MERCURY	MWL-BW1	SNL0200294	07-MAY-91	0.0002	U	0.0002	F
MERCURY	MWL-BW1	SNL0200409	06-AUG-91	0.0002	U	0.0002	F
MERCURY	MWL-BW1	SNL0200416	06-AUG-91	0.0002	U	0.0002	F
MERCURY	MWL-BW1	SNL0200578	16-OCT-91	0.0002	U	0.0002	F
MERCURY	MWL-BW1	SNL0200571	16-OCT-91	0.0002	U	0.0002	F
MERCURY	MWL-BW1	SNL0200779	29-JUL-92	0.0002	U	0.0002	F
MERCURY	MWL-BW1	SNL0200785	29-JUL-92	0.0002	U	0.0002	F
MERCURY	MWL-BW1	SNL0200866	20-JAN-93	0.0002	U	0.0002	F
MERCURY	MWL-BW1	SNL0200876	20-JAN-93	0.0002	U	0.0002	D
MERCURY	MWL-BW1	SNL0200995	28-APR-93	0.0002	U	0.0002	F
MERCURY	MWL-BW1	SNL0201001	28-APR-93	0.0002	U	0.0002	F
MERCURY	MWL-BW1	SNL0201117	10-NOV-93	0.0002	U	0.0002	F
MERCURY	MWL-BW1	SNL0201496	27-OCT-94	0.0002	U	0.0002	F
MERCURY	MWL-BW1	SNL0201481	27-OCT-94	0.0002	U	0.0002	F
MERCURY	MWL-BW1	026461-08	23-OCT-95	0.00003	JB	0.00001	SA
MERCURY	MWL-BW1-D	SNL0200045	27-SEP-90	0.0002	U	0.0002	F
MERCURY	MWL-BW1-D	SNL0200036	27-SEP-90	0.0002	U	0.0002	F
MERCURY	MWL-BW1-D	SNL0200146	24-JAN-91	0.0002	U	0.0002	F
MERCURY	MWL-BW1-D	SNL0200153	24-JAN-91	0.0002	U	0.0002	F
MERCURY	MWL-BW1-D	SNL0200330	07-MAY-91	0.0002	U	0.0002	F
MERCURY	MWL-BW1-D	SNL0200323	07-MAY-91	0.0002	U	0.0002	F
MERCURY	MWL-BW1-D	SNL0200426	06-AUG-91	0.0002	U	0.0002	F
MERCURY	MWL-BW1-D	SNL0200433	06-AUG-91	0.0002	U	0.0002	F
MERCURY	MWL-BW1-D	SNL0200596	16-OCT-91	0.0002	U	0.0002	F
MERCURY	MWL-BW1-D	SNL0200589	16-OCT-91	0.0002	U	0.0002	F
MERCURY	MWL-BW1-D	SNL0200803	29-JUL-92	0.0002	U	0.0002	F
MERCURY	MWL-BW1-D	SNL0200797	29-JUL-92	0.0002	U	0.0002	F
MERCURY	MWL-BW1-D	SNL0201136	10-NOV-93	0.0002	U	0.0002	F
MERCURY	MWL-BW1-EB	SNL0200506	09-OCT-91	0.0002	U	0.0002	F
MERCURY	MWL-BW1-EB	SNL0200499	09-OCT-91	0.0002	U	0.0002	F
MERCURY	MWL-BW1-EB	SNL0200703	23-JUL-92	0.0002	U	0.0002	F
MERCURY	MWL-BW1-EB	SNL0200709	23-JUL-92	0.0002	U	0.0002	F
MERCURY	MWL-BW1-EB	SNL0200937	21-APR-93	0.0002	U	0.0002	EB
MERCURY	MWL-BW1-EB	SNL0201267	27-APR-94	0.0002	U	0.0002	F
MERCURY	MWL-BW1-EB	SNL0201465	26-OCT-94	0.0002	U	0.0002	F
MERCURY	MWL-BW1-FB	SNL0200614	16-OCT-91	0.0002	U	0.0002	F
MERCURY	MWL-BW1-FB	SNL0200607	16-OCT-91	0.0002	U	0.0002	F
MERCURY	MWL-BW1-FB	SNL0200822	29-JUL-92	0.0002	U	0.0002	F
MERCURY	MWL-BW1-FB	SNL0200816	29-JUL-92	0.0002	U	0.0002	F
MERCURY	MWL-FB	SNL0200203	28-JAN-91	0.0002	U	0.0002	F
MERCURY	MWL-FB	SNL0200210	28-JAN-91	0.0002	U	0.0002	F
MERCURY	MWL-FB	SNL0200270	02-MAY-91	0.0002	U	0.0002	F
MERCURY	MWL-FB	SNL0200263	02-MAY-91	0.0002	U	0.0002	F
MERCURY	MWL-FB	SNL0200382	01-AUG-91	0.0002	U	0.0002	F
MERCURY	MWL-FB	SNL0200375	01-AUG-91	0.0002	U	0.0002	F
MERCURY	MWL-MW1	SNL0200127	24-JAN-91	0.0002	U	0.0002	F
MERCURY	MWL-MW1	SNL0200134	24-JAN-91	0.0002	U	0.0002	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
MERCURY	MWL-MW1	SNL0200312	07-MAY-91	0.0002	U	0.0002	F
MERCURY	MWL-MW1	SNL0200305	07-MAY-91	0.0002	U	0.0002	F
MERCURY	MWL-MW1	SNL0200350	31-JUL-91	0.0002	U	0.0002	F
MERCURY	MWL-MW1	SNL0200343	31-JUL-91	0.0002	U	0.0002	F
MERCURY	MWL-MW1	SNL0200553	15-OCT-91	0.0002	U	0.0002	F
MERCURY	MWL-MW1	SNL0200560	15-OCT-91	0.0002	U	0.0002	F
MERCURY	MWL-MW1	SNL0200747	28-JUL-92	0.0002	U	0.0002	F
MERCURY	MWL-MW1	SNL0200741	28-JUL-92	0.0002	U	0.0002	F
MERCURY	MWL-MW1	SNL0200846	19-JAN-93	0.0002	U	0.0002	F
MERCURY	MWL-MW1	SNL0200963	27-APR-93	0.0002	U	0.0002	F
MERCURY	MWL-MW1	SNL0200969	27-APR-93	0.0002	U	0.0002	F
MERCURY	MWL-MW1	SNL0201079	09-NOV-93	0.0002	U	0.0002	F
MERCURY	MWL-MW1	SNL0201321	03-MAY-94	0.0002	U	0.0002	F
MERCURY	MWL-MW1	SNL0201451	25-OCT-94	0.0002	U	0.0002	F
MERCURY	MWL-MW1	SNL0201435	25-OCT-94	0.0002	U	0.0002	F
MERCURY	MWL-MW1	022149-06	19-APR-95	0.0002	U	0.04	F
MERCURY	MWL-MW1	026464-08	20-OCT-95	0.00001	UB	0.00001	SA
MERCURY	MWL-MW1-D	SNL0201303	04-MAY-94	0.0002	U	0.0002	F
MERCURY	MWL-MW1-EB	SNL0200470	08-OCT-91	0.0002	U	0.0002	F
MERCURY	MWL-MW1-EB	SNL0200463	08-OCT-91	0.0002	U	0.0002	F
MERCURY	MWL-MW1-EB	SNL0200672	22-JUL-92	0.0002	U	0.0002	F
MERCURY	MWL-MW1-EB	SNL0200666	22-JUL-92	0.0002	U	0.0002	F
MERCURY	MWL-MW1-EB	SNL0200899	20-APR-93	0.0002	U	0.0002	EB
MERCURY	MWL-MW1-EB	SNL0201220	26-APR-94	0.0002	U	0.0002	F
MERCURY	MWL-MW2	SNL0200097	28-SEP-90	0.0002	U	0.0002	F
MERCURY	MWL-MW2	SNL0200088	28-SEP-90	0.0002	U	0.0002	F
MERCURY	MWL-MW2	SNL0200172	28-JAN-91	0.0002	U	0.0002	F
MERCURY	MWL-MW2	SNL0200165	28-JAN-91	0.0002	U	0.0002	F
MERCURY	MWL-MW2	SNL0200227	02-MAY-91	0.0002	U	0.0002	F
MERCURY	MWL-MW2	SNL0200234	02-MAY-91	0.0002	U	0.0002	F
MERCURY	MWL-MW2	SNL0200365	01-AUG-91	0.0002	U	0.0002	F
MERCURY	MWL-MW2	SNL0200358	01-AUG-91	0.0002	U	0.0002	F
MERCURY	MWL-MW2	SNL0200517	14-OCT-91	0.0002	U	0.0002	F
MERCURY	MWL-MW2	SNL0200524	14-OCT-91	0.0002	U	0.0002	F
MERCURY	MWL-MW2	SNL0200722	27-JUL-92	0.0007		0.0002	F
MERCURY	MWL-MW2	SNL0200728	27-JUL-92	0.0002	U	0.0002	F
MERCURY	MWL-MW2	SNL0200836	18-JAN-93	0.0002	U	0.0002	F
MERCURY	MWL-MW2	SNL0200947	26-APR-93	0.0002	U	0.0002	F
MERCURY	MWL-MW2	SNL0200953	26-APR-93	0.0002	U	0.0002	F
MERCURY	MWL-MW2	SNL0201060	08-NOV-93	0.0002	U	0.0002	F
MERCURY	MWL-MW2	SNL0201285	02-MAY-94	0.0002	U	0.0002	F
MERCURY	MWL-MW2	SNL0201403	24-OCT-94	0.0002	U	0.0002	F
MERCURY	MWL-MW2	022145-06	17-APR-95	0.0002	U	0.04	F
MERCURY	MWL-MW2-EB	SNL0200445	07-OCT-91	0.0002	U	0.0002	F
MERCURY	MWL-MW2-EB	SNL0200452	07-OCT-91	0.0002	U	0.0002	F
MERCURY	MWL-MW2-EB	SNL0200684	22-JUL-92	0.0002	U	0.0002	F
MERCURY	MWL-MW2-EB	SNL0200690	22-JUL-92	0.0002	U	0.0002	F
MERCURY	MWL-MW2-EB	SNL0200909	20-APR-93	0.0002	U	0.0002	EB
MERCURY	MWL-MW2-EB	SNL0201236	27-APR-94	0.0002	U	0.0002	F
MERCURY	MWL-MW2-EB	SNL0201387	19-OCT-94	0.0002	U	0.0002	F
MERCURY	MWL-MW3	SNL0200072	28-SEP-90	0.0002	U	0.0002	F
MERCURY	MWL-MW3	SNL0200063	28-SEP-90	0.0002	U	0.0002	F
MERCURY	MWL-MW3	SNL0200191	28-JAN-91	0.0002	U	0.0002	F
MERCURY	MWL-MW3	SNL0200184	28-JAN-91	0.0002	U	0.0002	F
MERCURY	MWL-MW3	SNL0200252	02-MAY-91	0.0002	U	0.0002	F
MERCURY	MWL-MW3	SNL0200245	02-MAY-91	0.0002	U	0.0002	F
MERCURY	MWL-MW3	SNL0200399	05-AUG-91	0.0002	U	0.0002	F
MERCURY	MWL-MW3	SNL0200392	05-AUG-91	0.0002	U	0.0002	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
MERCURY	MWL-MW3	SNL0200542	15-OCT-91	0.0002	U	0.0002	F
MERCURY	MWL-MW3	SNL0200535	15-OCT-91	0.0002	U	0.0002	F
MERCURY	MWL-MW3	SNL0200759	28-JUL-92	0.0002	U	0.0002	F
MERCURY	MWL-MW3	SNL0200765	28-JUL-92	0.0002	U	0.0002	F
MERCURY	MWL-MW3	SNL0200856	19-JAN-93	0.0002	U	0.0002	F
MERCURY	MWL-MW3	SNL0200979	27-APR-93	0.0002	U	0.0002	F
MERCURY	MWL-MW3	SNL0200985	27-APR-93	0.0002	U	0.0002	F
MERCURY	MWL-MW3	SNL0201098	09-NOV-93	0.0002	U	0.0002	F
MERCURY	MWL-MW3	SNL0201339	03-MAY-94	0.0002	U	0.0002	F
MERCURY	MWL-MW3	SNL0201419	25-OCT-94	0.0002	U	0.0002	F
MERCURY	MWL-MW3	022147-06	17-APR-95	0.0002	U	0.04	F
MERCURY	MWL-MW3	026458-08	16-OCT-95	0.00001	BU	0.00001	SA
MERCURY	MWL-MW3-EB	SNL0200488	09-OCT-91	0.0002	U	0.0002	F
MERCURY	MWL-MW3-EB	SNL0200481	09-OCT-91	0.0002	U	0.0002	F
MERCURY	MWL-MW3-EB	SNL0200653	21-JUL-92	0.0004	U	0.0004	F
MERCURY	MWL-MW3-EB	SNL0200647	21-JUL-92	0.0002	U	0.0002	F
MERCURY	MWL-MW3-EB	SNL0200927	21-APR-93	0.0002	U	0.0002	EB
MERCURY	MWL-MW3-EB	SNL0201252	27-APR-94	0.0002	U	0.0002	F
MERCURY	MWL-MW3-EB	SNL0201371	17-OCT-94	0.0002	U	0.0002	F
MERCURY	MWL-MW4	022151-06	19-APR-95	0.0002	U	0.04	F
MERCURY	MWL-MW4	022150-06	19-APR-95	0.0002	U	0.04	F
MERCURY	MWL-MW4	026466-08	20-OCT-95	0.00004	JB	0.00001	DU
MERCURY	MWL-MW4	026465-08	20-OCT-95	0.00001	UB	0.00001	SA
MERCURY	MWL-MW4-D	SNL0201017	28-APR-93	0.0002	U	0.0002	D
MERCURY	MWL-MW4-D	SNL0201011	28-APR-93	0.0002	U	0.0002	D
MERCURY	MWL-MW4-EB	SNL0201043	03-MAY-93	0.0002	U	0.0002	EB
MERCURY	MWL-MW4-EB	SNL0201175	11-NOV-93	0.0002	U	0.0002	F
MERCURY	MWL-MW4C	SNL0201027	30-APR-93	0.0002	U	0.0002	F
MERCURY	MWL-MW4C	SNL0201033	30-APR-93	0.0002	U	0.0002	F
MERCURY	MWL-MW4C	SNL0201155	11-NOV-93	0.0002	U	0.0002	F
MERCURY	MWL-MW4L	SNL0201202	14-MAR-94	0.00034		0.0002	F
MERCURY	MWL-MW4	SNL0201355	31-MAY-94	0.0002	U	0.0002	F
MERCURY	MWL-MW4	SNL0201511	28-OCT-94	0.0002	U	0.0002	F
NICKEL	MWL-BW1	SNL0200021	27-SEP-90	0.04	U	0.04	F
NICKEL	MWL-BW1	SNL0200026	27-SEP-90	0.04	U	0.04	F
NICKEL	MWL-BW1	SNL0200788	29-JUL-92	0.04	U	0.04	F
NICKEL	MWL-BW1	SNL0200782	29-JUL-92	0.04	U	0.04	F
NICKEL	MWL-BW1	SNL0200863	20-JAN-93	0.04	U	0.04	F
NICKEL	MWL-BW1	SNL0200873	20-JAN-93	0.04	U	0.04	D
NICKEL	MWL-BW1	SNL0200998	28-APR-93	0.012	J	0.04	F
NICKEL	MWL-BW1	SNL0200992	28-APR-93	0.011	J	0.04	F
NICKEL	MWL-BW1	SNL0201120	10-NOV-93	0.04	U	0.04	F
NICKEL	MWL-BW1	SNL0201495	27-OCT-94	0.04	U	0.04	F
NICKEL	MWL-BW1	SNL0201480	27-OCT-94	0.04	U	0.04	F
NICKEL	MWL-BW1	026461-07	23-OCT-95	0.00196	J	0.00081	SA
NICKEL	MWL-BW1-D	SNL0200044	27-SEP-90	0.04	U	0.04	F
NICKEL	MWL-BW1-D	SNL0200039	27-SEP-90	0.04	U	0.04	F
NICKEL	MWL-BW1-D	SNL0200800	29-JUL-92	0.04	U	0.04	F
NICKEL	MWL-BW1-D	SNL0200806	29-JUL-92	0.04	U	0.04	F
NICKEL	MWL-BW1-D	SNL0201139	10-NOV-93	0.04	U	0.04	F
NICKEL	MWL-BW1-EB	SNL0200712	23-JUL-92	0.04	U	0.04	F
NICKEL	MWL-BW1-EB	SNL0200706	23-JUL-92	0.04	U	0.04	F
NICKEL	MWL-BW1-EB	SNL0200934	21-APR-93	0.04	U	0.04	EB
NICKEL	MWL-BW1-EB	SNL0201266	27-APR-94	0.04	U	0.04	F
NICKEL	MWL-BW1-EB	SNL0201464	26-OCT-94	0.04	U	0.04	F
NICKEL	MWL-BW1-FB	SNL0200819	29-JUL-92	0.04	U	0.04	F
NICKEL	MWL-BW1-FB	SNL0200825	29-JUL-92	0.04	U	0.04	F
NICKEL	MWL-MW1	SNL0200750	28-JUL-92	0.063		0.04	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
NICKEL	MWL-MW1	SNL0200744	28-JUL-92	0.15		0.04	F
NICKEL	MWL-MW1	SNL0200843	19-JAN-93	0.078		0.04	F
NICKEL	MWL-MW1	SNL0200960	27-APR-93	0.097		0.04	F
NICKEL	MWL-MW1	SNL0200966	27-APR-93	0.094		0.04	F
NICKEL	MWL-MW1	SNL0201082	09-NOV-93	0.095		0.04	F
NICKEL	MWL-MW1	SNL0201320	03-MAY-94	0.15		0.04	F
NICKEL	MWL-MW1	SNL0201434	25-OCT-94	0.13		0.04	F
NICKEL	MWL-MW1	SNL0201450	25-OCT-94	0.1		0.04	F
NICKEL	MWL-MW1	022149-06	19-APR-95	0.12		0.006	F
NICKEL	MWL-MW1	026464-07	20-OCT-95	0.107		0.00081	SA
NICKEL	MWL-MW1-D	SNL0201302	04-MAY-94	0.13		0.04	F
NICKEL	MWL-MW1-EB	SNL0200675	22-JUL-92	0.04	U	0.04	F
NICKEL	MWL-MW1-EB	SNL0200669	22-JUL-92	0.04	U	0.04	F
NICKEL	MWL-MW1-EB	SNL0200896	20-APR-93	0.04	U	0.04	EB
NICKEL	MWL-MW1-EB	SNL0201219	26-APR-94	0.04	U	0.04	F
NICKEL	MWL-MW2	SNL0200096	28-SEP-90	0.04	U	0.04	F
NICKEL	MWL-MW2	SNL0200091	28-SEP-90	0.04	U	0.04	F
NICKEL	MWL-MW2	SNL0200731	27-JUL-92	0.04	U	0.04	F
NICKEL	MWL-MW2	SNL0200725	27-JUL-92	0.04	U	0.04	F
NICKEL	MWL-MW2	SNL0200833	18-JAN-93	0.04	U	0.04	F
NICKEL	MWL-MW2	SNL0200950	26-APR-93	0.013	J	0.04	F
NICKEL	MWL-MW2	SNL0200944	26-APR-93	0.014	J	0.04	F
NICKEL	MWL-MW2	SNL0201063	08-NOV-93	0.04	U	0.04	F
NICKEL	MWL-MW2	SNL0201284	02-MAY-94	0.04	U	0.04	F
NICKEL	MWL-MW2	SNL0201402	24-OCT-94	0.04	U	0.04	F
NICKEL	MWL-MW2	022145-06	17-APR-95	0.0075	J	0.006	F
NICKEL	MWL-MW2-EB	SNL0200693	22-JUL-92	0.04	U	0.04	F
NICKEL	MWL-MW2-EB	SNL0200687	22-JUL-92	0.04	U	0.04	F
NICKEL	MWL-MW2-EB	SNL0200906	20-APR-93	0.04	U	0.04	EB
NICKEL	MWL-MW2-EB	SNL0201235	27-APR-94	0.04	U	0.04	F
NICKEL	MWL-MW2-EB	SNL0201386	19-OCT-94	0.04	U	0.04	F
NICKEL	MWL-MW3	SNL0200071	28-SEP-90	0.04	U	0.04	F
NICKEL	MWL-MW3	SNL0200066	28-SEP-90	0.04	U	0.04	F
NICKEL	MWL-MW3	SNL0200768	28-JUL-92	0.043		0.04	F
NICKEL	MWL-MW3	SNL0200762	28-JUL-92	0.066		0.04	F
NICKEL	MWL-MW3	SNL0200853	19-JAN-93	0.026	J	0.04	F
NICKEL	MWL-MW3	SNL0200976	27-APR-93	0.037	J	0.04	F
NICKEL	MWL-MW3	SNL0200982	27-APR-93	0.033	J	0.04	F
NICKEL	MWL-MW3	SNL0201101	09-NOV-93	0.014	J	0.04	F
NICKEL	MWL-MW3	SNL0201338	03-MAY-94	0.011	J	0.04	F
NICKEL	MWL-MW3	SNL0201418	25-OCT-94	0.0098	J	0.04	F
NICKEL	MWL-MW3	022147-06	17-APR-95	0.0093	J	0.006	F
NICKEL	MWL-MW3	026458-07	16-OCT-95	0.00799	J	0.00081	SA
NICKEL	MWL-MW3-EB	SNL0200650	21-JUL-92	0.04	U	0.04	F
NICKEL	MWL-MW3-EB	SNL0200656	21-JUL-92	0.04	U	0.04	F
NICKEL	MWL-MW3-EB	SNL0200924	21-APR-93	0.04	U	0.04	EB
NICKEL	MWL-MW3-EB	SNL0201251	27-APR-94	0.04	U	0.04	F
NICKEL	MWL-MW3-EB	SNL0201370	17-OCT-94	0.04	U	0.04	F
NICKEL	MWL-MW4	022150-06	19-APR-95	0.04	U	0.006	F
NICKEL	MWL-MW4	022151-06	19-APR-95	0.0082	J	0.006	F
NICKEL	MWL-MW4	026465-07	20-OCT-95	0.00307	J	0.00081	SA
NICKEL	MWL-MW4	026466-07	20-OCT-95	0.00363	J	0.00081	DU
NICKEL	MWL-MW4-D	SNL0201008	28-APR-93	0.016	J	0.04	D
NICKEL	MWL-MW4-D	SNL0201014	28-APR-93	0.0075	J	0.04	D
NICKEL	MWL-MW4-EB	SNL0201040	03-MAY-93	0.0096	J	0.04	EB
NICKEL	MWL-MW4-EB	SNL0201178	11-NOV-93	0.04	U	0.04	F
NICKEL	MWL-MW4C	SNL0201030	30-APR-93	0.0082	J	0.04	F
NICKEL	MWL-MW4C	SNL0201024	30-APR-93	0.04	U	0.04	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
NICKEL	MWL-MW4C	SNL0201158	11-NOV-93	0.04	U	0.04	F
NICKEL	MWL-MW4L	SNL0201199	14-MAR-94	0.04	U	0.04	F
NICKEL	MWL-MW4	SNL0201354	31-MAY-94	0.04	U	0.04	F
NICKEL	MWL-MW4	SNL0201510	28-OCT-94	0.0082	J	0.04	F
NITRATE	MWL-BW1	SNL0200030	27-SEP-90	6		2	F
NITRATE	MWL-BW1	SNL0200118	24-JAN-91	5.4		0.5	F
NITRATE	MWL-BW1	SNL0200296	07-MAY-91	6.2		0.5	F
NITRATE	MWL-BW1	SNL0200417	06-AUG-91	5.1		0.1	F
NITRATE	MWL-BW1	SNL0200582	16-OCT-91	5.6		0.5	F
NITRATE	MWL-BW1	SNL0200991	28-APR-93	5.4		0.1	F
NITRATE	MWL-BW1	026461-06	23-OCT-95	5.75		0.02	SA
NITRATE	MWL-BW1-D	SNL0200048	27-SEP-90	6.1		2	F
NITRATE	MWL-BW1-D	SNL0200156	24-JAN-91	5.2		1	F
NITRATE	MWL-BW1-D	SNL0200332	07-MAY-91	2.6		0.25	F
NITRATE	MWL-BW1-D	SNL0200434	06-AUG-91	5.1		0.1	F
NITRATE	MWL-BW1-D	SNL0200600	16-OCT-91	5.6		0.5	F
NITRATE	MWL-BW1-EB	SNL0200510	09-OCT-91	0.1	U	0.1	F
NITRATE	MWL-BW1-EB	SNL0200933	21-APR-93	0.1	U	0.1	EB
NITRATE	MWL-BW1-EB	SNL0201262	27-APR-94	0.12		0.1	F
NITRATE	MWL-BW1-FB	SNL0200618	16-OCT-91	0.1	U	0.1	F
NITRATE	MWL-FB	SNL0200213	28-JAN-91	0.1	U	0.1	F
NITRATE	MWL-FB	SNL0200272	02-MAY-91	0.1	U	0.1	F
NITRATE	MWL-FB	SNL0200383	01-AUG-91	0.1	U	0.1	F
NITRATE	MWL-MW1	SNL0200137	24-JAN-91	4.9		1	F
NITRATE	MWL-MW1	SNL0200314	07-MAY-91	2.4		0.25	F
NITRATE	MWL-MW1	SNL0200337	31-JUL-91	4.7		0.1	F
NITRATE	MWL-MW1	SNL0200564	15-OCT-91	5.5		0.5	F
NITRATE	MWL-MW1	SNL0200959	27-APR-93	5		0.1	F
NITRATE	MWL-MW1	SNL0201315	03-MAY-94	4.7		0.1	F
NITRATE	MWL-MW1	026464-06	20-OCT-95	5.11		0.04	SA
NITRATE	MWL-MW1-D	SNL0201297	04-MAY-94	4.8		0.1	F
NITRATE	MWL-MW1-EB	SNL0200474	08-OCT-91	0.1	U	0.1	F
NITRATE	MWL-MW1-EB	SNL0200895	20-APR-93	0.1	U	0.1	EB
NITRATE	MWL-MW1-EB	SNL0201215	26-APR-94	0.1	U	0.1	F
NITRATE	MWL-MW2	SNL0200100	28-SEP-90	4		2	F
NITRATE	MWL-MW2	SNL0200175	28-JAN-91	4.4		0.5	F
NITRATE	MWL-MW2	SNL0200236	02-MAY-91	5.1		0.2	F
NITRATE	MWL-MW2	SNL0200366	01-AUG-91	4.3		0.1	F
NITRATE	MWL-MW2	SNL0200528	14-OCT-91	5.1		0.5	F
NITRATE	MWL-MW2	SNL0200943	26-APR-93	4.5		0.1	F
NITRATE	MWL-MW2	SNL0201279	02-MAY-94	4.5		0.1	F
NITRATE	MWL-MW2-EB	SNL0200456	07-OCT-91	0.1	U	0.1	F
NITRATE	MWL-MW2-EB	SNL0200905	20-APR-93	0.1	U	0.1	EB
NITRATE	MWL-MW2-EB	SNL0201231	27-APR-94	0.1	U	0.1	F
NITRATE	MWL-MW3	SNL0200075	28-SEP-90	4.2		2	F
NITRATE	MWL-MW3	SNL0200194	28-JAN-91	4.4		0.5	F
NITRATE	MWL-MW3	SNL0200254	02-MAY-91	4.7		0.2	F
NITRATE	MWL-MW3	SNL0200400	05-AUG-91	3.7		0.1	F
NITRATE	MWL-MW3	SNL0200546	15-OCT-91	4.3		0.5	F
NITRATE	MWL-MW3	SNL0200975	27-APR-93	3.7		0.1	F
NITRATE	MWL-MW3	SNL0201333	03-MAY-94	3.7		0.1	F
NITRATE	MWL-MW3	026458-06	16-OCT-95	4.06		0.1	SA
NITRATE	MWL-MW3-EB	SNL0200492	09-OCT-91	0.1	U	0.1	F
NITRATE	MWL-MW3-EB	SNL0200923	21-APR-93	0.1	U	0.1	EB
NITRATE	MWL-MW3-EB	SNL0201247	27-APR-94	0.1	U	0.1	F
NITRATE	MWL-MW4	026465-06	20-OCT-95	0.713		0.02	SA
NITRATE	MWL-MW4	026466-06	20-OCT-95	0.733		0.02	DU
NITRATE	MWL-MW4-D	SNL0201007	28-APR-93	5.5		0.1	D

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
NITRATE	MWL-MW4-EB	SNL0201039	03-MAY-93	0.13		0.1	EB
NITRATE	MWL-MW4C	SNL0201023	30-APR-93	1.1		0.1	F
NITRATE	MWL-MW4	SNL0201349	31-MAY-94	1		0.1	F
NITRATE/NITRITE	MWL-BW1	SNL0200582	16-OCT-91	5.6		0.5	F
NITRATE/NITRITE	MWL-BW1	SNL0201112	10-NOV-93	5.9		1	F
NITRATE/NITRITE	MWL-BW1	SNL0201486	27-OCT-94	5.7		0.2	F
NITRATE/NITRITE	MWL-BW1	SNL0201471	27-OCT-94	5.6		0.2	F
NITRATE/NITRITE	MWL-BW1	SNL0201520	31-OCT-94	5.7		0.2	F
NITRATE/NITRITE	MWL-BW1-D	SNL0200600	16-OCT-91	5.6		0.5	F
NITRATE/NITRITE	MWL-BW1-D	SNL0201131	10-NOV-93	5.8		1	F
NITRATE/NITRITE	MWL-BW1-EB	SNL0200510	09-OCT-91	0.1	U	0.1	F
NITRATE/NITRITE	MWL-BW1-EB	SNL0201257	27-APR-94	0.1	U	0.1	F
NITRATE/NITRITE	MWL-BW1-EB	SNL0201455	26-OCT-94	0.1	U	0.1	F
NITRATE/NITRITE	MWL-BW1-FB	SNL0200618	16-OCT-91	0.1	U	0.1	F
NITRATE/NITRITE	MWL-MW1	SNL0200564	15-OCT-91	5.5		0.5	F
NITRATE/NITRITE	MWL-MW1	SNL0201074	09-NOV-93	5.4		1	F
NITRATE/NITRITE	MWL-MW1	SNL0201309	03-MAY-94	5		1	F
NITRATE/NITRITE	MWL-MW1	SNL0201425	25-OCT-94	5.2		0.2	F
NITRATE/NITRITE	MWL-MW1	SNL0201441	25-OCT-94	5.2		0.2	F
NITRATE/NITRITE	MWL-MW1-D	SNL0201291	04-MAY-94	5.2		1	F
NITRATE/NITRITE	MWL-MW1-EB	SNL0200474	08-OCT-91	0.1	U	0.1	F
NITRATE/NITRITE	MWL-MW1-EB	SNL0201210	26-APR-94	0.1	U	0.1	F
NITRATE/NITRITE	MWL-MW2	SNL0200528	14-OCT-91	5.1		0.5	F
NITRATE/NITRITE	MWL-MW2	SNL0201055	08-NOV-93	4.9		1	F
NITRATE/NITRITE	MWL-MW2	SNL0201273	02-MAY-94	4.7		1	F
NITRATE/NITRITE	MWL-MW2	SNL0201393	24-OCT-94	4.9		0.2	F
NITRATE/NITRITE	MWL-MW2-EB	SNL0200456	07-OCT-91	0.1	U	0.1	F
NITRATE/NITRITE	MWL-MW2-EB	SNL0201226	27-APR-94	0.1	U	0.1	F
NITRATE/NITRITE	MWL-MW2-EB	SNL0201377	19-OCT-94	0.1	U	0.1	F
NITRATE/NITRITE	MWL-MW3	SNL0200546	15-OCT-91	4.3		0.5	F
NITRATE/NITRITE	MWL-MW3	SNL0201093	09-NOV-93	4.2		0.5	F
NITRATE/NITRITE	MWL-MW3	SNL0201327	03-MAY-94	3.9		1	F
NITRATE/NITRITE	MWL-MW3	SNL0201409	25-OCT-94	4.3		0.2	F
NITRATE/NITRITE	MWL-MW3-EB	SNL0200492	09-OCT-91	0.1	U	0.1	F
NITRATE/NITRITE	MWL-MW3-EB	SNL0201242	27-APR-94	0.06	J	0.1	F
NITRATE/NITRITE	MWL-MW3-EB	SNL0201361	17-OCT-94	0.1	U	0.1	F
NITRATE/NITRITE	MWL-MW4-EB	SNL0201170	11-NOV-93	0.1	U	0.1	F
NITRATE/NITRITE	MWL-MW4C	SNL0201150	11-NOV-93	1.9		0.1	F
NITRATE/NITRITE	MWL-MW4L	SNL0201196	14-MAR-94	1.5		0.1	F
NITRATE/NITRITE	MWL-MW4	SNL0201344	31-MAY-94	1.2		0.1	F
NITRATE/NITRITE	MWL-MW4	SNL0201501	28-OCT-94	0.6		0.1	F
POTASSIUM	MWL-BW1	SNL0200788	29-JUL-92	5	U	5	F
POTASSIUM	MWL-BW1	SNL0200782	29-JUL-92	5	U	5	F
POTASSIUM	MWL-BW1	SNL0200863	20-JAN-93	3.8	J	5	F
POTASSIUM	MWL-BW1	SNL0200873	20-JAN-93	3.7	J	5	D
POTASSIUM	MWL-BW1	SNL0200992	28-APR-93	2.7	J	5	F
POTASSIUM	MWL-BW1	SNL0200998	28-APR-93	2.9	J	5	F
POTASSIUM	MWL-BW1	SNL0201120	10-NOV-93	3.6	J	5	F
POTASSIUM	MWL-BW1	SNL0201495	27-OCT-94	3.4	J	5	F
POTASSIUM	MWL-BW1	SNL0201480	27-OCT-94	3.5	J	5	F
POTASSIUM	MWL-BW1	026461-07	23-OCT-95	3.31	B	0.00643	SA
POTASSIUM	MWL-BW1-D	SNL0200800	29-JUL-92	5	U	5	F
POTASSIUM	MWL-BW1-D	SNL0200806	29-JUL-92	5	U	5	F
POTASSIUM	MWL-BW1-D	SNL0201139	10-NOV-93	3.6	J	5	F
POTASSIUM	MWL-BW1-EB	SNL0200712	23-JUL-92	5	U	5	F
POTASSIUM	MWL-BW1-EB	SNL0200706	23-JUL-92	5	U	5	F
POTASSIUM	MWL-BW1-EB	SNL0200934	21-APR-93	5	U	5	EB
POTASSIUM	MWL-BW1-EB	SNL0201266	27-APR-94	5	U	5	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
POTASSIUM	MWL-BW1-EB	SNL0201464	26-OCT-94	5	U	5	F
POTASSIUM	MWL-BW1-FB	SNL0200819	29-JUL-92	5	U	5	F
POTASSIUM	MWL-BW1-FB	SNL0200825	29-JUL-92	5	U	5	F
POTASSIUM	MWL-MW1	SNL0200750	28-JUL-92	5	U	5	F
POTASSIUM	MWL-MW1	SNL0200744	28-JUL-92	5	U	5	F
POTASSIUM	MWL-MW1	SNL0200843	19-JAN-93	3.6	J	5	F
POTASSIUM	MWL-MW1	SNL0200960	27-APR-93	2.5	J	5	F
POTASSIUM	MWL-MW1	SNL0200966	27-APR-93	2.7	J	5	F
POTASSIUM	MWL-MW1	SNL0201082	09-NOV-93	3.3	J	5	F
POTASSIUM	MWL-MW1	SNL0201320	03-MAY-94	3.5	J	5	F
POTASSIUM	MWL-MW1	SNL0201434	25-OCT-94	3.4	J	5	F
POTASSIUM	MWL-MW1	SNL0201450	25-OCT-94	3.3	J	5	F
POTASSIUM	MWL-MW1	022149-06	19-APR-95	3.2	J	0.266	F
POTASSIUM	MWL-MW1	026464-07	20-OCT-95	3.18	B	0.00643	SA
POTASSIUM	MWL-MW1-D	SNL0201302	04-MAY-94	3.6	J	5	F
POTASSIUM	MWL-MW1-EB	SNL0200675	22-JUL-92	5	U	5	F
POTASSIUM	MWL-MW1-EB	SNL0200669	22-JUL-92	5	U	5	F
POTASSIUM	MWL-MW1-EB	SNL0200896	20-APR-93	5	U	5	EB
POTASSIUM	MWL-MW1-EB	SNL0201219	26-APR-94	5	U	5	F
POTASSIUM	MWL-MW2	SNL0200731	27-JUL-92	5	U	5	F
POTASSIUM	MWL-MW2	SNL0200725	27-JUL-92	5	U	5	F
POTASSIUM	MWL-MW2	SNL0200833	18-JAN-93	4.7	J	5	F
POTASSIUM	MWL-MW2	SNL0200950	26-APR-93	3.6	J	5	F
POTASSIUM	MWL-MW2	SNL0200944	26-APR-93	3.6	J	5	F
POTASSIUM	MWL-MW2	SNL0201063	08-NOV-93	4.8	J	5	F
POTASSIUM	MWL-MW2	SNL0201284	02-MAY-94	4.9	J	5	F
POTASSIUM	MWL-MW2	SNL0201402	24-OCT-94	4.5	J	5	F
POTASSIUM	MWL-MW2	022145-06	17-APR-95	4.8	J	0.266	F
POTASSIUM	MWL-MW2-EB	SNL0200693	22-JUL-92	5	U	5	F
POTASSIUM	MWL-MW2-EB	SNL0200687	22-JUL-92	5	U	5	F
POTASSIUM	MWL-MW2-EB	SNL0200906	20-APR-93	5	U	5	EB
POTASSIUM	MWL-MW2-EB	SNL0201235	27-APR-94	5	U	5	F
POTASSIUM	MWL-MW2-EB	SNL0201386	19-OCT-94	5	U	5	F
POTASSIUM	MWL-MW3	SNL0200768	28-JUL-92	5	U	5	F
POTASSIUM	MWL-MW3	SNL0200762	28-JUL-92	5	U	5	F
POTASSIUM	MWL-MW3	SNL0200853	19-JAN-93	4.2	J	5	F
POTASSIUM	MWL-MW3	SNL0200976	27-APR-93	3.1	J	5	F
POTASSIUM	MWL-MW3	SNL0200982	27-APR-93	3	J	5	F
POTASSIUM	MWL-MW3	SNL0201101	09-NOV-93	3.6	J	5	F
POTASSIUM	MWL-MW3	SNL0201338	03-MAY-94	4.1	J	5	F
POTASSIUM	MWL-MW3	SNL0201418	25-OCT-94	3.9	J	5	F
POTASSIUM	MWL-MW3	022147-06	17-APR-95	3.9	J	0.266	F
POTASSIUM	MWL-MW3	026458-07	16-OCT-95	3.82		0.00643	SA
POTASSIUM	MWL-MW3-EB	SNL0200656	21-JUL-92	5	U	5	F
POTASSIUM	MWL-MW3-EB	SNL0200650	21-JUL-92	5	U	5	F
POTASSIUM	MWL-MW3-EB	SNL0200924	21-APR-93	5	U	5	EB
POTASSIUM	MWL-MW3-EB	SNL0201251	27-APR-94	5	U	5	F
POTASSIUM	MWL-MW3-EB	SNL0201370	17-OCT-94	5	U	5	F
POTASSIUM	MWL-MW4	022150-06	19-APR-95	6.1		0.266	F
POTASSIUM	MWL-MW4	022151-06	19-APR-95	6		0.266	F
POTASSIUM	MWL-MW4	026465-07	20-OCT-95	5.61	B	0.00643	SA
POTASSIUM	MWL-MW4	026466-07	20-OCT-95	5.77	B	0.00643	DU
POTASSIUM	MWL-MW4-D	SNL0201014	28-APR-93	2.8	J	5	D
POTASSIUM	MWL-MW4-D	SNL0201008	28-APR-93	2.9	J	5	D
POTASSIUM	MWL-MW4-EB	SNL0201040	03-MAY-93	5	U	5	EB
POTASSIUM	MWL-MW4-EB	SNL0201178	11-NOV-93	5	U	5	F
POTASSIUM	MWL-MW4C	SNL0201030	30-APR-93	4.4	J	5	F
POTASSIUM	MWL-MW4C	SNL0201024	30-APR-93	4.3	J	5	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
POTASSIUM	MWL-MW4C	SNL0201158	11-NOV-93	4.8	J	5	F
POTASSIUM	MWL-MW4L	SNL0201199	14-MAR-94	5.9		5	F
POTASSIUM	MWL-MW4	SNL0201354	31-MAY-94	5.1		5	F
POTASSIUM	MWL-MW4	SNL0201510	28-OCT-94	5.5		5	F
SELENIUM	MWL-BW1	SNL0200024	27-SEP-90	0.01	U	0.01	F
SELENIUM	MWL-BW1	SNL0200019	27-SEP-90	0.005	U	0.005	F
SELENIUM	MWL-BW1	SNL0200113	24-JAN-91	0.01	U	0.01	F
SELENIUM	MWL-BW1	SNL0200109	24-JAN-91	0.01	U	0.01	F
SELENIUM	MWL-BW1	SNL0200288	07-MAY-91	0.005	U	0.005	F
SELENIUM	MWL-BW1	SNL0200292	07-MAY-91	0.005	U	0.005	F
SELENIUM	MWL-BW1	SNL0200410	06-AUG-91	0.005	U	0.005	F
SELENIUM	MWL-BW1	SNL0200414	06-AUG-91	0.005	U	0.005	F
SELENIUM	MWL-BW1	SNL0200572	16-OCT-91	0.01	U	0.01	F
SELENIUM	MWL-BW1	SNL0200576	16-OCT-91	0.005	U	0.005	F
SELENIUM	MWL-BW1	SNL0200786	29-JUL-92	0.005	U	0.005	F
SELENIUM	MWL-BW1	SNL0200780	29-JUL-92	0.005	U	0.005	F
SELENIUM	MWL-BW1	SNL0200877	20-JAN-93	0.0043	J	0.005	D
SELENIUM	MWL-BW1	SNL0200867	20-JAN-93	0.004	J	0.005	F
SELENIUM	MWL-BW1	SNL0201002	28-APR-93	5	U	5	F
SELENIUM	MWL-BW1	SNL0200996	28-APR-93	5	U	5	F
SELENIUM	MWL-BW1	SNL0201118	10-NOV-93	0.0017	J	0.005	F
SELENIUM	MWL-BW1	SNL0201480	27-OCT-94	0.005	U	0.005	F
SELENIUM	MWL-BW1	SNL0201495	27-OCT-94	0.005	U	0.005	F
SELENIUM	MWL-BW1	026461-07	23-OCT-95	0.0047	J	0.00143	SA
SELENIUM	MWL-BW1-D	SNL0200042	27-SEP-90	0.005	U	0.005	F
SELENIUM	MWL-BW1-D	SNL0200037	27-SEP-90	0.005	U	0.005	F
SELENIUM	MWL-BW1-D	SNL0200151	24-JAN-91	0.01	U	0.01	F
SELENIUM	MWL-BW1-D	SNL0200147	24-JAN-91	0.01	U	0.01	F
SELENIUM	MWL-BW1-D	SNL0200324	07-MAY-91	0.005	U	0.005	F
SELENIUM	MWL-BW1-D	SNL0200328	07-MAY-91	0.005	U	0.005	F
SELENIUM	MWL-BW1-D	SNL0200431	06-AUG-91	0.005	U	0.005	F
SELENIUM	MWL-BW1-D	SNL0200427	06-AUG-91	0.005	U	0.005	F
SELENIUM	MWL-BW1-D	SNL0200590	16-OCT-91	0.01	U	0.01	F
SELENIUM	MWL-BW1-D	SNL0200594	16-OCT-91	0.005	U	0.005	F
SELENIUM	MWL-BW1-D	SNL0200804	29-JUL-92	0.005	U	0.005	F
SELENIUM	MWL-BW1-D	SNL0200798	29-JUL-92	0.005	U	0.005	F
SELENIUM	MWL-BW1-D	SNL0201137	10-NOV-93	0.0017	J	0.005	F
SELENIUM	MWL-BW1-EB	SNL0200504	09-OCT-91	0.01	U	0.01	F
SELENIUM	MWL-BW1-EB	SNL0200500	09-OCT-91	0.005	U	0.005	F
SELENIUM	MWL-BW1-EB	SNL0200704	23-JUL-92	0.005	U	0.005	F
SELENIUM	MWL-BW1-EB	SNL0200710	23-JUL-92	0.005	U	0.005	F
SELENIUM	MWL-BW1-EB	SNL0200938	21-APR-93	0.005	U	0.005	EB
SELENIUM	MWL-BW1-EB	SNL0201266	27-APR-94	0.005	U	0.005	F
SELENIUM	MWL-BW1-EB	SNL0201464	26-OCT-94	0.005	U	0.005	F
SELENIUM	MWL-BW1-FB	SNL0200608	16-OCT-91	0.005	U	0.005	F
SELENIUM	MWL-BW1-FB	SNL0200612	16-OCT-91	0.005	U	0.005	F
SELENIUM	MWL-BW1-FB	SNL0200823	29-JUL-92	0.005	U	0.005	F
SELENIUM	MWL-BW1-FB	SNL0200817	29-JUL-92	0.005	U	0.005	F
SELENIUM	MWL-FB	SNL0200204	28-JAN-91	0.005	U	0.005	F
SELENIUM	MWL-FB	SNL0200208	28-JAN-91	0.005	U	0.005	F
SELENIUM	MWL-FB	SNL0200264	02-MAY-91	0.005	U	0.005	F
SELENIUM	MWL-FB	SNL0200268	02-MAY-91	0.005	U	0.005	F
SELENIUM	MWL-FB	SNL0200380	01-AUG-91	0.005	U	0.005	F
SELENIUM	MWL-FB	SNL0200376	01-AUG-91	0.005	U	0.005	F
SELENIUM	MWL-MW1	SNL0200132	24-JAN-91	0.01	U	0.01	F
SELENIUM	MWL-MW1	SNL0200128	24-JAN-91	0.01	U	0.01	F
SELENIUM	MWL-MW1	SNL0200306	07-MAY-91	0.005	U	0.005	F
SELENIUM	MWL-MW1	SNL0200310	07-MAY-91	0.005	U	0.005	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
SELENIUM	MWL-MW1	SNL0200348	31-JUL-91	0.005	U	0.005	F
SELENIUM	MWL-MW1	SNL0200344	31-JUL-91	0.01	U	0.01	F
SELENIUM	MWL-MW1	SNL0200554	15-OCT-91	0.01	U	0.01	F
SELENIUM	MWL-MW1	SNL0200558	15-OCT-91	0.01	U	0.01	F
SELENIUM	MWL-MW1	SNL0200748	28-JUL-92	0.005	U	0.005	F
SELENIUM	MWL-MW1	SNL0200742	28-JUL-92	0.005	U	0.005	F
SELENIUM	MWL-MW1	SNL0200847	19-JAN-93	0.0045	J	0.005	F
SELENIUM	MWL-MW1	SNL0200970	27-APR-93	5	U	5	F
SELENIUM	MWL-MW1	SNL0200964	27-APR-93	5	U	5	F
SELENIUM	MWL-MW1	SNL0201080	09-NOV-93	0.0023	J	0.005	F
SELENIUM	MWL-MW1	SNL0201320	03-MAY-94	0.005	U	0.005	F
SELENIUM	MWL-MW1	SNL0201434	25-OCT-94	0.005	U	0.005	F
SELENIUM	MWL-MW1	SNL0201450	25-OCT-94	0.005	U	0.005	F
SELENIUM	MWL-MW1	022149-06	19-APR-95	0.005	U	0.005	F
SELENIUM	MWL-MW1	026464-07	20-OCT-95	0.00308	J	0.00143	SA
SELENIUM	MWL-MW1-D	SNL0201302	04-MAY-94	0.005	U	0.005	F
SELENIUM	MWL-MW1-EB	SNL0200464	08-OCT-91	0.01	U	0.01	F
SELENIUM	MWL-MW1-EB	SNL0200468	08-OCT-91	0.005	U	0.005	F
SELENIUM	MWL-MW1-EB	SNL0200673	22-JUL-92	0.005	U	0.005	F
SELENIUM	MWL-MW1-EB	SNL0200667	22-JUL-92	0.005	U	0.005	F
SELENIUM	MWL-MW1-EB	SNL0200900	20-APR-93	0.005	U	0.005	EB
SELENIUM	MWL-MW1-EB	SNL0201219	26-APR-94	0.005	U	0.005	F
SELENIUM	MWL-MW2	SNL0200094	28-SEP-90	0.01	U	0.01	F
SELENIUM	MWL-MW2	SNL0200089	28-SEP-90	0.01	U	0.01	F
SELENIUM	MWL-MW2	SNL0200166	28-JAN-91	0.01	U	0.01	F
SELENIUM	MWL-MW2	SNL0200170	28-JAN-91	0.01	U	0.01	F
SELENIUM	MWL-MW2	SNL0200232	02-MAY-91	0.005	U	0.005	F
SELENIUM	MWL-MW2	SNL0200228	02-MAY-91	0.005	U	0.005	F
SELENIUM	MWL-MW2	SNL0200363	01-AUG-91	0.005	U	0.005	F
SELENIUM	MWL-MW2	SNL0200359	01-AUG-91	0.01	U	0.01	F
SELENIUM	MWL-MW2	SNL0200518	14-OCT-91	0.01	U	0.01	F
SELENIUM	MWL-MW2	SNL0200522	14-OCT-91	0.0071		0.005	F
SELENIUM	MWL-MW2	SNL0200729	27-JUL-92	0.005	U	0.005	F
SELENIUM	MWL-MW2	SNL0200723	27-JUL-92	0.005	U	0.005	F
SELENIUM	MWL-MW2	SNL0200837	18-JAN-93	0.0038	J	0.005	F
SELENIUM	MWL-MW2	SNL0200948	26-APR-93	2.5	U	2.5	F
SELENIUM	MWL-MW2	SNL0200954	26-APR-93	5	U	5	F
SELENIUM	MWL-MW2	SNL0201061	08-NOV-93	0.004	J	0.005	F
SELENIUM	MWL-MW2	SNL0201284	02-MAY-94	0.005	U	0.005	F
SELENIUM	MWL-MW2	SNL0201402	24-OCT-94	0.005	U	0.005	F
SELENIUM	MWL-MW2	022145-06	17-APR-95	0.0061	U	0.005	F
SELENIUM	MWL-MW2-EB	SNL0200446	07-OCT-91	0.005	U	0.005	F
SELENIUM	MWL-MW2-EB	SNL0200450	07-OCT-91	0.005	U	0.005	F
SELENIUM	MWL-MW2-EB	SNL0200685	22-JUL-92	0.005	U	0.005	F
SELENIUM	MWL-MW2-EB	SNL0200691	22-JUL-92	0.005	U	0.005	F
SELENIUM	MWL-MW2-EB	SNL0200910	20-APR-93	0.005	U	0.005	EB
SELENIUM	MWL-MW2-EB	SNL0201235	27-APR-94	0.005	U	0.005	F
SELENIUM	MWL-MW2-EB	SNL0201386	19-OCT-94	0.005	U	0.005	F
SELENIUM	MWL-MW3	SNL0200069	28-SEP-90	0.01	U	0.01	F
SELENIUM	MWL-MW3	SNL0200064	28-SEP-90	0.01	U	0.01	F
SELENIUM	MWL-MW3	SNL0200189	28-JAN-91	0.01	U	0.01	F
SELENIUM	MWL-MW3	SNL0200185	28-JAN-91	0.01	U	0.01	F
SELENIUM	MWL-MW3	SNL0200246	02-MAY-91	0.005	U	0.005	F
SELENIUM	MWL-MW3	SNL0200250	02-MAY-91	0.005	U	0.005	F
SELENIUM	MWL-MW3	SNL0200393	05-AUG-91	0.005	U	0.005	F
SELENIUM	MWL-MW3	SNL0200397	05-AUG-91	0.005	U	0.005	F
SELENIUM	MWL-MW3	SNL0200540	15-OCT-91	0.0054		0.005	F
SELENIUM	MWL-MW3	SNL0200536	15-OCT-91	0.01	U	0.01	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
SELENIUM	MWL-MW3	SNL0200760	28-JUL-92	0.005	U	0.005	F
SELENIUM	MWL-MW3	SNL0200766	28-JUL-92	0.005	U	0.005	F
SELENIUM	MWL-MW3	SNL0200857	19-JAN-93	0.004	J	0.005	F
SELENIUM	MWL-MW3	SNL0200986	27-APR-93	5	U	5	F
SELENIUM	MWL-MW3	SNL0200980	27-APR-93	5	U	5	F
SELENIUM	MWL-MW3	SNL0201099	09-NOV-93	0.0023	J	0.005	F
SELENIUM	MWL-MW3	SNL0201338	03-MAY-94	0.005	U	0.005	F
SELENIUM	MWL-MW3	SNL0201418	25-OCT-94	0.005	U	0.005	F
SELENIUM	MWL-MW3	022147-06	17-APR-95	0.005	U	0.005	F
SELENIUM	MWL-MW3	026458-07	16-OCT-95	0.00144	J	0.00143	SA
SELENIUM	MWL-MW3-EB	SNL0200482	09-OCT-91	0.005	U	0.005	F
SELENIUM	MWL-MW3-EB	SNL0200486	09-OCT-91	0.005	U	0.005	F
SELENIUM	MWL-MW3-EB	SNL0200648	21-JUL-92	0.01	U	0.01	F
SELENIUM	MWL-MW3-EB	SNL0200654	21-JUL-92	0.01	U	0.01	F
SELENIUM	MWL-MW3-EB	SNL0200928	21-APR-93	0.005	U	0.005	EB
SELENIUM	MWL-MW3-EB	SNL0201251	27-APR-94	0.005	U	0.005	F
SELENIUM	MWL-MW3-EB	SNL0201370	17-OCT-94	0.005	U	0.005	F
SELENIUM	MWL-MW4	022151-06	19-APR-95	0.009	U	0.005	F
SELENIUM	MWL-MW4	022150-06	19-APR-95	0.0056	U	0.005	F
SELENIUM	MWL-MW4	026465-07	20-OCT-95	0.00191	J	0.00143	SA
SELENIUM	MWL-MW4	026466-07	20-OCT-95	0.00143	U	0.00143	DU
SELENIUM	MWL-MW4-D	SNL0201018	28-APR-93	5	U	5	D
SELENIUM	MWL-MW4-D	SNL0201012	28-APR-93	5	U	5	D
SELENIUM	MWL-MW4-EB	SNL0201044	03-MAY-93	0.005	U	0.005	EB
SELENIUM	MWL-MW4-EB	SNL0201176	11-NOV-93	0.005	U	0.005	F
SELENIUM	MWL-MW4C	SNL0201034	30-APR-93	2.5	U	2.5	F
SELENIUM	MWL-MW4C	SNL0201028	30-APR-93	5	U	5	F
SELENIUM	MWL-MW4C	SNL0201156	11-NOV-93	0.002	J	0.005	F
SELENIUM	MWL-MW4L	SNL0201203	14-MAR-94	0.0017	J	0.01	F
SELENIUM	MWL-MW4	SNL0201354	31-MAY-94	0.018	U	0.018	F
SELENIUM	MWL-MW4	SNL0201510	28-OCT-94	0.0062	U	0.0062	F
SILVER	MWL-BW1	SNL0200021	27-SEP-90	0.01	U	0.01	F
SILVER	MWL-BW1	SNL0200026	27-SEP-90	0.01	U	0.01	F
SILVER	MWL-BW1	SNL0200110	24-JAN-91	0.01	U	0.01	F
SILVER	MWL-BW1	SNL0200114	24-JAN-91	0.01	U	0.01	F
SILVER	MWL-BW1	SNL0200293	07-MAY-91	0.01	U	0.01	F
SILVER	MWL-BW1	SNL0200289	07-MAY-91	0.01	U	0.01	F
SILVER	MWL-BW1	SNL0200415	06-AUG-91	0.01	U	0.01	F
SILVER	MWL-BW1	SNL0200411	06-AUG-91	0.01	U	0.01	F
SILVER	MWL-BW1	SNL0200573	16-OCT-91	0.01	U	0.01	F
SILVER	MWL-BW1	SNL0200577	16-OCT-91	0.01	U	0.01	F
SILVER	MWL-BW1	SNL0200782	29-JUL-92	0.01	U	0.01	F
SILVER	MWL-BW1	SNL0200788	29-JUL-92	0.01	U	0.01	F
SILVER	MWL-BW1	SNL0200873	20-JAN-93	0.01	U	0.01	D
SILVER	MWL-BW1	SNL0200863	20-JAN-93	0.01	U	0.01	F
SILVER	MWL-BW1	SNL0200992	28-APR-93	0.01	U	0.01	F
SILVER	MWL-BW1	SNL0200998	28-APR-93	0.01	U	0.01	F
SILVER	MWL-BW1	SNL0201120	10-NOV-93	0.01	U	0.01	F
SILVER	MWL-BW1	SNL0201495	27-OCT-94	0.01	U	0.01	F
SILVER	MWL-BW1	SNL0201480	27-OCT-94	0.01	U	0.01	F
SILVER	MWL-BW1	026461-07	23-OCT-95	0.00249	U	0.00249	SA
SILVER	MWL-BW1-D	SNL0200044	27-SEP-90	0.01	U	0.01	F
SILVER	MWL-BW1-D	SNL0200039	27-SEP-90	0.01	U	0.01	F
SILVER	MWL-BW1-D	SNL0200148	24-JAN-91	0.01	U	0.01	F
SILVER	MWL-BW1-D	SNL0200152	24-JAN-91	0.01	U	0.01	F
SILVER	MWL-BW1-D	SNL0200329	07-MAY-91	0.01	U	0.01	F
SILVER	MWL-BW1-D	SNL0200325	07-MAY-91	0.01	U	0.01	F
SILVER	MWL-BW1-D	SNL0200432	06-AUG-91	0.01	U	0.01	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
SILVER	MWL-BW1-D	SNL0200428	06-AUG-91	0.01	U	0.01	F
SILVER	MWL-BW1-D	SNL0200591	16-OCT-91	0.01	U	0.01	F
SILVER	MWL-BW1-D	SNL0200595	16-OCT-91	0.01	U	0.01	F
SILVER	MWL-BW1-D	SNL0200806	29-JUL-92	0.01	U	0.01	F
SILVER	MWL-BW1-D	SNL0200800	29-JUL-92	0.01	U	0.01	F
SILVER	MWL-BW1-D	SNL0201139	10-NOV-93	0.01	U	0.01	F
SILVER	MWL-BW1-EB	SNL0200505	09-OCT-91	0.01	U	0.01	F
SILVER	MWL-BW1-EB	SNL0200501	09-OCT-91	0.01	U	0.01	F
SILVER	MWL-BW1-EB	SNL0200706	23-JUL-92	0.011		0.01	F
SILVER	MWL-BW1-EB	SNL0200712	23-JUL-92	0.01	U	0.01	F
SILVER	MWL-BW1-EB	SNL0200934	21-APR-93	0.01	U	0.01	EB
SILVER	MWL-BW1-EB	SNL0201266	27-APR-94	0.0031	J	0.01	F
SILVER	MWL-BW1-EB	SNL0201464	26-OCT-94	0.01	U	0.01	F
SILVER	MWL-BW1-FB	SNL0200613	16-OCT-91	0.01	U	0.01	F
SILVER	MWL-BW1-FB	SNL0200609	16-OCT-91	0.01	U	0.01	F
SILVER	MWL-BW1-FB	SNL0200819	29-JUL-92	0.01	U	0.01	F
SILVER	MWL-BW1-FB	SNL0200825	29-JUL-92	0.01	U	0.01	F
SILVER	MWL-FB	SNL0200205	28-JAN-91	0.01	U	0.01	F
SILVER	MWL-FB	SNL0200209	28-JAN-91	0.01	U	0.01	F
SILVER	MWL-FB	SNL0200265	02-MAY-91	0.01	U	0.01	F
SILVER	MWL-FB	SNL0200269	02-MAY-91	0.01	U	0.01	F
SILVER	MWL-FB	SNL0200381	01-AUG-91	0.01	U	0.01	F
SILVER	MWL-FB	SNL0200377	01-AUG-91	0.01	U	0.01	F
SILVER	MWL-MW1	SNL0200133	24-JAN-91	0.01	U	0.01	F
SILVER	MWL-MW1	SNL0200129	24-JAN-91	0.01	U	0.01	F
SILVER	MWL-MW1	SNL0200307	07-MAY-91	0.01	U	0.01	F
SILVER	MWL-MW1	SNL0200311	07-MAY-91	0.01	U	0.01	F
SILVER	MWL-MW1	SNL0200349	31-JUL-91	0.01	U	0.01	F
SILVER	MWL-MW1	SNL0200345	31-JUL-91	0.01	U	0.01	F
SILVER	MWL-MW1	SNL0200555	15-OCT-91	0.01	U	0.01	F
SILVER	MWL-MW1	SNL0200559	15-OCT-91	0.01	U	0.01	F
SILVER	MWL-MW1	SNL0200744	28-JUL-92	0.01	U	0.01	F
SILVER	MWL-MW1	SNL0200750	28-JUL-92	0.01	U	0.01	F
SILVER	MWL-MW1	SNL0200843	19-JAN-93	0.01	U	0.01	F
SILVER	MWL-MW1	SNL0200966	27-APR-93	0.01	U	0.01	F
SILVER	MWL-MW1	SNL0200960	27-APR-93	0.01	U	0.01	F
SILVER	MWL-MW1	SNL0201082	09-NOV-93	0.01	U	0.01	F
SILVER	MWL-MW1	SNL0201320	03-MAY-94	0.01	U	0.01	F
SILVER	MWL-MW1	SNL0201434	25-OCT-94	0.01	U	0.01	F
SILVER	MWL-MW1	SNL0201450	25-OCT-94	0.01	U	0.01	F
SILVER	MWL-MW1	022149-06	19-APR-95	0.01	U	0.003	F
SILVER	MWL-MW1	026464-07	20-OCT-95	0.00249	U	0.00249	SA
SILVER	MWL-MW1-D	SNL0201302	04-MAY-94	0.01	U	0.01	F
SILVER	MWL-MW1-EB	SNL0200465	08-OCT-91	0.01	U	0.01	F
SILVER	MWL-MW1-EB	SNL0200469	08-OCT-91	0.01	U	0.01	F
SILVER	MWL-MW1-EB	SNL0200675	22-JUL-92	0.01	U	0.01	F
SILVER	MWL-MW1-EB	SNL0200669	22-JUL-92	0.01	U	0.01	F
SILVER	MWL-MW1-EB	SNL0200896	20-APR-93	0.01	U	0.01	EB
SILVER	MWL-MW1-EB	SNL0201219	26-APR-94	0.01	U	0.01	F
SILVER	MWL-MW2	SNL0200091	28-SEP-90	0.01	U	0.01	F
SILVER	MWL-MW2	SNL0200096	28-SEP-90	0.01	U	0.01	F
SILVER	MWL-MW2	SNL0200167	28-JAN-91	0.01	U	0.01	F
SILVER	MWL-MW2	SNL0200171	28-JAN-91	0.01	U	0.01	F
SILVER	MWL-MW2	SNL0200233	02-MAY-91	0.01	U	0.01	F
SILVER	MWL-MW2	SNL0200229	02-MAY-91	0.01	U	0.01	F
SILVER	MWL-MW2	SNL0200364	01-AUG-91	0.01	U	0.01	F
SILVER	MWL-MW2	SNL0200360	01-AUG-91	0.01	U	0.01	F
SILVER	MWL-MW2	SNL0200523	14-OCT-91	0.01	U	0.01	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
SILVER	MWL-MW2	SNL0200519	14-OCT-91	0.01	U	0.01	F
SILVER	MWL-MW2	SNL0200731	27-JUL-92	0.01	U	0.01	F
SILVER	MWL-MW2	SNL0200725	27-JUL-92	0.01	U	0.01	F
SILVER	MWL-MW2	SNL0200833	18-JAN-93	0.01	U	0.01	F
SILVER	MWL-MW2	SNL0200950	26-APR-93	0.01	U	0.01	F
SILVER	MWL-MW2	SNL0200944	26-APR-93	0.01	U	0.01	F
SILVER	MWL-MW2	SNL0201063	08-NOV-93	0.01	U	0.01	F
SILVER	MWL-MW2	SNL0201284	02-MAY-94	0.01	U	0.01	F
SILVER	MWL-MW2	SNL0201402	24-OCT-94	0.01	U	0.01	F
SILVER	MWL-MW2	022145-06	17-APR-95	0.01	U	0.003	F
SILVER	MWL-MW2-EB	SNL0200451	07-OCT-91	0.01	U	0.01	F
SILVER	MWL-MW2-EB	SNL0200447	07-OCT-91	0.01	U	0.01	F
SILVER	MWL-MW2-EB	SNL0200693	22-JUL-92	0.01	U	0.01	F
SILVER	MWL-MW2-EB	SNL0200687	22-JUL-92	0.01	U	0.01	F
SILVER	MWL-MW2-EB	SNL0200906	20-APR-93	0.01	U	0.01	EB
SILVER	MWL-MW2-EB	SNL0201235	27-APR-94	0.0055	J	0.01	F
SILVER	MWL-MW2-EB	SNL0201386	19-OCT-94	0.01	U	0.01	F
SILVER	MWL-MW3	SNL0200071	28-SEP-90	0.01	U	0.01	F
SILVER	MWL-MW3	SNL0200066	28-SEP-90	0.01	U	0.01	F
SILVER	MWL-MW3	SNL0200190	28-JAN-91	0.01	U	0.01	F
SILVER	MWL-MW3	SNL0200186	28-JAN-91	0.01	U	0.01	F
SILVER	MWL-MW3	SNL0200251	02-MAY-91	0.01	U	0.01	F
SILVER	MWL-MW3	SNL0200247	02-MAY-91	0.01	U	0.01	F
SILVER	MWL-MW3	SNL0200398	05-AUG-91	0.01	U	0.01	F
SILVER	MWL-MW3	SNL0200394	05-AUG-91	0.01	U	0.01	F
SILVER	MWL-MW3	SNL0200541	15-OCT-91	0.01	U	0.01	F
SILVER	MWL-MW3	SNL0200537	15-OCT-91	0.01	U	0.01	F
SILVER	MWL-MW3	SNL0200768	28-JUL-92	0.01	U	0.01	F
SILVER	MWL-MW3	SNL0200762	28-JUL-92	0.01	U	0.01	F
SILVER	MWL-MW3	SNL0200853	19-JAN-93	0.01	U	0.01	F
SILVER	MWL-MW3	SNL0200982	27-APR-93	0.01	U	0.01	F
SILVER	MWL-MW3	SNL0200976	27-APR-93	0.01	U	0.01	F
SILVER	MWL-MW3	SNL0201101	09-NOV-93	0.01	U	0.01	F
SILVER	MWL-MW3	SNL0201338	03-MAY-94	0.01	U	0.01	F
SILVER	MWL-MW3	SNL0201418	25-OCT-94	0.01	U	0.01	F
SILVER	MWL-MW3	022147-06	17-APR-95	0.01	U	0.003	F
SILVER	MWL-MW3	026458-07	16-OCT-95	0.00249	U	0.00249	SA
SILVER	MWL-MW3-EB	SNL0200487	09-OCT-91	0.01	U	0.01	F
SILVER	MWL-MW3-EB	SNL0200483	09-OCT-91	0.01	U	0.01	F
SILVER	MWL-MW3-EB	SNL0200650	21-JUL-92	0.01	U	0.01	F
SILVER	MWL-MW3-EB	SNL0200656	21-JUL-92	0.01	U	0.01	F
SILVER	MWL-MW3-EB	SNL0200924	21-APR-93	0.01	U	0.01	EB
SILVER	MWL-MW3-EB	SNL0201251	27-APR-94	0.0057	J	0.01	F
SILVER	MWL-MW3-EB	SNL0201370	17-OCT-94	0.01	U	0.01	F
SILVER	MWL-MW4	022150-06	19-APR-95	0.01	U	0.003	F
SILVER	MWL-MW4	022151-06	19-APR-95	0.01	U	0.003	F
SILVER	MWL-MW4	026465-07	20-OCT-95	0.00249	U	0.00249	SA
SILVER	MWL-MW4	026466-07	20-OCT-95	0.00249	U	0.00249	DU
SILVER	MWL-MW4-D	SNL0201014	28-APR-93	0.01	U	0.01	D
SILVER	MWL-MW4-D	SNL0201008	28-APR-93	0.01	U	0.01	D
SILVER	MWL-MW4-EB	SNL0201040	03-MAY-93	0.01	U	0.01	EB
SILVER	MWL-MW4-EB	SNL0201178	11-NOV-93	0.01	U	0.01	F
SILVER	MWL-MW4C	SNL0201024	30-APR-93	0.01	U	0.01	F
SILVER	MWL-MW4C	SNL0201030	30-APR-93	0.01	U	0.01	F
SILVER	MWL-MW4C	SNL0201158	11-NOV-93	0.01	U	0.01	F
SILVER	MWL-MW4L	SNL0201199	14-MAR-94	0.01	U	0.01	F
SILVER	MWL-MW4	SNL0201354	31-MAY-94	0.01	U	0.01	F
SILVER	MWL-MW4	SNL0201510	28-OCT-94	0.01	U	0.01	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
SODIUM	MWL-BW1	SNL0200110	24-JAN-91	57.8		5	F
SODIUM	MWL-BW1	SNL0200114	24-JAN-91	54.7		5	F
SODIUM	MWL-BW1	SNL0200289	07-MAY-91	53.2		5	F
SODIUM	MWL-BW1	SNL0200293	07-MAY-91	52		5	F
SODIUM	MWL-BW1	SNL0200411	06-AUG-91	63.7		5	F
SODIUM	MWL-BW1	SNL0200415	06-AUG-91	49.8		5	F
SODIUM	MWL-BW1	SNL0200577	16-OCT-91	54.7		5	F
SODIUM	MWL-BW1	SNL0200573	16-OCT-91	57		5	F
SODIUM	MWL-BW1	SNL0200788	29-JUL-92	52.6		5	F
SODIUM	MWL-BW1	SNL0200782	29-JUL-92	49		5	F
SODIUM	MWL-BW1	SNL0200873	20-JAN-93	56.7		5	D
SODIUM	MWL-BW1	SNL0200863	20-JAN-93	56.5		5	F
SODIUM	MWL-BW1	SNL0200998	28-APR-93	48.6		5	F
SODIUM	MWL-BW1	SNL0200992	28-APR-93	46.9		5	F
SODIUM	MWL-BW1	SNL0201120	10-NOV-93	56		5	F
SODIUM	MWL-BW1	SNL0201495	27-OCT-94	55.4		5	F
SODIUM	MWL-BW1	SNL0201480	27-OCT-94	56.9		5	F
SODIUM	MWL-BW1	026461-07	23-OCT-95	56.6	B	0.0156	SA
SODIUM	MWL-BW1-D	SNL0200152	24-JAN-91	55.4		5	F
SODIUM	MWL-BW1-D	SNL0200148	24-JAN-91	55.7		5	F
SODIUM	MWL-BW1-D	SNL0200329	07-MAY-91	54.4		5	F
SODIUM	MWL-BW1-D	SNL0200325	07-MAY-91	44.4		5	F
SODIUM	MWL-BW1-D	SNL0200428	06-AUG-91	62.4		5	F
SODIUM	MWL-BW1-D	SNL0200432	06-AUG-91	48.5		5	F
SODIUM	MWL-BW1-D	SNL0200595	16-OCT-91	53.7		5	F
SODIUM	MWL-BW1-D	SNL0200591	16-OCT-91	56.4		5	F
SODIUM	MWL-BW1-D	SNL0200806	29-JUL-92	51.3		5	F
SODIUM	MWL-BW1-D	SNL0200800	29-JUL-92	51.3		5	F
SODIUM	MWL-BW1-D	SNL0201139	10-NOV-93	56.2		5	F
SODIUM	MWL-BW1-EB	SNL0200501	09-OCT-91	5	U	5	F
SODIUM	MWL-BW1-EB	SNL0200505	09-OCT-91	5	U	5	F
SODIUM	MWL-BW1-EB	SNL0200712	23-JUL-92	5	U	5	F
SODIUM	MWL-BW1-EB	SNL0200706	23-JUL-92	5	U	5	F
SODIUM	MWL-BW1-EB	SNL0200934	21-APR-93	5	U	5	EB
SODIUM	MWL-BW1-EB	SNL0201266	27-APR-94	5	U	5	F
SODIUM	MWL-BW1-EB	SNL0201464	26-OCT-94	1.3	J	5	F
SODIUM	MWL-BW1-FB	SNL0200609	16-OCT-91	5	U	5	F
SODIUM	MWL-BW1-FB	SNL0200613	16-OCT-91	5	U	5	F
SODIUM	MWL-BW1-FB	SNL0200825	29-JUL-92	5	U	5	F
SODIUM	MWL-BW1-FB	SNL0200819	29-JUL-92	5	U	5	F
SODIUM	MWL-FB	SNL0200209	28-JAN-91	5	U	5	F
SODIUM	MWL-FB	SNL0200205	28-JAN-91	5	U	5	F
SODIUM	MWL-FB	SNL0200269	02-MAY-91	5	U	5	F
SODIUM	MWL-FB	SNL0200265	02-MAY-91	5	U	5	F
SODIUM	MWL-FB	SNL0200377	01-AUG-91	5	U	5	F
SODIUM	MWL-FB	SNL0200381	01-AUG-91	5	U	5	F
SODIUM	MWL-MW1	SNL0200133	24-JAN-91	49.8		5	F
SODIUM	MWL-MW1	SNL0200129	24-JAN-91	50.2		5	F
SODIUM	MWL-MW1	SNL0200311	07-MAY-91	50.6		5	F
SODIUM	MWL-MW1	SNL0200307	07-MAY-91	50.3		5	F
SODIUM	MWL-MW1	SNL0200345	31-JUL-91	54.2		5	F
SODIUM	MWL-MW1	SNL0200349	31-JUL-91	51.7		5	F
SODIUM	MWL-MW1	SNL0200555	15-OCT-91	50.7		5	F
SODIUM	MWL-MW1	SNL0200559	15-OCT-91	53.3		5	F
SODIUM	MWL-MW1	SNL0200744	28-JUL-92	45.9		5	F
SODIUM	MWL-MW1	SNL0200750	28-JUL-92	45.1		5	F
SODIUM	MWL-MW1	SNL0200843	19-JAN-93	52.7		5	F
SODIUM	MWL-MW1	SNL0200960	27-APR-93	45.7		5	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
SODIUM	MWL-MW1	SNL0200966	27-APR-93	44.3		5	F
SODIUM	MWL-MW1	SNL0201082	09-NOV-93	50.9		5	F
SODIUM	MWL-MW1	SNL0201320	03-MAY-94	57.1		5	F
SODIUM	MWL-MW1	SNL0201450	25-OCT-94	53.6		5	F
SODIUM	MWL-MW1	SNL0201434	25-OCT-94	54.2		5	F
SODIUM	MWL-MW1	022149-06	19-APR-95	52.1		1.054	F
SODIUM	MWL-MW1	026464-07	20-OCT-95	52.2	B	0.0156	SA
SODIUM	MWL-MW1-D	SNL0201302	04-MAY-94	57.7		5	F
SODIUM	MWL-MW1-EB	SNL0200469	08-OCT-91	5	U	5	F
SODIUM	MWL-MW1-EB	SNL0200465	08-OCT-91	5	U	5	F
SODIUM	MWL-MW1-EB	SNL0200669	22-JUL-92	5	U	5	F
SODIUM	MWL-MW1-EB	SNL0200675	22-JUL-92	5	U	5	F
SODIUM	MWL-MW1-EB	SNL0200896	20-APR-93	5	U	5	EB
SODIUM	MWL-MW1-EB	SNL0201219	26-APR-94	5	U	5	F
SODIUM	MWL-MW2	SNL0200171	28-JAN-91	57.3		5	F
SODIUM	MWL-MW2	SNL0200167	28-JAN-91	56.5		5	F
SODIUM	MWL-MW2	SNL0200229	02-MAY-91	55.4		5	F
SODIUM	MWL-MW2	SNL0200233	02-MAY-91	62.1		5	F
SODIUM	MWL-MW2	SNL0200364	01-AUG-91	55.7		5	F
SODIUM	MWL-MW2	SNL0200360	01-AUG-91	57.2		5	F
SODIUM	MWL-MW2	SNL0200523	14-OCT-91	56.2		5	F
SODIUM	MWL-MW2	SNL0200519	14-OCT-91	55.1		5	F
SODIUM	MWL-MW2	SNL0200725	27-JUL-92	47.7		5	F
SODIUM	MWL-MW2	SNL0200731	27-JUL-92	48.3		5	F
SODIUM	MWL-MW2	SNL0200833	18-JAN-93	52.9		5	F
SODIUM	MWL-MW2	SNL0200944	26-APR-93	45.7		5	F
SODIUM	MWL-MW2	SNL0200950	26-APR-93	45.5		5	F
SODIUM	MWL-MW2	SNL0201063	08-NOV-93	55.4		5	F
SODIUM	MWL-MW2	SNL0201284	02-MAY-94	55.5		5	F
SODIUM	MWL-MW2	SNL0201402	24-OCT-94	53.9		5	F
SODIUM	MWL-MW2	022145-06	17-APR-95	46.8		1.054	F
SODIUM	MWL-MW2-EB	SNL0200451	07-OCT-91	5	U	5	F
SODIUM	MWL-MW2-EB	SNL0200447	07-OCT-91	5	U	5	F
SODIUM	MWL-MW2-EB	SNL0200693	22-JUL-92	5	U	5	F
SODIUM	MWL-MW2-EB	SNL0200687	22-JUL-92	5	U	5	F
SODIUM	MWL-MW2-EB	SNL0200906	20-APR-93	5	U	5	EB
SODIUM	MWL-MW2-EB	SNL0201235	27-APR-94	5	U	5	F
SODIUM	MWL-MW2-EB	SNL0201386	19-OCT-94	5	U	5	F
SODIUM	MWL-MW3	SNL0200186	28-JAN-91	55.4		5	F
SODIUM	MWL-MW3	SNL0200190	28-JAN-91	56.6		5	F
SODIUM	MWL-MW3	SNL0200251	02-MAY-91	59.7		5	F
SODIUM	MWL-MW3	SNL0200247	02-MAY-91	55.3		5	F
SODIUM	MWL-MW3	SNL0200398	05-AUG-91	49.6		5	F
SODIUM	MWL-MW3	SNL0200394	05-AUG-91	52.5		5	F
SODIUM	MWL-MW3	SNL0200541	15-OCT-91	58.9		5	F
SODIUM	MWL-MW3	SNL0200537	15-OCT-91	55.9		5	F
SODIUM	MWL-MW3	SNL0200768	28-JUL-92	48.3		5	F
SODIUM	MWL-MW3	SNL0200762	28-JUL-92	49.8		5	F
SODIUM	MWL-MW3	SNL0200853	19-JAN-93	54		5	F
SODIUM	MWL-MW3	SNL0200982	27-APR-93	46		5	F
SODIUM	MWL-MW3	SNL0200976	27-APR-93	45.7		5	F
SODIUM	MWL-MW3	SNL0201101	09-NOV-93	51.5		5	F
SODIUM	MWL-MW3	SNL0201338	03-MAY-94	58		5	F
SODIUM	MWL-MW3	SNL0201418	25-OCT-94	53.2		5	F
SODIUM	MWL-MW3	022147-06	17-APR-95	49.9		1.054	F
SODIUM	MWL-MW3	026458-07	16-OCT-95	49.2	B	0.0156	SA
SODIUM	MWL-MW3-EB	SNL0200483	09-OCT-91	5	U	5	F
SODIUM	MWL-MW3-EB	SNL0200487	09-OCT-91	5	U	5	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
SODIUM	MWL-MW3-EB	SNL0200650	21-JUL-92	5	U	5	F
SODIUM	MWL-MW3-EB	SNL0200656	21-JUL-92	5	U	5	F
SODIUM	MWL-MW3-EB	SNL0200924	21-APR-93	5	U	5	EB
SODIUM	MWL-MW3-EB	SNL0201251	27-APR-94	5	U	5	F
SODIUM	MWL-MW3-EB	SNL0201370	17-OCT-94	5	U	5	F
SODIUM	MWL-MW4	022151-06	19-APR-95	75.9		1.054	F
SODIUM	MWL-MW4	022150-06	19-APR-95	80.7		1.054	F
SODIUM	MWL-MW4	026465-07	20-OCT-95	76.6	B	0.0156	SA
SODIUM	MWL-MW4	026466-07	20-OCT-95	78.5	B	0.0156	DU
SODIUM	MWL-MW4-D	SNL0201014	28-APR-93	48.7		5	D
SODIUM	MWL-MW4-D	SNL0201008	28-APR-93	47.4		5	D
SODIUM	MWL-MW4-EB	SNL0201040	03-MAY-93	5	U	5	EB
SODIUM	MWL-MW4-EB	SNL0201178	11-NOV-93	5	U	5	F
SODIUM	MWL-MW4C	SNL0201024	30-APR-93	46.9		5	F
SODIUM	MWL-MW4C	SNL0201030	30-APR-93	49		5	F
SODIUM	MWL-MW4C	SNL0201158	11-NOV-93	46.2		5	F
SODIUM	MWL-MW4L	SNL0201199	14-MAR-94	63.9		5	F
SODIUM	MWL-MW4	SNL0201354	31-MAY-94	51.3		5	F
SODIUM	MWL-MW4	SNL0201510	28-OCT-94	67.1		5	F
THALLIUM	MWL-BW1	SNL0200025	27-SEP-90	0.005	U	0.005	F
THALLIUM	MWL-BW1	SNL0200020	27-SEP-90	0.01	U	0.01	F
THALLIUM	MWL-BW1	SNL0200787	29-JUL-92	0.01	U	0.01	F
THALLIUM	MWL-BW1	SNL0200781	29-JUL-92	0.01	U	0.01	F
THALLIUM	MWL-BW1	SNL0200868	20-JAN-93	0.01	U	0.01	F
THALLIUM	MWL-BW1	SNL0200878	20-JAN-93	0.05	U	0.05	D
THALLIUM	MWL-BW1	SNL0201003	28-APR-93	0.01	U	0.01	F
THALLIUM	MWL-BW1	SNL0200997	28-APR-93	0.01	U	0.01	F
THALLIUM	MWL-BW1	SNL0201119	10-NOV-93	0.01	U	0.01	F
THALLIUM	MWL-BW1	SNL0201480	27-OCT-94	0.0042	J	0.01	F
THALLIUM	MWL-BW1	SNL0201495	27-OCT-94	0.01	U	0.01	F
THALLIUM	MWL-BW1	026461-07	23-OCT-95	0.00263	J	0.00207	SA
THALLIUM	MWL-BW1-D	SNL0200038	27-SEP-90	0.005	U	0.005	F
THALLIUM	MWL-BW1-D	SNL0200043	27-SEP-90	0.005	U	0.005	F
THALLIUM	MWL-BW1-D	SNL0200805	29-JUL-92	0.005	U	0.005	F
THALLIUM	MWL-BW1-D	SNL0200799	29-JUL-92	0.005	U	0.005	F
THALLIUM	MWL-BW1-D	SNL0201138	10-NOV-93	0.01	U	0.01	F
THALLIUM	MWL-BW1-EB	SNL0200711	23-JUL-92	0.005	U	0.005	F
THALLIUM	MWL-BW1-EB	SNL0200705	23-JUL-92	0.005	U	0.005	F
THALLIUM	MWL-BW1-EB	SNL0200939	21-APR-93	0.005	U	0.005	EB
THALLIUM	MWL-BW1-EB	SNL0201266	27-APR-94	0.01	U	0.01	F
THALLIUM	MWL-BW1-EB	SNL0201464	26-OCT-94	0.01	U	0.01	F
THALLIUM	MWL-BW1-FB	SNL0200824	29-JUL-92	0.005	U	0.005	F
THALLIUM	MWL-BW1-FB	SNL0200818	29-JUL-92	0.005	U	0.005	F
THALLIUM	MWL-MW1	SNL0200749	28-JUL-92	0.01	U	0.01	F
THALLIUM	MWL-MW1	SNL0200743	28-JUL-92	0.005	U	0.005	F
THALLIUM	MWL-MW1	SNL0200848	19-JAN-93	0.05	U	0.05	F
THALLIUM	MWL-MW1	SNL0200971	27-APR-93	0.01	U	0.01	F
THALLIUM	MWL-MW1	SNL0200965	27-APR-93	0.01	U	0.01	F
THALLIUM	MWL-MW1	SNL0201081	09-NOV-93	0.01	U	0.01	F
THALLIUM	MWL-MW1	SNL0201320	03-MAY-94	0.01	U	0.01	F
THALLIUM	MWL-MW1	SNL0201450	25-OCT-94	0.0082	J	0.01	F
THALLIUM	MWL-MW1	SNL0201434	25-OCT-94	0.01	U	0.01	F
THALLIUM	MWL-MW1	022149-06	19-APR-95	0.01	U	0.01	F
THALLIUM	MWL-MW1	026464-07	20-OCT-95	0.00207	U	0.00207	SA
THALLIUM	MWL-MW1-D	SNL0201302	04-MAY-94	0.01	U	0.01	F
THALLIUM	MWL-MW1-EB	SNL0200668	22-JUL-92	0.005	U	0.005	F
THALLIUM	MWL-MW1-EB	SNL0200674	22-JUL-92	0.005	U	0.005	F
THALLIUM	MWL-MW1-EB	SNL0200901	20-APR-93	0.005	U	0.005	EB

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
THALLIUM	MWL-MW1-EB	SNL0201219	26-APR-94	0.01	U	0.01	F
THALLIUM	MWL-MW2	SNL0200095	28-SEP-90	0.01	U	0.01	F
THALLIUM	MWL-MW2	SNL0200090	28-SEP-90	0.01	U	0.01	F
THALLIUM	MWL-MW2	SNL0200730	27-JUL-92	0.005	U	0.005	F
THALLIUM	MWL-MW2	SNL0200724	27-JUL-92	0.005	U	0.005	F
THALLIUM	MWL-MW2	SNL0200838	18-JAN-93	0.025	U	0.025	F
THALLIUM	MWL-MW2	SNL0200949	26-APR-93	0.01	U	0.01	F
THALLIUM	MWL-MW2	SNL0200955	26-APR-93	0.01	U	0.01	F
THALLIUM	MWL-MW2	SNL0201062	08-NOV-93	0.01	U	0.01	F
THALLIUM	MWL-MW2	SNL0201284	02-MAY-94	0.0053	J	0.01	F
THALLIUM	MWL-MW2	SNL0201402	24-OCT-94	0.0062	J	0.01	F
THALLIUM	MWL-MW2	022145-06	17-APR-95	0.0088	J	0.01	F
THALLIUM	MWL-MW2-EB	SNL0200686	22-JUL-92	0.005	U	0.005	F
THALLIUM	MWL-MW2-EB	SNL0200692	22-JUL-92	0.005	U	0.005	F
THALLIUM	MWL-MW2-EB	SNL0200911	20-APR-93	0.005	U	0.005	EB
THALLIUM	MWL-MW2-EB	SNL0201235	27-APR-94	0.01	U	0.01	F
THALLIUM	MWL-MW2-EB	SNL0201386	19-OCT-94	0.01	U	0.01	F
THALLIUM	MWL-MW3	SNL0200065	28-SEP-90	0.01	U	0.01	F
THALLIUM	MWL-MW3	SNL0200070	28-SEP-90	0.01	U	0.01	F
THALLIUM	MWL-MW3	SNL0200767	28-JUL-92	0.01	U	0.01	F
THALLIUM	MWL-MW3	SNL0200761	28-JUL-92	0.005	U	0.005	F
THALLIUM	MWL-MW3	SNL0200858	19-JAN-93	0.01	U	0.01	F
THALLIUM	MWL-MW3	SNL0200987	27-APR-93	0.01	U	0.01	F
THALLIUM	MWL-MW3	SNL0200981	27-APR-93	0.01	U	0.01	F
THALLIUM	MWL-MW3	SNL0201100	09-NOV-93	0.01	U	0.01	F
THALLIUM	MWL-MW3	SNL0201338	03-MAY-94	0.01	U	0.01	F
THALLIUM	MWL-MW3	SNL0201418	25-OCT-94	0.01	U	0.01	F
THALLIUM	MWL-MW3	022147-06	17-APR-95	0.0074	J	0.01	F
THALLIUM	MWL-MW3	026458-07	16-OCT-95	0.00207	U	0.00207	SA
THALLIUM	MWL-MW3-EB	SNL0200655	21-JUL-92	0.005	U	0.005	F
THALLIUM	MWL-MW3-EB	SNL0200649	21-JUL-92	0.005	U	0.005	F
THALLIUM	MWL-MW3-EB	SNL0200929	21-APR-93	0.005	U	0.005	EB
THALLIUM	MWL-MW3-EB	SNL0201251	27-APR-94	0.01	U	0.01	F
THALLIUM	MWL-MW3-EB	SNL0201370	17-OCT-94	0.01	U	0.01	F
THALLIUM	MWL-MW4	022151-06	19-APR-95	0.01	U	0.01	F
THALLIUM	MWL-MW4	022150-06	19-APR-95	0.01	U	0.01	F
THALLIUM	MWL-MW4	026466-07	20-OCT-95	0.00207	U	0.00207	DU
THALLIUM	MWL-MW4	026465-07	20-OCT-95	0.00207	U	0.00207	SA
THALLIUM	MWL-MW4-D	SNL0201019	28-APR-93	0.01	U	0.01	D
THALLIUM	MWL-MW4-D	SNL0201013	28-APR-93	0.01	U	0.01	D
THALLIUM	MWL-MW4-EB	SNL0201045	03-MAY-93	0.005	U	0.005	EB
THALLIUM	MWL-MW4-EB	SNL0201177	11-NOV-93	0.005	U	0.005	F
THALLIUM	MWL-MW4C	SNL0201029	30-APR-93	0.01	U	0.01	F
THALLIUM	MWL-MW4C	SNL0201035	30-APR-93	0.01	U	0.01	F
THALLIUM	MWL-MW4C	SNL0201157	11-NOV-93	0.01	U	0.01	F
THALLIUM	MWL-MW4L	SNL0201204	14-MAR-94	0.01	U	0.01	F
THALLIUM	MWL-MW4	SNL0201354	31-MAY-94	0.01	U	0.01	F
THALLIUM	MWL-MW4	SNL0201510	28-OCT-94	0.01	U	0.01	F
URANIUM	MWL-BW1	SNL0201955	27-OCT-94	0.00509		0.001	F
URANIUM	MWL-BW1	SNL0201965	27-OCT-94	0.001	U	0.001	F
URANIUM	MWL-BW1-EB	SNL0201947	26-OCT-94	0.001	U	0.001	F
URANIUM	MWL-MW1	SNL0201914	24-OCT-94	0.00134		0.001	F
URANIUM	MWL-MW1	SNL0201939	25-OCT-94	0.00548		0.001	F
URANIUM	MWL-MW2	SNL0201904	24-OCT-94	0.00784		0.001	F
URANIUM	MWL-MW2	022145-07	17-APR-95	0.00664		0.00014	SA
URANIUM	MWL-MW2	022145-07	17-APR-95	0.00664		0.00014	SA
URANIUM	MWL-MW2-EB	SNL0201923	19-OCT-94	0.00053		0.001	F
URANIUM	MWL-MW3	SNL0201930	25-OCT-94	0.00482		0.001	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
URANIUM	MWL-MW3	022147-07	17-APR-95	0.00549		0.00014	SA
URANIUM	MWL-MW3	022147-07	17-APR-95	0.00549		0.00014	SA
URANIUM	MWL-MW3-EB	SNL0201897	17-OCT-94	0.0005		0.001	F
URANIUM	MWL-MW4	022151-07	19-APR-95	0.0065		0.00014	DU
URANIUM	MWL-MW4	022150-07	19-APR-95	0.00617		0.00014	SA
URANIUM	MWL-MW4	SNL0201974	28-OCT-94	2.69		0.001	F
VANADIUM	MWL-BW1	SNL0200021	27-SEP-90	0.01	U	0.01	F
VANADIUM	MWL-BW1	SNL0200026	27-SEP-90	0.01	U	0.01	F
VANADIUM	MWL-BW1	SNL0200782	29-JUL-92	0.01	U	0.01	F
VANADIUM	MWL-BW1	SNL0200788	29-JUL-92	0.01	U	0.01	F
VANADIUM	MWL-BW1	SNL0200873	20-JAN-93	0.0073	J	0.01	D
VANADIUM	MWL-BW1	SNL0200863	20-JAN-93	0.0087	J	0.01	F
VANADIUM	MWL-BW1	SNL0200998	28-APR-93	0.0044	J	0.01	F
VANADIUM	MWL-BW1	SNL0200992	28-APR-93	0.0062	J	0.01	F
VANADIUM	MWL-BW1	SNL0201120	10-NOV-93	0.0071	J	0.01	F
VANADIUM	MWL-BW1	SNL0201495	27-OCT-94	0.0052	J	0.01	F
VANADIUM	MWL-BW1	SNL0201480	27-OCT-94	0.0048	J	0.01	F
VANADIUM	MWL-BW1	026461-07	23-OCT-95	0.00638	J	0.00023	SA
VANADIUM	MWL-BW1-D	SNL0200044	27-SEP-90	0.01	U	0.01	F
VANADIUM	MWL-BW1-D	SNL0200039	27-SEP-90	0.01	U	0.01	F
VANADIUM	MWL-BW1-D	SNL0200800	29-JUL-92	0.01	U	0.01	F
VANADIUM	MWL-BW1-D	SNL0200806	29-JUL-92	0.01	U	0.01	F
VANADIUM	MWL-BW1-D	SNL0201139	10-NOV-93	0.0071	J	0.01	F
VANADIUM	MWL-BW1-EB	SNL0200706	23-JUL-92	0.01	U	0.01	F
VANADIUM	MWL-BW1-EB	SNL0200712	23-JUL-92	0.01	U	0.01	F
VANADIUM	MWL-BW1-EB	SNL0200934	21-APR-93	0.01	U	0.01	EB
VANADIUM	MWL-BW1-EB	SNL0201266	27-APR-94	0.01	U	0.01	F
VANADIUM	MWL-BW1-EB	SNL0201464	26-OCT-94	0.01	U	0.01	F
VANADIUM	MWL-BW1-FB	SNL0200819	29-JUL-92	0.01	U	0.01	F
VANADIUM	MWL-BW1-FB	SNL0200825	29-JUL-92	0.01	U	0.01	F
VANADIUM	MWL-MW1	SNL0200750	28-JUL-92	0.01	U	0.01	F
VANADIUM	MWL-MW1	SNL0200744	28-JUL-92	0.01	U	0.01	F
VANADIUM	MWL-MW1	SNL0200843	19-JAN-93	0.0076	J	0.01	F
VANADIUM	MWL-MW1	SNL0200966	27-APR-93	0.01	U	0.01	F
VANADIUM	MWL-MW1	SNL0200960	27-APR-93	0.01	U	0.01	F
VANADIUM	MWL-MW1	SNL0201082	09-NOV-93	0.0063	J	0.01	F
VANADIUM	MWL-MW1	SNL0201320	03-MAY-94	0.0053	J	0.01	F
VANADIUM	MWL-MW1	SNL0201450	25-OCT-94	0.0054	J	0.01	F
VANADIUM	MWL-MW1	SNL0201434	25-OCT-94	0.0045	J	0.01	F
VANADIUM	MWL-MW1	022149-06	19-APR-95	0.01	U	0.004	F
VANADIUM	MWL-MW1	026464-07	20-OCT-95	0.0061	J	0.00023	SA
VANADIUM	MWL-MW1-D	SNL0201302	04-MAY-94	0.0066	J	0.01	F
VANADIUM	MWL-MW1-EB	SNL0200675	22-JUL-92	0.01	U	0.01	F
VANADIUM	MWL-MW1-EB	SNL0200669	22-JUL-92	0.01	U	0.01	F
VANADIUM	MWL-MW1-EB	SNL0200896	20-APR-93	0.01	U	0.01	EB
VANADIUM	MWL-MW1-EB	SNL0201219	26-APR-94	0.01	U	0.01	F
VANADIUM	MWL-MW2	SNL0200091	28-SEP-90	0.01	U	0.01	F
VANADIUM	MWL-MW2	SNL0200096	28-SEP-90	0.01	U	0.01	F
VANADIUM	MWL-MW2	SNL0200725	27-JUL-92	0.01	U	0.01	F
VANADIUM	MWL-MW2	SNL0200731	27-JUL-92	0.01	U	0.01	F
VANADIUM	MWL-MW2	SNL0200833	18-JAN-93	0.0076	J	0.01	F
VANADIUM	MWL-MW2	SNL0200944	26-APR-93	0.01	U	0.01	F
VANADIUM	MWL-MW2	SNL0200950	26-APR-93	0.0059	J	0.01	F
VANADIUM	MWL-MW2	SNL0201063	08-NOV-93	0.01	U	0.01	F
VANADIUM	MWL-MW2	SNL0201284	02-MAY-94	0.0078	J	0.01	F
VANADIUM	MWL-MW2	SNL0201402	24-OCT-94	0.0088	J	0.01	F
VANADIUM	MWL-MW2	022145-06	17-APR-95	0.01	U	0.004	F
VANADIUM	MWL-MW2-EB	SNL0200693	22-JUL-92	0.01	U	0.01	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
VANADIUM	MWL-MW2-EB	SNL0200687	22-JUL-92	0.01	U	0.01	F
VANADIUM	MWL-MW2-EB	SNL0200906	20-APR-93	0.01	U	0.01	EB
VANADIUM	MWL-MW2-EB	SNL0201235	27-APR-94	0.01	U	0.01	F
VANADIUM	MWL-MW2-EB	SNL0201386	19-OCT-94	0.01	U	0.01	F
VANADIUM	MWL-MW3	SNL0200066	28-SEP-90	0.01	U	0.01	F
VANADIUM	MWL-MW3	SNL0200071	28-SEP-90	0.01	U	0.01	F
VANADIUM	MWL-MW3	SNL0200762	28-JUL-92	0.01	U	0.01	F
VANADIUM	MWL-MW3	SNL0200768	28-JUL-92	0.01	U	0.01	F
VANADIUM	MWL-MW3	SNL0200853	19-JAN-93	0.0076	J	0.01	F
VANADIUM	MWL-MW3	SNL0200982	27-APR-93	0.011		0.01	F
VANADIUM	MWL-MW3	SNL0200976	27-APR-93	0.006	J	0.01	F
VANADIUM	MWL-MW3	SNL0201101	09-NOV-93	0.0074	J	0.01	F
VANADIUM	MWL-MW3	SNL0201338	03-MAY-94	0.0091	J	0.01	F
VANADIUM	MWL-MW3	SNL0201418	25-OCT-94	0.0058	J	0.01	F
VANADIUM	MWL-MW3	022147-06	17-APR-95	0.0048	J	0.004	F
VANADIUM	MWL-MW3	026458-07	16-OCT-95	0.00686	J	0.00023	SA
VANADIUM	MWL-MW3-EB	SNL0200650	21-JUL-92	0.01	U	0.01	F
VANADIUM	MWL-MW3-EB	SNL0200656	21-JUL-92	0.01	U	0.01	F
VANADIUM	MWL-MW3-EB	SNL0200924	21-APR-93	0.01	U	0.01	EB
VANADIUM	MWL-MW3-EB	SNL0201251	27-APR-94	0.01	U	0.01	F
VANADIUM	MWL-MW3-EB	SNL0201370	17-OCT-94	0.01	U	0.01	F
VANADIUM	MWL-MW4	022151-06	19-APR-95	0.0066	J	0.004	F
VANADIUM	MWL-MW4	022150-06	19-APR-95	0.008	J	0.004	F
VANADIUM	MWL-MW4	026466-07	20-OCT-95	0.00933	J	0.00023	DU
VANADIUM	MWL-MW4	026465-07	20-OCT-95	0.00894	J	0.00023	SA
VANADIUM	MWL-MW4-D	SNL0201014	28-APR-93	0.01	U	0.01	D
VANADIUM	MWL-MW4-D	SNL0201008	28-APR-93	0.0047	J	0.01	D
VANADIUM	MWL-MW4-EB	SNL0201040	03-MAY-93	0.01	U	0.01	EB
VANADIUM	MWL-MW4-EB	SNL0201178	11-NOV-93	0.01	U	0.01	F
VANADIUM	MWL-MW4C	SNL0201024	30-APR-93	0.0062	J	0.01	F
VANADIUM	MWL-MW4C	SNL0201030	30-APR-93	0.0072	J	0.01	F
VANADIUM	MWL-MW4C	SNL0201158	11-NOV-93	0.0069	J	0.01	F
VANADIUM	MWL-MW4L	SNL0201199	14-MAR-94	0.0053	J	0.01	F
VANADIUM	MWL-MW4	SNL0201354	31-MAY-94	0.011		0.01	F
VANADIUM	MWL-MW4	SNL0201510	28-OCT-94	0.009	J	0.01	F
ZINC	MWL-BW1	SNL0200021	27-SEP-90	0.096		0.02	F
ZINC	MWL-BW1	SNL0200026	27-SEP-90	0.074		0.02	F
ZINC	MWL-BW1	SNL0200782	29-JUL-92	0.055		0.02	F
ZINC	MWL-BW1	SNL0200788	29-JUL-92	0.02	U	0.02	F
ZINC	MWL-BW1	SNL0200863	20-JAN-93	0.11		0.02	F
ZINC	MWL-BW1	SNL0200873	20-JAN-93	0.12		0.02	D
ZINC	MWL-BW1	SNL0200992	28-APR-93	0.033		0.02	F
ZINC	MWL-BW1	SNL0200998	28-APR-93	0.045		0.02	F
ZINC	MWL-BW1	SNL0201120	10-NOV-93	0.048		0.02	F
ZINC	MWL-BW1	SNL0201480	27-OCT-94	0.037		0.02	F
ZINC	MWL-BW1	SNL0201495	27-OCT-94	0.03		0.02	F
ZINC	MWL-BW1	026461-07	23-OCT-95	0.0636	B	0.0027	SA
ZINC	MWL-BW1-D	SNL0200044	27-SEP-90	0.086		0.02	F
ZINC	MWL-BW1-D	SNL0200039	27-SEP-90	0.097		0.02	F
ZINC	MWL-BW1-D	SNL0200800	29-JUL-92	0.041		0.02	F
ZINC	MWL-BW1-D	SNL0200806	29-JUL-92	0.02	U	0.02	F
ZINC	MWL-BW1-D	SNL0201139	10-NOV-93	0.04		0.02	F
ZINC	MWL-BW1-EB	SNL0200712	23-JUL-92	0.02	U	0.02	F
ZINC	MWL-BW1-EB	SNL0200706	23-JUL-92	0.02	U	0.02	F
ZINC	MWL-BW1-EB	SNL0200934	21-APR-93	0.02	U	0.02	EB
ZINC	MWL-BW1-EB	SNL0201266	27-APR-94	0.006	J	0.02	F
ZINC	MWL-BW1-EB	SNL0201464	26-OCT-94	0.024		0.02	F
ZINC	MWL-BW1-FB	SNL0200819	29-JUL-92	0.02	U	0.02	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
ZINC	MWL-BW1-FB	SNL0200825	29-JUL-92	0.02	U	0.02	F
ZINC	MWL-MW1	SNL0200744	28-JUL-92	0.021		0.02	F
ZINC	MWL-MW1	SNL0200750	28-JUL-92	0.02	U	0.02	F
ZINC	MWL-MW1	SNL0200843	19-JAN-93	0.02	U	0.02	F
ZINC	MWL-MW1	SNL0200960	27-APR-93	0.011	J	0.02	F
ZINC	MWL-MW1	SNL0200966	27-APR-93	0.0089	J	0.02	F
ZINC	MWL-MW1	SNL0201082	09-NOV-93	0.016	J	0.02	F
ZINC	MWL-MW1	SNL0201320	03-MAY-94	0.017	J	0.02	F
ZINC	MWL-MW1	SNL0201450	25-OCT-94	0.024		0.02	F
ZINC	MWL-MW1	SNL0201434	25-OCT-94	0.028		0.02	F
ZINC	MWL-MW1	022149-06	19-APR-95	0.0044	J	0.016	F
ZINC	MWL-MW1	026464-07	20-OCT-95	0.00673	JB	0.0027	SA
ZINC	MWL-MW1-D	SNL0201302	04-MAY-94	0.016	J	0.02	F
ZINC	MWL-MW1-EB	SNL0200669	22-JUL-92	0.02	U	0.02	F
ZINC	MWL-MW1-EB	SNL0200675	22-JUL-92	0.02	U	0.02	F
ZINC	MWL-MW1-EB	SNL0200896	20-APR-93	0.02	U	0.02	EB
ZINC	MWL-MW1-EB	SNL0201219	26-APR-94	0.0074	J	0.02	F
ZINC	MWL-MW2	SNL0200096	28-SEP-90	0.094		0.01	F
ZINC	MWL-MW2	SNL0200091	28-SEP-90	0.18		0.02	F
ZINC	MWL-MW2	SNL0200725	27-JUL-92	0.094		0.02	F
ZINC	MWL-MW2	SNL0200731	27-JUL-92	0.02	U	0.02	F
ZINC	MWL-MW2	SNL0200833	18-JAN-93	0.075		0.02	F
ZINC	MWL-MW2	SNL0200944	26-APR-93	0.069		0.02	F
ZINC	MWL-MW2	SNL0200950	26-APR-93	0.02	U	0.02	F
ZINC	MWL-MW2	SNL0201063	08-NOV-93	0.054		0.02	F
ZINC	MWL-MW2	SNL0201284	02-MAY-94	0.098		0.02	F
ZINC	MWL-MW2	SNL0201402	24-OCT-94	0.068		0.02	F
ZINC	MWL-MW2	022145-06	17-APR-95	0.014	J	0.016	F
ZINC	MWL-MW2-EB	SNL0200693	22-JUL-92	0.02	U	0.02	F
ZINC	MWL-MW2-EB	SNL0200687	22-JUL-92	0.02	U	0.02	F
ZINC	MWL-MW2-EB	SNL0200906	20-APR-93	0.007	J	0.02	EB
ZINC	MWL-MW2-EB	SNL0201235	27-APR-94	0.0051	J	0.02	F
ZINC	MWL-MW2-EB	SNL0201386	19-OCT-94	0.017	J	0.02	F
ZINC	MWL-MW3	SNL0200066	28-SEP-90	0.029		0.02	F
ZINC	MWL-MW3	SNL0200071	28-SEP-90	0.02	U	0.02	F
ZINC	MWL-MW3	SNL0200762	28-JUL-92	0.06		0.02	F
ZINC	MWL-MW3	SNL0200768	28-JUL-92	0.02	U	0.02	F
ZINC	MWL-MW3	SNL0200853	19-JAN-93	0.074		0.02	F
ZINC	MWL-MW3	SNL0200976	27-APR-93	0.03		0.02	F
ZINC	MWL-MW3	SNL0200982	27-APR-93	0.014	J	0.02	F
ZINC	MWL-MW3	SNL0201101	09-NOV-93	0.03		0.02	F
ZINC	MWL-MW3	SNL0201338	03-MAY-94	0.019	J	0.02	F
ZINC	MWL-MW3	SNL0201418	25-OCT-94	0.043		0.02	F
ZINC	MWL-MW3	022147-06	17-APR-95	0.0068	J	0.016	F
ZINC	MWL-MW3	026458-07	16-OCT-95	0.018	J	0.0027	SA
ZINC	MWL-MW3-EB	SNL0200656	21-JUL-92	0.02	U	0.02	F
ZINC	MWL-MW3-EB	SNL0200650	21-JUL-92	0.02	U	0.02	F
ZINC	MWL-MW3-EB	SNL0200924	21-APR-93	0.0064	J	0.02	EB
ZINC	MWL-MW3-EB	SNL0201251	27-APR-94	0.0097	J	0.02	F
ZINC	MWL-MW3-EB	SNL0201370	17-OCT-94	0.0042	J	0.02	F
ZINC	MWL-MW4	022150-06	19-APR-95	0.07		0.016	F
ZINC	MWL-MW4	022151-06	19-APR-95	0.069		0.016	F
ZINC	MWL-MW4	026465-07	20-OCT-95	0.0597	B	0.0027	SA
ZINC	MWL-MW4	026466-07	20-OCT-95	0.0618	B	0.0027	DU
ZINC	MWL-MW4-D	SNL0201008	28-APR-93	0.086		0.02	D
ZINC	MWL-MW4-D	SNL0201014	28-APR-93	0.031		0.02	D
ZINC	MWL-MW4-EB	SNL0201040	03-MAY-93	0.019	J	0.02	EB
ZINC	MWL-MW4-EB	SNL0201178	11-NOV-93	0.0082	J	0.02	F

Appendix J
MWL Groundwater TAL Metals and Nitrate Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
ZINC	MWL-MW4C	SNL0201030	30-APR-93	0.02	U	0.02	F
ZINC	MWL-MW4C	SNL0201024	30-APR-93	0.012	J	0.02	F
ZINC	MWL-MW4C	SNL0201158	11-NOV-93	0.0057	J	0.02	F
ZINC	MWL-MW4L	SNL0201199	14-MAR-94	2.1		0.02	F
ZINC	MWL-MW4	SNL0201354	31-MAY-94	0.14	B	0.02	F
ZINC	MWL-MW4	SNL0201510	28-OCT-94	0.07		0.02	F

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APPENDIX K

MWL Groundwater Radiochemical Data

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Appendix K
MWL Groundwater Radiochemical Data for 1994 and 1995

Parameter	Well	Sample Number	Date	Activity (pCi/L)	Uncertainty (pCi/L)	MDA (pCi/L)	Sample Type
GROSS ALPHA	MWL-BW1	026461-10	23-OCT-95	8.9	4.4	6.2	SA
GROSS ALPHA	MWL-BW1	SNL0201954	27-OCT-94	11	1.7	1	F
GROSS ALPHA	MWL-BW1	SNL0201964	27-OCT-94	2.54	1.38	1.95	F
GROSS ALPHA	MWL-BW1-EB	SNL0201946	26-OCT-94	-0.031	0.327	0.333	F
GROSS ALPHA	MWL-BW1-EB	SNL0202182	27-APR-94	-0.16	0.32	0.87	EB
GROSS ALPHA	MWL-EB	SNL0202134	01-JUN-94	0.24	0.48	0.85	EB
GROSS ALPHA	MWL-EB	SNL0202122	02-JUN-94	0.47	0.55	0.85	EB
GROSS ALPHA	MWL-MW1	026464-10	20-OCT-95	4.9	3.5	6.5	SA
GROSS ALPHA	MWL-MW1	SNL0201913	24-OCT-94	-0.39	0.21	0.37	F
GROSS ALPHA	MWL-MW1	SNL0201938	25-OCT-94	7.3	1.41	1.19	F
GROSS ALPHA	MWL-MW1-D	SNL0202152	03-MAY-94	6.9	3.4	3.1	D
GROSS ALPHA	MWL-MW1-D	SNL0202140	04-MAY-94	10	4.3	3.1	D
GROSS ALPHA	MWL-MW1-EB	SNL0202164	26-APR-94	-0.18	0.37	0.91	EB
GROSS ALPHA	MWL-MW2	SNL0202146	02-MAY-94	6.8	3.4	3	F
GROSS ALPHA	MWL-MW2	026459-10	16-OCT-95	3.2	2.8	5.7	SA
GROSS ALPHA	MWL-MW2	022145-07	17-APR-95	3.7	2.4	1.1	SA
GROSS ALPHA	MWL-MW2	SNL0201903	24-OCT-94	11.3	1.9	1.3	F
GROSS ALPHA	MWL-MW2-EB	SNL0201922	19-OCT-94	0.26	0.24	0.36	F
GROSS ALPHA	MWL-MW2-EB	SNL0202170	27-APR-94	0.54	0.71	1.1	EB
GROSS ALPHA	MWL-MW3	SNL0202158	03-MAY-94	9.8	3.8	2.1	F
GROSS ALPHA	MWL-MW3	026458-10	16-OCT-95	2.2	2.6	5.6	SA
GROSS ALPHA	MWL-MW3	022147-07	17-APR-95	2.6	2.2	1.1	SA
GROSS ALPHA	MWL-MW3	SNL0201928	25-OCT-94	5.11	1.55	1.85	F
GROSS ALPHA	MWL-MW3	SNL0201929	25-OCT-94	5.3	1.24	1.23	D
GROSS ALPHA	MWL-MW3-EB	SNL0201896	17-OCT-94	0.094	0.185	0.26	F
GROSS ALPHA	MWL-MW3-EB	SNL0202176	27-APR-94	4.9	2.5	2.1	EB
GROSS ALPHA	MWL-MW4	022150-07	19-APR-95	7.1	3.9	1.5	SA
GROSS ALPHA	MWL-MW4	022151-07	19-APR-95	6.1	3.4	1.3	DU
GROSS ALPHA	MWL-MW4	026465-10	20-OCT-95	3.5	3.6	7.5	SA
GROSS ALPHA	MWL-MW4	026466-10	20-OCT-95	2.3	3.6	7.7	DU
GROSS ALPHA	MWL-MW4	SNL0201973	28-OCT-94	5.37	1.51	1.74	F
GROSS ALPHA	MWL-MW4	SNL0202128	31-MAY-94	6.5	4.1	5.2	F
GROSS ALPHA	MWL-MW4L	SNL0202117	14-MAR-94	11	4.5	2.6	F
GROSS BETA	MWL-BW1	026461-10	23-OCT-95	5.4	2.5	3.5	SA
GROSS BETA	MWL-BW1	SNL0201954	27-OCT-94	5.05	0.8	1.01	F
GROSS BETA	MWL-BW1	SNL0201964	27-OCT-94	3.89	0.73	0.98	F
GROSS BETA	MWL-BW1-EB	SNL0201946	26-OCT-94	0.52	0.45	0.75	F
GROSS BETA	MWL-BW1-EB	SNL0202182	27-APR-94	0.79	1.3	2.2	EB
GROSS BETA	MWL-EB	SNL0202134	01-JUN-94	-1.2	1.3	2.3	EB
GROSS BETA	MWL-EB	SNL0202122	02-JUN-94	0.13	1.3	2.2	EB
GROSS BETA	MWL-MW1	026464-10	20-OCT-95	5.8	2.7	3.8	SA
GROSS BETA	MWL-MW1	SNL0201913	24-OCT-94	-0.18	0.34	0.74	F
GROSS BETA	MWL-MW1	SNL0201938	25-OCT-94	4.92	0.73	0.84	F
GROSS BETA	MWL-MW1-D	SNL0202152	03-MAY-94	4.4	1.6	2	D
GROSS BETA	MWL-MW1-D	SNL0202140	04-MAY-94	5.6	1.8	2.2	D
GROSS BETA	MWL-MW1-EB	SNL0202164	26-APR-94	-0.059	1.1	2	EB
GROSS BETA	MWL-MW2	SNL0202146	02-MAY-94	6.3	2	2.4	F
GROSS BETA	MWL-MW2	026459-10	16-OCT-95	6.3	2.6	3.6	SA
GROSS BETA	MWL-MW2	022145-07	17-APR-95	5.5	2.4	1.7	SA
GROSS BETA	MWL-MW2	SNL0201903	24-OCT-94	5.25	0.81	1	F
GROSS BETA	MWL-MW2-EB	SNL0201922	19-OCT-94	0.61	0.4	0.7	F
GROSS BETA	MWL-MW2-EB	SNL0202170	27-APR-94	1.2	1.3	2.2	EB
GROSS BETA	MWL-MW3	SNL0202158	03-MAY-94	7	1.9	2.1	F
GROSS BETA	MWL-MW3	026458-10	16-OCT-95	7	2.6	3.5	SA
GROSS BETA	MWL-MW3	022147-07	17-APR-95	6.1	2.7	1.9	SA
GROSS BETA	MWL-MW3	SNL0201928	25-OCT-94	3.84	0.68	0.91	F
GROSS BETA	MWL-MW3	SNL0201929	25-OCT-94	3.67	0.66	0.88	D
GROSS BETA	MWL-MW3-EB	SNL0201896	17-OCT-94	-0.17	0.34	0.55	F
GROSS BETA	MWL-MW3-EB	SNL0202176	27-APR-94	3.9	1.6	2.1	EB
GROSS BETA	MWL-MW4	022150-07	19-APR-95	10.3	3.6	2.5	SA

Appendix K
MWL Groundwater Radiochemical Data for 1994 and 1995

Parameter	Well	Sample Number	Date	Activity (pCi/L)	Uncertainty (pCi/L)	MDA (pCi/L)	Sample Type
GROSS BETA	MWL-MW4	022151-07	19-APR-95	7.9	3.1	2.3	DU
GROSS BETA	MWL-MW4	026465-10	20-OCT-95	6.8	3.2	4.5	SA
GROSS BETA	MWL-MW4	026466-10	20-OCT-95	7.5	3.7	5.2	DU
GROSS BETA	MWL-MW4	SNL0201973	28-OCT-94	5.69	0.94	1.17	F
GROSS BETA	MWL-MW4	SNL0202128	31-MAY-94	8.3	2.3	2.5	F
GROSS BETA	MWL-MW4L	SNL0202117	14-MAR-94	10	2.5	2.4	F
PLUTONIUM-238	MWL-BW1	026461-10	23-OCT-95	0.0028	0.01	0.0052	SA
PLUTONIUM-238	MWL-BW1	SNL0201953	27-OCT-94	0.057	0.074	0.117	F
PLUTONIUM-238	MWL-BW1	SNL0201963	27-OCT-94	0.019	0.056	0.147	F
PLUTONIUM-238	MWL-BW1-EB	SNL0201945	26-OCT-94	0.008	0.017	0.031	F
PLUTONIUM-238	MWL-BW1-EB	SNL0202181	27-APR-94	0.011	0.016	0.015	EB
PLUTONIUM-238	MWL-EB	SNL0202133	01-JUN-94	-0.019	0.012	0.072	EB
PLUTONIUM-238	MWL-EB	SNL0202121	02-JUN-94	-0.004	0.019	0.065	EB
PLUTONIUM-238	MWL-MW1	026464-10	20-OCT-95	0.001	0.012	0.0078	SA
PLUTONIUM-238	MWL-MW1	SNL0201912	24-OCT-94	0.016	0.021	0.035	F
PLUTONIUM-238	MWL-MW1	SNL0201937	25-OCT-94	0.004	0.026	0.052	F
PLUTONIUM-238	MWL-MW1-D	SNL0202151	03-MAY-94	-0.005	0.012	0.054	D
PLUTONIUM-238	MWL-MW1-D	SNL0202139	04-MAY-94	0.007	0.022	0.06	D
PLUTONIUM-238	MWL-MW1-EB	SNL0202163	26-APR-94	0.004	0.02	0.059	EB
PLUTONIUM-238	MWL-MW2	SNL0202145	02-MAY-94	0.024	0.026	0.042	F
PLUTONIUM-238	MWL-MW2	026459-10	16-OCT-95	0.003	0.012	0.0059	SA
PLUTONIUM-238	MWL-MW2	022145-07	17-APR-95	-0.015	0.021	0.031	SA
PLUTONIUM-238	MWL-MW2	SNL0201902	24-OCT-94	0.008	0.013	0.022	F
PLUTONIUM-238	MWL-MW2-EB	SNL0201921	19-OCT-94	0.004	0.012	0.024	F
PLUTONIUM-238	MWL-MW2-EB	SNL0202169	27-APR-94	0.002	0.026	0.081	EB
PLUTONIUM-238	MWL-MW3	SNL0202157	03-MAY-94	-0.006	0.001	0.048	F
PLUTONIUM-238	MWL-MW3	026458-10	16-OCT-95	0.002	0.017	0.011	SA
PLUTONIUM-238	MWL-MW3	022147-07	17-APR-95	-0.009	0.013	0.018	SA
PLUTONIUM-238	MWL-MW3	SNL0201927	25-OCT-94	-0.017	0.017	0.039	F
PLUTONIUM-238	MWL-MW3-EB	SNL0201895	17-OCT-94	0.003	0.02	0.039	F
PLUTONIUM-238	MWL-MW3-EB	SNL0202175	27-APR-94	0.009	0.024	0.06	EB
PLUTONIUM-238	MWL-MW4	022150-07	19-APR-95	-0.0037	0.0073	0.011	SA
PLUTONIUM-238	MWL-MW4	022151-07	19-APR-95	-0.006	0.011	0.016	DU
PLUTONIUM-238	MWL-MW4	026465-10	20-OCT-95	-0.0022	0.0042	0.0055	SA
PLUTONIUM-238	MWL-MW4	026466-10	20-OCT-95	-0.0023	0.0044	0.0058	DU
PLUTONIUM-238	MWL-MW4	SNL0201972	28-OCT-94	-0.001	0.003	0.06	F
PLUTONIUM-238	MWL-MW4	SNL0202127	31-MAY-94	-0.016	0.001	0.067	F
PLUTONIUM-238	MWL-MW4L	SNL0202116	14-MAR-94	-0.034	0.056	0.11	F
PLUTONIUM-239/240	MWL-BW1	026461-10	23-OCT-95	0.01	0.014	0	SA
PLUTONIUM-239/240	MWL-BW1	SNL0201953	27-OCT-94	-0.008	0.009	0.125	F
PLUTONIUM-239/240	MWL-BW1	SNL0201963	27-OCT-94	0.006	0.04	0.132	F
PLUTONIUM-239/240	MWL-BW1-EB	SNL0201945	26-OCT-94	-0.013	0.011	0.031	F
PLUTONIUM-239/240	MWL-BW1-EB	SNL0202181	27-APR-94	0.035	0.028	0.032	EB
PLUTONIUM-239/240	MWL-EB	SNL0202133	01-JUN-94	-0.022	0.002	0.068	EB
PLUTONIUM-239/240	MWL-EB	SNL0202121	02-JUN-94	-0.013	0.001	0.055	EB
PLUTONIUM-239/240	MWL-MW1	026464-10	20-OCT-95	0	0	0	SA
PLUTONIUM-239/240	MWL-MW1	SNL0201912	24-OCT-94	-0.01	0.011	0.035	F
PLUTONIUM-239/240	MWL-MW1	SNL0201937	25-OCT-94	0.013	0.015	0.013	F
PLUTONIUM-239/240	MWL-MW1-D	SNL0202151	03-MAY-94	-0.008	0.012	0.058	D
PLUTONIUM-239/240	MWL-MW1-D	SNL0202139	04-MAY-94	-0.006	0.013	0.06	D
PLUTONIUM-239/240	MWL-MW1-EB	SNL0202163	26-APR-94	-0.002	0.02	0.068	EB
PLUTONIUM-239/240	MWL-MW2	SNL0202145	02-MAY-94	-0.006	0.001	0.042	F
PLUTONIUM-239/240	MWL-MW2	026459-10	16-OCT-95	0.028	0.024	0	SA
PLUTONIUM-239/240	MWL-MW2	022145-07	17-APR-95	-0.008	0.015	0.058	SA
PLUTONIUM-239/240	MWL-MW2	SNL0201902	24-OCT-94	0.006	0.009	0.015	F
PLUTONIUM-239/240	MWL-MW2-EB	SNL0201921	19-OCT-94	0	0.009	0.021	F
PLUTONIUM-239/240	MWL-MW2-EB	SNL0202169	27-APR-94	0.008	0.016	0.021	EB
PLUTONIUM-239/240	MWL-MW3	SNL0202157	03-MAY-94	-0.025	0.002	0.078	F
PLUTONIUM-239/240	MWL-MW3	026458-10	16-OCT-95	-0.0044	0.0061	0.008	SA
PLUTONIUM-239/240	MWL-MW3	022147-07	17-APR-95	-0.0045	0.0089	0.034	SA
PLUTONIUM-239/240	MWL-MW3	SNL0201927	25-OCT-94	-0.011	0.015	0.035	F

Appendix K
MWL Groundwater Radiochemical Data for 1994 and 1995

Parameter	Well	Sample Number	Date	Activity (pCi/L)	Uncertainty (pCi/L)	MDA (pCi/L)	Sample Type
PLUTONIUM-239/240	MWL-MW3-EB	SNL0201895	17-OCT-94	-0.005	0.017	0.039	F
PLUTONIUM-239/240	MWL-MW3-EB	SNL0202175	27-APR-94	-0.023	0.002	0.088	EB
PLUTONIUM-239/240	MWL-MW4	022150-07	19-APR-95	0.007	0.023	0.028	SA
PLUTONIUM-239/240	MWL-MW4	022151-07	19-APR-95	0.052	0.059	0.04	DU
PLUTONIUM-239/240	MWL-MW4	026465-10	20-OCT-95	-0.0022	0.0042	0.0055	SA
PLUTONIUM-239/240	MWL-MW4	026466-10	20-OCT-95	0.003	0.012	0.0058	DU
PLUTONIUM-239/240	MWL-MW4	SNL0201972	28-OCT-94	0	0	0.04	F
PLUTONIUM-239/240	MWL-MW4	SNL0202127	31-MAY-94	0	0.014	0.049	F
PLUTONIUM-239/240	MWL-MW4L	SNL0202116	14-MAR-94	-0.011	0.017	0.046	F
STRONTIUM-90	MWL-BW1	026461-10	23-OCT-95	0.3	0.32	0.26	SA
STRONTIUM-90	MWL-BW1	SNL0201960	27-OCT-94	0.02	0.4	0.77	F
STRONTIUM-90	MWL-BW1	SNL0201970	27-OCT-94	0.5	0.5	0.85	F
STRONTIUM-90	MWL-BW1-EB	SNL0201951	26-OCT-94	0.44	0.48	0.81	F
STRONTIUM-90	MWL-BW1-EB	SNL0202183	27-APR-94	1.8	0.87	1.3	EB
STRONTIUM-90	MWL-EB	SNL0202135	01-JUN-94	-0.086	0.76	1.3	EB
STRONTIUM-90	MWL-EB	SNL0202123	02-JUN-94	-0.67	0.73	1.3	EB
STRONTIUM-90	MWL-MW1	026464-10	20-OCT-95	0.15	0.3	0.25	SA
STRONTIUM-90	MWL-MW1	SNL0201919	24-OCT-94	0.69	0.55	0.88	F
STRONTIUM-90	MWL-MW1	SNL0201943	25-OCT-94	0.43	0.48	0.81	F
STRONTIUM-90	MWL-MW1-D	SNL0202153	03-MAY-94	-0.58	0.79	1.4	D
STRONTIUM-90	MWL-MW1-D	SNL0202141	04-MAY-94	-0.3	0.82	1.5	D
STRONTIUM-90	MWL-MW1-EB	SNL0202165	26-APR-94	-0.54	0.78	1.4	EB
STRONTIUM-90	MWL-MW2	SNL0202147	02-MAY-94	-0.57	0.82	1.5	F
STRONTIUM-90	MWL-MW2	026459-10	16-OCT-95	-0.09	0.29	0.25	SA
STRONTIUM-90	MWL-MW2	022145-07	17-APR-95	-0.01	0.14	0.12	SA
STRONTIUM-90	MWL-MW2	SNL0201909	24-OCT-94	0.36	0.43	0.73	F
STRONTIUM-90	MWL-MW2-EB	SNL0201925	19-OCT-94	0.11	0.48	0.94	F
STRONTIUM-90	MWL-MW2-EB	SNL0202171	27-APR-94	0.12	0.91	1.6	EB
STRONTIUM-90	MWL-MW3	SNL0202159	03-MAY-94	-0.47	0.73	1.3	F
STRONTIUM-90	MWL-MW3	026458-10	16-OCT-95	0.03	0.31	0.26	SA
STRONTIUM-90	MWL-MW3	022147-07	17-APR-95	-0.04	0.12	0.1	SA
STRONTIUM-90	MWL-MW3	SNL0201934	25-OCT-94	0.36	0.41	0.72	F
STRONTIUM-90	MWL-MW3-EB	SNL0201899	17-OCT-94	0.27	0.35	0.56	F
STRONTIUM-90	MWL-MW3-EB	SNL0202177	27-APR-94	0.49	0.74	1.2	EB
STRONTIUM-90	MWL-MW4	022150-07	19-APR-95	0.05	0.13	0.11	SA
STRONTIUM-90	MWL-MW4	022151-07	19-APR-95	0.01	0.12	0.1	DU
STRONTIUM-90	MWL-MW4	026465-10	20-OCT-95	-0.15	0.3	0.27	SA
STRONTIUM-90	MWL-MW4	026466-10	20-OCT-95	0.16	0.31	0.26	DU
STRONTIUM-90	MWL-MW4	SNL0201979	28-OCT-94	0.06	0.49	0.92	F
STRONTIUM-90	MWL-MW4	SNL0202129	31-MAY-94	-0.66	0.76	1.4	F
THORIUM	MWL-BW1	026461-10	23-OCT-95	0.012	0.025	0.014	SA
THORIUM	MWL-MW1	026464-10	20-OCT-95	-0.0103	0.01	0.013	SA
THORIUM	MWL-MW2	026459-10	16-OCT-95	0.004	0.025	0.017	SA
THORIUM	MWL-MW2	022145-07	17-APR-95	0.03	0.023	0.02	SA
THORIUM	MWL-MW3	026458-10	16-OCT-95	0.0045	0.0088	0	SA
THORIUM	MWL-MW3	022147-07	17-APR-95	-0.002	0.013	0.02	SA
THORIUM	MWL-MW4	022150-07	19-APR-95	0.02	0.019	0.02	SA
THORIUM	MWL-MW4	022151-07	19-APR-95	0.021	0.019	0.02	DU
THORIUM	MWL-MW4	026465-10	20-OCT-95	0.008	0.015	0.0056	SA
THORIUM	MWL-MW4	026466-10	20-OCT-95	-0.004	0.02	0.016	DU
THORIUM-228	MWL-BW1	026461-10	23-OCT-95	0.002	0.065	0.062	SA
THORIUM-228	*MWL-BW1*	*SNL0201956*	*27-OCT-94*	*0.038*	*0.052*	*0.093*	*F*
THORIUM-228	*MWL-BW1*	*SNL0201968*	*27-OCT-94*	*32.1*	*20.2*	*9.9*	*F*
THORIUM-228	*MWL-BW1*	*SNL0201967*	*27-OCT-94*	*0.9*	*9.7*	*26.8*	*F*
THORIUM-228	*MWL-BW1*	*SNL0201957*	*27-OCT-94*	*-0.17*	*0.18*	*2.36*	*F*
THORIUM-228	*MWL-BW1*	*SNL0201966*	*27-OCT-94*	*0.012*	*0.028*	*0.058*	*F*
THORIUM-228	*MWL-BW1*	*SNL0201958*	*27-OCT-94*	*1.88*	*4.3*	*8.72*	*F*
THORIUM-228	*MWL-BW1-EB*	*SNL0201948*	*26-OCT-94*	*-2*	*3.6*	*35.8*	*F*
THORIUM-228	*MWL-BW1-EB*	*SNL0201949*	*26-OCT-94*	*0.36*	*1.06*	*2.72*	*F*
THORIUM-228	MWL-MW1	026464-10	20-OCT-95	0.022	0.073	0.074	SA
THORIUM-228	*MWL-MW1*	*SNL0201915*	*24-OCT-94*	*0.14*	*0.49*	*1.36*	*F*

Appendix K
MWL Groundwater Radiochemical Data for 1994 and 1995

Parameter	Well	Sample Number	Date	Activity (pCi/L)	Uncertainty (pCi/L)	MDA (pCi/L)	Sample Type
THORIUM-228	*MWL-MW1*	*SNL0201916*	*24-OCT-94*	*1.66*	*4.11*	*9.52*	*F*
THORIUM-228	*MWL-MW1*	*SNL0201917*	*24-OCT-94*	*6.11*	*3.95*	*2.34*	*F*
THORIUM-228	*MWL-MW1*	*SNL0201940*	*25-OCT-94*	*0.83*	*1.87*	*4.21*	*F*
THORIUM-228	*MWL-MW1*	*SNL0201941*	*25-OCT-94*	*32.1*	*20.2*	*9.9*	*F*
THORIUM-228	MWL-MW2	026459-10	16-OCT-95	0.044	0.063	0.059	SA
THORIUM-228	MWL-MW2	022145-07	17-APR-95	0.055	0.052	0.044	SA
THORIUM-228	*MWL-MW2*	*SNL0201905*	*24-OCT-94*	*0.012*	*0.031*	*0.074*	*F*
THORIUM-228	*MWL-MW2*	*SNL0201906*	*24-OCT-94*	*0.84*	*0.84*	*1.03*	*F*
THORIUM-228	*MWL-MW2*	*SNL0201907*	*24-OCT-94*	*0.64*	*1.3*	*1.73*	*F*
THORIUM-228	*MWL-MW2-EB*	*SNL0201924*	*19-OCT-94*	*-0.039*	*0.046*	*0.676*	*F*
THORIUM-228	MWL-MW3	026458-10	16-OCT-95	0.039	0.064	0.058	SA
THORIUM-228	MWL-MW3	022147-07	17-APR-95	0.028	0.047	0.044	SA
THORIUM-228	*MWL-MW3*	*SNL0201931*	*25-OCT-94*	*1.33*	*2.3*	*4.11*	*F*
THORIUM-228	*MWL-MW3*	*SNL0201932*	*25-OCT-94*	*17*	*10.9*	*5.8*	*F*
THORIUM-228	*MWL-MW3-EB*	*SNL0201898*	*17-OCT-94*	*0.06*	*0.158*	*0.329*	*F*
THORIUM-228	MWL-MW4	022150-07	19-APR-95	0.059	0.044	0.04	SA
THORIUM-228	MWL-MW4	022151-07	19-APR-95	0.051	0.045	0.041	DU
THORIUM-228	MWL-MW4	026465-10	20-OCT-95	-0.014	0.063	0.066	SA
THORIUM-228	MWL-MW4	026466-10	20-OCT-95	0.014	0.062	0.057	DU
THORIUM-228	*MWL-MW4*	*SNL0201975*	*28-OCT-94*	*0.011*	*0.027*	*0.063*	*F*
THORIUM-228	*MWL-MW4*	*SNL0201977*	*28-OCT-94*	*10.8*	*4.9*	*2.1*	*F*
THORIUM-228	*MWL-MW4*	*SNL0201976*	*28-OCT-94*	*-0.22*	*0.16*	*1.73*	*F*
THORIUM-230	MWL-BW1	026461-10	23-OCT-95	-0.005	0.02	0.021	SA
THORIUM-230	*MWL-BW1*	*SNL0201956*	*27-OCT-94*	*0.35*	*0.15*	*0.03*	*F*
THORIUM-230	*MWL-BW1*	*SNL0201968*	*27-OCT-94*	*37.2*	*22.5*	*6.7*	*F*
THORIUM-230	*MWL-BW1*	*SNL0201967*	*27-OCT-94*	*6.3*	*12.5*	*26*	*F*
THORIUM-230	*MWL-BW1*	*SNL0201957*	*27-OCT-94*	*0.71*	*1.22*	*2.2*	*F*
THORIUM-230	*MWL-BW1*	*SNL0201966*	*27-OCT-94*	*0.44*	*0.17*	*0.08*	*F*
THORIUM-230	*MWL-BW1*	*SNL0201958*	*27-OCT-94*	*6.06*	*7.81*	*8.73*	*F*
THORIUM-230	*MWL-BW1-EB*	*SNL0201948*	*26-OCT-94*	*6.8*	*16.5*	*18.5*	*F*
THORIUM-230	*MWL-BW1-EB*	*SNL0201949*	*26-OCT-94*	*-0.36*	*1.56*	*5.36*	*F*
THORIUM-230	MWL-BW1-EB	SNL0202185	27-APR-94	0.016	0.022	0.022	EB
THORIUM-230	MWL-EB	SNL0202137	01-JUN-94	0.004	0.016	0.047	EB
THORIUM-230	MWL-EB	SNL0202125	02-JUN-94	0.004	0.008	0.012	EB
THORIUM-230	MWL-MW1	026464-10	20-OCT-95	-0.011	0.023	0.027	SA
THORIUM-230	*MWL-MW1*	*SNL0201915*	*24-OCT-94*	*0.14*	*0.49*	*1.36*	*F*
THORIUM-230	*MWL-MW1*	*SNL0201917*	*24-OCT-94*	*9.7*	*5.36*	*2.13*	*F*
THORIUM-230	*MWL-MW1*	*SNL0201916*	*24-OCT-94*	*1.25*	*4.1*	*10.5*	*F*
THORIUM-230	*MWL-MW1*	*SNL0201940*	*25-OCT-94*	*1.53*	*2.32*	*4.03*	*F*
THORIUM-230	*MWL-MW1*	*SNL0201941*	*25-OCT-94*	*37.2*	*22.5*	*6.6*	*F*
THORIUM-230	MWL-MW1-D	SNL0202155	03-MAY-94	-0.007	0	0.051	D
THORIUM-230	MWL-MW1-D	SNL0202143	04-MAY-94	-0.01	0	0.057	D
THORIUM-230	MWL-MW1-EB	SNL0202167	26-APR-94	0.056	0.042	0.045	EB
THORIUM-230	MWL-MW2	SNL0202149	02-MAY-94	0	0.014	0.052	F
THORIUM-230	MWL-MW2	026459-10	16-OCT-95	-0.001	0.023	0.022	SA
THORIUM-230	MWL-MW2	022145-07	17-APR-95	0.073	0.033	0.04	SA
THORIUM-230	*MWL-MW2*	*SNL0201905*	*24-OCT-94*	*0.58*	*0.21*	*0.09*	*F*
THORIUM-230	*MWL-MW2*	*SNL0201907*	*24-OCT-94*	*0.58*	*1.3*	*2.68*	*F*
THORIUM-230	*MWL-MW2*	*SNL0201906*	*24-OCT-94*	*2.69*	*1.56*	*0.87*	*F*
THORIUM-230	*MWL-MW2-EB*	*SNL0201924*	*19-OCT-94*	*0.63*	*0.6*	*0.54*	*F*
THORIUM-230	MWL-MW2-EB	SNL0202173	27-APR-94	0.024	0.028	0.022	EB
THORIUM-230	MWL-MW3	SNL0202161	03-MAY-94	0.008	0.024	0.061	F
THORIUM-230	MWL-MW3	026458-10	16-OCT-95	-0.006	0.024	0.023	SA
THORIUM-230	MWL-MW3	022147-07	17-APR-95	0.105	0.036	0.038	SA
THORIUM-230	*MWL-MW3*	*SNL0201931*	*25-OCT-94*	*3.52*	*3.85*	*4.69*	*F*
THORIUM-230	*MWL-MW3*	*SNL0201932*	*25-OCT-94*	*19.6*	*12.1*	*5.8*	*F*
THORIUM-230	*MWL-MW3-EB*	*SNL0201898*	*17-OCT-94*	*0.56*	*0.34*	*0.29*	*F*
THORIUM-230	MWL-MW3-EB	SNL0202179	27-APR-94	0.004	0.016	0.048	EB
THORIUM-230	MWL-MW4	022150-07	19-APR-95	0.194	0.053	0.041	SA
THORIUM-230	MWL-MW4	022151-07	19-APR-95	0.126	0.042	0.04	DU
THORIUM-230	MWL-MW4	026465-10	20-OCT-95	-0.006	0.022	0.023	SA

Appendix K
MWL Groundwater Radiochemical Data for 1994 and 1995

Parameter	Well	Sample Number	Date	Activity (pCi/L)	Uncertainty (pCi/L)	MDA (pCi/L)	Sample Type
THORIUM-230	MWL-MW4	026466-10	20-OCT-95	0.023	0.029	0.019	DU
THORIUM-230	*MWL-MW4*	*SNL0201975*	*28-OCT-94*	*0.24*	*0.12*	*0.06*	*F*
THORIUM-230	*MWL-MW4*	*SNL0201977*	*28-OCT-94*	*52.8*	*15.8*	*1.8*	*F*
THORIUM-230	*MWL-MW4*	*SNL0201976*	*28-OCT-94*	*0.63*	*0.87*	*1.38*	*F*
THORIUM-230	MWL-MW4	SNL0202131	31-MAY-94	-0.003	0.016	0.062	F
THORIUM-230	MWL-MW4L	SNL0202119	14-MAR-94	0.009	0.018	0.025	F
THORIUM-232	*MWL-BW1*	*SNL0201956*	*27-OCT-94*	*0.071*	*0.063*	*0.071*	*F*
THORIUM-232	*MWL-BW1*	*SNL0201966*	*27-OCT-94*	*0.012*	*0.028*	*0.058*	*F*
THORIUM-232	*MWL-BW1*	*SNL0201968*	*27-OCT-94*	*7.9*	*7.73*	*7.29*	*F*
THORIUM-232	*MWL-BW1*	*SNL0201967*	*27-OCT-94*	*-1.4*	*7.1*	*23.7*	*F*
THORIUM-232	*MWL-BW1*	*SNL0201958*	*27-OCT-94*	*0*	*0*	*5.65*	*F*
THORIUM-232	*MWL-BW1*	*SNL0201957*	*27-OCT-94*	*0.75*	*1.22*	*2*	*F*
THORIUM-232	*MWL-BW1-EB*	*SNL0201948*	*26-OCT-94*	*-2.7*	*4.6*	*38.5*	*F*
THORIUM-232	*MWL-BW1-EB*	*SNL0201949*	*26-OCT-94*	*0.36*	*1.51*	*4.14*	*F*
THORIUM-232	MWL-BW1-EB	SNL0202185	27-APR-94	-0.004	0	0.048	EB
THORIUM-232	MWL-EB	SNL0202137	01-JUN-94	0.001	0.016	0.056	EB
THORIUM-232	MWL-EB	SNL0202125	02-JUN-94	0.009	0.018	0.04	EB
THORIUM-232	*MWL-MW1*	*SNL0201915*	*24-OCT-94*	*-0.1*	*0.1*	*1.36*	*F*
THORIUM-232	*MWL-MW1*	*SNL0201917*	*24-OCT-94*	*0.36*	*0.91*	*2.13*	*F*
THORIUM-232	*MWL-MW1*	*SNL0201916*	*24-OCT-94*	*1.11*	*2.87*	*6.63*	*F*
THORIUM-232	*MWL-MW1*	*SNL0201940*	*25-OCT-94*	*0.32*	*1.31*	*3.82*	*F*
THORIUM-232	*MWL-MW1*	*SNL0201941*	*25-OCT-94*	*7.9*	*7.73*	*7.29*	*F*
THORIUM-232	MWL-MW1-D	SNL0202155	03-MAY-94	0	0.014	0.051	D
THORIUM-232	MWL-MW1-D	SNL0202143	04-MAY-94	-0.01	0	0.057	D
THORIUM-232	MWL-MW1-EB	SNL0202167	26-APR-94	-0.01	0	0.061	EB
THORIUM-232	MWL-MW2	SNL0202149	02-MAY-94	-0.003	0.016	0.06	F
THORIUM-232	*MWL-MW2*	*SNL0201905*	*24-OCT-94*	*0.043*	*0.054*	*0.074*	*F*
THORIUM-232	*MWL-MW2*	*SNL0201906*	*24-OCT-94*	*0.53*	*0.64*	*0.76*	*F*
THORIUM-232	*MWL-MW2*	*SNL0201907*	*24-OCT-94*	*0.64*	*1.3*	*1.73*	*F*
THORIUM-232	*MWL-MW2-EB*	*SNL0201924*	*19-OCT-94*	*0*	*0*	*0.35*	*F*
THORIUM-232	MWL-MW2-EB	SNL0202173	27-APR-94	0.009	0.022	0.057	EB
THORIUM-232	MWL-MW3	SNL0202161	03-MAY-94	-0.016	0	0.066	F
THORIUM-232	*MWL-MW3*	*SNL0201931*	*25-OCT-94*	*0.78*	*1.6*	*2.12*	*F*
THORIUM-232	*MWL-MW3*	*SNL0201932*	*25-OCT-94*	*4.91*	*4.82*	*4.96*	*F*
THORIUM-232	*MWL-MW3-EB*	*SNL0201898*	*17-OCT-94*	*0.028*	*0.114*	*0.28*	*F*
THORIUM-232	MWL-MW3-EB	SNL0202179	27-APR-94	0.004	0.016	0.048	EB
THORIUM-232	*MWL-MW4*	*SNL0201975*	*28-OCT-94*	*0.024*	*0.038*	*0.063*	*F*
THORIUM-232	*MWL-MW4*	*SNL0201977*	*28-OCT-94*	*17.2*	*6.6*	*2*	*F*
THORIUM-232	*MWL-MW4*	*SNL0201976*	*28-OCT-94*	*0*	*0*	*0.66*	*F*
THORIUM-232	MWL-MW4	SNL0202131	31-MAY-94	0.034	0.034	0.045	F
THORIUM-232	MWL-MW4L	SNL0202119	14-MAR-94	-0.004	0	0.055	F
TRITIUM	MWL-BW1	026461-09	23-OCT-95	70	200	110	SA
TRITIUM	MWL-BW1	SNL0201961	27-OCT-94	-32	104	180	F
TRITIUM	MWL-BW1	SNL0201971	27-OCT-94	-27	104	180	F
TRITIUM	MWL-BW1	SNL0201962	27-OCT-94	-103	102	180	D
TRITIUM	MWL-BW1-EB	SNL0201952	26-OCT-94	-20	104	180	F
TRITIUM	MWL-BW1-EB	SNL0202186	27-APR-94	210	160	260	EB
TRITIUM	MWL-EB	SNL0202138	01-JUN-94	170	160	260	EB
TRITIUM	MWL-EB	SNL0202126	02-JUN-94	110	150	250	EB
TRITIUM	MWL-MW1	026464-09	20-OCT-95	20	190	110	SA
TRITIUM	MWL-MW1	SNL0201920	24-OCT-94	-14	157	274	F
TRITIUM	MWL-MW1	SNL0201944	25-OCT-94	-37	103	180	F
TRITIUM	MWL-MW1-D	SNL0202156	03-MAY-94	230	160	260	D
TRITIUM	MWL-MW1-D	SNL0202144	04-MAY-94	230	160	260	D
TRITIUM	MWL-MW1-EB	SNL0202168	26-APR-94	160	160	260	EB
TRITIUM	MWL-MW2	SNL0202150	02-MAY-94	170	160	260	F
TRITIUM	MWL-MW2	026459-09	16-OCT-95	-40	190	110	SA
TRITIUM	MWL-MW2	022145-08	17-APR-95	40	170	95	SA
TRITIUM	MWL-MW2	SNL0201910	24-OCT-94	105	163	274	F
TRITIUM	MWL-MW2	SNL0201911	24-OCT-94	124	163	274	D
TRITIUM	MWL-MW2-EB	SNL0201926	19-OCT-94	11	158	274	F

Appendix K
MWL Groundwater Radiochemical Data for 1994 and 1995

Parameter	Well	Sample Number	Date	Activity (pCi/L)	Uncertainty (pCi/L)	MDA (pCi/L)	Sample Type
TRITIUM	MWL-MW2-EB	SNL0202174	27-APR-94	210	160	260	EB
TRITIUM	MWL-MW3	SNL0202162	03-MAY-94	110	150	260	F
TRITIUM	MWL-MW3	026458-09	16-OCT-95	70	200	110	SA
TRITIUM	MWL-MW3	022147-08	17-APR-95	-60	160	95	SA
TRITIUM	MWL-MW3	SNL0201935	25-OCT-94	-48	103	180	F
TRITIUM	MWL-MW3	SNL0201936	25-OCT-94	-90	102	180	D
TRITIUM	MWL-MW3-EB	SNL0201900	17-OCT-94	105	163	274	F
TRITIUM	MWL-MW3-EB	SNL0201901	17-OCT-94	153	165	274	D
TRITIUM	MWL-MW3-EB	SNL0202180	27-APR-94	130	160	260	EB
TRITIUM	MWL-MW4	022150-08	19-APR-95	-50	160	96	SA
TRITIUM	MWL-MW4	022151-08	19-APR-95	-60	160	96	DU
TRITIUM	MWL-MW4	026465-09	20-OCT-95	-10	190	110	SA
TRITIUM	MWL-MW4	026466-09	20-OCT-95	10	190	110	DU
TRITIUM	MWL-MW4	SNL0201980	28-OCT-94	-80	102	180	F
TRITIUM	MWL-MW4	SNL0202132	31-MAY-94	270	160	260	F
TRITIUM	MWL-MW4L	SNL0202120	14-MAR-94	230	150	240	F
URANIUM (mg/L)	MWL-BW1	SNL0201955	27-OCT-94	0.00509	0.53	0.001	F
URANIUM (mg/L)	MWL-BW1	SNL0201965	27-OCT-94	0.001	9999.9999	0.001	F
URANIUM (mg/L)	MWL-BW1-EB	SNL0201947	26-OCT-94	0.001	9999.9999	0.001	F
URANIUM (mg/L)	MWL-MW1	SNL0201914	24-OCT-94	0.00134	0.14	0.001	F
URANIUM (mg/L)	MWL-MW1	SNL0201939	25-OCT-94	0.00548	0.57	0.001	F
URANIUM (mg/L)	MWL-MW2	022145-07	17-APR-95	0.00664	0.34	0.00014	SA
URANIUM (mg/L)	MWL-MW2	022145-07	17-APR-95	0.00664	0.34	0.00014	SA
URANIUM (mg/L)	MWL-MW2	SNL0201904	24-OCT-94	0.00784	0.83	0.001	F
URANIUM (mg/L)	MWL-MW2-EB	SNL0201923	19-OCT-94	0.00053	0.05	0.001	F
URANIUM (mg/L)	MWL-MW3	022147-07	17-APR-95	0.00549	0.28	0.00014	SA
URANIUM (mg/L)	MWL-MW3	022147-07	17-APR-95	0.00549	0.28	0.00014	SA
URANIUM (mg/L)	MWL-MW3	SNL0201930	25-OCT-94	0.00482	0.5	0.001	F
URANIUM (mg/L)	MWL-MW3-EB	SNL0201897	17-OCT-94	0.0005	0.06	0.001	F
URANIUM (mg/L)	MWL-MW4	022150-07	19-APR-95	0.00617	0.32	0.00014	SA
URANIUM (mg/L)	MWL-MW4	022151-07	19-APR-95	0.0065	0.33	0.00014	DU
URANIUM (mg/L)	**MWL-MW4**	**SNL0201974**	**28-OCT-94**	**0.0065**	**NA**	**NA**	**F**
URANIUM-233/234	MWL-BW1	026461-10	23-OCT-95	5.81	0.42	0.027	SA
URANIUM-233/234	MWL-BW1-EB	SNL0202184	27-APR-94	0.099	0.062	0.058	EB
URANIUM-233/234	MWL-EB	SNL0202136	01-JUN-94	0.084	0.058	0.053	EB
URANIUM-233/234	MWL-EB	SNL0202124	02-JUN-94	0.05	0.042	0.046	EB
URANIUM-233/234	MWL-MW1	026464-10	20-OCT-95	5.9	0.46	0.034	SA
URANIUM-233/234	MWL-MW1-D	SNL0202154	03-MAY-94	5.5	1.1	0.053	D
URANIUM-233/234	MWL-MW1-D	SNL0202142	04-MAY-94	5.4	1.1	0.065	D
URANIUM-233/234	MWL-MW1-EB	SNL0202166	26-APR-94	0.029	0.034	0.026	EB
URANIUM-233/234	MWL-MW2	SNL0202148	02-MAY-94	6.5	1.3	0.076	F
URANIUM-233/234	MWL-MW2	026459-10	16-OCT-95	6.61	0.47	0.025	SA
URANIUM-233/234	MWL-MW2	022145-07	17-APR-95	6.28	0.48	0.035	SA
URANIUM-233/234	MWL-MW2-EB	SNL0202172	27-APR-94	1.8	0.41	0.062	EB
URANIUM-233/234	MWL-MW3	SNL0202160	03-MAY-94	5.2	1.1	0.074	F
URANIUM-233/234	MWL-MW3	026458-10	16-OCT-95	4.85	0.37	0.028	SA
URANIUM-233/234	MWL-MW3	022147-07	17-APR-95	5.29	0.41	0.032	SA
URANIUM-233/234	MWL-MW3-EB	SNL0202178	27-APR-94	0.55	0.16	0.021	EB
URANIUM-233/234	MWL-MW4	022150-07	19-APR-95	3.92	0.35	0.035	SA
URANIUM-233/234	MWL-MW4	022151-07	19-APR-95	4.21	0.35	0.034	DU
URANIUM-233/234	MWL-MW4	026465-10	20-OCT-95	3.34	0.3	0.029	SA
URANIUM-233/234	MWL-MW4	026466-10	20-OCT-95	3.95	0.32	0.025	DU
URANIUM-233/234	MWL-MW4	SNL0202130	31-MAY-94	5.1	1	0.023	F
URANIUM-233/234	MWL-MW4L	SNL0202118	14-MAR-94	7.7	1.2	0.019	F
URANIUM-234	MWL-BW1	SNL0201959	27-OCT-94	7.36	1.57	0.07	F
URANIUM-234	MWL-BW1	SNL0201969	27-OCT-94	7.97	1.7	0.19	F
URANIUM-234	MWL-BW1-EB	SNL0201950	26-OCT-94	0.05	0.076	0.111	F
URANIUM-234	MWL-MW1	SNL0201918	24-OCT-94	0.056	0.08	0.076	F
URANIUM-234	MWL-MW1	SNL0201942	25-OCT-94	7.28	1.51	0.13	F
URANIUM-234	MWL-MW2	SNL0201908	24-OCT-94	7.34	1.66	0.09	F
URANIUM-234	MWL-MW2-EB	SNL0201924	19-OCT-94	0.073	0.105	0.1	F

Appendix K
MWL Groundwater Radiochemical Data for 1994 and 1995

Parameter	Well	Sample Number	Date	Activity (pCi/L)	Uncertainty (pCi/L)	MDA (pCi/L)	Sample Type
URANIUM-234	MWL-MW3	SNL0201933	25-OCT-94	6.19	1.51	0.25	F
URANIUM-234	MWL-MW3-EB	SNL0201898	17-OCT-94	0.15	0.3	0.41	F
URANIUM-234	MWL-MW4	SNL0201978	28-OCT-94	5.24	1.3	0.17	F
URANIUM-235	MWL-BW1	026461-10	23-OCT-95	0.187	0.055	0.011	SA
URANIUM-235	MWL-BW1-EB	SNL0202184	27-APR-94	-0.011	0.002	0.067	EB
URANIUM-235	MWL-EB	SNL0202136	01-JUN-94	0	0	0.024	EB
URANIUM-235	MWL-EB	SNL0202124	02-JUN-94	0.004	0.016	0.046	EB
URANIUM-235	MWL-MW1	026464-10	20-OCT-95	0.176	0.065	0.019	SA
URANIUM-235	MWL-MW1-D	SNL0202154	03-MAY-94	0.094	0.062	0.053	D
URANIUM-235	MWL-MW1-D	SNL0202142	04-MAY-94	0.1	0.06	0.048	D
URANIUM-235	MWL-MW1-EB	SNL0202166	26-APR-94	0	0	0.026	EB
URANIUM-235	MWL-MW2	SNL0202148	02-MAY-94	0.23	0.1	0.025	F
URANIUM-235	MWL-MW2	026459-10	16-OCT-95	0.169	0.054	0.013	SA
URANIUM-235	MWL-MW2	022145-07	17-APR-95	0.184	0.062	0.015	SA
URANIUM-235	MWL-MW2-EB	SNL0202172	27-APR-94	0.079	0.054	0.024	EB
URANIUM-235	MWL-MW3	SNL0202160	03-MAY-94	0.089	0.064	0.062	F
URANIUM-235	MWL-MW3	026458-10	16-OCT-95	0.146	0.05	0.012	SA
URANIUM-235	MWL-MW3	022147-07	17-APR-95	0.163	0.058	0.017	SA
URANIUM-235	MWL-MW3-EB	SNL0202178	27-APR-94	0	0	0.021	EB
URANIUM-235	MWL-MW4	022150-07	19-APR-95	0.171	0.062	0.016	SA
URANIUM-235	MWL-MW4	022151-07	19-APR-95	0.142	0.056	0.021	DU
URANIUM-235	MWL-MW4	026465-10	20-OCT-95	0.139	0.051	0.012	SA
URANIUM-235	MWL-MW4	026466-10	20-OCT-95	0.116	0.048	0.017	DU
URANIUM-235	MWL-MW4	SNL0202130	31-MAY-94	0.061	0.048	0.023	F
URANIUM-235	MWL-MW4L	SNL0202118	14-MAR-94	0.21	0.082	0.019	F
URANIUM-235/236	MWL-BW1	SNL0201959	27-OCT-94	0.26	0.19	0.14	F
URANIUM-235/236	MWL-BW1	SNL0201969	27-OCT-94	0.43	0.26	0.24	F
URANIUM-235/236	MWL-BW1-EB	SNL0201950	26-OCT-94	0.029	0.066	0.137	F
URANIUM-235/236	MWL-MW1	SNL0201918	24-OCT-94	0	0	0.094	F
URANIUM-235/236	MWL-MW1	SNL0201942	25-OCT-94	0.38	0.22	0.17	F
URANIUM-235/236	MWL-MW2	SNL0201908	24-OCT-94	0.2	0.18	0.11	F
URANIUM-235/236	MWL-MW2-EB	SNL0201924	19-OCT-94	0.041	0.091	0.19	F
URANIUM-235/236	MWL-MW3	SNL0201933	25-OCT-94	0.32	0.25	0.19	F
URANIUM-235/236	MWL-MW3-EB	SNL0201898	17-OCT-94	0	0	0.5	F
URANIUM-235/236	MWL-MW4	SNL0201978	28-OCT-94	0.22	0.2	0.19	F
URANIUM-238	MWL-BW1	026461-10	23-OCT-95	2.21	0.22	0.021	SA
URANIUM-238	MWL-BW1	SNL0201959	27-OCT-94	3.18	0.81	0.07	F
URANIUM-238	MWL-BW1	SNL0201969	27-OCT-94	3.05	0.8	0.23	F
URANIUM-238	MWL-BW1-EB	SNL0201950	26-OCT-94	0	0	0.072	F
URANIUM-238	MWL-BW1-EB	SNL0202184	27-APR-94	0.041	0.04	0.058	EB
URANIUM-238	MWL-EB	SNL0202136	01-JUN-94	0.044	0.04	0.024	EB
URANIUM-238	MWL-EB	SNL0202124	02-JUN-94	0.027	0.03	0.046	EB
URANIUM-238	MWL-MW1	026464-10	20-OCT-95	2.23	0.25	0.027	SA
URANIUM-238	MWL-MW1	SNL0201918	24-OCT-94	-0.002	0.006	0.117	F
URANIUM-238	MWL-MW1	SNL0201942	25-OCT-94	2.45	0.64	0.12	F
URANIUM-238	MWL-MW1-D	SNL0202154	03-MAY-94	1.8	0.42	0.053	D
URANIUM-238	MWL-MW1-D	SNL0202142	04-MAY-94	1.9	0.42	0.078	D
URANIUM-238	MWL-MW1-EB	SNL0202166	26-APR-94	0.034	0.04	0.058	EB
URANIUM-238	MWL-MW2	SNL0202148	02-MAY-94	2.2	0.49	0.025	F
URANIUM-238	MWL-MW2	026459-10	16-OCT-95	2.26	0.22	0.021	SA
URANIUM-238	MWL-MW2	022145-07	17-APR-95	2.41	0.25	0.029	SA
URANIUM-238	MWL-MW2	SNL0201908	24-OCT-94	2.33	0.7	0.09	F
URANIUM-238	MWL-MW2-EB	SNL0201924	19-OCT-94	0.033	0.074	0.153	F
URANIUM-238	MWL-MW2-EB	SNL0202172	27-APR-94	1.1	0.29	0.062	EB
URANIUM-238	MWL-MW3	SNL0202160	03-MAY-94	2	0.46	0.095	F
URANIUM-238	MWL-MW3	026458-10	16-OCT-95	1.86	0.2	0.019	SA
URANIUM-238	MWL-MW3	022147-07	17-APR-95	2.02	0.22	0.028	SA
URANIUM-238	MWL-MW3	SNL0201933	25-OCT-94	2.2	0.71	0.21	F
URANIUM-238	MWL-MW3-EB	SNL0201898	17-OCT-94	0	0	0.41	F
URANIUM-238	MWL-MW3-EB	SNL0202178	27-APR-94	0.17	0.08	0.046	EB
URANIUM-238	MWL-MW4	022150-07	19-APR-95	1.81	0.22	0.031	SA

Appendix K
MWL Groundwater Radiochemical Data for 1994 and 1995

Parameter	Well	Sample Number	Date	Activity (pCi/L)	Uncertainty (pCi/L)	MDA (pCi/L)	Sample Type
URANIUM-238	MWL-MW4	022151-07	19-APR-95	1.81	0.21	0.029	DU
URANIUM-238	MWL-MW4	026465-10	20-OCT-95	1.72	0.2	0.02	SA
URANIUM-238	MWL-MW4	026466-10	20-OCT-95	1.76	0.19	0.02	DU
URANIUM-238	MWL-MW4	SNL0201978	28-OCT-94	2.94	0.85	0.1	F
URANIUM-238	MWL-MW4	SNL0202130	31-MAY-94	2.1	0.48	0.023	F
URANIUM-238	MWL-MW4L	SNL0202118	14-MAR-94	2.8	0.49	0.056	F

APPENDIX L

MWL Control Charts for Radionuclide Indicators

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INTERNATIONAL TECHNOLOGY CORPORATION

September 29, 1995

Project No. 301455.211.03.000

Sandia National Laboratories
Attn: Jerry Peace
Org. 7585
P. O. Box 5800 MS 1148
Albuquerque, New Mexico 87185-1148

Transmittal of Control Charts for Radiological Monitoring Parameters

Dear Mr. Peace:

Enclosed please find control charts for three "indicator" radionuclide parameters (tritium, gross alpha and gross beta) that can be used to identify obviously high activity values which may be indicative of either contamination or laboratory error. The control charts portray the mean, and one and two sigma values above the mean for each set of analyses for a given well. Including the reanalyzed April 1995 MWL-BW1 tritium sample, none of the data for any of the parameters exceed the 2 sigma value for any well. Overall statistical distributions for your site were considered when calculating the control values for each parameter. For the purpose of generating and interpreting these control charts, each parameter was assumed to be approximately normally-distributed; therefore, no logarithmic transformation of the data was required.

Respectfully submitted,

IT CORPORATION

Jim P. Keith

Jim D. Keith
Staff Hydrogeochemist

JDK:glj

Enclosures

AL/9-95/SE-JK.039

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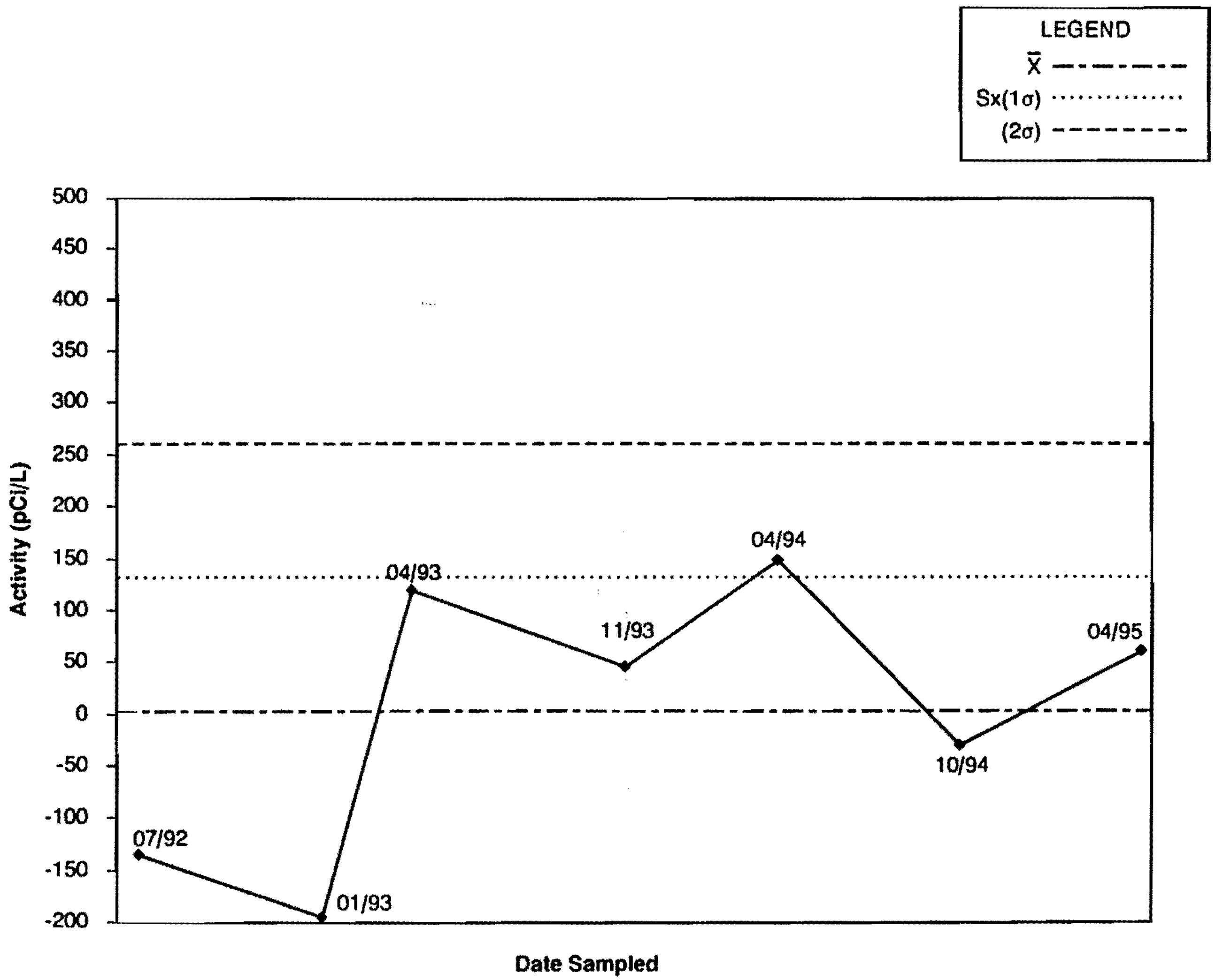
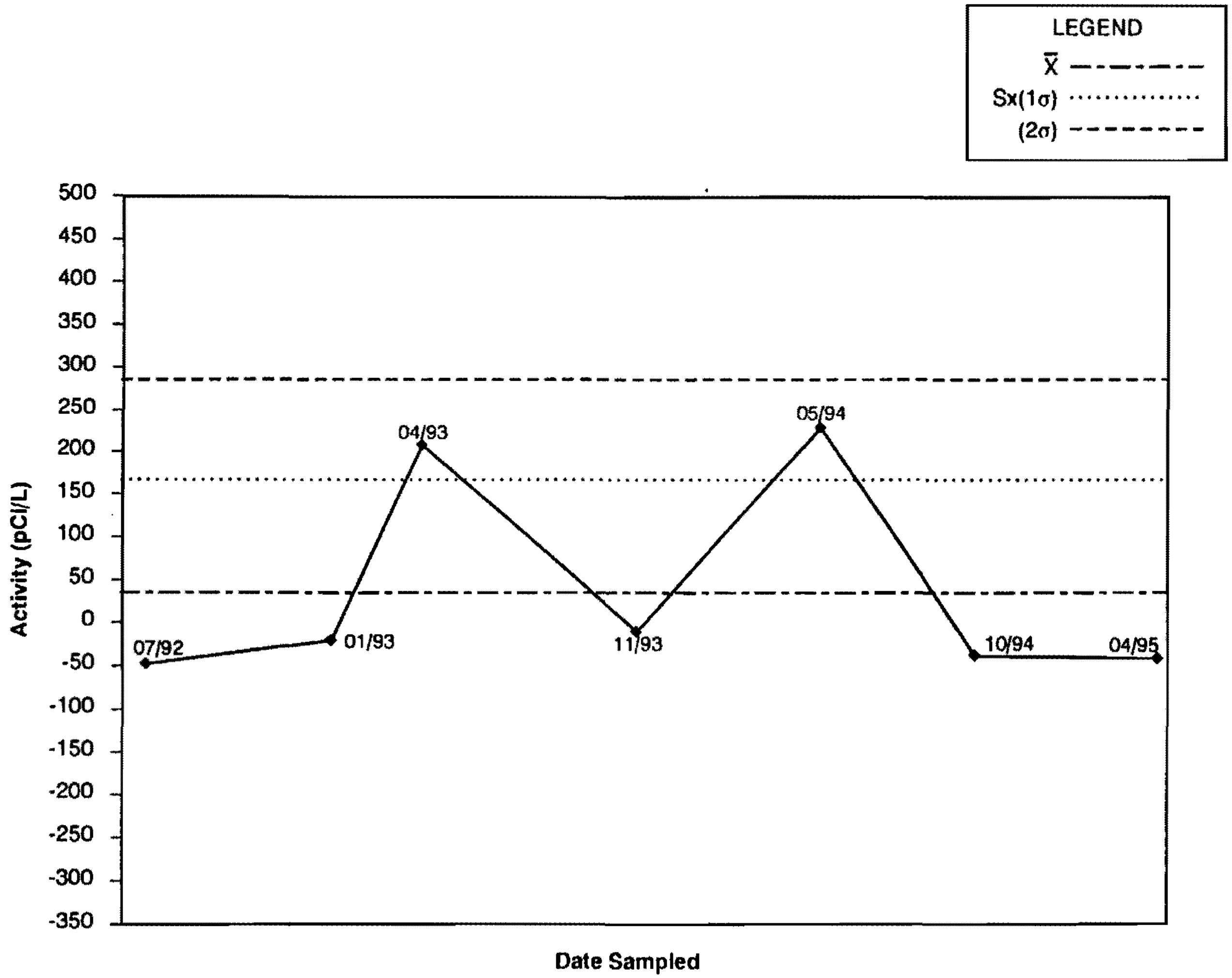


Tritium (MWL-BW1)



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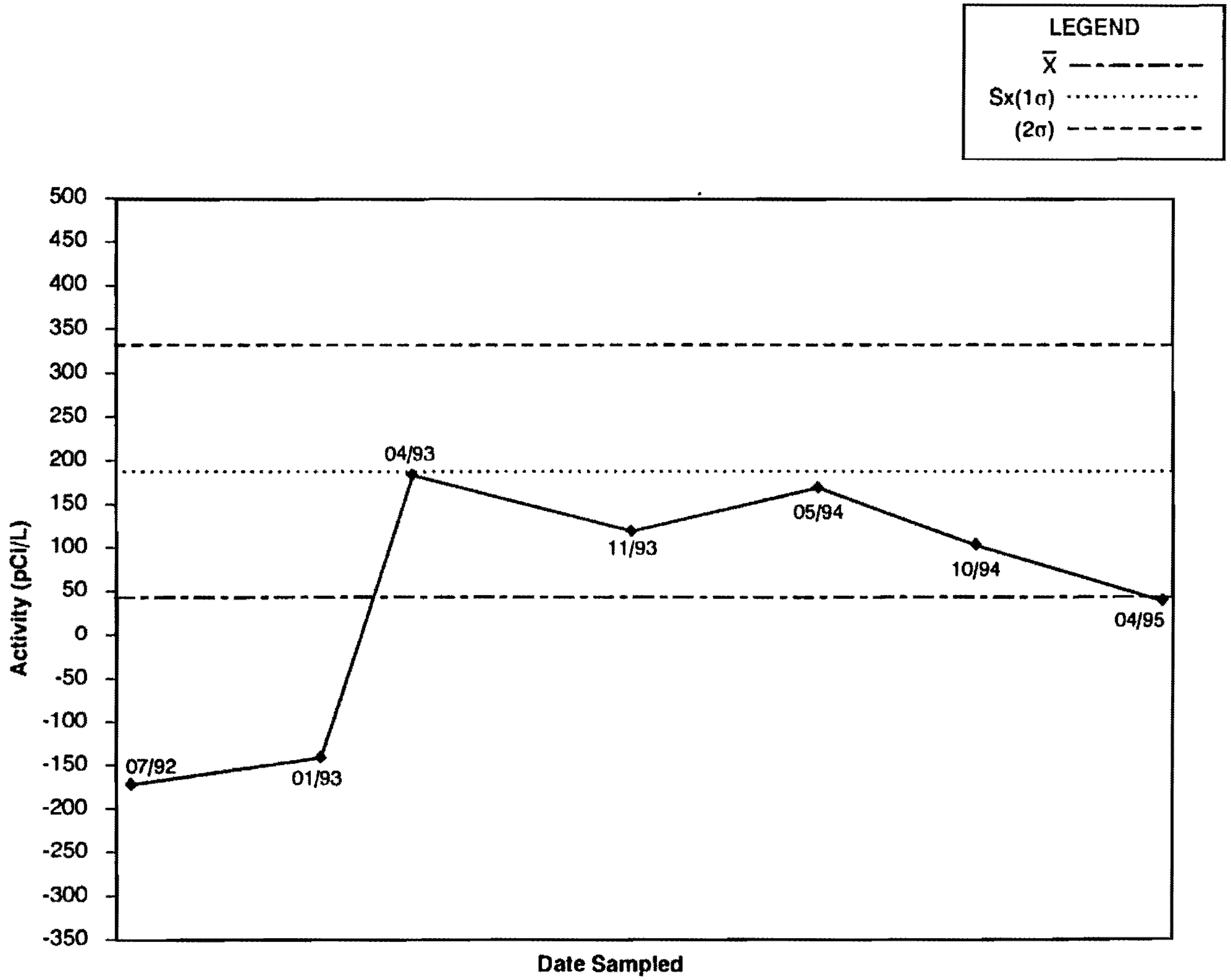

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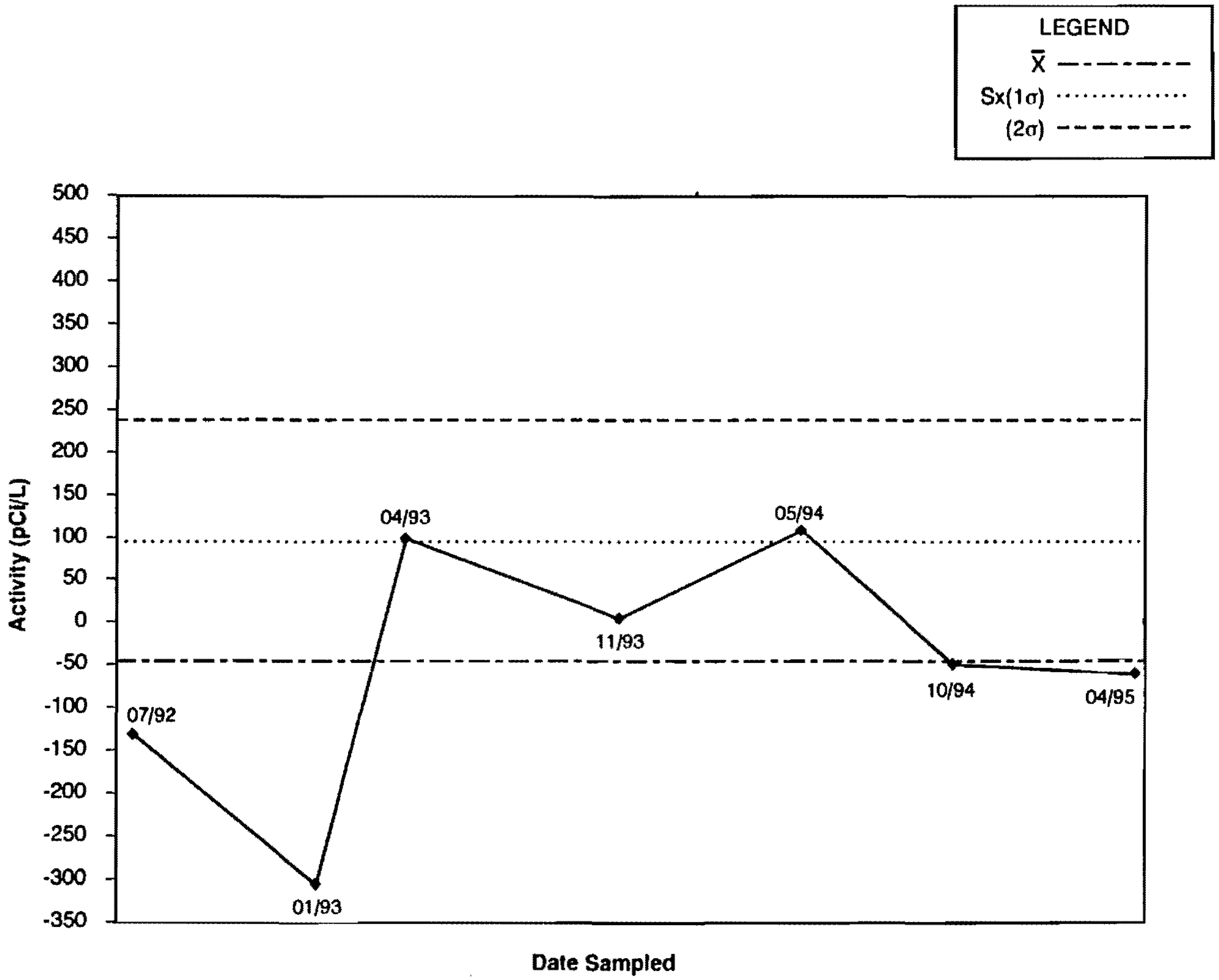

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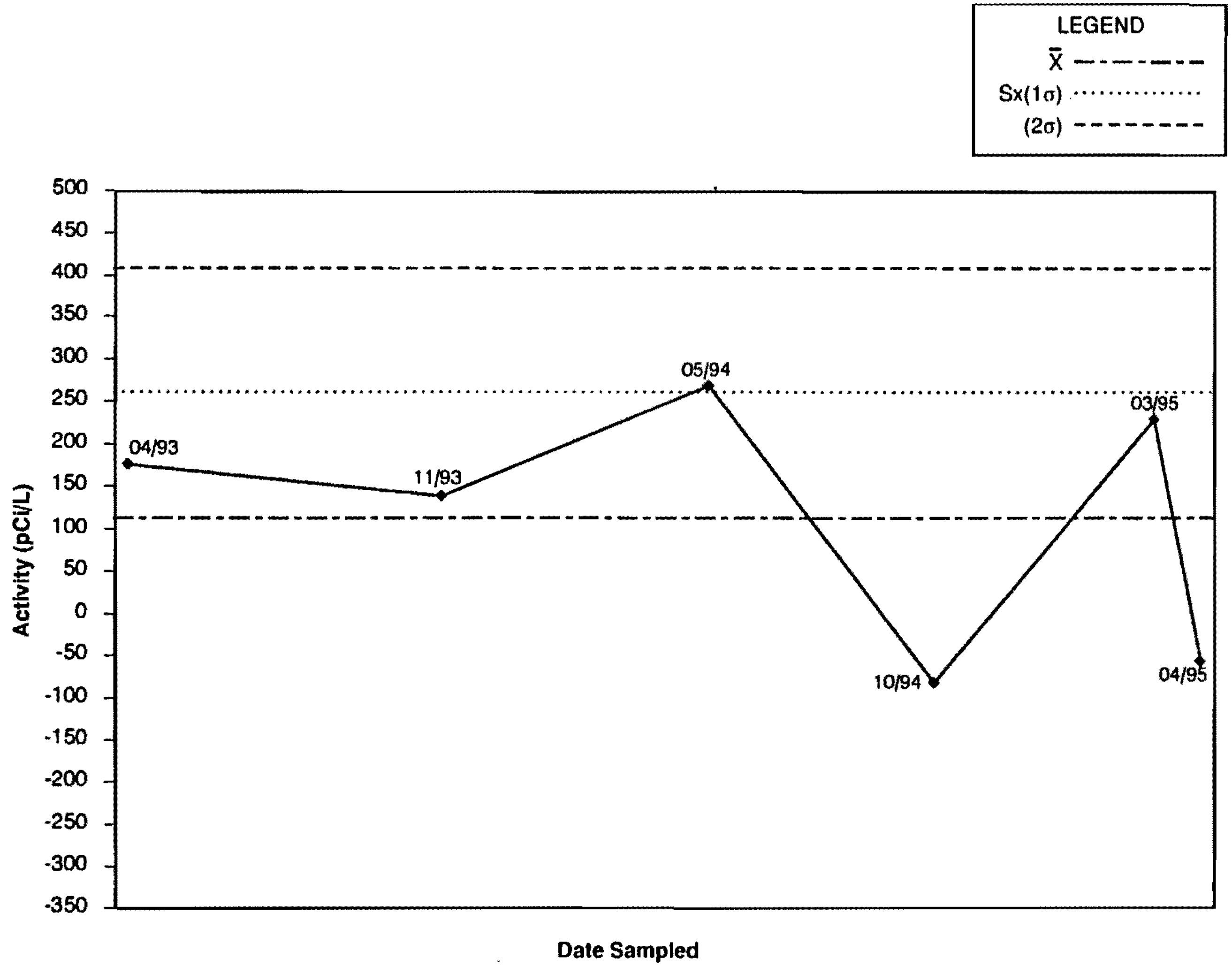

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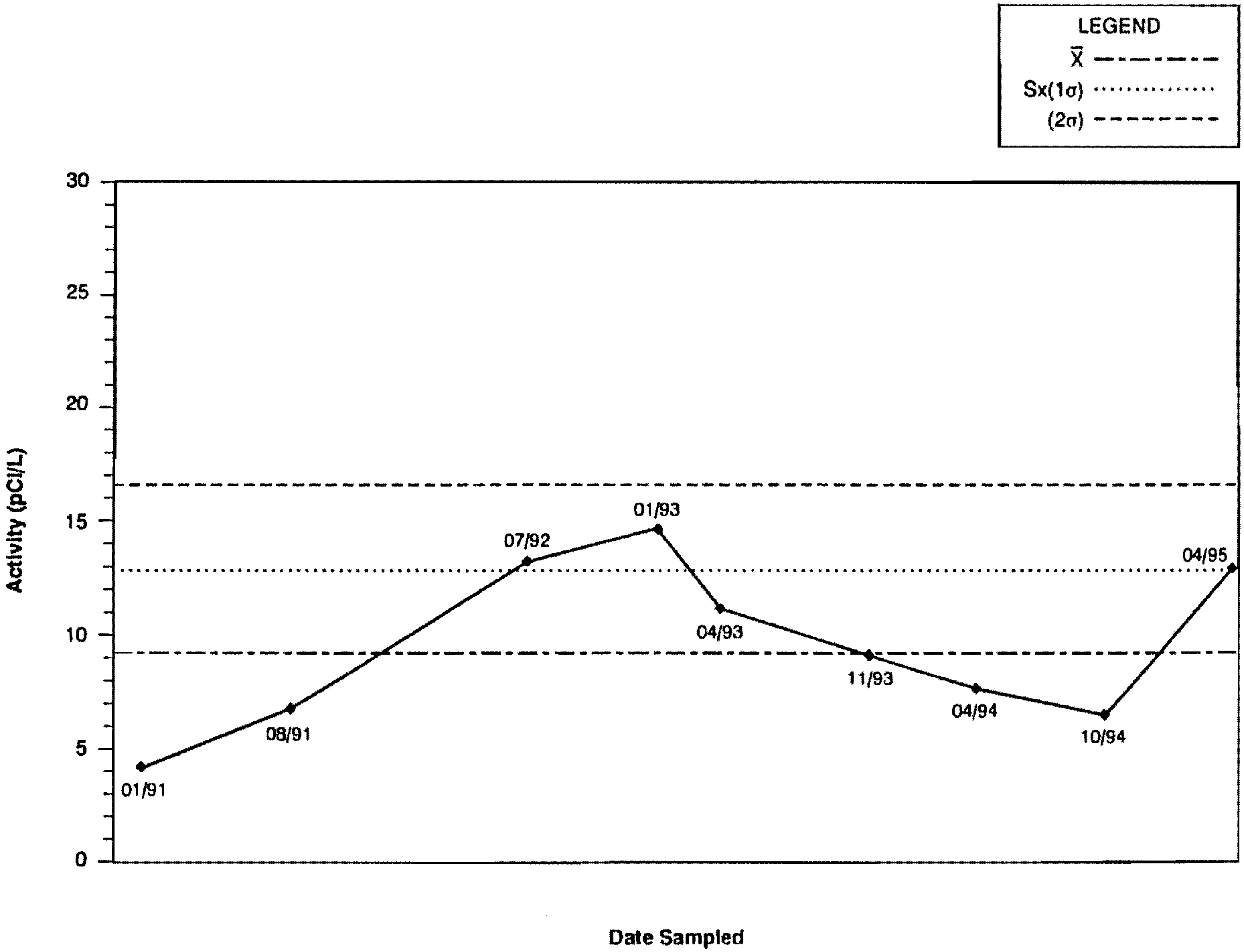
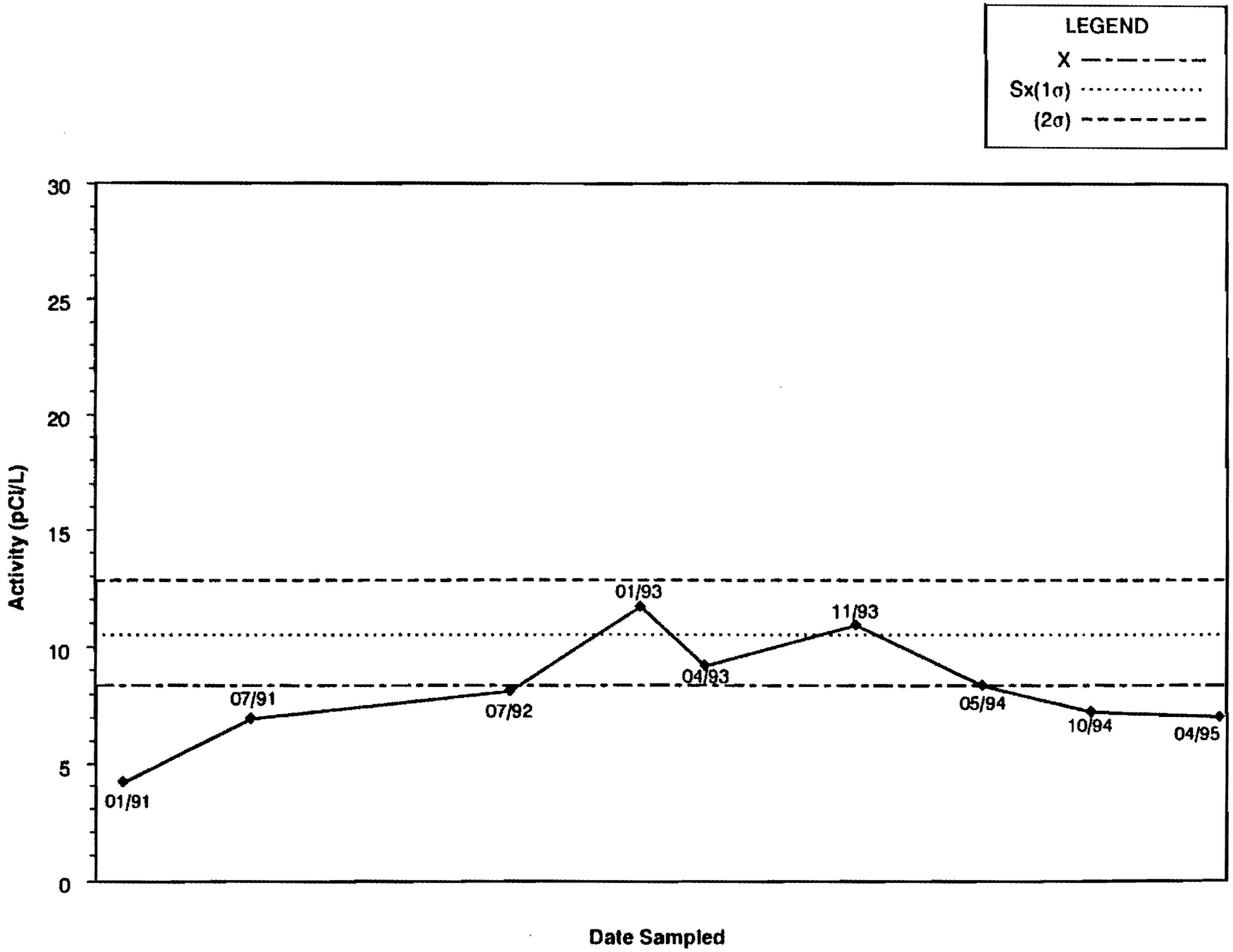


Gross Alpha (MWL-BW1)



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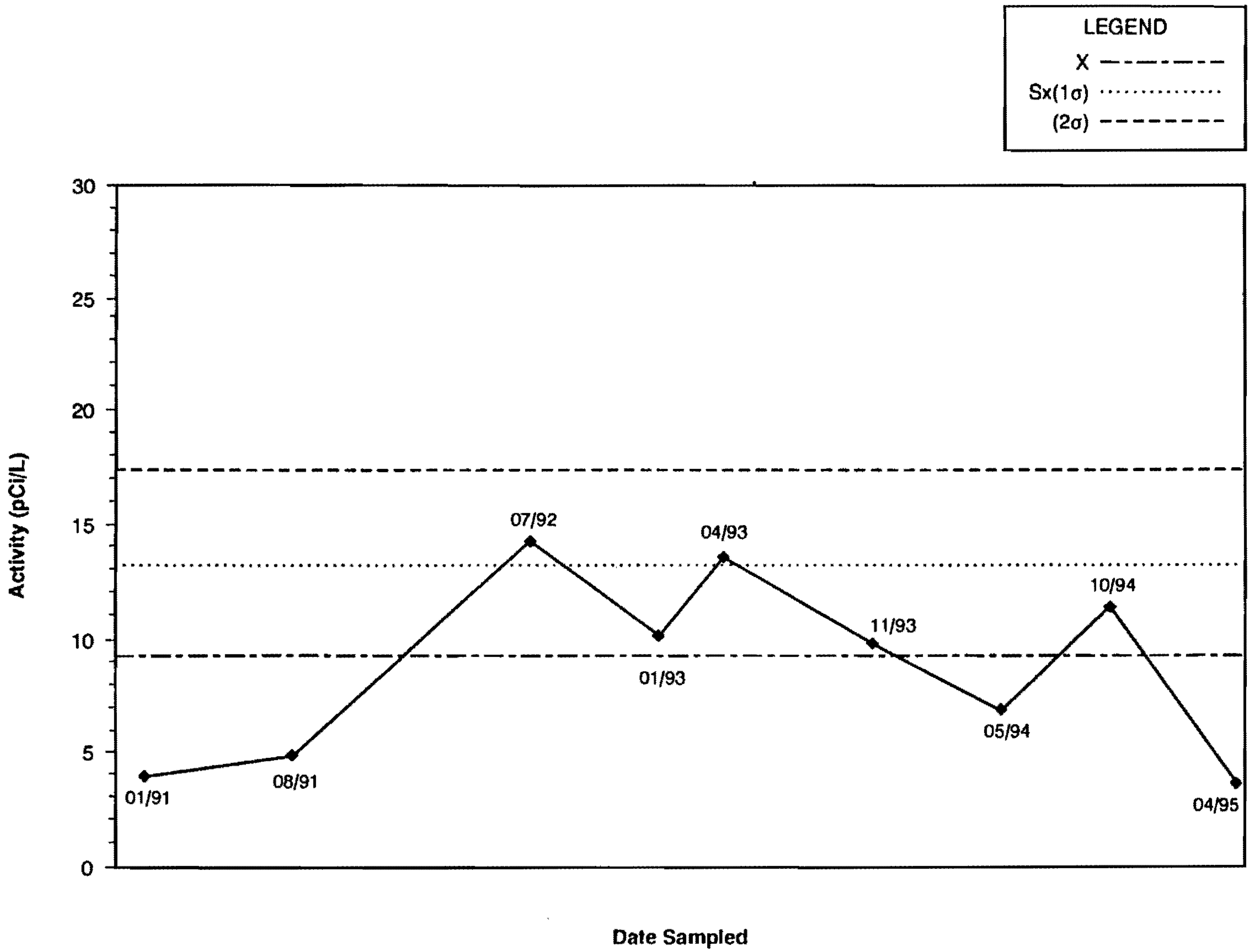

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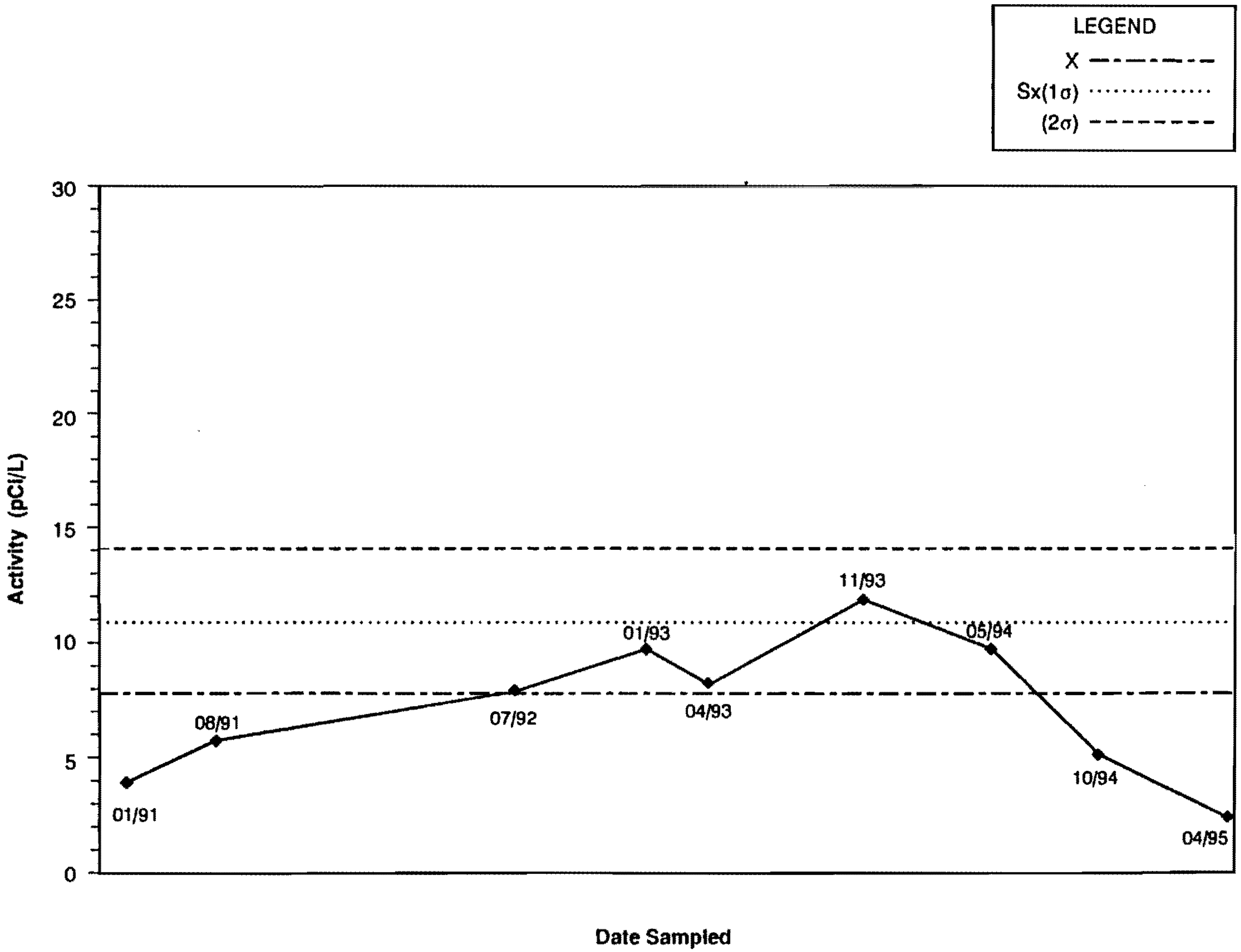

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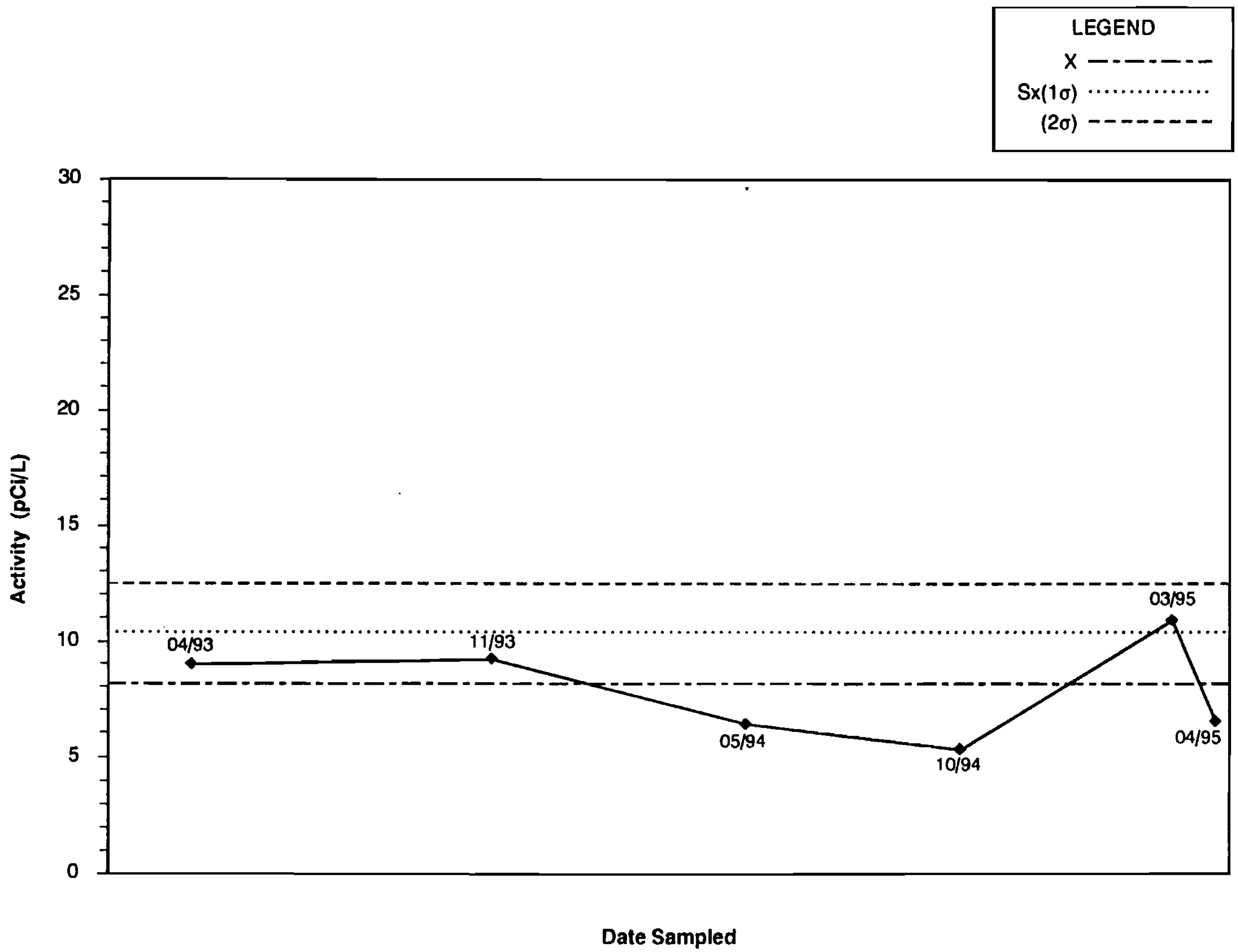

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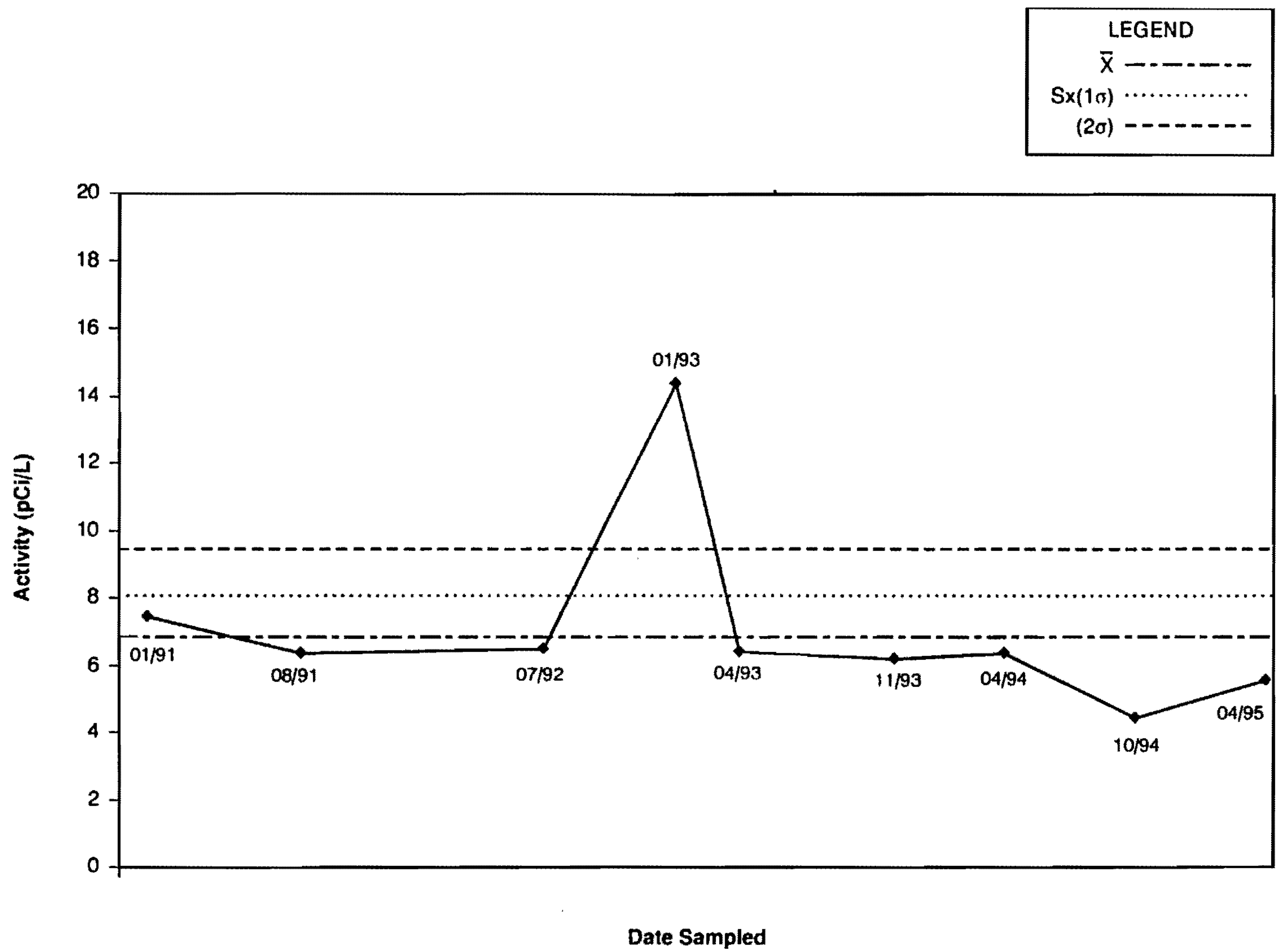

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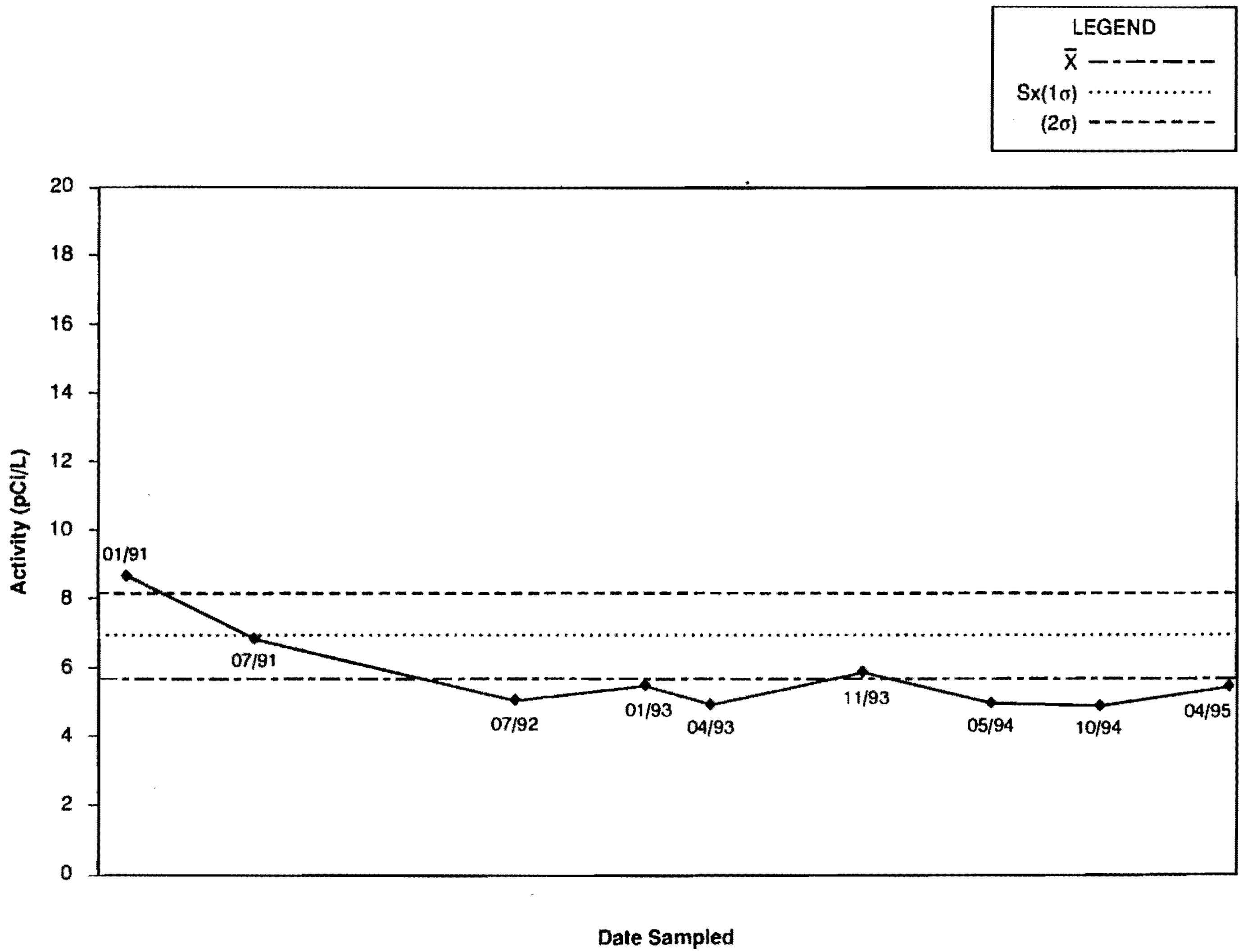

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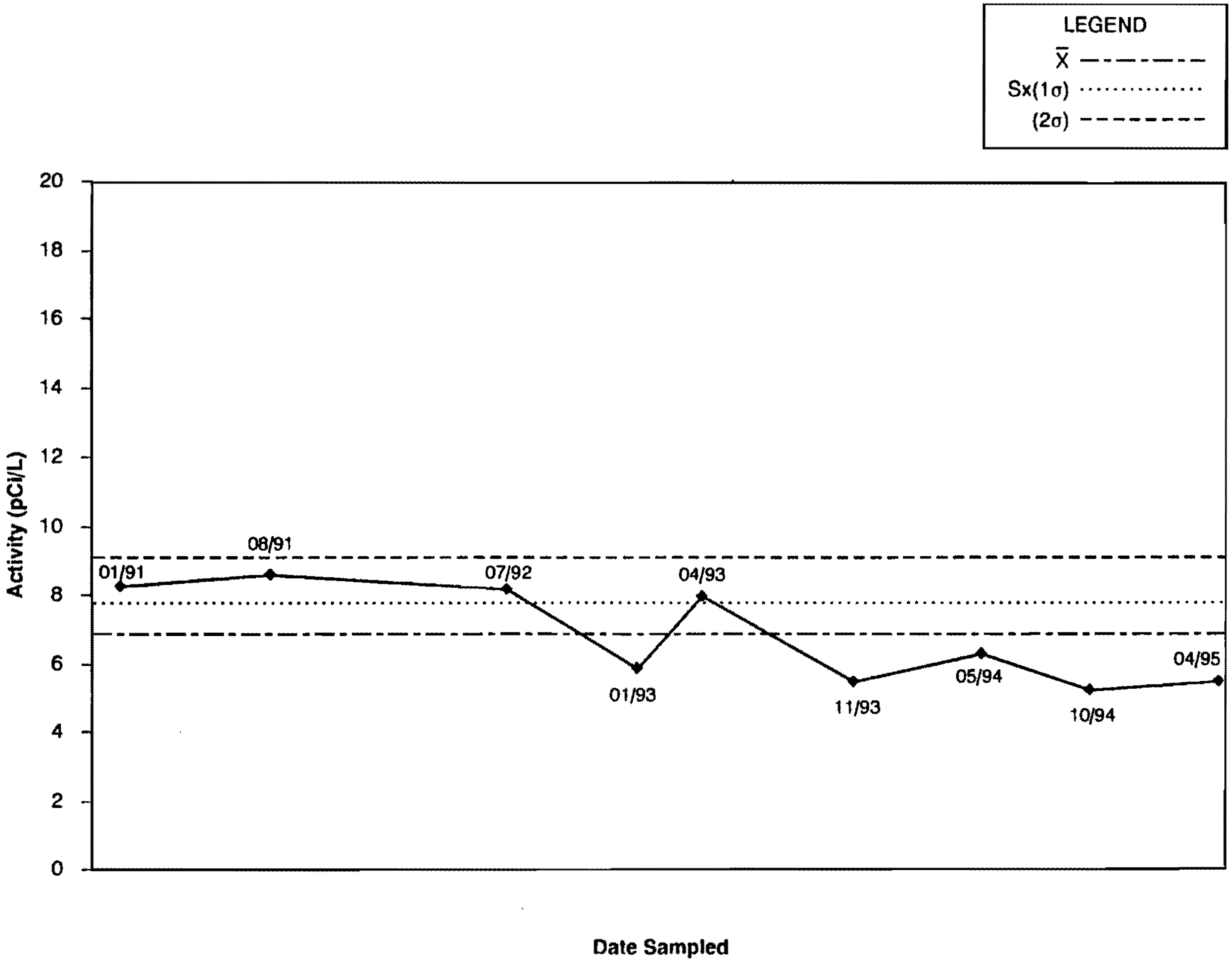

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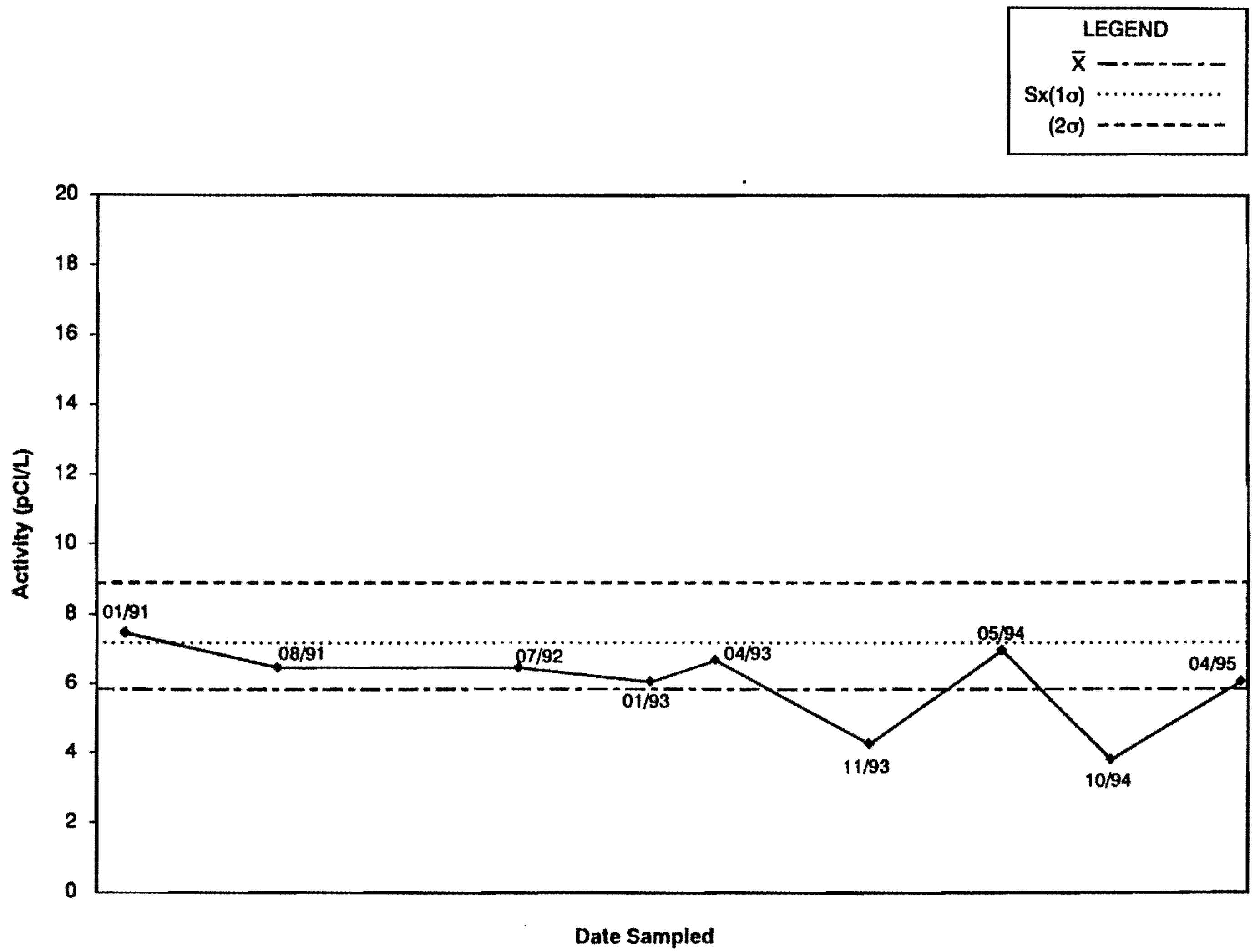
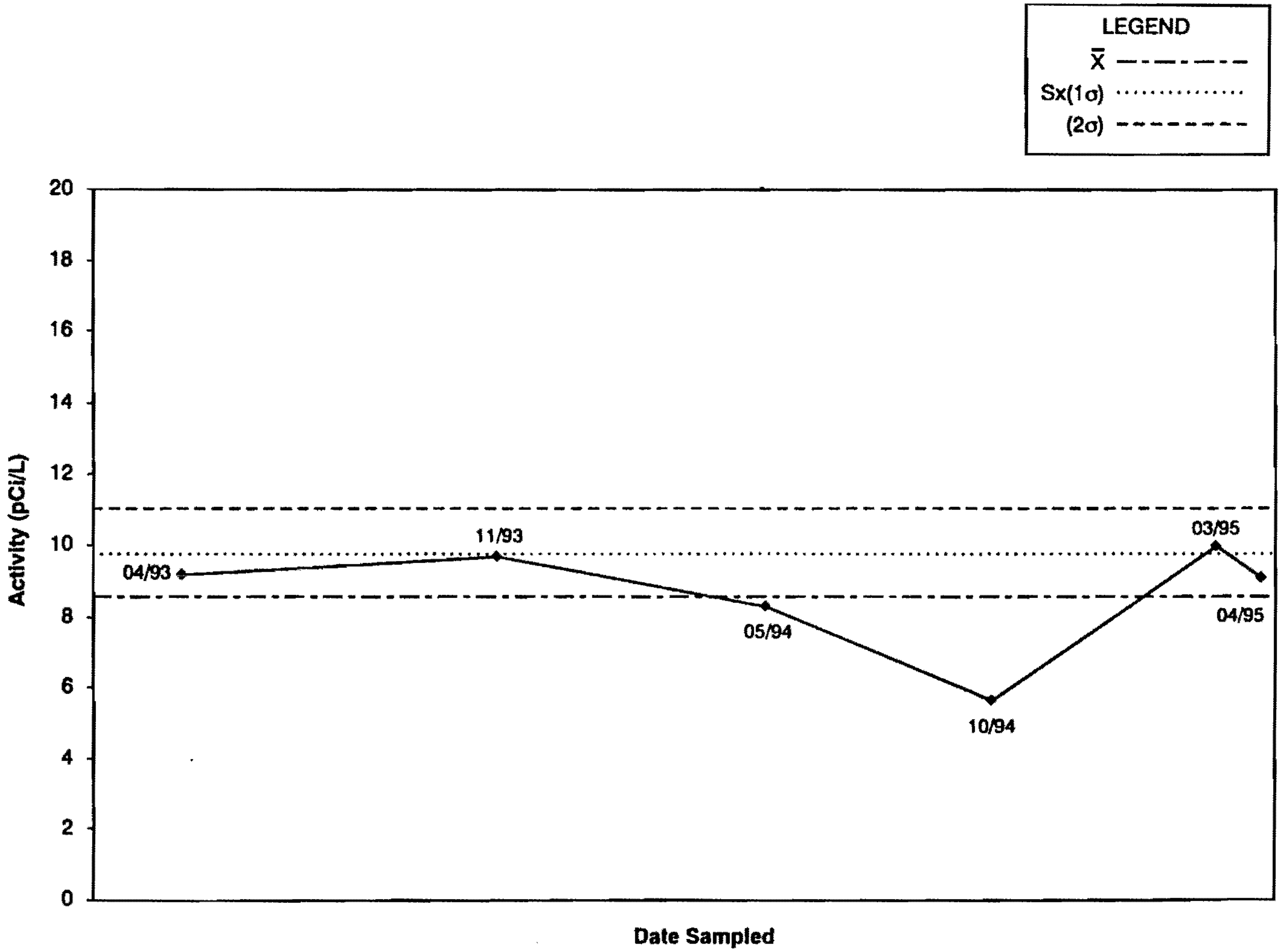


Gross Beta (MWL-MW3)



Gross Beta (MWL-MW4)

APPENDIX M

MWL Groundwater VOC and SVOC Data

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Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
1,1'[(1-METHYL-1,2-ETHANEDIYL)BIS(OXY)]BIS-2-PROPANOL	MWL-BW1	SNL0201531	27-OCT-94	0.012	2	0.002	F
1,1,1,2-TETRACHLOROETHANE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
1,1,1,2-TETRACHLOROETHANE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
1,1,1,2-TETRACHLOROETHANE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
1,1,1,2-TETRACHLOROETHANE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
1,1,1,2-TETRACHLOROETHANE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
1,1,1,2-TETRACHLOROETHANE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
1,1,1,2-TETRACHLOROETHANE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
1,1,1,2-TETRACHLOROETHANE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
1,1,1,2-TETRACHLOROETHANE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
1,1,1,2-TETRACHLOROETHANE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
1,1,1,2-TETRACHLOROETHANE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
1,1,1,2-TETRACHLOROETHANE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
1,1,1,2-TETRACHLOROETHANE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
1,1,1,2-TETRACHLOROETHANE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
1,1,1,2-TETRACHLOROETHANE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
1,1,1,2-TETRACHLOROETHANE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
1,1,1,2-TETRACHLOROETHANE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
1,1,1,2-TETRACHLOROETHANE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
1,1,1-TRICHLOROETHANE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-BW1	SNL0200789	29-JUL-92	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-BW1	SNL0201482	27-OCT-94	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-BW1	SNL0201512	27-OCT-94	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-BW1	SNL0201467	27-OCT-94	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
1,1,1-TRICHLOROETHANE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-BW1-D	SNL0200807	29-JUL-92	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-BW1-EB	SNL0201253	27-APR-94	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.005	U	0.005	TB
1,1,1-TRICHLOROETHANE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.005	U	0.005	TB
1,1,1-TRICHLOROETHANE	MWL-BW1-TB	SNL0201268	27-APR-94	0.005	U	0.005	TB
1,1,1-TRICHLOROETHANE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.005	U	0.005	TB
1,1,1-TRICHLOROETHANE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW1	SNL0200751	28-JUL-92	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW1	SNL0201305	03-MAY-94	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW1	SNL0201421	25-OCT-94	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW1	SNL0201437	25-OCT-94	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00102	F
1,1,1-TRICHLOROETHANE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00102	F
1,1,1-TRICHLOROETHANE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
1,1,1-TRICHLOROETHANE	MWL-MW1-D	SNL0201287	04-MAY-94	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW1-EB	SNL0201206	26-APR-94	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.005	U	0.005	TB
1,1,1-TRICHLOROETHANE	MWL-MW1-TB	SNL0201221	26-APR-94	0.005	U	0.005	TB
1,1,1-TRICHLOROETHANE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.005	U	0.005	TB
1,1,1-TRICHLOROETHANE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.005	U	0.005	TB
1,1,1-TRICHLOROETHANE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.005	U	0.005	TB
1,1,1-TRICHLOROETHANE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW2	SNL0200732	27-JUL-92	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW2	SNL0201269	02-MAY-94	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW2	SNL0201389	24-OCT-94	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00102	F
1,1,1-TRICHLOROETHANE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00102	F
1,1,1-TRICHLOROETHANE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.005	U	0.005	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
1,1,1-TRICHLOROETHANE	MWL-MW2-EB	SNL0201222	27-APR-94	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.005	U	0.005	TB
1,1,1-TRICHLOROETHANE	MWL-MW2-TB	SNL0201237	27-APR-94	0.005	U	0.005	TB
1,1,1-TRICHLOROETHANE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.005	U	0.005	TB
1,1,1-TRICHLOROETHANE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.005	U	0.005	TB
1,1,1-TRICHLOROETHANE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW3	SNL0200769	28-JUL-92	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW3	SNL0201323	03-MAY-94	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW3	SNL0201405	25-OCT-94	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00102	F
1,1,1-TRICHLOROETHANE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00102	F
1,1,1-TRICHLOROETHANE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
1,1,1-TRICHLOROETHANE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
1,1,1-TRICHLOROETHANE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW3-EB	SNL0201238	27-APR-94	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.005	U	0.005	TB
1,1,1-TRICHLOROETHANE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.005	U	0.005	TB
1,1,1-TRICHLOROETHANE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.005	U	0.005	TB
1,1,1-TRICHLOROETHANE	MWL-MW4	022154-01	19-APR-95	0.001	U	0.001	SA
1,1,1-TRICHLOROETHANE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00102	F
1,1,1-TRICHLOROETHANE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00102	F
1,1,1-TRICHLOROETHANE	MWL-MW4	022151-01	19-APR-95	0.005	U	0.00102	F
1,1,1-TRICHLOROETHANE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
1,1,1-TRICHLOROETHANE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
1,1,1-TRICHLOROETHANE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW4-TB	SNL0200919	21-APR-93	0.005	U	0.005	TB
1,1,1-TRICHLOROETHANE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.005	U	0.005	TB
1,1,1-TRICHLOROETHANE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
1,1,1-TRICHLOROETHANE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.005	U	0.005	TB
1,1,1-TRICHLOROETHANE	MWL-MW4C	SNL0201160	11-NOV-93	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
1,1,1-TRICHLOROETHANE	MWL-MW4U	SNL0201497	28-OCT-94	0.005	U	0.005	F
1,1,1-TRICHLOROETHANE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
1,1,2,2-TETRACHLOROETHANE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-BW1	SNL0200789	29-JUL-92	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-BW1	SNL0201482	27-OCT-94	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-BW1	SNL0201512	27-OCT-94	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-BW1	SNL0201467	27-OCT-94	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
1,1,2,2-TETRACHLOROETHANE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-BW1-D	SNL0200807	29-JUL-92	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-BW1-EB	SNL0201253	27-APR-94	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.005	U	0.005	TB
1,1,2,2-TETRACHLOROETHANE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.005	U	0.005	TB
1,1,2,2-TETRACHLOROETHANE	MWL-BW1-TB	SNL0201268	27-APR-94	0.005	U	0.005	TB
1,1,2,2-TETRACHLOROETHANE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.0035	J	0.005	TB
1,1,2,2-TETRACHLOROETHANE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW1	SNL0200751	28-JUL-92	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW1	SNL0201305	03-MAY-94	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW1	SNL0201421	25-OCT-94	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW1	SNL0201437	25-OCT-94	0.0041	J	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00117	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00117	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
1,1,2,2-TETRACHLOROETHANE	MWL-MW1-D	SNL0201287	04-MAY-94	0.005	U	0.005	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
1,1,2,2-TETRACHLOROETHANE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW1-EB	SNL0201206	26-APR-94	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.005	U	0.005	TB
1,1,2,2-TETRACHLOROETHANE	MWL-MW1-TB	SNL0201221	26-APR-94	0.005	U	0.005	TB
1,1,2,2-TETRACHLOROETHANE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.005	U	0.005	TB
1,1,2,2-TETRACHLOROETHANE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.005	U	0.005	TB
1,1,2,2-TETRACHLOROETHANE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.005	U	0.005	TB
1,1,2,2-TETRACHLOROETHANE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW2	SNL0200732	27-JUL-92	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW2	SNL0201269	02-MAY-94	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW2	SNL0201389	24-OCT-94	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00117	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00117	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW2-EB	SNL0201222	27-APR-94	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.005	U	0.005	TB
1,1,2,2-TETRACHLOROETHANE	MWL-MW2-TB	SNL0201237	27-APR-94	0.005	U	0.005	TB
1,1,2,2-TETRACHLOROETHANE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.005	U	0.005	TB
1,1,2,2-TETRACHLOROETHANE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.005	U	0.005	TB
1,1,2,2-TETRACHLOROETHANE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW3	SNL0200769	28-JUL-92	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW3	SNL0201323	03-MAY-94	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW3	SNL0201405	25-OCT-94	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00117	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00117	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
1,1,2,2-TETRACHLOROETHANE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
1,1,2,2-TETRACHLOROETHANE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW3-EB	SNL0201238	27-APR-94	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.005	U	0.005	TB
1,1,2,2-TETRACHLOROETHANE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.005	U	0.005	TB
1,1,2,2-TETRACHLOROETHANE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.005	U	0.005	TB
1,1,2,2-TETRACHLOROETHANE	MWL-MW4	022154-01	19-APR-95	0.005	U	0.005	SA
1,1,2,2-TETRACHLOROETHANE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00117	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW4	022151-01	19-APR-95	0.005	U	0.00117	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00117	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
1,1,2,2-TETRACHLOROETHANE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
1,1,2,2-TETRACHLOROETHANE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW4-TB	SNL0200919	21-APR-93	0.005	U	0.005	TB
1,1,2,2-TETRACHLOROETHANE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.005	U	0.005	TB
1,1,2,2-TETRACHLOROETHANE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
1,1,2,2-TETRACHLOROETHANE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.005	U	0.005	TB
1,1,2,2-TETRACHLOROETHANE	MWL-MW4C	SNL0201160	11-NOV-93	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
1,1,2,2-TETRACHLOROETHANE	MWL-MW4U	SNL0201497	28-OCT-94	0.005	U	0.005	F
1,1,2,2-TETRACHLOROETHANE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
1,1,2-TRICHLOROETHANE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-BW1	SNL0200789	29-JUL-92	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-BW1	SNL0201482	27-OCT-94	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-BW1	SNL0201512	27-OCT-94	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-BW1	SNL0201467	27-OCT-94	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
1,1,2-TRICHLOROETHANE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-BW1-D	SNL0200807	29-JUL-92	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.005	U	0.005	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
1,1,2-TRICHLOROETHANE	MWL-BW1-EB	SNL0201253	27-APR-94	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.005	U	0.005	TB
1,1,2-TRICHLOROETHANE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.005	U	0.005	TB
1,1,2-TRICHLOROETHANE	MWL-BW1-TB	SNL0201268	27-APR-94	0.005	U	0.005	TB
1,1,2-TRICHLOROETHANE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.005	U	0.005	TB
1,1,2-TRICHLOROETHANE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW1	SNL0200751	28-JUL-92	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW1	SNL0201305	03-MAY-94	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW1	SNL0201421	25-OCT-94	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW1	SNL0201437	25-OCT-94	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00137	F
1,1,2-TRICHLOROETHANE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00137	F
1,1,2-TRICHLOROETHANE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
1,1,2-TRICHLOROETHANE	MWL-MW1-D	SNL0201287	04-MAY-94	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW1-EB	SNL0201206	26-APR-94	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.005	U	0.005	TB
1,1,2-TRICHLOROETHANE	MWL-MW1-TB	SNL0201221	26-APR-94	0.005	U	0.005	TB
1,1,2-TRICHLOROETHANE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.005	U	0.005	TB
1,1,2-TRICHLOROETHANE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.005	U	0.005	TB
1,1,2-TRICHLOROETHANE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.005	U	0.005	TB
1,1,2-TRICHLOROETHANE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW2	SNL0200732	27-JUL-92	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW2	SNL0201269	02-MAY-94	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW2	SNL0201389	24-OCT-94	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00137	F
1,1,2-TRICHLOROETHANE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00137	F
1,1,2-TRICHLOROETHANE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW2-EB	SNL0201222	27-APR-94	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.005	U	0.005	TB
1,1,2-TRICHLOROETHANE	MWL-MW2-TB	SNL0201237	27-APR-94	0.005	U	0.005	TB
1,1,2-TRICHLOROETHANE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.005	U	0.005	TB
1,1,2-TRICHLOROETHANE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.005	U	0.005	TB
1,1,2-TRICHLOROETHANE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW3	SNL0200769	28-JUL-92	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW3	SNL0201323	03-MAY-94	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW3	SNL0201405	25-OCT-94	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00137	F
1,1,2-TRICHLOROETHANE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00137	F
1,1,2-TRICHLOROETHANE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
1,1,2-TRICHLOROETHANE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
1,1,2-TRICHLOROETHANE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW3-EB	SNL0201238	27-APR-94	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.005	U	0.005	TB
1,1,2-TRICHLOROETHANE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.005	U	0.005	TB
1,1,2-TRICHLOROETHANE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.005	U	0.005	TB
1,1,2-TRICHLOROETHANE	MWL-MW4	022154-01	19-APR-95	0.001	U	0.001	SA
1,1,2-TRICHLOROETHANE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00137	F
1,1,2-TRICHLOROETHANE	MWL-MW4	022151-01	19-APR-95	0.005	U	0.00137	F
1,1,2-TRICHLOROETHANE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00137	F
1,1,2-TRICHLOROETHANE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
1,1,2-TRICHLOROETHANE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
1,1,2-TRICHLOROETHANE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW4-TB	SNL0200919	21-APR-93	0.005	U	0.005	TB

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
1,1,2-TRICHLOROETHANE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.005	U	0.005	TB
1,1,2-TRICHLOROETHANE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
1,1,2-TRICHLOROETHANE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.005	U	0.005	TB
1,1,2-TRICHLOROETHANE	MWL-MW4C	SNL0201160	11-NOV-93	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
1,1,2-TRICHLOROETHANE	MWL-MW4U	SNL0201497	28-OCT-94	0.005	U	0.005	F
1,1,2-TRICHLOROETHANE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
1,1-DICHLOROETHANE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-BW1	SNL0200789	29-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-BW1	SNL0201482	27-OCT-94	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-BW1	SNL0201512	27-OCT-94	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-BW1	SNL0201467	27-OCT-94	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
1,1-DICHLOROETHANE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-BW1-D	SNL0200807	29-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-BW1-EB	SNL0201253	27-APR-94	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.005	U	0.005	TB
1,1-DICHLOROETHANE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.005	U	0.005	TB
1,1-DICHLOROETHANE	MWL-BW1-TB	SNL0201268	27-APR-94	0.005	U	0.005	TB
1,1-DICHLOROETHANE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.005	U	0.005	TB
1,1-DICHLOROETHANE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW1	SNL0200751	28-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW1	SNL0201305	03-MAY-94	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW1	SNL0201421	25-OCT-94	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW1	SNL0201437	25-OCT-94	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00088	F
1,1-DICHLOROETHANE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00088	F
1,1-DICHLOROETHANE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
1,1-DICHLOROETHANE	MWL-MW1-D	SNL0201287	04-MAY-94	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW1-EB	SNL0201206	26-APR-94	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.005	U	0.005	TB
1,1-DICHLOROETHANE	MWL-MW1-TB	SNL0201221	26-APR-94	0.005	U	0.005	TB
1,1-DICHLOROETHANE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.005	U	0.005	TB
1,1-DICHLOROETHANE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.005	U	0.005	TB
1,1-DICHLOROETHANE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.005	U	0.005	TB
1,1-DICHLOROETHANE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW2	SNL0200732	27-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW2	SNL0201269	02-MAY-94	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW2	SNL0201389	24-OCT-94	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00088	F
1,1-DICHLOROETHANE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00088	F
1,1-DICHLOROETHANE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW2-EB	SNL0201222	27-APR-94	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.005	U	0.005	TB
1,1-DICHLOROETHANE	MWL-MW2-TB	SNL0201237	27-APR-94	0.005	U	0.005	TB
1,1-DICHLOROETHANE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.005	U	0.005	TB
1,1-DICHLOROETHANE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.005	U	0.005	TB
1,1-DICHLOROETHANE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW3	SNL0200769	28-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW3	SNL0201323	03-MAY-94	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW3	SNL0201405	25-OCT-94	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00088	F
1,1-DICHLOROETHANE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00088	F
1,1-DICHLOROETHANE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
1,1-DICHLOROETHANE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
1,1-DICHLOROETHANE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW3-EB	SNL0201238	27-APR-94	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.005	U	0.005	TB
1,1-DICHLOROETHANE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.005	U	0.005	TB
1,1-DICHLOROETHANE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.005	U	0.005	TB
1,1-DICHLOROETHANE	MWL-MW4	022154-01	19-APR-95	0.001	U	0.001	SA
1,1-DICHLOROETHANE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00088	F
1,1-DICHLOROETHANE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00088	F
1,1-DICHLOROETHANE	MWL-MW4	022151-01	19-APR-95	0.005	U	0.00088	F
1,1-DICHLOROETHANE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
1,1-DICHLOROETHANE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
1,1-DICHLOROETHANE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW4-TB	SNL0200919	21-APR-93	0.005	U	0.005	TB
1,1-DICHLOROETHANE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.005	U	0.005	TB
1,1-DICHLOROETHANE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
1,1-DICHLOROETHANE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.005	U	0.005	TB
1,1-DICHLOROETHANE	MWL-MW4C	SNL0201160	11-NOV-93	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
1,1-DICHLOROETHANE	MWL-MW4U	SNL0201497	28-OCT-94	0.005	U	0.005	F
1,1-DICHLOROETHANE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
1,1-DICHLOROETHENE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-BW1	SNL0200789	29-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-BW1	SNL0201482	27-OCT-94	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-BW1	SNL0201512	27-OCT-94	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-BW1	SNL0201467	27-OCT-94	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
1,1-DICHLOROETHENE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-BW1-D	SNL0200807	29-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-BW1-EB	SNL0201253	27-APR-94	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.005	U	0.005	TB
1,1-DICHLOROETHENE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.005	U	0.005	TB
1,1-DICHLOROETHENE	MWL-BW1-TB	SNL0201268	27-APR-94	0.005	U	0.005	TB
1,1-DICHLOROETHENE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.005	U	0.005	TB
1,1-DICHLOROETHENE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW1	SNL0200751	28-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW1	SNL0201305	03-MAY-94	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW1	SNL0201421	25-OCT-94	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW1	SNL0201437	25-OCT-94	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.0017	F
1,1-DICHLOROETHENE	MWL-MW1	022149-01	19-APR-95	0.047		0.0017	SD
1,1-DICHLOROETHENE	MWL-MW1	022149-01	19-APR-95	0.047		0.0017	SD
1,1-DICHLOROETHENE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.0017	F
1,1-DICHLOROETHENE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
1,1-DICHLOROETHENE	MWL-MW1-D	SNL0201287	04-MAY-94	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW1-EB	SNL0201206	26-APR-94	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.005	U	0.005	TB
1,1-DICHLOROETHENE	MWL-MW1-TB	SNL0201221	26-APR-94	0.005	U	0.005	TB
1,1-DICHLOROETHENE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.005	U	0.005	TB
1,1-DICHLOROETHENE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.005	U	0.005	TB
1,1-DICHLOROETHENE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.005	U	0.005	TB
1,1-DICHLOROETHENE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW2	SNL0200732	27-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW2	SNL0201269	02-MAY-94	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW2	SNL0201389	24-OCT-94	0.005	U	0.005	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
1,1-DICHLOROETHENE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.0017	F
1,1-DICHLOROETHENE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.0017	F
1,1-DICHLOROETHENE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW2-EB	SNL0201222	27-APR-94	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.005	U	0.005	TB
1,1-DICHLOROETHENE	MWL-MW2-TB	SNL0201237	27-APR-94	0.005	U	0.005	TB
1,1-DICHLOROETHENE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.005	U	0.005	TB
1,1-DICHLOROETHENE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.005	U	0.005	TB
1,1-DICHLOROETHENE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW3	SNL0200769	28-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW3	SNL0201323	03-MAY-94	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW3	SNL0201405	25-OCT-94	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.0017	F
1,1-DICHLOROETHENE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.0017	F
1,1-DICHLOROETHENE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
1,1-DICHLOROETHENE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
1,1-DICHLOROETHENE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW3-EB	SNL0201238	27-APR-94	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.005	U	0.005	TB
1,1-DICHLOROETHENE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.005	U	0.005	TB
1,1-DICHLOROETHENE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.005	U	0.005	TB
1,1-DICHLOROETHENE	MWL-MW4	022154-01	19-APR-95	0.001	U	0.001	SA
1,1-DICHLOROETHENE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.0017	F
1,1-DICHLOROETHENE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.0017	F
1,1-DICHLOROETHENE	MWL-MW4	022151-01	19-APR-95	0.005	U	0.0017	F
1,1-DICHLOROETHENE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
1,1-DICHLOROETHENE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
1,1-DICHLOROETHENE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW4-TB	SNL0200919	21-APR-93	0.005	U	0.005	TB
1,1-DICHLOROETHENE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.005	U	0.005	TB
1,1-DICHLOROETHENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
1,1-DICHLOROETHENE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.005	U	0.005	TB
1,1-DICHLOROETHENE	MWL-MW4C	SNL0201160	11-NOV-93	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
1,1-DICHLOROETHENE	MWL-MW4U	SNL0201497	28-OCT-94	0.005	U	0.005	F
1,1-DICHLOROETHENE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
1,1-DICHLOROPROPENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
1,1-DICHLOROPROPENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
1,2,3-TRICHLOROBENZENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
1,2,3-TRICHLOROBENZENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
1,2,3-TRICHLOROPROPANE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
1,2,3-TRICHLOROPROPANE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
1,2,3-TRICHLOROPROPANE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
1,2,3-TRICHLOROPROPANE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
1,2,3-TRICHLOROPROPANE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
1,2,3-TRICHLOROPROPANE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
1,2,3-TRICHLOROPROPANE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
1,2,3-TRICHLOROPROPANE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
1,2,3-TRICHLOROPROPANE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
1,2,3-TRICHLOROPROPANE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
1,2,3-TRICHLOROPROPANE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
1,2,3-TRICHLOROPROPANE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
1,2,3-TRICHLOROPROPANE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
1,2,3-TRICHLOROPROPANE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
1,2,3-TRICHLOROPROPANE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
1,2,3-TRICHLOROPROPANE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
1,2,3-TRICHLOROPROPANE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
1,2,3-TRICHLOROPROPANE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
1,2,4,5-TETRACHLOROBENZENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
1,2,4,5-TETRACHLOROBENZENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
1,2,4,5-TETRACHLOROBENZENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
1,2,4,5-TETRACHLOROBENZENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
1,2,4-TRICHLOROBENZENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00112196	F
1,2,4-TRICHLOROBENZENE	MWL-MW1	022149-02	19-APR-95	0.021		0.00112196	SD
1,2,4-TRICHLOROBENZENE	MWL-MW1	022149-02	19-APR-95	0.021		0.00112196	SD
1,2,4-TRICHLOROBENZENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00112196	F
1,2,4-TRICHLOROBENZENE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
1,2,4-TRICHLOROBENZENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00112196	F
1,2,4-TRICHLOROBENZENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00112196	F
1,2,4-TRICHLOROBENZENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00112196	F
1,2,4-TRICHLOROBENZENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00112196	F
1,2,4-TRICHLOROBENZENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
1,2,4-TRICHLOROBENZENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00112196	F
1,2,4-TRICHLOROBENZENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00112196	F
1,2,4-TRICHLOROBENZENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00112196	F
1,2,4-TRICHLOROBENZENE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
1,2,4-TRICHLOROBENZENE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
1,2,4-TRICHLOROBENZENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
1,2,4-TRICHLOROBENZENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
1,2,4-TRICHLOROBENZENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
1,2,4-TRICHLOROBENZENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
1,2,4-TRIMETHYLBENZENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
1,2,4-TRIMETHYLBENZENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
1,2-DIBROMO-3-CHLOROPROPANE	MWL-BW1	SNL0200002	27-SEP-90	0.01	U	0.01	F
1,2-DIBROMO-3-CHLOROPROPANE	MWL-BW1	SNL0200637	17-JUL-92	0.01	U	0.01	F
1,2-DIBROMO-3-CHLOROPROPANE	MWL-BW1-D	SNL0200009	27-SEP-90	0.01	U	0.01	F
1,2-DIBROMO-3-CHLOROPROPANE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.01	U	0.01	F
1,2-DIBROMO-3-CHLOROPROPANE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.01	U	0.01	F
1,2-DIBROMO-3-CHLOROPROPANE	MWL-MW1	SNL0200638	17-JUL-92	0.01	U	0.01	F
1,2-DIBROMO-3-CHLOROPROPANE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.01	U	0.01	F
1,2-DIBROMO-3-CHLOROPROPANE	MWL-MW2	SNL0200079	28-SEP-90	0.01	U	0.01	F
1,2-DIBROMO-3-CHLOROPROPANE	MWL-MW2	SNL0200639	17-JUL-92	0.01	U	0.01	F
1,2-DIBROMO-3-CHLOROPROPANE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.01	U	0.01	F
1,2-DIBROMO-3-CHLOROPROPANE	MWL-MW3	SNL0200054	28-SEP-90	0.01	U	0.01	F
1,2-DIBROMO-3-CHLOROPROPANE	MWL-MW3	SNL0200640	17-JUL-92	0.01	U	0.01	F
1,2-DIBROMO-3-CHLOROPROPANE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.01	U	0.01	F
1,2-DIBROMO-3-CHLOROPROPANE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.01	U	0.01	F
1,2-DIBROMO-3-CHLOROPROPANE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.01	U	0.01	F
1,2-DIBROMO-3-CHLOROPROPANE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
1,2-DIBROMO-3-CHLOROPROPANE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
1,2-DIBROMO-3-CHLOROPROPANE	MWL-TB	SNL0200636	18-JUL-92	0.01	U	0.01	TB
1,2-DIBROMOETHANE	MWL-BW1	SNL0200002	27-SEP-90	0.01	U	0.01	F
1,2-DIBROMOETHANE	MWL-BW1	SNL0200637	17-JUL-92	0.01	U	0.01	F
1,2-DIBROMOETHANE	MWL-BW1-D	SNL0200009	27-SEP-90	0.01	U	0.01	F
1,2-DIBROMOETHANE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.01	U	0.01	F
1,2-DIBROMOETHANE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.01	U	0.01	F
1,2-DIBROMOETHANE	MWL-MW1	SNL0200638	17-JUL-92	0.01	U	0.01	F
1,2-DIBROMOETHANE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.01	U	0.01	F
1,2-DIBROMOETHANE	MWL-MW2	SNL0200079	28-SEP-90	0.01	U	0.01	F
1,2-DIBROMOETHANE	MWL-MW2	SNL0200639	17-JUL-92	0.01	U	0.01	F
1,2-DIBROMOETHANE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.01	U	0.01	F
1,2-DIBROMOETHANE	MWL-MW3	SNL0200054	28-SEP-90	0.01	U	0.01	F
1,2-DIBROMOETHANE	MWL-MW3	SNL0200640	17-JUL-92	0.01	U	0.01	F
1,2-DIBROMOETHANE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.01	U	0.01	F
1,2-DIBROMOETHANE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.01	U	0.01	F
1,2-DIBROMOETHANE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.01	U	0.01	F
1,2-DIBROMOETHANE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.002	U	0.002	TB
1,2-DIBROMOETHANE	MWL-MW4U	SNL0201340	31-MAY-94	0.002	U	0.002	F
1,2-DIBROMOETHANE	MWL-TB	SNL0200636	18-JUL-92	0.01	U	0.01	TB
1,2-DICHLOROBENZENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
1,2-DICHLOROBENZENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00151831	F
1,2-DICHLOROBENZENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00151831	F
1,2-DICHLOROBENZENE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
1,2-DICHLOROBENZENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00151831	F
1,2-DICHLOROBENZENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00151831	F
1,2-DICHLOROBENZENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00151831	F
1,2-DICHLOROBENZENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00151831	F
1,2-DICHLOROBENZENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
1,2-DICHLOROBENZENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00151831	F
1,2-DICHLOROBENZENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00151831	F
1,2-DICHLOROBENZENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00151831	F
1,2-DICHLOROBENZENE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
1,2-DICHLOROBENZENE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
1,2-DICHLOROBENZENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
1,2-DICHLOROBENZENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
1,2-DICHLOROBENZENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
1,2-DICHLOROBENZENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
1,2-DICHLOROETHANE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
1,2-DICHLOROETHANE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-BW1	SNL0200789	29-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-BW1	SNL0201512	27-OCT-94	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-BW1	SNL0201467	27-OCT-94	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-BW1	SNL0201482	27-OCT-94	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
1,2-DICHLOROETHANE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-BW1-D	SNL0200807	29-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-BW1-EB	SNL0201253	27-APR-94	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.005	U	0.005	TB
1,2-DICHLOROETHANE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.005	U	0.005	TB
1,2-DICHLOROETHANE	MWL-BW1-TB	SNL0201268	27-APR-94	0.005	U	0.005	TB
1,2-DICHLOROETHANE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.005	U	0.005	TB
1,2-DICHLOROETHANE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW1	SNL0200751	28-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW1	SNL0201305	03-MAY-94	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW1	SNL0201421	25-OCT-94	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW1	SNL0201437	25-OCT-94	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00088	F
1,2-DICHLOROETHANE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00088	F
1,2-DICHLOROETHANE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
1,2-DICHLOROETHANE	MWL-MW1-D	SNL0201287	04-MAY-94	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW1-EB	SNL0201206	26-APR-94	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.005	U	0.005	TB
1,2-DICHLOROETHANE	MWL-MW1-TB	SNL0201221	26-APR-94	0.005	U	0.005	TB
1,2-DICHLOROETHANE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.005	U	0.005	TB
1,2-DICHLOROETHANE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.005	U	0.005	TB
1,2-DICHLOROETHANE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.005	U	0.005	TB
1,2-DICHLOROETHANE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW2	SNL0200732	27-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW2	SNL0201269	02-MAY-94	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW2	SNL0201389	24-OCT-94	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00088	F
1,2-DICHLOROETHANE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00088	F
1,2-DICHLOROETHANE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW2-EB	SNL0201222	27-APR-94	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.005	U	0.005	TB
1,2-DICHLOROETHANE	MWL-MW2-TB	SNL0201237	27-APR-94	0.005	U	0.005	TB
1,2-DICHLOROETHANE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.005	U	0.005	TB
1,2-DICHLOROETHANE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.005	U	0.005	TB
1,2-DICHLOROETHANE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW3	SNL0200769	28-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW3	SNL0201323	03-MAY-94	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW3	SNL0201405	25-OCT-94	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00088	F
1,2-DICHLOROETHANE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00088	F
1,2-DICHLOROETHANE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
1,2-DICHLOROETHANE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
1,2-DICHLOROETHANE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW3-EB	SNL0201238	27-APR-94	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.005	U	0.005	TB
1,2-DICHLOROETHANE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.005	U	0.005	TB

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
1,2-DICHLOROETHANE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.005	U	0.005	TB
1,2-DICHLOROETHANE	MWL-MW4	022154-01	19-APR-95	0.001	U	0.001	SA
1,2-DICHLOROETHANE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00088	F
1,2-DICHLOROETHANE	MWL-MW4	022151-01	19-APR-95	0.005	U	0.00088	F
1,2-DICHLOROETHANE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00088	F
1,2-DICHLOROETHANE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
1,2-DICHLOROETHANE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
1,2-DICHLOROETHANE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW4-TB	SNL0200919	21-APR-93	0.005	U	0.005	TB
1,2-DICHLOROETHANE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.005	U	0.005	TB
1,2-DICHLOROETHANE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
1,2-DICHLOROETHANE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.005	U	0.005	TB
1,2-DICHLOROETHANE	MWL-MW4C	SNL0201160	11-NOV-93	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
1,2-DICHLOROETHANE	MWL-MW4U	SNL0201497	28-OCT-94	0.005	U	0.005	F
1,2-DICHLOROETHANE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
1,2-DICHLOROETHENE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-BW1	SNL0200789	29-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-BW1	SNL0201512	27-OCT-94	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-BW1	SNL0201467	27-OCT-94	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-BW1	SNL0201482	27-OCT-94	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-BW1-D	SNL0200807	29-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-BW1-EB	SNL0201253	27-APR-94	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.005	U	0.005	TB
1,2-DICHLOROETHENE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.005	U	0.005	TB
1,2-DICHLOROETHENE	MWL-BW1-TB	SNL0201268	27-APR-94	0.005	U	0.005	TB
1,2-DICHLOROETHENE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.005	U	0.005	TB
1,2-DICHLOROETHENE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW1	SNL0200751	28-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW1	SNL0201305	03-MAY-94	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW1	SNL0201421	25-OCT-94	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW1	SNL0201437	25-OCT-94	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW1-D	SNL0201287	04-MAY-94	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW1-EB	SNL0201206	26-APR-94	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.005	U	0.005	TB
1,2-DICHLOROETHENE	MWL-MW1-TB	SNL0201221	26-APR-94	0.005	U	0.005	TB
1,2-DICHLOROETHENE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.005	U	0.005	TB
1,2-DICHLOROETHENE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.005	U	0.005	TB
1,2-DICHLOROETHENE	MWL-MW1-TB	SNL0201438	25-OCT-94	0.005	U	0.005	TB
1,2-DICHLOROETHENE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW2	SNL0200732	27-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW2	SNL0201269	02-MAY-94	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW2	SNL0201389	24-OCT-94	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW2-EB	SNL0201222	27-APR-94	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.005	U	0.005	TB
1,2-DICHLOROETHENE	MWL-MW2-TB	SNL0201237	27-APR-94	0.005	U	0.005	TB
1,2-DICHLOROETHENE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.005	U	0.005	TB
1,2-DICHLOROETHENE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.005	U	0.005	TB
1,2-DICHLOROETHENE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW3	SNL0200769	28-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW3	SNL0201323	03-MAY-94	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW3	SNL0201405	25-OCT-94	0.005	U	0.005	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
1,2-DICHLOROETHENE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW3-EB	SNL0201238	27-APR-94	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.005	U	0.005	TB
1,2-DICHLOROETHENE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.005	U	0.005	TB
1,2-DICHLOROETHENE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.005	U	0.005	TB
1,2-DICHLOROETHENE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW4-TB	SNL0200919	21-APR-93	0.005	U	0.005	TB
1,2-DICHLOROETHENE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.005	U	0.005	TB
1,2-DICHLOROETHENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
1,2-DICHLOROETHENE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.005	U	0.005	TB
1,2-DICHLOROETHENE	MWL-MW4C	SNL0201160	11-NOV-93	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
1,2-DICHLOROETHENE	MWL-MW4U	SNL0201497	28-OCT-94	0.005	U	0.005	F
1,2-DICHLOROETHENE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
1,2-DICHLOROPROPANE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-BW1	SNL0200789	29-JUL-92	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-BW1	SNL0201512	27-OCT-94	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-BW1	SNL0201467	27-OCT-94	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-BW1	SNL0201482	27-OCT-94	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
1,2-DICHLOROPROPANE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-BW1-D	SNL0200807	29-JUL-92	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-BW1-EB	SNL0201253	27-APR-94	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.005	U	0.005	TB
1,2-DICHLOROPROPANE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.005	U	0.005	TB
1,2-DICHLOROPROPANE	MWL-BW1-TB	SNL0201268	27-APR-94	0.005	U	0.005	TB
1,2-DICHLOROPROPANE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.005	U	0.005	TB
1,2-DICHLOROPROPANE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW1	SNL0200751	28-JUL-92	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW1	SNL0201305	03-MAY-94	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW1	SNL0201421	25-OCT-94	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW1	SNL0201437	25-OCT-94	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00115	F
1,2-DICHLOROPROPANE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00115	F
1,2-DICHLOROPROPANE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
1,2-DICHLOROPROPANE	MWL-MW1-D	SNL0201287	04-MAY-94	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW1-EB	SNL0201206	26-APR-94	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.005	U	0.005	TB
1,2-DICHLOROPROPANE	MWL-MW1-TB	SNL0201221	26-APR-94	0.005	U	0.005	TB
1,2-DICHLOROPROPANE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.005	U	0.005	TB
1,2-DICHLOROPROPANE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.005	U	0.005	TB
1,2-DICHLOROPROPANE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.005	U	0.005	TB
1,2-DICHLOROPROPANE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW2	SNL0200732	27-JUL-92	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW2	SNL0201269	02-MAY-94	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW2	SNL0201389	24-OCT-94	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00115	F
1,2-DICHLOROPROPANE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00115	F
1,2-DICHLOROPROPANE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW2-EB	SNL0201222	27-APR-94	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.005	U	0.005	TB
1,2-DICHLOROPROPANE	MWL-MW2-TB	SNL0201237	27-APR-94	0.005	U	0.005	TB

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
1,2-DICHLOROPROPANE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.005	U	0.005	TB
1,2-DICHLOROPROPANE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.005	U	0.005	TB
1,2-DICHLOROPROPANE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW3	SNL0200769	28-JUL-92	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW3	SNL0201323	03-MAY-94	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW3	SNL0201405	25-OCT-94	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00115	F
1,2-DICHLOROPROPANE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00115	F
1,2-DICHLOROPROPANE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
1,2-DICHLOROPROPANE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
1,2-DICHLOROPROPANE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW3-EB	SNL0201238	27-APR-94	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.005	U	0.005	TB
1,2-DICHLOROPROPANE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.005	U	0.005	TB
1,2-DICHLOROPROPANE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.005	U	0.005	TB
1,2-DICHLOROPROPANE	MWL-MW4	022154-01	19-APR-95	0.001	U	0.001	SA
1,2-DICHLOROPROPANE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00115	F
1,2-DICHLOROPROPANE	MWL-MW4	022151-01	19-APR-95	0.005	U	0.00115	F
1,2-DICHLOROPROPANE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00115	F
1,2-DICHLOROPROPANE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
1,2-DICHLOROPROPANE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
1,2-DICHLOROPROPANE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW4-TB	SNL0200919	21-APR-93	0.005	U	0.005	TB
1,2-DICHLOROPROPANE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.005	U	0.005	TB
1,2-DICHLOROPROPANE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
1,2-DICHLOROPROPANE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.005	U	0.005	TB
1,2-DICHLOROPROPANE	MWL-MW4C	SNL0201160	11-NOV-93	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
1,2-DICHLOROPROPANE	MWL-MW4U	SNL0201497	28-OCT-94	0.005	U	0.005	F
1,2-DICHLOROPROPANE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
1,3,5-TRIMETHYLBENZENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
1,3,5-TRIMETHYLBENZENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
1,3,5-TRINITROBENZENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
1,3,5-TRINITROBENZENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
1,3,5-TRINITROBENZENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
1,3,5-TRINITROBENZENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
1,3-DICHLOROBENZENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00143901	F
1,3-DICHLOROBENZENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00143901	F
1,3-DICHLOROBENZENE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
1,3-DICHLOROBENZENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00143901	F
1,3-DICHLOROBENZENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00143901	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
1,3-DICHLOROBENZENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00143901	F
1,3-DICHLOROBENZENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00143901	F
1,3-DICHLOROBENZENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
1,3-DICHLOROBENZENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00143901	F
1,3-DICHLOROBENZENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00143901	F
1,3-DICHLOROBENZENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00143901	F
1,3-DICHLOROBENZENE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
1,3-DICHLOROBENZENE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
1,3-DICHLOROBENZENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
1,3-DICHLOROBENZENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
1,3-DICHLOROBENZENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
1,3-DICHLOROBENZENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
1,3-DICHLOROPROPANE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
1,3-DICHLOROPROPANE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
1,3-DINITROBENZENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
1,3-DINITROBENZENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
1,3-DINITROBENZENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
1,3-DINITROBENZENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
1,4-DICHLOROBENZENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00175696	F
1,4-DICHLOROBENZENE	MWL-MW1	022149-02	19-APR-95	0.019		0.00175696	SD
1,4-DICHLOROBENZENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00175696	F
1,4-DICHLOROBENZENE	MWL-MW1	022149-02	19-APR-95	0.019		0.00175696	SD
1,4-DICHLOROBENZENE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
1,4-DICHLOROBENZENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00175696	F
1,4-DICHLOROBENZENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00175696	F
1,4-DICHLOROBENZENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00175696	F
1,4-DICHLOROBENZENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00175696	F
1,4-DICHLOROBENZENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
1,4-DICHLOROBENZENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
1,4-DICHLOROBENZENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00175696	F
1,4-DICHLOROBENZENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00175696	F
1,4-DICHLOROBENZENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00175696	F
1,4-DICHLOROBENZENE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
1,4-DICHLOROBENZENE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
1,4-DICHLOROBENZENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
1,4-DICHLOROBENZENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
1,4-DICHLOROBENZENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
1,4-DICHLOROBENZENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
1,4-DIOXANE	MWL-BW1	SNL0200002	27-SEP-90	0.5	U	0.5	F
1,4-DIOXANE	MWL-BW1	SNL0200637	17-JUL-92	0.5	U	0.5	F
1,4-DIOXANE	MWL-BW1-D	SNL0200009	27-SEP-90	0.5	U	0.5	F
1,4-DIOXANE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.5	U	0.5	F
1,4-DIOXANE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.5	U	0.5	F
1,4-DIOXANE	MWL-MW1	SNL0200638	17-JUL-92	0.5	U	0.5	F
1,4-DIOXANE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.5	U	0.5	F
1,4-DIOXANE	MWL-MW2	SNL0200079	28-SEP-90	0.5	U	0.5	F
1,4-DIOXANE	MWL-MW2	SNL0200639	17-JUL-92	0.5	U	0.5	F
1,4-DIOXANE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.5	U	0.5	F
1,4-DIOXANE	MWL-MW3	SNL0200054	28-SEP-90	0.5	U	0.5	F
1,4-DIOXANE	MWL-MW3	SNL0200640	17-JUL-92	0.5	U	0.5	F
1,4-DIOXANE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.5	U	0.5	F
1,4-DIOXANE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.5	U	0.5	F
1,4-DIOXANE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.5	U	0.5	F
1,4-DIOXANE	MWL-TB	SNL0200636	18-JUL-92	0.5	U	0.5	TB
1,4-NAPHTHOQUINONE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
1,4-NAPHTHOQUINONE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
1,4-NAPHTHOQUINONE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
1,4-NAPHTHOQUINONE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
1-(2-METHOXY-1-METHYLETHOXY)-2-PROPANOL	MWL-BW1	SNL0201531	27-OCT-94	0.027	2	0.002	F
1-(2-METHOXY-1-METHYLETHOXY)-2-PROPANOL	MWL-MW2	SNL0201540	02-MAY-94	0.0067	2	0.002	F
1-CHLORO-4-METHYLBENZENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
1-CHLORO-4-METHYLBENZENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
1-METHOXY-2,2-DIMETHYLPROPANE	MWL-BW1	SNL0201529	27-OCT-94	0.0068	1	0.001	F
1-METHOXY-2,2-DIMETHYLPROPANE	MWL-BW1	SNL0201531	27-OCT-94	0.052	1	0.001	F
1-NAPHTHYLAMINE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
1-NAPHTHYLAMINE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
1-NAPHTHYLAMINE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
1-NAPHTHYLAMINE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
1-PROPANOL, 2-(2-METHOXY-1-METHYLETHOXY)	MWL-MW2	SNL0201540	02-MAY-94	0.0069	1	0.001	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00112139	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00112139	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00112139	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00112139	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00112139	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00112139	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00112139	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00112139	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00112139	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
2,2'-OXYBIS(1-CHLOROPROPANE)	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
2,2-DICHLOROPROPANE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
2,2-DICHLOROPROPANE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
2,3,4,6-TETRACHLOROPHENOL	MWL-BW1	SNL0200005	27-SEP-90	0.05	U	0.05	F
2,3,4,6-TETRACHLOROPHENOL	MWL-BW1-D	SNL0200012	27-SEP-90	0.05	U	0.05	F
2,3,4,6-TETRACHLOROPHENOL	MWL-MW2	SNL0200082	28-SEP-90	0.05	U	0.05	F
2,3,4,6-TETRACHLOROPHENOL	MWL-MW3	SNL0200057	28-SEP-90	0.05	U	0.05	F
2,4,5-T	MWL-BW1	SNL0200007	27-SEP-90	0.0002	U	0.0002	F
2,4,5-T	MWL-BW1	SNL0201517	31-OCT-94	0.0005	U	0.0005	F
2,4,5-T	MWL-BW1-D	SNL0200014	27-SEP-90	0.0002	U	0.0002	F
2,4,5-T	MWL-MW2	SNL0200084	28-SEP-90	0.0002	U	0.0002	F
2,4,5-T	MWL-MW3	SNL0200059	28-SEP-90	0.0002	U	0.0002	F
2,4,5-TRICHLOROPHENOL	MWL-BW1	SNL0200005	27-SEP-90	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-BW1	SNL0200790	29-JUL-92	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-BW1	SNL0201468	27-OCT-94	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-BW1	SNL0201483	27-OCT-94	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
2,4,5-TRICHLOROPHENOL	MWL-BW1-D	SNL0200012	27-SEP-90	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-BW1-D	SNL0200808	29-JUL-92	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-BW1-EB	SNL0200714	23-JUL-92	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-BW1-EB	SNL0201255	27-APR-94	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-BW1-EB	SNL0201453	26-OCT-94	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-BW1-FB	SNL0200827	29-JUL-92	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-MW1	SNL0200752	28-JUL-92	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-MW1	SNL0201307	03-MAY-94	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-MW1	SNL0201422	25-OCT-94	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-MW1	SNL0201438	25-OCT-94	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-MW1	022149-02	19-APR-95	0.05	U	0.00115971	F
2,4,5-TRICHLOROPHENOL	MWL-MW1	022149-02	19-APR-95	0.05	U	0.00115971	F
2,4,5-TRICHLOROPHENOL	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
2,4,5-TRICHLOROPHENOL	MWL-MW1-D	SNL0201289	04-MAY-94	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-MW1-EB	SNL0200677	22-JUL-92	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-MW1-EB	SNL0201208	26-APR-94	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-MW2	SNL0200082	28-SEP-90	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-MW2	SNL0200733	27-JUL-92	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-MW2	SNL0201271	02-MAY-94	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-MW2	SNL0201390	24-OCT-94	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-MW2	022145-02	17-APR-95	0.05	U	0.00115971	F
2,4,5-TRICHLOROPHENOL	MWL-MW2	022145-02	17-APR-95	0.05	U	0.00115971	F
2,4,5-TRICHLOROPHENOL	MWL-MW2-EB	SNL0200695	22-JUL-92	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-MW2-EB	SNL0201224	27-APR-94	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-MW2-EB	SNL0201374	19-OCT-94	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-MW3	SNL0200057	28-SEP-90	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-MW3	SNL0200770	28-JUL-92	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-MW3	SNL0201325	03-MAY-94	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-MW3	SNL0201406	25-OCT-94	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-MW3	022147-02	17-APR-95	0.05	U	0.00115971	F
2,4,5-TRICHLOROPHENOL	MWL-MW3	022147-02	17-APR-95	0.05	U	0.00115971	F
2,4,5-TRICHLOROPHENOL	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
2,4,5-TRICHLOROPHENOL	MWL-MW3-EB	SNL0200658	21-JUL-92	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-MW3-EB	SNL0201240	27-APR-94	0.05	U	0.05	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
2,4,5-TRICHLOROPHENOL	MWL-MW3-EB	SNL0201358	17-OCT-94	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-MW4	022150-02	19-APR-95	0.05	U	0.00115971	F
2,4,5-TRICHLOROPHENOL	MWL-MW4	022151-02	19-APR-95	0.05	U	0.00115971	F
2,4,5-TRICHLOROPHENOL	MWL-MW4	022150-02	19-APR-95	0.05	U	0.00115971	F
2,4,5-TRICHLOROPHENOL	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
2,4,5-TRICHLOROPHENOL	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
2,4,5-TRICHLOROPHENOL	MWL-MW4U	SNL0201342	31-MAY-94	0.05	U	0.05	F
2,4,5-TRICHLOROPHENOL	MWL-MW4U	SNL0201498	28-OCT-94	0.05	U	0.05	F
2,4,6-TRICHLOROPHENOL	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
2,4,6-TRICHLOROPHENOL	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00096784	F
2,4,6-TRICHLOROPHENOL	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00096784	F
2,4,6-TRICHLOROPHENOL	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
2,4,6-TRICHLOROPHENOL	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00096784	F
2,4,6-TRICHLOROPHENOL	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00096784	F
2,4,6-TRICHLOROPHENOL	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00096784	F
2,4,6-TRICHLOROPHENOL	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00096784	F
2,4,6-TRICHLOROPHENOL	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
2,4,6-TRICHLOROPHENOL	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00096784	F
2,4,6-TRICHLOROPHENOL	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00096784	F
2,4,6-TRICHLOROPHENOL	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00096784	F
2,4,6-TRICHLOROPHENOL	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
2,4,6-TRICHLOROPHENOL	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
2,4,6-TRICHLOROPHENOL	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
2,4,6-TRICHLOROPHENOL	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
2,4-D	MWL-BW1	SNL0200007	27-SEP-90	0.0012	U	0.0012	F
2,4-D	MWL-BW1	SNL0200122	24-JAN-91	0.012	U	0.012	F
2,4-D	MWL-BW1	SNL0200278	07-MAY-91	0.012	U	0.012	F
2,4-D	MWL-BW1	SNL0200421	06-AUG-91	0.012	U	0.012	F
2,4-D	MWL-BW1	SNL0200568	16-OCT-91	0.012	U	0.012	F
2,4-D	MWL-BW1	SNL0201517	31-OCT-94	0.002	U	0.002	F
2,4-D	MWL-BW1-D	SNL0200014	27-SEP-90	0.0012	U	0.0012	F
2,4-D	MWL-BW1-D	SNL0200160	24-JAN-91	0.012	U	0.012	F
2,4-D	MWL-BW1-D	SNL0200282	07-MAY-91	0.012	U	0.012	F
2,4-D	MWL-BW1-D	SNL0200438	06-AUG-91	0.012	U	0.012	F
2,4-D	MWL-BW1-D	SNL0200586	16-OCT-91	0.012	U	0.012	F
2,4-D	MWL-BW1-EB	SNL0200496	09-OCT-91	0.012	U	0.012	F
2,4-D	MWL-BW1-FB	SNL0200604	16-OCT-91	0.012	U	0.012	F
2,4-D	MWL-MW1	SNL0200141	24-JAN-91	0.012	U	0.012	F
2,4-D	MWL-MW1	SNL0200280	07-MAY-91	0.012	U	0.012	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
2,4-D	MWL-MW1	SNL0200353	31-JUL-91	0.012	U	0.012	F
2,4-D	MWL-MW1	SNL0200550	15-OCT-91	0.012	U	0.012	F
2,4-D	MWL-MW1-EB	SNL0200460	08-OCT-91	0.012	U	0.012	F
2,4-D	MWL-MW2	SNL0200084	28-SEP-90	0.0012	U	0.0012	F
2,4-D	MWL-MW2	SNL0200179	28-JAN-91	0.012	U	0.012	F
2,4-D	MWL-MW2	SNL0200218	02-MAY-91	0.012	U	0.012	F
2,4-D	MWL-MW2	SNL0200370	01-AUG-91	0.012	U	0.012	F
2,4-D	MWL-MW2	SNL0200514	14-OCT-91	0.012	U	0.012	F
2,4-D	MWL-MW2-EB	SNL0200442	07-OCT-91	0.012	U	0.012	F
2,4-D	MWL-MW3	SNL0200059	28-SEP-90	0.0012	U	0.0012	F
2,4-D	MWL-MW3	SNL0200198	28-JAN-91	0.012	U	0.012	F
2,4-D	MWL-MW3	SNL0200220	02-MAY-91	0.012	U	0.012	F
2,4-D	MWL-MW3	SNL0200404	05-AUG-91	0.012	U	0.012	F
2,4-D	MWL-MW3	SNL0200532	15-OCT-91	0.012	U	0.012	F
2,4-D	MWL-MW3-EB	SNL0200478	09-OCT-91	0.012	U	0.012	F
2,4-DICHLOROPHENOL	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
2,4-DICHLOROPHENOL	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00082437	F
2,4-DICHLOROPHENOL	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00082437	F
2,4-DICHLOROPHENOL	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
2,4-DICHLOROPHENOL	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00082437	F
2,4-DICHLOROPHENOL	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00082437	F
2,4-DICHLOROPHENOL	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00082437	F
2,4-DICHLOROPHENOL	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00082437	F
2,4-DICHLOROPHENOL	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
2,4-DICHLOROPHENOL	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00082437	F
2,4-DICHLOROPHENOL	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00082437	F
2,4-DICHLOROPHENOL	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00082437	F
2,4-DICHLOROPHENOL	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
2,4-DICHLOROPHENOL	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
2,4-DICHLOROPHENOL	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
2,4-DICHLOROPHENOL	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
2,4-DIMETHYLPHENOL	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
2,4-DIMETHYLPHENOL	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00187168	F
2,4-DIMETHYLPHENOL	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00187168	F
2,4-DIMETHYLPHENOL	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
2,4-DIMETHYLPHENOL	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00187168	F
2,4-DIMETHYLPHENOL	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00187168	F
2,4-DIMETHYLPHENOL	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00187168	F
2,4-DIMETHYLPHENOL	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00187168	F
2,4-DIMETHYLPHENOL	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
2,4-DIMETHYLPHENOL	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00187168	F
2,4-DIMETHYLPHENOL	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00187168	F
2,4-DIMETHYLPHENOL	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00187168	F
2,4-DIMETHYLPHENOL	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
2,4-DIMETHYLPHENOL	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
2,4-DIMETHYLPHENOL	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
2,4-DIMETHYLPHENOL	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
2,4-DINITROPHENOL	MWL-BW1	SNL0200005	27-SEP-90	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-BW1	SNL0200790	29-JUL-92	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-BW1	SNL0201468	27-OCT-94	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-BW1	SNL0201483	27-OCT-94	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-BW1	026461-02	23-OCT-95	0.01	U	0.01	SA
2,4-DINITROPHENOL	MWL-BW1-D	SNL0200012	27-SEP-90	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-BW1-D	SNL0200808	29-JUL-92	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-BW1-EB	SNL0200714	23-JUL-92	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-BW1-EB	SNL0201255	27-APR-94	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-BW1-EB	SNL0201453	26-OCT-94	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-BW1-FB	SNL0200827	29-JUL-92	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-MW1	SNL0200752	28-JUL-92	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-MW1	SNL0201307	03-MAY-94	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-MW1	SNL0201422	25-OCT-94	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-MW1	SNL0201438	25-OCT-94	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-MW1	022149-02	19-APR-95	0.05	U	0.00648961	F
2,4-DINITROPHENOL	MWL-MW1	022149-02	19-APR-95	0.05	U	0.00648961	F
2,4-DINITROPHENOL	MWL-MW1	026464-02	20-OCT-95	0.01	U	0.01	SA
2,4-DINITROPHENOL	MWL-MW1-D	SNL0201289	04-MAY-94	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-MW1-EB	SNL0200677	22-JUL-92	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-MW1-EB	SNL0201208	26-APR-94	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-MW2	SNL0200082	28-SEP-90	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-MW2	SNL0200733	27-JUL-92	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-MW2	SNL0201271	02-MAY-94	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-MW2	SNL0201390	24-OCT-94	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-MW2	022145-02	17-APR-95	0.05	U	0.00648961	F
2,4-DINITROPHENOL	MWL-MW2	022145-02	17-APR-95	0.05	U	0.00648961	F
2,4-DINITROPHENOL	MWL-MW2-EB	SNL0200695	22-JUL-92	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-MW2-EB	SNL0201224	27-APR-94	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-MW2-EB	SNL0201374	19-OCT-94	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-MW3	SNL0200057	28-SEP-90	0.05	U	0.05	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
2,4-DINITROPHENOL	MWL-MW3	SNL0200770	28-JUL-92	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-MW3	SNL0201325	03-MAY-94	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-MW3	SNL0201406	25-OCT-94	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-MW3	022147-02	17-APR-95	0.05	U	0.00648961	F
2,4-DINITROPHENOL	MWL-MW3	022147-02	17-APR-95	0.05	U	0.00648961	F
2,4-DINITROPHENOL	MWL-MW3	026458-02	16-OCT-95	0.01	U	0.01	SA
2,4-DINITROPHENOL	MWL-MW3-EB	SNL0200658	21-JUL-92	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-MW3-EB	SNL0201240	27-APR-94	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-MW3-EB	SNL0201358	17-OCT-94	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-MW4	022150-02	19-APR-95	0.05	U	0.00648961	F
2,4-DINITROPHENOL	MWL-MW4	022150-02	19-APR-95	0.05	U	0.00648961	F
2,4-DINITROPHENOL	MWL-MW4	022151-02	19-APR-95	0.05	U	0.00648961	F
2,4-DINITROPHENOL	MWL-MW4	026465-02	20-OCT-95	0.01	U	0.01	SA
2,4-DINITROPHENOL	MWL-MW4	026466-02	20-OCT-95	0.01	U	0.01	DU
2,4-DINITROPHENOL	MWL-MW4U	SNL0201342	31-MAY-94	0.05	U	0.05	F
2,4-DINITROPHENOL	MWL-MW4U	SNL0201498	28-OCT-94	0.05	U	0.05	F
2,4-DINITROTOLUENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
2,4-DINITROTOLUENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00085091	F
2,4-DINITROTOLUENE	MWL-MW1	022149-02	19-APR-95	0.03		0.00085091	SD
2,4-DINITROTOLUENE	MWL-MW1	022149-02	19-APR-95	0.03		0.00085091	SD
2,4-DINITROTOLUENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00085091	F
2,4-DINITROTOLUENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00085091	F
2,4-DINITROTOLUENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00085091	F
2,4-DINITROTOLUENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00085091	F
2,4-DINITROTOLUENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00085091	F
2,4-DINITROTOLUENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
2,4-DINITROTOLUENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00085091	F
2,4-DINITROTOLUENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00085091	F
2,4-DINITROTOLUENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00085091	F
2,4-DINITROTOLUENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
2,4-DINITROTOLUENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
2,6-DICHLOROPHENOL	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
2,6-DICHLOROPHENOL	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
2,6-DICHLOROPHENOL	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
2,6-DICHLOROPHENOL	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
2,6-DINITROTOLUENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
2,6-DINITROTOLUENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00087298	F
2,6-DINITROTOLUENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00087298	F
2,6-DINITROTOLUENE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
2,6-DINITROTOLUENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00087298	F
2,6-DINITROTOLUENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00087298	F
2,6-DINITROTOLUENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00087298	F
2,6-DINITROTOLUENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00087298	F
2,6-DINITROTOLUENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
2,6-DINITROTOLUENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00087298	F
2,6-DINITROTOLUENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00087298	F
2,6-DINITROTOLUENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00087298	F
2,6-DINITROTOLUENE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
2,6-DINITROTOLUENE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
2,6-DINITROTOLUENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
2,6-DINITROTOLUENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
2-ACETYLAMINOFLUORENE	MWL-BW1	SNL0200005	27-SEP-90	0.1	U	0.1	F
2-ACETYLAMINOFLUORENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.1	U	0.1	F
2-ACETYLAMINOFLUORENE	MWL-MW2	SNL0200082	28-SEP-90	0.1	U	0.1	F
2-ACETYLAMINOFLUORENE	MWL-MW3	SNL0200057	28-SEP-90	0.1	U	0.1	F
2-BUTANONE	MWL-BW1	SNL0200002	27-SEP-90	0.01	U	0.01	F
2-BUTANONE	MWL-BW1	SNL0200637	17-JUL-92	0.01	U	0.01	F
2-BUTANONE	MWL-BW1	SNL0200789	29-JUL-92	0.01	U	0.01	F
2-BUTANONE	MWL-BW1	SNL0201467	27-OCT-94	0.01	U	0.01	F
2-BUTANONE	MWL-BW1	SNL0201482	27-OCT-94	0.01	U	0.01	F
2-BUTANONE	MWL-BW1	SNL0201512	27-OCT-94	0.01	U	0.01	F
2-BUTANONE	MWL-BW1	026461-01	23-OCT-95	0.002	U	0.002	SA
2-BUTANONE	MWL-BW1-D	SNL0200009	27-SEP-90	0.01	U	0.01	F
2-BUTANONE	MWL-BW1-D	SNL0200807	29-JUL-92	0.01	U	0.01	F
2-BUTANONE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.01	U	0.01	F
2-BUTANONE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.01	U	0.01	F
2-BUTANONE	MWL-BW1-EB	SNL0201253	27-APR-94	0.01	U	0.01	F
2-BUTANONE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.01	U	0.01	F
2-BUTANONE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.01	U	0.01	F
2-BUTANONE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.01	U	0.01	F
2-BUTANONE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.01	U	0.01	F
2-BUTANONE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.01	U	0.01	TB
2-BUTANONE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.01	U	0.01	TB
2-BUTANONE	MWL-BW1-TB	SNL0201268	27-APR-94	0.01	U	0.01	TB
2-BUTANONE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.01	U	0.01	TB
2-BUTANONE	MWL-MW1	SNL0200638	17-JUL-92	0.01	U	0.01	F
2-BUTANONE	MWL-MW1	SNL0200751	28-JUL-92	0.01	U	0.01	F
2-BUTANONE	MWL-MW1	SNL0201305	03-MAY-94	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
2-BUTANONE	MWL-MW1	SNL0201421	25-OCT-94	0.01	U	0.01	F
2-BUTANONE	MWL-MW1	SNL0201437	25-OCT-94	0.01	U	0.01	F
2-BUTANONE	MWL-MW1	026464-01	20-OCT-95	0.00214	J	0.002	SA
2-BUTANONE	MWL-MW1-D	SNL0201287	04-MAY-94	0.01	U	0.01	F
2-BUTANONE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.01	U	0.01	F
2-BUTANONE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.01	U	0.01	F
2-BUTANONE	MWL-MW1-EB	SNL0201206	26-APR-94	0.01	U	0.01	F
2-BUTANONE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.01	U	0.01	F
2-BUTANONE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.01	U	0.01	TB
2-BUTANONE	MWL-MW1-TB	SNL0201221	26-APR-94	0.01	U	0.01	TB
2-BUTANONE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.01	U	0.01	TB
2-BUTANONE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.01	U	0.01	TB
2-BUTANONE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.01	U	0.01	TB
2-BUTANONE	MWL-MW2	SNL0200079	28-SEP-90	0.01	U	0.01	F
2-BUTANONE	MWL-MW2	SNL0200639	17-JUL-92	0.01	U	0.01	F
2-BUTANONE	MWL-MW2	SNL0200732	27-JUL-92	0.01	U	0.01	F
2-BUTANONE	MWL-MW2	SNL0201269	02-MAY-94	0.01	U	0.01	F
2-BUTANONE	MWL-MW2	SNL0201389	24-OCT-94	0.01	U	0.01	F
2-BUTANONE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.01	U	0.01	F
2-BUTANONE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.01	U	0.01	F
2-BUTANONE	MWL-MW2-EB	SNL0201222	27-APR-94	0.01	U	0.01	F
2-BUTANONE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.01	U	0.01	F
2-BUTANONE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.01	U	0.01	TB
2-BUTANONE	MWL-MW2-TB	SNL0201237	27-APR-94	0.01	U	0.01	TB
2-BUTANONE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.01	U	0.01	TB
2-BUTANONE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.01	U	0.01	TB
2-BUTANONE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.01	U	0.01	F
2-BUTANONE	MWL-MW3	SNL0200054	28-SEP-90	0.01	U	0.01	F
2-BUTANONE	MWL-MW3	SNL0200640	17-JUL-92	0.01	U	0.01	F
2-BUTANONE	MWL-MW3	SNL0200769	28-JUL-92	0.01	U	0.01	F
2-BUTANONE	MWL-MW3	SNL0201323	03-MAY-94	0.01	U	0.01	F
2-BUTANONE	MWL-MW3	SNL0201405	25-OCT-94	0.01	U	0.01	F
2-BUTANONE	MWL-MW3	026458-01	16-OCT-95	0.002	U	0.002	SA
2-BUTANONE	MWL-MW3	026457-01	16-OCT-95	0.002	U	0.002	TB
2-BUTANONE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.01	U	0.01	F
2-BUTANONE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.01	U	0.01	F
2-BUTANONE	MWL-MW3-EB	SNL0201238	27-APR-94	0.01	U	0.01	F
2-BUTANONE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.01	U	0.01	F
2-BUTANONE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.01	U	0.01	F
2-BUTANONE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.01	U	0.01	F
2-BUTANONE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.01	U	0.01	TB
2-BUTANONE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.01	U	0.01	TB
2-BUTANONE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.01	U	0.01	F
2-BUTANONE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.01	U	0.01	TB
2-BUTANONE	MWL-MW4	022154-01	19-APR-95	0.005	U	0.005	SA
2-BUTANONE	MWL-MW4	026465-01	20-OCT-95	0.002	U	0.002	SA
2-BUTANONE	MWL-MW4	026466-01	20-OCT-95	0.002	U	0.002	DU
2-BUTANONE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.01	U	0.01	F
2-BUTANONE	MWL-MW4-TB	SNL0200919	21-APR-93	0.01	U	0.01	TB
2-BUTANONE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.01	U	0.01	TB
2-BUTANONE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.01	U	0.01	TB
2-BUTANONE	MWL-MW4C	SNL0201160	11-NOV-93	0.01	U	0.01	F
2-BUTANONE	MWL-MW4U	SNL0201497	28-OCT-94	0.01	U	0.01	F
2-BUTANONE	MWL-TB	SNL0200636	18-JUL-92	0.01	U	0.01	TB
2-CHLORONAPHTHALENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
2-CHLORONAPHTHALENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00139317	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
2-CHLORONAPHTHALENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00139317	F
2-CHLORONAPHTHALENE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
2-CHLORONAPHTHALENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00139317	F
2-CHLORONAPHTHALENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00139317	F
2-CHLORONAPHTHALENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00139317	F
2-CHLORONAPHTHALENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00139317	F
2-CHLORONAPHTHALENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
2-CHLORONAPHTHALENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00139317	F
2-CHLORONAPHTHALENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00139317	F
2-CHLORONAPHTHALENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00139317	F
2-CHLORONAPHTHALENE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
2-CHLORONAPHTHALENE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
2-CHLORONAPHTHALENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
2-CHLORONAPHTHALENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
2-CHLOROPHENOL	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00130207	F
2-CHLOROPHENOL	MWL-MW1	022149-02	19-APR-95	0.049		0.00130207	SD
2-CHLOROPHENOL	MWL-MW1	022149-02	19-APR-95	0.049		0.00130207	SD
2-CHLOROPHENOL	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00130207	F
2-CHLOROPHENOL	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
2-CHLOROPHENOL	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00130207	F
2-CHLOROPHENOL	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00130207	F
2-CHLOROPHENOL	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00130207	F
2-CHLOROPHENOL	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00130207	F
2-CHLOROPHENOL	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
2-CHLOROPHENOL	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00130207	F
2-CHLOROPHENOL	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00130207	F
2-CHLOROPHENOL	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00130207	F
2-CHLOROPHENOL	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
2-CHLOROPHENOL	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
2-CHLOROPHENOL	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
2-CHLOROPHENOL	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
2-CHLOROTOLUENE	MWL-MW4-TB	SNL0201358	31-MAY-94	0.001	U	0.001	TB
2-CHLOROTOLUENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
2-CYCLOHEXEN-1-OL	MWL-MW1	SNL0201526	25-OCT-94	0.0039	2	0.002	F
2-HEXANONE	MWL-BW1	SNL0200002	27-SEP-90	0.01	U	0.01	F
2-HEXANONE	MWL-BW1	SNL0200637	17-JUL-92	0.01	U	0.01	F
2-HEXANONE	MWL-BW1	SNL0200789	29-JUL-92	0.01	U	0.01	F
2-HEXANONE	MWL-BW1	SNL0201467	27-OCT-94	0.01	U	0.01	F
2-HEXANONE	MWL-BW1	SNL0201482	27-OCT-94	0.01	U	0.01	F
2-HEXANONE	MWL-BW1	SNL0201512	27-OCT-94	0.01	U	0.01	F
2-HEXANONE	MWL-BW1	026461-01	23-OCT-95	0.002	U	0.002	SA
2-HEXANONE	MWL-BW1-D	SNL0200009	27-SEP-90	0.01	U	0.01	F
2-HEXANONE	MWL-BW1-D	SNL0200807	29-JUL-92	0.01	U	0.01	F
2-HEXANONE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.01	U	0.01	F
2-HEXANONE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.01	U	0.01	F
2-HEXANONE	MWL-BW1-EB	SNL0201253	27-APR-94	0.01	U	0.01	F
2-HEXANONE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.01	U	0.01	F
2-HEXANONE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.01	U	0.01	F
2-HEXANONE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.01	U	0.01	F
2-HEXANONE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.01	U	0.01	F
2-HEXANONE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.01	U	0.01	TB
2-HEXANONE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.01	U	0.01	TB
2-HEXANONE	MWL-BW1-TB	SNL0201268	27-APR-94	0.01	U	0.01	TB
2-HEXANONE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.01	U	0.01	TB
2-HEXANONE	MWL-MW1	SNL0200638	17-JUL-92	0.01	U	0.01	F
2-HEXANONE	MWL-MW1	SNL0200751	28-JUL-92	0.01	U	0.01	F
2-HEXANONE	MWL-MW1	SNL0201305	03-MAY-94	0.01	U	0.01	F
2-HEXANONE	MWL-MW1	SNL0201421	25-OCT-94	0.01	U	0.01	F
2-HEXANONE	MWL-MW1	SNL0201437	25-OCT-94	0.01	U	0.01	F
2-HEXANONE	MWL-MW1	022149-01	19-APR-95	0.01	U	0.00179	F
2-HEXANONE	MWL-MW1	022149-01	19-APR-95	0.01	U	0.00179	F
2-HEXANONE	MWL-MW1	026464-01	20-OCT-95	0.002	U	0.002	SA
2-HEXANONE	MWL-MW1-D	SNL0201287	04-MAY-94	0.01	U	0.01	F
2-HEXANONE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.01	U	0.01	F
2-HEXANONE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.01	U	0.01	F
2-HEXANONE	MWL-MW1-EB	SNL0201206	26-APR-94	0.01	U	0.01	F
2-HEXANONE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.01	U	0.01	F
2-HEXANONE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.01	U	0.01	TB
2-HEXANONE	MWL-MW1-TB	SNL0201221	26-APR-94	0.01	U	0.01	TB
2-HEXANONE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.01	U	0.01	TB
2-HEXANONE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.01	U	0.01	TB
2-HEXANONE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.01	U	0.01	TB
2-HEXANONE	MWL-MW2	SNL0200079	28-SEP-90	0.01	U	0.01	F
2-HEXANONE	MWL-MW2	SNL0200639	17-JUL-92	0.01	U	0.01	F
2-HEXANONE	MWL-MW2	SNL0200732	27-JUL-92	0.01	U	0.01	F
2-HEXANONE	MWL-MW2	SNL0201269	02-MAY-94	0.01	U	0.01	F
2-HEXANONE	MWL-MW2	SNL0201389	24-OCT-94	0.01	U	0.01	F
2-HEXANONE	MWL-MW2	022145-01	17-APR-95	0.01	U	0.00179	F
2-HEXANONE	MWL-MW2	022145-01	17-APR-95	0.01	U	0.00179	F
2-HEXANONE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.01	U	0.01	F
2-HEXANONE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.01	U	0.01	F
2-HEXANONE	MWL-MW2-EB	SNL0201222	27-APR-94	0.01	U	0.01	F
2-HEXANONE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.01	U	0.01	F
2-HEXANONE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.01	U	0.01	TB
2-HEXANONE	MWL-MW2-TB	SNL0201237	27-APR-94	0.01	U	0.01	TB
2-HEXANONE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.01	U	0.01	TB
2-HEXANONE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.01	U	0.01	TB
2-HEXANONE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.01	U	0.01	F
2-HEXANONE	MWL-MW3	SNL0200054	28-SEP-90	0.01	U	0.01	F
2-HEXANONE	MWL-MW3	SNL0200640	17-JUL-92	0.01	U	0.01	F
2-HEXANONE	MWL-MW3	SNL0200769	28-JUL-92	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
2-HEXANONE	MWL-MW3	SNL0201323	03-MAY-94	0.01	U	0.01	F
2-HEXANONE	MWL-MW3	SNL0201405	25-OCT-94	0.01	U	0.01	F
2-HEXANONE	MWL-MW3	022147-01	17-APR-95	0.01	U	0.00179	F
2-HEXANONE	MWL-MW3	022147-01	17-APR-95	0.01	U	0.00179	F
2-HEXANONE	MWL-MW3	026458-01	16-OCT-95	0.002	U	0.002	SA
2-HEXANONE	MWL-MW3	026457-01	16-OCT-95	0.002	U	0.002	TB
2-HEXANONE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.01	U	0.01	F
2-HEXANONE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.01	U	0.01	F
2-HEXANONE	MWL-MW3-EB	SNL0201238	27-APR-94	0.01	U	0.01	F
2-HEXANONE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.01	U	0.01	F
2-HEXANONE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.01	U	0.01	F
2-HEXANONE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.01	U	0.01	F
2-HEXANONE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.01	U	0.01	TB
2-HEXANONE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.01	U	0.01	TB
2-HEXANONE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.01	U	0.01	F
2-HEXANONE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.01	U	0.01	TB
2-HEXANONE	MWL-MW4	022154-01	19-APR-95	0.005	U	0.005	SA
2-HEXANONE	MWL-MW4	022150-01	19-APR-95	0.01	U	0.00179	F
2-HEXANONE	MWL-MW4	022150-01	19-APR-95	0.01	U	0.00179	F
2-HEXANONE	MWL-MW4	022151-01	19-APR-95	0.01	U	0.00179	F
2-HEXANONE	MWL-MW4	026465-01	20-OCT-95	0.002	U	0.002	SA
2-HEXANONE	MWL-MW4	026466-01	20-OCT-95	0.002	U	0.002	DU
2-HEXANONE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.01	U	0.01	F
2-HEXANONE	MWL-MW4-TB	SNL0200919	21-APR-93	0.01	U	0.01	TB
2-HEXANONE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.01	U	0.01	TB
2-HEXANONE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.01	U	0.01	TB
2-HEXANONE	MWL-MW4C	SNL0201160	11-NOV-93	0.01	U	0.01	F
2-HEXANONE	MWL-MW4U	SNL0201497	28-OCT-94	0.01	U	0.01	F
2-HEXANONE	MWL-TB	SNL0200636	18-JUL-92	0.01	U	0.01	TB
2-METHYL-1-PENTEN-3-OL	MWL-MW2	SNL0201540	02-MAY-94	0.0097	1	0.001	F
2-METHYL-1-PENTEN-3-OL	MWL-MW2	SNL0201540	02-MAY-94	0.014	2	0.002	F
2-METHYL-1-PENTEN-3-OL	MWL-MW2	SNL0201540	02-MAY-94	0.014	1	0.001	F
2-METHYLNAPHTHALENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
2-METHYLNAPHTHALENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-BW1-EB	SNL0201453	28-OCT-94	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00130598	F
2-METHYLNAPHTHALENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00130598	F
2-METHYLNAPHTHALENE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
2-METHYLNAPHTHALENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00130598	F
2-METHYLNAPHTHALENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00130598	F
2-METHYLNAPHTHALENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00130598	F
2-METHYLNAPHTHALENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00130598	F
2-METHYLNAPHTHALENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
2-METHYLNAPHTHALENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
2-METHYLNAPHTHALENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00130598	F
2-METHYLNAPHTHALENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00130598	F
2-METHYLNAPHTHALENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00130598	F
2-METHYLNAPHTHALENE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
2-METHYLNAPHTHALENE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
2-METHYLNAPHTHALENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
2-METHYLNAPHTHALENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
2-METHYLPHENOL	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
2-METHYLPHENOL	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
2-METHYLPHENOL	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
2-METHYLPHENOL	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
2-METHYLPHENOL	MWL-BW1	026461-02	23-OCT-95	0.00113	U	0.00113	SA
2-METHYLPHENOL	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
2-METHYLPHENOL	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
2-METHYLPHENOL	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
2-METHYLPHENOL	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
2-METHYLPHENOL	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
2-METHYLPHENOL	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
2-METHYLPHENOL	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
2-METHYLPHENOL	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
2-METHYLPHENOL	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
2-METHYLPHENOL	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
2-METHYLPHENOL	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00145977	F
2-METHYLPHENOL	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00145977	F
2-METHYLPHENOL	MWL-MW1	026464-02	20-OCT-95	0.00113	U	0.00113	SA
2-METHYLPHENOL	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
2-METHYLPHENOL	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
2-METHYLPHENOL	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
2-METHYLPHENOL	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
2-METHYLPHENOL	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
2-METHYLPHENOL	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
2-METHYLPHENOL	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
2-METHYLPHENOL	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00145977	F
2-METHYLPHENOL	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00145977	F
2-METHYLPHENOL	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
2-METHYLPHENOL	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
2-METHYLPHENOL	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
2-METHYLPHENOL	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
2-METHYLPHENOL	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
2-METHYLPHENOL	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
2-METHYLPHENOL	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
2-METHYLPHENOL	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00145977	F
2-METHYLPHENOL	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00145977	F
2-METHYLPHENOL	MWL-MW3	026458-02	16-OCT-95	0.00113	U	0.00113	SA
2-METHYLPHENOL	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
2-METHYLPHENOL	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
2-METHYLPHENOL	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
2-METHYLPHENOL	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00145977	F
2-METHYLPHENOL	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00145977	F
2-METHYLPHENOL	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00145977	F
2-METHYLPHENOL	MWL-MW4	026465-02	20-OCT-95	0.00113	U	0.00113	SA
2-METHYLPHENOL	MWL-MW4	026466-02	20-OCT-95	0.00113	U	0.00113	DU
2-METHYLPHENOL	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
2-METHYLPHENOL	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
2-METHYLPYRIDINE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
2-METHYLPYRIDINE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
2-METHYLPYRIDINE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
2-METHYLPYRIDINE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
2-NAPHTHALENAMINE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
2-NAPHTHALENAMINE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
2-NAPHTHALENAMINE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
2-NAPHTHALENAMINE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
2-NITROANILINE	MWL-BW1	SNL0200005	27-SEP-90	0.05	U	0.05	F
2-NITROANILINE	MWL-BW1	SNL0200790	29-JUL-92	0.05	U	0.05	F
2-NITROANILINE	MWL-BW1	SNL0201468	27-OCT-94	0.05	U	0.05	F
2-NITROANILINE	MWL-BW1	SNL0201483	27-OCT-94	0.05	U	0.05	F
2-NITROANILINE	MWL-BW1	026461-02	23-OCT-95	0.00182	U	0.00182	SA
2-NITROANILINE	MWL-BW1-D	SNL0200012	27-SEP-90	0.05	U	0.05	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
2-NITROANILINE	MWL-BW1-D	SNL0200808	29-JUL-92	0.05	U	0.05	F
2-NITROANILINE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.05	U	0.05	F
2-NITROANILINE	MWL-BW1-EB	SNL0201255	27-APR-94	0.05	U	0.05	F
2-NITROANILINE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.05	U	0.05	F
2-NITROANILINE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.05	U	0.05	F
2-NITROANILINE	MWL-MW1	SNL0200752	28-JUL-92	0.05	U	0.05	F
2-NITROANILINE	MWL-MW1	SNL0201307	03-MAY-94	0.05	U	0.05	F
2-NITROANILINE	MWL-MW1	SNL0201422	25-OCT-94	0.05	U	0.05	F
2-NITROANILINE	MWL-MW1	SNL0201438	25-OCT-94	0.05	U	0.05	F
2-NITROANILINE	MWL-MW1	022149-02	19-APR-95	0.05	U	0.00095426	F
2-NITROANILINE	MWL-MW1	022149-02	19-APR-95	0.05	U	0.00095426	F
2-NITROANILINE	MWL-MW1	026464-02	20-OCT-95	0.00182	U	0.00182	SA
2-NITROANILINE	MWL-MW1-D	SNL0201289	04-MAY-94	0.05	U	0.05	F
2-NITROANILINE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.05	U	0.05	F
2-NITROANILINE	MWL-MW1-EB	SNL0201208	26-APR-94	0.05	U	0.05	F
2-NITROANILINE	MWL-MW2	SNL0200082	28-SEP-90	0.05	U	0.05	F
2-NITROANILINE	MWL-MW2	SNL0200733	27-JUL-92	0.05	U	0.05	F
2-NITROANILINE	MWL-MW2	SNL0201271	02-MAY-94	0.05	U	0.05	F
2-NITROANILINE	MWL-MW2	SNL0201390	24-OCT-94	0.05	U	0.05	F
2-NITROANILINE	MWL-MW2	022145-02	17-APR-95	0.05	U	0.00095426	F
2-NITROANILINE	MWL-MW2	022145-02	17-APR-95	0.05	U	0.00095426	F
2-NITROANILINE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.05	U	0.05	F
2-NITROANILINE	MWL-MW2-EB	SNL0201224	27-APR-94	0.05	U	0.05	F
2-NITROANILINE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.05	U	0.05	F
2-NITROANILINE	MWL-MW3	SNL0200057	28-SEP-90	0.05	U	0.05	F
2-NITROANILINE	MWL-MW3	SNL0200770	28-JUL-92	0.05	U	0.05	F
2-NITROANILINE	MWL-MW3	SNL0201325	03-MAY-94	0.05	U	0.05	F
2-NITROANILINE	MWL-MW3	SNL0201406	25-OCT-94	0.05	U	0.05	F
2-NITROANILINE	MWL-MW3	022147-02	17-APR-95	0.05	U	0.00095426	F
2-NITROANILINE	MWL-MW3	022147-02	17-APR-95	0.05	U	0.00095426	F
2-NITROANILINE	MWL-MW3	026458-02	16-OCT-95	0.00182	U	0.00182	SA
2-NITROANILINE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.05	U	0.05	F
2-NITROANILINE	MWL-MW3-EB	SNL0201240	27-APR-94	0.05	U	0.05	F
2-NITROANILINE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.05	U	0.05	F
2-NITROANILINE	MWL-MW4	022150-02	19-APR-95	0.05	U	0.00095426	F
2-NITROANILINE	MWL-MW4	022150-02	19-APR-95	0.05	U	0.00095426	F
2-NITROANILINE	MWL-MW4	022151-02	19-APR-95	0.05	U	0.00095426	F
2-NITROANILINE	MWL-MW4	026465-02	20-OCT-95	0.00182	U	0.00182	SA
2-NITROANILINE	MWL-MW4	026466-02	20-OCT-95	0.00182	U	0.00182	DU
2-NITROANILINE	MWL-MW4U	SNL0201342	31-MAY-94	0.05	U	0.05	F
2-NITROANILINE	MWL-MW4U	SNL0201498	28-OCT-94	0.05	U	0.05	F
2-NITROPHENOL	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
2-NITROPHENOL	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
2-NITROPHENOL	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
2-NITROPHENOL	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
2-NITROPHENOL	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
2-NITROPHENOL	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
2-NITROPHENOL	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
2-NITROPHENOL	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
2-NITROPHENOL	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
2-NITROPHENOL	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
2-NITROPHENOL	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
2-NITROPHENOL	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
2-NITROPHENOL	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
2-NITROPHENOL	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
2-NITROPHENOL	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
2-NITROPHENOL	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00159187	F
2-NITROPHENOL	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00159187	F
2-NITROPHENOL	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
2-NITROPHENOL	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
2-NITROPHENOL	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
2-NITROPHENOL	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
2-NITROPHENOL	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
2-NITROPHENOL	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
2-NITROPHENOL	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
2-NITROPHENOL	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
2-NITROPHENOL	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00159187	F
2-NITROPHENOL	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00159187	F
2-NITROPHENOL	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
2-NITROPHENOL	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
2-NITROPHENOL	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
2-NITROPHENOL	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
2-NITROPHENOL	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
2-NITROPHENOL	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
2-NITROPHENOL	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
2-NITROPHENOL	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00159187	F
2-NITROPHENOL	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00159187	F
2-NITROPHENOL	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
2-NITROPHENOL	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
2-NITROPHENOL	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
2-NITROPHENOL	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
2-NITROPHENOL	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00159187	F
2-NITROPHENOL	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00159187	F
2-NITROPHENOL	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00159187	F
2-NITROPHENOL	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
2-NITROPHENOL	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
2-NITROPHENOL	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
2-NITROPHENOL	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
3,3'-DICHLOROBENZIDINE	MWL-BW1	SNL0200005	27-SEP-90	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-BW1	SNL0200790	29-JUL-92	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-BW1	SNL0201468	27-OCT-94	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-BW1	SNL0201483	27-OCT-94	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-BW1	026461-02	23-OCT-95	0.05	U	0.05	SA
3,3'-DICHLOROBENZIDINE	MWL-BW1-D	SNL0200012	27-SEP-90	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-BW1-D	SNL0200808	29-JUL-92	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-BW1-EB	SNL0201255	27-APR-94	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-MW1	SNL0200752	28-JUL-92	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-MW1	SNL0201307	03-MAY-94	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-MW1	SNL0201422	25-OCT-94	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-MW1	SNL0201438	25-OCT-94	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-MW1	022149-02	19-APR-95	0.02	U	0.00307654	F
3,3'-DICHLOROBENZIDINE	MWL-MW1	022149-02	19-APR-95	0.02	U	0.00307654	F
3,3'-DICHLOROBENZIDINE	MWL-MW1	026464-02	20-OCT-95	0.05	U	0.05	SA
3,3'-DICHLOROBENZIDINE	MWL-MW1-D	SNL0201289	04-MAY-94	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-MW1-EB	SNL0201208	26-APR-94	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-MW2	SNL0200082	28-SEP-90	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-MW2	SNL0200733	27-JUL-92	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-MW2	SNL0201271	02-MAY-94	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-MW2	SNL0201390	24-OCT-94	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-MW2	022145-02	17-APR-95	0.02	U	0.00307654	F
3,3'-DICHLOROBENZIDINE	MWL-MW2	022145-02	17-APR-95	0.02	U	0.00307654	F
3,3'-DICHLOROBENZIDINE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-MW2-EB	SNL0201224	27-APR-94	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-MW3	SNL0200057	28-SEP-90	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-MW3	SNL0200770	28-JUL-92	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-MW3	SNL0201325	03-MAY-94	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-MW3	SNL0201406	25-OCT-94	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-MW3	022147-02	17-APR-95	0.02	U	0.00307654	F
3,3'-DICHLOROBENZIDINE	MWL-MW3	022147-02	17-APR-95	0.02	U	0.00307654	F
3,3'-DICHLOROBENZIDINE	MWL-MW3	026458-02	16-OCT-95	0.05	U	0.05	SA
3,3'-DICHLOROBENZIDINE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-MW3-EB	SNL0201240	27-APR-94	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-MW4	022150-02	19-APR-95	0.02	U	0.00307654	F
3,3'-DICHLOROBENZIDINE	MWL-MW4	022150-02	19-APR-95	0.02	U	0.00307654	F
3,3'-DICHLOROBENZIDINE	MWL-MW4	022151-02	19-APR-95	0.02	U	0.00307654	F
3,3'-DICHLOROBENZIDINE	MWL-MW4	026465-02	20-OCT-95	0.05	U	0.05	SA
3,3'-DICHLOROBENZIDINE	MWL-MW4	026466-02	20-OCT-95	0.05	U	0.05	DU
3,3'-DICHLOROBENZIDINE	MWL-MW4U	SNL0201342	31-MAY-94	0.02	U	0.02	F
3,3'-DICHLOROBENZIDINE	MWL-MW4U	SNL0201498	28-OCT-94	0.02	U	0.02	F
3,3'-DIMETHYLBENZIDINE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
3,3'-DIMETHYLBENZIDINE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
3,3'-DIMETHYLBENZIDINE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
3,3'-DIMETHYLBENZIDINE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
3-METHYLCHOLANTHRENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
3-METHYLCHOLANTHRENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
3-METHYLCHOLANTHRENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
3-METHYLCHOLANTHRENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
3-NITROANILINE	MWL-BW1	SNL0200005	27-SEP-90	0.05	U	0.05	F
3-NITROANILINE	MWL-BW1	SNL0200790	29-JUL-92	0.05	U	0.05	F
3-NITROANILINE	MWL-BW1	SNL0201468	27-OCT-94	0.05	U	0.05	F
3-NITROANILINE	MWL-BW1	SNL0201483	27-OCT-94	0.05	U	0.05	F
3-NITROANILINE	MWL-BW1	026461-02	23-OCT-95	0.00502	U	0.00502	SA
3-NITROANILINE	MWL-BW1-D	SNL0200012	27-SEP-90	0.05	U	0.05	F
3-NITROANILINE	MWL-BW1-D	SNL0200808	29-JUL-92	0.05	U	0.05	F
3-NITROANILINE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.05	U	0.05	F
3-NITROANILINE	MWL-BW1-EB	SNL0201255	27-APR-94	0.05	U	0.05	F
3-NITROANILINE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.05	U	0.05	F
3-NITROANILINE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.05	U	0.05	F
3-NITROANILINE	MWL-MW1	SNL0200752	28-JUL-92	0.05	U	0.05	F
3-NITROANILINE	MWL-MW1	SNL0201307	03-MAY-94	0.05	U	0.05	F
3-NITROANILINE	MWL-MW1	SNL0201422	25-OCT-94	0.05	U	0.05	F
3-NITROANILINE	MWL-MW1	SNL0201438	25-OCT-94	0.05	U	0.05	F
3-NITROANILINE	MWL-MW1	022149-02	19-APR-95	0.05	U	0.00069924	F
3-NITROANILINE	MWL-MW1	022149-02	19-APR-95	0.05	U	0.00069924	F
3-NITROANILINE	MWL-MW1	026464-02	20-OCT-95	0.00502	U	0.00502	SA
3-NITROANILINE	MWL-MW1-D	SNL0201289	04-MAY-94	0.05	U	0.05	F
3-NITROANILINE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.05	U	0.05	F
3-NITROANILINE	MWL-MW1-EB	SNL0201208	26-APR-94	0.05	U	0.05	F
3-NITROANILINE	MWL-MW2	SNL0200082	28-SEP-90	0.05	U	0.05	F
3-NITROANILINE	MWL-MW2	SNL0200733	27-JUL-92	0.05	U	0.05	F
3-NITROANILINE	MWL-MW2	SNL0201271	02-MAY-94	0.05	U	0.05	F
3-NITROANILINE	MWL-MW2	SNL0201390	24-OCT-94	0.05	U	0.05	F
3-NITROANILINE	MWL-MW2	022145-02	17-APR-95	0.05	U	0.00069924	F
3-NITROANILINE	MWL-MW2	022145-02	17-APR-95	0.05	U	0.00069924	F
3-NITROANILINE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.05	U	0.05	F
3-NITROANILINE	MWL-MW2-EB	SNL0201224	27-APR-94	0.05	U	0.05	F
3-NITROANILINE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.05	U	0.05	F
3-NITROANILINE	MWL-MW3	SNL0200057	28-SEP-90	0.05	U	0.05	F
3-NITROANILINE	MWL-MW3	SNL0200770	28-JUL-92	0.05	U	0.05	F
3-NITROANILINE	MWL-MW3	SNL0201325	03-MAY-94	0.05	U	0.05	F
3-NITROANILINE	MWL-MW3	SNL0201406	25-OCT-94	0.05	U	0.05	F
3-NITROANILINE	MWL-MW3	022147-02	17-APR-95	0.05	U	0.00069924	F
3-NITROANILINE	MWL-MW3	022147-02	17-APR-95	0.05	U	0.00069924	F
3-NITROANILINE	MWL-MW3	026458-02	16-OCT-95	0.00502	U	0.00502	SA
3-NITROANILINE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.05	U	0.05	F
3-NITROANILINE	MWL-MW3-EB	SNL0201240	27-APR-94	0.05	U	0.05	F
3-NITROANILINE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.05	U	0.05	F
3-NITROANILINE	MWL-MW4	022150-02	19-APR-95	0.05	U	0.00069924	F
3-NITROANILINE	MWL-MW4	022150-02	19-APR-95	0.05	U	0.00069924	F
3-NITROANILINE	MWL-MW4	022151-02	19-APR-95	0.05	U	0.00069924	F
3-NITROANILINE	MWL-MW4	026465-02	20-OCT-95	0.00502	U	0.00502	SA
3-NITROANILINE	MWL-MW4	026466-02	20-OCT-95	0.00502	U	0.00502	DU
3-NITROANILINE	MWL-MW4U	SNL0201342	31-MAY-94	0.05	U	0.05	F
3-NITROANILINE	MWL-MW4U	SNL0201498	28-OCT-94	0.05	U	0.05	F
3/4-METHYLPHENOL	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
3/4-METHYLPHENOL	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
3/4-METHYLPHENOL	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
3/4-METHYLPHENOL	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
4,4'-DDD	MWL-BW1	SNL0200006	27-SEP-90	0.0001	U	0.0001	F
4,4'-DDD	MWL-BW1	SNL0200277	07-MAY-91	0.0001	U	0.0001	F
4,4'-DDD	MWL-BW1	SNL0200420	06-AUG-91	0.0001	U	0.0001	F
4,4'-DDD	MWL-BW1	SNL0200567	16-OCT-91	0.0001	U	0.0001	F
4,4'-DDD	MWL-BW1	SNL0201514	31-OCT-94	0.0001	U	0.0001	F
4,4'-DDD	MWL-BW1-D	SNL0200013	27-SEP-90	0.0001	U	0.0001	F
4,4'-DDD	MWL-BW1-D	SNL0200281	07-MAY-91	0.0001	U	0.0001	F
4,4'-DDD	MWL-BW1-D	SNL0200437	06-AUG-91	0.0001	U	0.0001	F
4,4'-DDD	MWL-BW1-D	SNL0200585	16-OCT-91	0.0001	U	0.0001	F
4,4'-DDD	MWL-BW1-EB	SNL0200495	09-OCT-91	0.0001	U	0.0001	F
4,4'-DDD	MWL-BW1-FB	SNL0200603	16-OCT-91	0.0001	U	0.0001	F
4,4'-DDD	MWL-MW1	SNL0200279	07-MAY-91	0.0001	U	0.0001	F
4,4'-DDD	MWL-MW1	SNL0200352	31-JUL-91	0.0001	U	0.0001	F
4,4'-DDD	MWL-MW1	SNL0200549	15-OCT-91	0.0001	U	0.0001	F
4,4'-DDD	MWL-MW1-EB	SNL0200459	08-OCT-91	0.0001	U	0.0001	F
4,4'-DDD	MWL-MW2	SNL0200083	28-SEP-90	0.0001	U	0.0001	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
4,4'-DDD	MWL-MW2	SNL0200217	02-MAY-91	0.0001	U	0.0001	F
4,4'-DDD	MWL-MW2	SNL0200369	01-AUG-91	0.0001	U	0.0001	F
4,4'-DDD	MWL-MW2	SNL0200513	14-OCT-91	0.0001	U	0.0001	F
4,4'-DDD	MWL-MW2-EB	SNL0200441	07-OCT-91	0.0001	U	0.0001	F
4,4'-DDD	MWL-MW3	SNL0200058	28-SEP-90	0.0001	U	0.0001	F
4,4'-DDD	MWL-MW3	SNL0200219	02-MAY-91	0.0001	U	0.0001	F
4,4'-DDD	MWL-MW3	SNL0200403	05-AUG-91	0.0001	U	0.0001	F
4,4'-DDD	MWL-MW3	SNL0200531	15-OCT-91	0.0001	U	0.0001	F
4,4'-DDD	MWL-MW3-EB	SNL0200477	09-OCT-91	0.0001	U	0.0001	F
4,4'-DDE	MWL-BW1	SNL0200006	27-SEP-90	0.0001	U	0.0001	F
4,4'-DDE	MWL-BW1	SNL0200277	07-MAY-91	0.0001	U	0.0001	F
4,4'-DDE	MWL-BW1	SNL0200420	06-AUG-91	0.0001	U	0.0001	F
4,4'-DDE	MWL-BW1	SNL0200567	16-OCT-91	0.0001	U	0.0001	F
4,4'-DDE	MWL-BW1	SNL0201514	31-OCT-94	0.0001	U	0.0001	F
4,4'-DDE	MWL-BW1-D	SNL0200013	27-SEP-90	0.0001	U	0.0001	F
4,4'-DDE	MWL-BW1-D	SNL0200281	07-MAY-91	0.0001	U	0.0001	F
4,4'-DDE	MWL-BW1-D	SNL0200437	06-AUG-91	0.0001	U	0.0001	F
4,4'-DDE	MWL-BW1-D	SNL0200585	16-OCT-91	0.0001	U	0.0001	F
4,4'-DDE	MWL-BW1-EB	SNL0200495	09-OCT-91	0.0001	U	0.0001	F
4,4'-DDE	MWL-BW1-FB	SNL0200603	16-OCT-91	0.0001	U	0.0001	F
4,4'-DDE	MWL-MW1	SNL0200279	07-MAY-91	0.0001	U	0.0001	F
4,4'-DDE	MWL-MW1	SNL0200352	31-JUL-91	0.0001	U	0.0001	F
4,4'-DDE	MWL-MW1	SNL0200549	15-OCT-91	0.0001	U	0.0001	F
4,4'-DDE	MWL-MW1-EB	SNL0200459	08-OCT-91	0.0001	U	0.0001	F
4,4'-DDE	MWL-MW2	SNL0200083	28-SEP-90	0.0001	U	0.0001	F
4,4'-DDE	MWL-MW2	SNL0200217	02-MAY-91	0.0001	U	0.0001	F
4,4'-DDE	MWL-MW2	SNL0200369	01-AUG-91	0.0001	U	0.0001	F
4,4'-DDE	MWL-MW2	SNL0200513	14-OCT-91	0.0001	U	0.0001	F
4,4'-DDE	MWL-MW2-EB	SNL0200441	07-OCT-91	0.0001	U	0.0001	F
4,4'-DDE	MWL-MW3	SNL0200058	28-SEP-90	0.0001	U	0.0001	F
4,4'-DDE	MWL-MW3	SNL0200219	02-MAY-91	0.0001	U	0.0001	F
4,4'-DDE	MWL-MW3	SNL0200403	05-AUG-91	0.0001	U	0.0001	F
4,4'-DDE	MWL-MW3	SNL0200531	15-OCT-91	0.0001	U	0.0001	F
4,4'-DDE	MWL-MW3-EB	SNL0200477	09-OCT-91	0.0001	U	0.0001	F
4,4'-DDT	MWL-BW1	SNL0200006	27-SEP-90	0.0001	U	0.0001	F
4,4'-DDT	MWL-BW1	SNL0200277	07-MAY-91	0.0001	U	0.0001	F
4,4'-DDT	MWL-BW1	SNL0200420	06-AUG-91	0.0001	U	0.0001	F
4,4'-DDT	MWL-BW1	SNL0200567	16-OCT-91	0.0001	U	0.0001	F
4,4'-DDT	MWL-BW1	SNL0201514	31-OCT-94	0.0001	U	0.0001	F
4,4'-DDT	MWL-BW1-D	SNL0200013	27-SEP-90	0.0001	U	0.0001	F
4,4'-DDT	MWL-BW1-D	SNL0200281	07-MAY-91	0.0001	U	0.0001	F
4,4'-DDT	MWL-BW1-D	SNL0200437	06-AUG-91	0.0001	U	0.0001	F
4,4'-DDT	MWL-BW1-D	SNL0200585	16-OCT-91	0.0001	U	0.0001	F
4,4'-DDT	MWL-BW1-EB	SNL0200495	09-OCT-91	0.0001	U	0.0001	F
4,4'-DDT	MWL-BW1-FB	SNL0200603	16-OCT-91	0.0001	U	0.0001	F
4,4'-DDT	MWL-MW1	SNL0200279	07-MAY-91	0.0001	U	0.0001	F
4,4'-DDT	MWL-MW1	SNL0200352	31-JUL-91	0.0001	U	0.0001	F
4,4'-DDT	MWL-MW1	SNL0200549	15-OCT-91	0.0001	U	0.0001	F
4,4'-DDT	MWL-MW1-EB	SNL0200459	08-OCT-91	0.0001	U	0.0001	F
4,4'-DDT	MWL-MW2	SNL0200083	28-SEP-90	0.0001	U	0.0001	F
4,4'-DDT	MWL-MW2	SNL0200217	02-MAY-91	0.0001	U	0.0001	F
4,4'-DDT	MWL-MW2	SNL0200369	01-AUG-91	0.0001	U	0.0001	F
4,4'-DDT	MWL-MW2	SNL0200513	14-OCT-91	0.0001	U	0.0001	F
4,4'-DDT	MWL-MW2-EB	SNL0200441	07-OCT-91	0.0001	U	0.0001	F
4,4'-DDT	MWL-MW3	SNL0200058	28-SEP-90	0.0001	U	0.0001	F
4,4'-DDT	MWL-MW3	SNL0200219	02-MAY-91	0.0001	U	0.0001	F
4,4'-DDT	MWL-MW3	SNL0200403	05-AUG-91	0.0001	U	0.0001	F
4,4'-DDT	MWL-MW3	SNL0200531	15-OCT-91	0.0001	U	0.0001	F
4,4'-DDT	MWL-MW3-EB	SNL0200477	09-OCT-91	0.0001	U	0.0001	F
4,6-DINITRO-O-CRESOL	MWL-BW1	SNL0200005	27-SEP-90	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-BW1	SNL0200790	29-JUL-92	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-BW1	SNL0201468	27-OCT-94	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-BW1	SNL0201483	27-OCT-94	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-BW1	026461-02	23-OCT-95	0.00178	U	0.00178	SA
4,6-DINITRO-O-CRESOL	MWL-BW1-D	SNL0200012	27-SEP-90	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-BW1-D	SNL0200808	29-JUL-92	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-BW1-EB	SNL0200714	23-JUL-92	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-BW1-EB	SNL0201255	27-APR-94	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-BW1-EB	SNL0201453	26-OCT-94	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-BW1-FB	SNL0200827	29-JUL-92	0.05	U	0.05	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
4,6-DINITRO-O-CRESOL	MWL-MW1	SNL0200752	28-JUL-92	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-MW1	SNL0201307	03-MAY-94	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-MW1	SNL0201422	25-OCT-94	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-MW1	SNL0201438	25-OCT-94	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-MW1	022149-02	19-APR-95	0.05	U	0.00083193	F
4,6-DINITRO-O-CRESOL	MWL-MW1	022149-02	19-APR-95	0.05	U	0.00083193	F
4,6-DINITRO-O-CRESOL	MWL-MW1	026464-02	20-OCT-95	0.00178	U	0.00178	SA
4,6-DINITRO-O-CRESOL	MWL-MW1-D	SNL0201289	04-MAY-94	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-MW1-EB	SNL0200677	22-JUL-92	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-MW1-EB	SNL0201208	26-APR-94	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-MW2	SNL0200082	28-SEP-90	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-MW2	SNL0200733	27-JUL-92	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-MW2	SNL0201271	02-MAY-94	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-MW2	SNL0201390	24-OCT-94	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-MW2	022145-02	17-APR-95	0.05	U	0.00083193	F
4,6-DINITRO-O-CRESOL	MWL-MW2	022145-02	17-APR-95	0.05	U	0.00083193	F
4,6-DINITRO-O-CRESOL	MWL-MW2-EB	SNL0200695	22-JUL-92	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-MW2-EB	SNL0201224	27-APR-94	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-MW2-EB	SNL0201374	19-OCT-94	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-MW3	SNL0200057	28-SEP-90	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-MW3	SNL0200770	28-JUL-92	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-MW3	SNL0201325	03-MAY-94	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-MW3	SNL0201406	25-OCT-94	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-MW3	022147-02	17-APR-95	0.05	U	0.00083193	F
4,6-DINITRO-O-CRESOL	MWL-MW3	022147-02	17-APR-95	0.05	U	0.00083193	F
4,6-DINITRO-O-CRESOL	MWL-MW3	026458-02	16-OCT-95	0.00178	U	0.00178	SA
4,6-DINITRO-O-CRESOL	MWL-MW3-EB	SNL0200658	21-JUL-92	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-MW3-EB	SNL0201240	27-APR-94	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-MW3-EB	SNL0201358	17-OCT-94	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-MW4	022150-02	19-APR-95	0.05	U	0.00083193	F
4,6-DINITRO-O-CRESOL	MWL-MW4	022150-02	19-APR-95	0.05	U	0.00083193	F
4,6-DINITRO-O-CRESOL	MWL-MW4	022151-02	19-APR-95	0.05	U	0.00083193	F
4,6-DINITRO-O-CRESOL	MWL-MW4	026465-02	20-OCT-95	0.00178	U	0.00178	SA
4,6-DINITRO-O-CRESOL	MWL-MW4	026466-02	20-OCT-95	0.00178	U	0.00178	DU
4,6-DINITRO-O-CRESOL	MWL-MW4U	SNL0201342	31-MAY-94	0.05	U	0.05	F
4,6-DINITRO-O-CRESOL	MWL-MW4U	SNL0201498	28-OCT-94	0.05	U	0.05	F
4-(2,4-DICHLOROPHENOXY)-BUTYRIC ACID	MWL-BW1	SNL0201517	31-OCT-94	0.005	U	0.005	F
4-AMINOBIPHENYL	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
4-AMINOBIPHENYL	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
4-AMINOBIPHENYL	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
4-AMINOBIPHENYL	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
4-BROMOPHENYL PHENYL ETHER	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00079367	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00079367	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
4-BROMOPHENYL PHENYL ETHER	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00079367	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00079367	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
4-BROMOPHENYL PHENYL ETHER	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00079367	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00079367	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
4-BROMOPHENYL PHENYL ETHER	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00079367	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00079367	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00079367	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
4-BROMOPHENYL PHENYL ETHER	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
4-BROMOPHENYL PHENYL ETHER	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
4-BROMOPHENYL PHENYL ETHER	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
4-CHLORO-3-METHYLPHENOL	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00135121	F
4-CHLORO-3-METHYLPHENOL	MWL-MW1	022149-02	19-APR-95	0.052		0.00135121	SD
4-CHLORO-3-METHYLPHENOL	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00135121	F
4-CHLORO-3-METHYLPHENOL	MWL-MW1	022149-02	19-APR-95	0.052		0.00135121	SD
4-CHLORO-3-METHYLPHENOL	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-MW1-EB	SNL0201208	28-APR-94	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00135121	F
4-CHLORO-3-METHYLPHENOL	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00135121	F
4-CHLORO-3-METHYLPHENOL	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00135121	F
4-CHLORO-3-METHYLPHENOL	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00135121	F
4-CHLORO-3-METHYLPHENOL	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
4-CHLORO-3-METHYLPHENOL	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00135121	F
4-CHLORO-3-METHYLPHENOL	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00135121	F
4-CHLORO-3-METHYLPHENOL	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00135121	F
4-CHLORO-3-METHYLPHENOL	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
4-CHLORO-3-METHYLPHENOL	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-BW1	026461-02	23-OCT-95	0.006	U	0.006	SA

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
4-CHLOROBENZENAMINE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00415838	F
4-CHLOROBENZENAMINE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00415838	F
4-CHLOROBENZENAMINE	MWL-MW1	026464-02	20-OCT-95	0.006	U	0.006	SA
4-CHLOROBENZENAMINE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00415838	F
4-CHLOROBENZENAMINE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00415838	F
4-CHLOROBENZENAMINE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00415838	F
4-CHLOROBENZENAMINE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00415838	F
4-CHLOROBENZENAMINE	MWL-MW3	026458-02	16-OCT-95	0.006	U	0.006	SA
4-CHLOROBENZENAMINE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00415838	F
4-CHLOROBENZENAMINE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00415838	F
4-CHLOROBENZENAMINE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00415838	F
4-CHLOROBENZENAMINE	MWL-MW4	026465-02	20-OCT-95	0.006	U	0.006	SA
4-CHLOROBENZENAMINE	MWL-MW4	026466-02	20-OCT-95	0.006	U	0.006	DU
4-CHLOROBENZENAMINE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
4-CHLOROBENZENAMINE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
4-CHLOROPHENYL PHENYL ETHER	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00085411	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00085411	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
4-CHLOROPHENYL PHENYL ETHER	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00085411	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00085411	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
4-CHLOROPHENYL PHENYL ETHER	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00085411	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00085411	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
4-CHLOROPHENYL PHENYL ETHER	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00085411	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00085411	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00085411	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
4-CHLOROPHENYL PHENYL ETHER	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
4-CHLOROPHENYL PHENYL ETHER	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
4-CHLOROPHENYL PHENYL ETHER	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
4-DHLORO-2-METHYL-PHENOXYACETIC ACID	MWL-BW1	SNL0201517	31-OCT-94	0.25	U	0.25	F
4-METHYL-2-PENTANONE	MWL-BW1	SNL0200002	27-SEP-90	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-BW1	SNL0200637	17-JUL-92	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-BW1	SNL0200789	29-JUL-92	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-BW1	SNL0201467	27-OCT-94	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-BW1	SNL0201512	27-OCT-94	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-BW1	SNL0201482	27-OCT-94	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-BW1	026461-01	23-OCT-95	0.002	U	0.002	SA
4-METHYL-2-PENTANONE	MWL-BW1-D	SNL0200009	27-SEP-90	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-BW1-D	SNL0200807	29-JUL-92	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-BW1-EB	SNL0201253	27-APR-94	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.01	U	0.01	TB
4-METHYL-2-PENTANONE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.01	U	0.01	TB
4-METHYL-2-PENTANONE	MWL-BW1-TB	SNL0201268	27-APR-94	0.01	U	0.01	TB
4-METHYL-2-PENTANONE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.01	U	0.01	TB
4-METHYL-2-PENTANONE	MWL-MW1	SNL0200638	17-JUL-92	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW1	SNL0200751	28-JUL-92	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW1	SNL0201305	03-MAY-94	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW1	SNL0201421	25-OCT-94	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW1	SNL0201437	25-OCT-94	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW1	026464-01	20-OCT-95	0.002	U	0.002	SA
4-METHYL-2-PENTANONE	MWL-MW1-D	SNL0201287	04-MAY-94	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW1-EB	SNL0201206	26-APR-94	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.01	U	0.01	TB
4-METHYL-2-PENTANONE	MWL-MW1-TB	SNL0201221	26-APR-94	0.01	U	0.01	TB
4-METHYL-2-PENTANONE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.01	U	0.01	TB
4-METHYL-2-PENTANONE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.01	U	0.01	TB
4-METHYL-2-PENTANONE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.01	U	0.01	TB
4-METHYL-2-PENTANONE	MWL-MW2	SNL0200079	28-SEP-90	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW2	SNL0200639	17-JUL-92	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW2	SNL0200732	27-JUL-92	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW2	SNL0201269	02-MAY-94	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW2	SNL0201389	24-OCT-94	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW2-EB	SNL0201222	27-APR-94	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.01	U	0.01	TB
4-METHYL-2-PENTANONE	MWL-MW2-TB	SNL0201237	27-APR-94	0.01	U	0.01	TB
4-METHYL-2-PENTANONE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.01	U	0.01	TB
4-METHYL-2-PENTANONE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.01	U	0.01	TB

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
4-METHYL-2-PENTANONE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW3	SNL0200054	28-SEP-90	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW3	SNL0200640	17-JUL-92	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW3	SNL0200769	28-JUL-92	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW3	SNL0201323	03-MAY-94	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW3	SNL0201405	25-OCT-94	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW3	026458-01	16-OCT-95	0.002	U	0.002	SA
4-METHYL-2-PENTANONE	MWL-MW3	026457-01	16-OCT-95	0.002	U	0.002	TB
4-METHYL-2-PENTANONE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW3-EB	SNL0201238	27-APR-94	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.01	U	0.01	TB
4-METHYL-2-PENTANONE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.01	U	0.01	TB
4-METHYL-2-PENTANONE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.01	U	0.01	TB
4-METHYL-2-PENTANONE	MWL-MW4	022154-01	19-APR-95	0.005	U	0.005	SA
4-METHYL-2-PENTANONE	MWL-MW4	026465-01	20-OCT-95	0.002	U	0.002	SA
4-METHYL-2-PENTANONE	MWL-MW4	026466-01	20-OCT-95	0.002	U	0.002	DU
4-METHYL-2-PENTANONE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW4-TB	SNL0200919	21-APR-93	0.01	U	0.01	TB
4-METHYL-2-PENTANONE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.01	U	0.01	TB
4-METHYL-2-PENTANONE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.01	U	0.01	TB
4-METHYL-2-PENTANONE	MWL-MW4C	SNL0201160	11-NOV-93	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-MW4U	SNL0201497	28-OCT-94	0.01	U	0.01	F
4-METHYL-2-PENTANONE	MWL-TB	SNL0200636	18-JUL-92	0.01	U	0.01	TB
4-METHYLPHENOL	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
4-METHYLPHENOL	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
4-METHYLPHENOL	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
4-METHYLPHENOL	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
4-METHYLPHENOL	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
4-METHYLPHENOL	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
4-METHYLPHENOL	MWL-BW1-EB	SNL0201453	28-OCT-94	0.01	U	0.01	F
4-METHYLPHENOL	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
4-METHYLPHENOL	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
4-METHYLPHENOL	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
4-METHYLPHENOL	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
4-METHYLPHENOL	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
4-METHYLPHENOL	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00174881	F
4-METHYLPHENOL	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00174881	F
4-METHYLPHENOL	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
4-METHYLPHENOL	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
4-METHYLPHENOL	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
4-METHYLPHENOL	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
4-METHYLPHENOL	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
4-METHYLPHENOL	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
4-METHYLPHENOL	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00174881	F
4-METHYLPHENOL	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00174881	F
4-METHYLPHENOL	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
4-METHYLPHENOL	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
4-METHYLPHENOL	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
4-METHYLPHENOL	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
4-METHYLPHENOL	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
4-METHYLPHENOL	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
4-METHYLPHENOL	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00174881	F
4-METHYLPHENOL	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00174881	F
4-METHYLPHENOL	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
4-METHYLPHENOL	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
4-METHYLPHENOL	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
4-METHYLPHENOL	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00174881	F
4-METHYLPHENOL	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00174881	F
4-METHYLPHENOL	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00174881	F
4-METHYLPHENOL	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
4-METHYLPHENOL	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
4-NITROBENZENAMINE	MWL-BW1	SNL0200005	27-SEP-90	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-BW1	SNL0200790	29-JUL-92	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-BW1	SNL0201468	27-OCT-94	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-BW1	SNL0201483	27-OCT-94	0.05	U	0.05	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
4-NITROBENZENAMINE	MWL-BW1	026461-02	23-OCT-95	0.00149	U	0.00149	SA
4-NITROBENZENAMINE	MWL-BW1-D	SNL0200012	27-SEP-90	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-BW1-D	SNL0200808	29-JUL-92	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-BW1-EB	SNL0201255	27-APR-94	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-MW1	SNL0200752	28-JUL-92	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-MW1	SNL0201307	03-MAY-94	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-MW1	SNL0201422	25-OCT-94	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-MW1	SNL0201438	25-OCT-94	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-MW1	022149-02	19-APR-95	0.05	U	0.0009441	F
4-NITROBENZENAMINE	MWL-MW1	022149-02	19-APR-95	0.05	U	0.0009441	F
4-NITROBENZENAMINE	MWL-MW1	026464-02	20-OCT-95	0.00149	U	0.00149	SA
4-NITROBENZENAMINE	MWL-MW1-D	SNL0201289	04-MAY-94	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-MW1-EB	SNL0201208	26-APR-94	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-MW2	SNL0200082	28-SEP-90	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-MW2	SNL0200733	27-JUL-92	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-MW2	SNL0201271	02-MAY-94	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-MW2	SNL0201390	24-OCT-94	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-MW2	022145-02	17-APR-95	0.05	U	0.0009441	F
4-NITROBENZENAMINE	MWL-MW2	022145-02	17-APR-95	0.05	U	0.0009441	F
4-NITROBENZENAMINE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-MW2-EB	SNL0201224	27-APR-94	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-MW3	SNL0200057	28-SEP-90	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-MW3	SNL0200770	28-JUL-92	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-MW3	SNL0201325	03-MAY-94	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-MW3	SNL0201406	25-OCT-94	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-MW3	022147-02	17-APR-95	0.05	U	0.0009441	F
4-NITROBENZENAMINE	MWL-MW3	022147-02	17-APR-95	0.05	U	0.0009441	F
4-NITROBENZENAMINE	MWL-MW3	026458-02	16-OCT-95	0.00149	U	0.00149	SA
4-NITROBENZENAMINE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-MW3-EB	SNL0201240	27-APR-94	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-MW4	022150-02	19-APR-95	0.05	U	0.0009441	F
4-NITROBENZENAMINE	MWL-MW4	022150-02	19-APR-95	0.05	U	0.0009441	F
4-NITROBENZENAMINE	MWL-MW4	022151-02	19-APR-95	0.05	U	0.0009441	F
4-NITROBENZENAMINE	MWL-MW4	026465-02	20-OCT-95	0.00149	U	0.00149	SA
4-NITROBENZENAMINE	MWL-MW4	026466-02	20-OCT-95	0.00149	U	0.00149	DU
4-NITROBENZENAMINE	MWL-MW4U	SNL0201342	31-MAY-94	0.05	U	0.05	F
4-NITROBENZENAMINE	MWL-MW4U	SNL0201498	28-OCT-94	0.05	U	0.05	F
4-NITROPHENOL	MWL-BW1	SNL0200005	27-SEP-90	0.05	U	0.05	F
4-NITROPHENOL	MWL-BW1	SNL0200790	29-JUL-92	0.05	U	0.05	F
4-NITROPHENOL	MWL-BW1	SNL0201468	27-OCT-94	0.05	U	0.05	F
4-NITROPHENOL	MWL-BW1	SNL0201483	27-OCT-94	0.05	U	0.05	F
4-NITROPHENOL	MWL-BW1	026461-02	23-OCT-95	0.01	U	0.01	SA
4-NITROPHENOL	MWL-BW1-D	SNL0200012	27-SEP-90	0.05	U	0.05	F
4-NITROPHENOL	MWL-BW1-D	SNL0200808	29-JUL-92	0.05	U	0.05	F
4-NITROPHENOL	MWL-BW1-EB	SNL0200714	23-JUL-92	0.05	U	0.05	F
4-NITROPHENOL	MWL-BW1-EB	SNL0201255	27-APR-94	0.05	U	0.05	F
4-NITROPHENOL	MWL-BW1-EB	SNL0201453	26-OCT-94	0.05	U	0.05	F
4-NITROPHENOL	MWL-BW1-FB	SNL0200827	29-JUL-92	0.05	U	0.05	F
4-NITROPHENOL	MWL-MW1	SNL0200752	28-JUL-92	0.05	U	0.05	F
4-NITROPHENOL	MWL-MW1	SNL0201307	03-MAY-94	0.05	U	0.05	F
4-NITROPHENOL	MWL-MW1	SNL0201422	25-OCT-94	0.05	U	0.05	F
4-NITROPHENOL	MWL-MW1	SNL0201438	25-OCT-94	0.05	U	0.05	F
4-NITROPHENOL	MWL-MW1	022149-02	19-APR-95	0.05	U	0.00202772	F
4-NITROPHENOL	MWL-MW1	022149-02	19-APR-95	0.056		0.00202772	SD
4-NITROPHENOL	MWL-MW1	022149-02	19-APR-95	0.05	U	0.00202772	F
4-NITROPHENOL	MWL-MW1	022149-02	19-APR-95	0.056		0.00202772	SD
4-NITROPHENOL	MWL-MW1	026464-02	20-OCT-95	0.01	U	0.01	SA
4-NITROPHENOL	MWL-MW1-D	SNL0201289	04-MAY-94	0.05	U	0.05	F
4-NITROPHENOL	MWL-MW1-EB	SNL0200677	22-JUL-92	0.05	U	0.05	F
4-NITROPHENOL	MWL-MW1-EB	SNL0201208	26-APR-94	0.05	U	0.05	F
4-NITROPHENOL	MWL-MW2	SNL0200082	28-SEP-90	0.05	U	0.05	F
4-NITROPHENOL	MWL-MW2	SNL0200733	27-JUL-92	0.05	U	0.05	F
4-NITROPHENOL	MWL-MW2	SNL0201271	02-MAY-94	0.05	U	0.05	F
4-NITROPHENOL	MWL-MW2	SNL0201390	24-OCT-94	0.05	U	0.05	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
4-NITROPHENOL	MWL-MW2	022145-02	17-APR-95	0.05	U	0.00202772	F
4-NITROPHENOL	MWL-MW2	022145-02	17-APR-95	0.05	U	0.00202772	F
4-NITROPHENOL	MWL-MW2-EB	SNL0200695	22-JUL-92	0.05	U	0.05	F
4-NITROPHENOL	MWL-MW2-EB	SNL0201224	27-APR-94	0.05	U	0.05	F
4-NITROPHENOL	MWL-MW2-EB	SNL0201374	19-OCT-94	0.05	U	0.05	F
4-NITROPHENOL	MWL-MW3	SNL0200057	28-SEP-90	0.05	U	0.05	F
4-NITROPHENOL	MWL-MW3	SNL0200770	28-JUL-92	0.05	U	0.05	F
4-NITROPHENOL	MWL-MW3	SNL0201325	03-MAY-94	0.05	U	0.05	F
4-NITROPHENOL	MWL-MW3	SNL0201406	25-OCT-94	0.05	U	0.05	F
4-NITROPHENOL	MWL-MW3	022147-02	17-APR-95	0.05	U	0.00202772	F
4-NITROPHENOL	MWL-MW3	022147-02	17-APR-95	0.05	U	0.00202772	F
4-NITROPHENOL	MWL-MW3	026458-02	16-OCT-95	0.01	U	0.01	SA
4-NITROPHENOL	MWL-MW3-EB	SNL0200658	21-JUL-92	0.05	U	0.05	F
4-NITROPHENOL	MWL-MW3-EB	SNL0201240	27-APR-94	0.05	U	0.05	F
4-NITROPHENOL	MWL-MW3-EB	SNL0201358	17-OCT-94	0.05	U	0.05	F
4-NITROPHENOL	MWL-MW4	022150-02	19-APR-95	0.05	U	0.00202772	F
4-NITROPHENOL	MWL-MW4	022150-02	19-APR-95	0.05	U	0.00202772	F
4-NITROPHENOL	MWL-MW4	022151-02	19-APR-95	0.05	U	0.00202772	F
4-NITROPHENOL	MWL-MW4	026465-02	20-OCT-95	0.01	U	0.01	SA
4-NITROPHENOL	MWL-MW4	026466-02	20-OCT-95	0.01	U	0.01	DU
4-NITROPHENOL	MWL-MW4U	SNL0201342	31-MAY-94	0.05	U	0.05	F
4-NITROPHENOL	MWL-MW4U	SNL0201498	28-OCT-94	0.05	U	0.05	F
4-NITROQUINOLINE-1-OXIDE	MWL-BW1	SNL0200005	27-SEP-90	100000	U	100000	F
4-NITROQUINOLINE-1-OXIDE	MWL-BW1-D	SNL0200012	27-SEP-90	100000	U	100000	F
4-NITROQUINOLINE-1-OXIDE	MWL-MW2	SNL0200082	28-SEP-90	100000	U	100000	F
4-NITROQUINOLINE-1-OXIDE	MWL-MW3	SNL0200057	28-SEP-90	100000	U	100000	F
5-(2-PROPENYL)-1,3-BENZODIOXOLE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
5-(2-PROPENYL)-1,3-BENZODIOXOLE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
5-(2-PROPENYL)-1,3-BENZODIOXOLE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
5-(2-PROPENYL)-1,3-BENZODIOXOLE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
5-NITRO-O-TOLUIDINE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
5-NITRO-O-TOLUIDINE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
5-NITRO-O-TOLUIDINE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
5-NITRO-O-TOLUIDINE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
7,12-DIMETHYLBENZ(A)ANTHRACENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
7,12-DIMETHYLBENZ(A)ANTHRACENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
7,12-DIMETHYLBENZ(A)ANTHRACENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
7,12-DIMETHYLBENZ(A)ANTHRACENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
7-OXABICYCLO 4.1.0 HEPTANE	MWL-MW2-EB	SNL0201533	19-OCT-94	0.0068		100000	F
A,A-DIMETHYLPHENETHYLAMINE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
A,A-DIMETHYLPHENETHYLAMINE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
A,A-DIMETHYLPHENETHYLAMINE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
A,A-DIMETHYLPHENETHYLAMINE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
ACENAPHTHENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
ACENAPHTHENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
ACENAPHTHENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
ACENAPHTHENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
ACENAPHTHENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
ACENAPHTHENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
ACENAPHTHENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
ACENAPHTHENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
ACENAPHTHENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
ACENAPHTHENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
ACENAPHTHENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
ACENAPHTHENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
ACENAPHTHENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
ACENAPHTHENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
ACENAPHTHENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
ACENAPHTHENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00140698	F
ACENAPHTHENE	MWL-MW1	022149-02	19-APR-95	0.025		0.00140698	SD
ACENAPHTHENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00140698	F
ACENAPHTHENE	MWL-MW1	022149-02	19-APR-95	0.025		0.00140698	SD
ACENAPHTHENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
ACENAPHTHENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
ACENAPHTHENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
ACENAPHTHENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
ACENAPHTHENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
ACENAPHTHENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
ACENAPHTHENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
ACENAPHTHENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00140698	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
ACENAPHTHENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00140698	F
ACENAPHTHENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
ACENAPHTHENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
ACENAPHTHENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
ACENAPHTHENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
ACENAPHTHENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
ACENAPHTHENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
ACENAPHTHENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
ACENAPHTHENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00140698	F
ACENAPHTHENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00140698	F
ACENAPHTHENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
ACENAPHTHENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
ACENAPHTHENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
ACENAPHTHENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
ACENAPHTHENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00140698	F
ACENAPHTHENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00140698	F
ACENAPHTHENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00140698	F
ACENAPHTHENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
ACENAPHTHENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
ACENAPHTHYLENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00095357	F
ACENAPHTHYLENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00095357	F
ACENAPHTHYLENE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
ACENAPHTHYLENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00095357	F
ACENAPHTHYLENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00095357	F
ACENAPHTHYLENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00095357	F
ACENAPHTHYLENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00095357	F
ACENAPHTHYLENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
ACENAPHTHYLENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00095357	F
ACENAPHTHYLENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00095357	F
ACENAPHTHYLENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00095357	F
ACENAPHTHYLENE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
ACENAPHTHYLENE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
ACENAPHTHYLENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
ACENAPHTHYLENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
ACETONE	MWL-BW1	SNL0200002	27-SEP-90	0.01	U	0.01	F
ACETONE	MWL-BW1	SNL0200637	17-JUL-92	0.01	U	0.01	F
ACETONE	MWL-BW1	SNL0200789	29-JUL-92	0.01	U	0.01	F
ACETONE	MWL-BW1	SNL0201467	27-OCT-94	0.0025	J	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
ACETONE	MWL-BW1	SNL0201512	27-OCT-94	0.01	U	0.01	F
ACETONE	MWL-BW1	SNL0201482	27-OCT-94	0.01	U	0.01	F
ACETONE	MWL-BW1	026461-01	23-OCT-95	0.00229	J	0.002	SA
ACETONE	MWL-BW1-D	SNL0200009	27-SEP-90	0.01	U	0.01	F
ACETONE	MWL-BW1-D	SNL0200807	29-JUL-92	0.01	U	0.01	F
ACETONE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.01	U	0.01	F
ACETONE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.014	B	0.01	F
ACETONE	MWL-BW1-EB	SNL0201253	27-APR-94	0.01	U	0.01	F
ACETONE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.01	U	0.01	F
ACETONE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.01	U	0.01	F
ACETONE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.01	U	0.01	F
ACETONE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.01	U	0.01	F
ACETONE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.01	U	0.01	TB
ACETONE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.01	U	0.01	TB
ACETONE	MWL-BW1-TB	SNL0201268	27-APR-94	0.01	U	0.01	TB
ACETONE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.01	U	0.01	TB
ACETONE	MWL-MW1	SNL0200638	17-JUL-92	0.01	U	0.01	F
ACETONE	MWL-MW1	SNL0200751	28-JUL-92	0.01	U	0.01	F
ACETONE	MWL-MW1	SNL0201305	03-MAY-94	0.01	U	0.01	F
ACETONE	MWL-MW1	SNL0201421	25-OCT-94	0.01	U	0.01	F
ACETONE	MWL-MW1	SNL0201437	25-OCT-94	0.01	U	0.01	F
ACETONE	MWL-MW1	022149-01	19-APR-95	0.01	U	0.00175	F
ACETONE	MWL-MW1	022149-01	19-APR-95	0.01	U	0.00175	F
ACETONE	MWL-MW1	026464-01	20-OCT-95	0.00936		0.002	SA
ACETONE	MWL-MW1-D	SNL0201287	04-MAY-94	0.01	U	0.01	F
ACETONE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.01	U	0.01	F
ACETONE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.01	U	0.01	F
ACETONE	MWL-MW1-EB	SNL0201206	26-APR-94	0.01	U	0.01	F
ACETONE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.01	U	0.01	F
ACETONE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.01	U	0.01	TB
ACETONE	MWL-MW1-TB	SNL0201221	26-APR-94	0.01	U	0.01	TB
ACETONE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.01	U	0.01	TB
ACETONE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.01	U	0.01	TB
ACETONE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.01	U	0.01	TB
ACETONE	MWL-MW2	SNL0200079	28-SEP-90	0.01	U	0.01	F
ACETONE	MWL-MW2	SNL0200639	17-JUL-92	0.01	U	0.01	F
ACETONE	MWL-MW2	SNL0200732	27-JUL-92	0.01	U	0.01	F
ACETONE	MWL-MW2	SNL0201269	02-MAY-94	0.01	U	0.01	F
ACETONE	MWL-MW2	SNL0201389	24-OCT-94	0.0032	J	0.01	F
ACETONE	MWL-MW2	022145-01	17-APR-95	0.01	U	0.00175	F
ACETONE	MWL-MW2	022145-01	17-APR-95	0.01	U	0.00175	F
ACETONE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.01	U	0.01	F
ACETONE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.01	U	0.01	F
ACETONE	MWL-MW2-EB	SNL0201222	27-APR-94	0.01	U	0.01	F
ACETONE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.0033	J	0.01	F
ACETONE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.01	U	0.01	TB
ACETONE	MWL-MW2-TB	SNL0201237	27-APR-94	0.01	U	0.01	TB
ACETONE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.01	U	0.01	TB
ACETONE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.01	U	0.01	TB
ACETONE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.01	U	0.01	F
ACETONE	MWL-MW3	SNL0200054	28-SEP-90	0.01	U	0.01	F
ACETONE	MWL-MW3	SNL0200640	17-JUL-92	0.01	U	0.01	F
ACETONE	MWL-MW3	SNL0200769	28-JUL-92	0.01	U	0.01	F
ACETONE	MWL-MW3	SNL0201323	03-MAY-94	0.01	U	0.01	F
ACETONE	MWL-MW3	SNL0201405	25-OCT-94	0.01	U	0.01	F
ACETONE	MWL-MW3	022147-01	17-APR-95	0.01	U	0.00175	F
ACETONE	MWL-MW3	022147-01	17-APR-95	0.01	U	0.00175	F
ACETONE	MWL-MW3	026458-01	16-OCT-95	0.00765		0.002	SA
ACETONE	MWL-MW3	026457-01	16-OCT-95	0.00321	J	0.002	TB
ACETONE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.01	U	0.01	F
ACETONE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.01	U	0.01	F
ACETONE	MWL-MW3-EB	SNL0201238	27-APR-94	0.01	U	0.01	F
ACETONE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.01	U	0.01	F
ACETONE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.01	U	0.01	F
ACETONE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.01	U	0.01	F
ACETONE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.01	U	0.01	TB
ACETONE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.01	U	0.01	TB
ACETONE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.0029	J	0.01	F
ACETONE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.01	U	0.01	TB
ACETONE	MWL-MW4	022154-01	19-APR-95	0.005	U	0.005	SA

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
ACETONE	MWL-MW4	022150-01	19-APR-95	0.01	U	0.00175	F
ACETONE	MWL-MW4	022151-01	19-APR-95	0.01	U	0.00175	F
ACETONE	MWL-MW4	022150-01	19-APR-95	0.01	U	0.00175	F
ACETONE	MWL-MW4	026465-01	20-OCT-95	0.00783		0.002	SA
ACETONE	MWL-MW4	026466-01	20-OCT-95	0.00371	J	0.002	DU
ACETONE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.01	U	0.01	F
ACETONE	MWL-MW4-TB	SNL0200919	21-APR-93	0.0056	JB	0.01	TB
ACETONE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.01	U	0.01	TB
ACETONE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.01	U	0.01	TB
ACETONE	MWL-MW4C	SNL0201160	11-NOV-93	0.01	U	0.01	F
ACETONE	MWL-MW4U	SNL0201497	28-OCT-94	0.01	U	0.01	F
ACETONE	MWL-TB	SNL0200636	18-JUL-92	0.01	U	0.01	TB
ACETONITRILE	MWL-BW1	SNL0200002	27-SEP-90	0.2	U	0.2	F
ACETONITRILE	MWL-BW1	SNL0200637	17-JUL-92	0.2	U	0.2	F
ACETONITRILE	MWL-BW1-D	SNL0200009	27-SEP-90	0.2	U	0.2	F
ACETONITRILE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.2	U	0.2	F
ACETONITRILE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.2	U	0.2	F
ACETONITRILE	MWL-MW1	SNL0200638	17-JUL-92	0.2	U	0.2	F
ACETONITRILE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.2	U	0.2	F
ACETONITRILE	MWL-MW2	SNL0200079	28-SEP-90	0.2	U	0.2	F
ACETONITRILE	MWL-MW2	SNL0200639	17-JUL-92	0.2	U	0.2	F
ACETONITRILE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.2	U	0.2	F
ACETONITRILE	MWL-MW3	SNL0200054	28-SEP-90	0.2	U	0.2	F
ACETONITRILE	MWL-MW3	SNL0200640	17-JUL-92	0.2	U	0.2	F
ACETONITRILE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.2	U	0.2	F
ACETONITRILE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.2	U	0.2	F
ACETONITRILE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.2	U	0.2	F
ACETONITRILE	MWL-TB	SNL0200636	18-JUL-92	0.2	U	0.2	TB
ACETOPHENONE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
ACETOPHENONE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
ACETOPHENONE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
ACETOPHENONE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
ACROLEIN	MWL-BW1	SNL0200002	27-SEP-90	0.1	U	0.1	F
ACROLEIN	MWL-BW1	SNL0200637	17-JUL-92	0.1	U	0.1	F
ACROLEIN	MWL-BW1-D	SNL0200009	27-SEP-90	0.1	U	0.1	F
ACROLEIN	MWL-BW1-EB	SNL0200631	17-JUL-92	0.1	U	0.1	F
ACROLEIN	MWL-BW1-FB	SNL0200001	27-SEP-90	0.1	U	0.1	F
ACROLEIN	MWL-MW1	SNL0200638	17-JUL-92	0.1	U	0.1	F
ACROLEIN	MWL-MW1-EB	SNL0200632	17-JUL-92	0.1	U	0.1	F
ACROLEIN	MWL-MW2	SNL0200079	28-SEP-90	0.1	U	0.1	F
ACROLEIN	MWL-MW2	SNL0200639	17-JUL-92	0.1	U	0.1	F
ACROLEIN	MWL-MW2-EB	SNL0200633	17-JUL-92	0.1	U	0.1	F
ACROLEIN	MWL-MW3	SNL0200054	28-SEP-90	0.1	U	0.1	F
ACROLEIN	MWL-MW3	SNL0200640	17-JUL-92	0.1	U	0.1	F
ACROLEIN	MWL-MW3-EB	SNL0200634	17-JUL-92	0.1	U	0.1	F
ACROLEIN	MWL-MW3-FB	SNL0200052	28-SEP-90	0.1	U	0.1	F
ACROLEIN	MWL-MW3-TB	SNL0200053	28-SEP-90	0.1	U	0.1	F
ACROLEIN	MWL-TB	SNL0200636	18-JUL-92	0.1	U	0.1	TB
ACRYLONITRILE	MWL-BW1	SNL0200002	27-SEP-90	0.1	U	0.1	F
ACRYLONITRILE	MWL-BW1	SNL0200637	17-JUL-92	0.1	U	0.1	F
ACRYLONITRILE	MWL-BW1-D	SNL0200009	27-SEP-90	0.1	U	0.1	F
ACRYLONITRILE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.1	U	0.1	F
ACRYLONITRILE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.1	U	0.1	F
ACRYLONITRILE	MWL-MW1	SNL0200636	17-JUL-92	0.1	U	0.1	F
ACRYLONITRILE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.1	U	0.1	F
ACRYLONITRILE	MWL-MW2	SNL0200079	28-SEP-90	0.1	U	0.1	F
ACRYLONITRILE	MWL-MW2	SNL0200639	17-JUL-92	0.1	U	0.1	F
ACRYLONITRILE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.1	U	0.1	F
ACRYLONITRILE	MWL-MW3	SNL0200054	28-SEP-90	0.1	U	0.1	F
ACRYLONITRILE	MWL-MW3	SNL0200640	17-JUL-92	0.1	U	0.1	F
ACRYLONITRILE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.1	U	0.1	F
ACRYLONITRILE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.1	U	0.1	F
ACRYLONITRILE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.1	U	0.1	F
ACRYLONITRILE	MWL-TB	SNL0200636	18-JUL-92	0.1	U	0.1	TB
ALCOHOL	MWL-MW4U	SNL0201537	31-MAY-94	0.0042		100000	F
ALCOHOL	MWL-MW4U	SNL0201537	31-MAY-94	0.035		100000	F
ALCOHOL	MWL-MW4U	SNL0201537	31-MAY-94	0.026		100000	F
ALCOHOL	MWL-MW4U	SNL0201537	31-MAY-94	0.0092		100000	F
ALCOHOL	MWL-MW4U	SNL0201537	31-MAY-94	0.017		100000	F
ALDRIN	MWL-BW1	SNL0200006	27-SEP-90	0.00005	U	0.00005	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
ALDRIN	MWL-BW1	SNL0200277	07-MAY-91	0.00005	U	0.00005	F
ALDRIN	MWL-BW1	SNL0200420	06-AUG-91	0.00005	U	0.00005	F
ALDRIN	MWL-BW1	SNL0200567	16-OCT-91	0.00005	U	0.00005	F
ALDRIN	MWL-BW1	SNL0201514	31-OCT-94	0.00005	U	0.00005	F
ALDRIN	MWL-BW1-D	SNL0200013	27-SEP-90	0.00005	U	0.00005	F
ALDRIN	MWL-BW1-D	SNL0200281	07-MAY-91	0.00005	U	0.00005	F
ALDRIN	MWL-BW1-D	SNL0200437	06-AUG-91	0.00005	U	0.00005	F
ALDRIN	MWL-BW1-D	SNL0200585	16-OCT-91	0.00005	U	0.00005	F
ALDRIN	MWL-BW1-EB	SNL0200495	09-OCT-91	0.00005	U	0.00005	F
ALDRIN	MWL-BW1-FB	SNL0200603	16-OCT-91	0.00005	U	0.00005	F
ALDRIN	MWL-MW1	SNL0200279	07-MAY-91	0.00005	U	0.00005	F
ALDRIN	MWL-MW1	SNL0200352	31-JUL-91	0.00005	U	0.00005	F
ALDRIN	MWL-MW1	SNL0200549	15-OCT-91	0.00005	U	0.00005	F
ALDRIN	MWL-MW1-EB	SNL0200459	08-OCT-91	0.00005	U	0.00005	F
ALDRIN	MWL-MW2	SNL0200083	28-SEP-90	0.00005	U	0.00005	F
ALDRIN	MWL-MW2	SNL0200217	02-MAY-91	0.00005	U	0.00005	F
ALDRIN	MWL-MW2	SNL0200369	01-AUG-91	0.00005	U	0.00005	F
ALDRIN	MWL-MW2	SNL0200513	14-OCT-91	0.00005	U	0.00005	F
ALDRIN	MWL-MW2-EB	SNL0200441	07-OCT-91	0.00005	U	0.00005	F
ALDRIN	MWL-MW3	SNL0200058	28-SEP-90	0.00005	U	0.00005	F
ALDRIN	MWL-MW3	SNL0200219	02-MAY-91	0.00005	U	0.00005	F
ALDRIN	MWL-MW3	SNL0200403	05-AUG-91	0.00005	U	0.00005	F
ALDRIN	MWL-MW3	SNL0200531	15-OCT-91	0.00005	U	0.00005	F
ALDRIN	MWL-MW3-EB	SNL0200477	09-OCT-91	0.00005	U	0.00005	F
ALLYL CHLORIDE	MWL-BW1	SNL0200002	27-SEP-90	0.01	U	0.01	F
ALLYL CHLORIDE	MWL-BW1	SNL0200637	17-JUL-92	0.01	U	0.01	F
ALLYL CHLORIDE	MWL-BW1-D	SNL0200009	27-SEP-90	0.01	U	0.01	F
ALLYL CHLORIDE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.01	U	0.01	F
ALLYL CHLORIDE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.01	U	0.01	F
ALLYL CHLORIDE	MWL-MW1	SNL0200638	17-JUL-92	0.01	U	0.01	F
ALLYL CHLORIDE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.01	U	0.01	F
ALLYL CHLORIDE	MWL-MW2	SNL0200079	28-SEP-90	0.01	U	0.01	F
ALLYL CHLORIDE	MWL-MW2	SNL0200639	17-JUL-92	0.01	U	0.01	F
ALLYL CHLORIDE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.01	U	0.01	F
ALLYL CHLORIDE	MWL-MW3	SNL0200054	28-SEP-90	0.01	U	0.01	F
ALLYL CHLORIDE	MWL-MW3	SNL0200640	17-JUL-92	0.01	U	0.01	F
ALLYL CHLORIDE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.01	U	0.01	F
ALLYL CHLORIDE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.01	U	0.01	F
ALLYL CHLORIDE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.01	U	0.01	F
ALLYL CHLORIDE	MWL-TB	SNL0200636	18-JUL-92	0.01	U	0.01	TB
ALPHA-BHC	MWL-BW1	SNL0200006	27-SEP-90	0.00005	U	0.00005	F
ALPHA-BHC	MWL-BW1	SNL0200277	07-MAY-91	0.00005	U	0.00005	F
ALPHA-BHC	MWL-BW1	SNL0200420	06-AUG-91	0.00005	U	0.00005	F
ALPHA-BHC	MWL-BW1	SNL0200567	16-OCT-91	0.00005	U	0.00005	F
ALPHA-BHC	MWL-BW1	SNL0201514	31-OCT-94	0.00005	U	0.00005	F
ALPHA-BHC	MWL-BW1-D	SNL0200013	27-SEP-90	0.00005	U	0.00005	F
ALPHA-BHC	MWL-BW1-D	SNL0200281	07-MAY-91	0.00005	U	0.00005	F
ALPHA-BHC	MWL-BW1-D	SNL0200437	06-AUG-91	0.00005	U	0.00005	F
ALPHA-BHC	MWL-BW1-D	SNL0200585	16-OCT-91	0.00005	U	0.00005	F
ALPHA-BHC	MWL-BW1-EB	SNL0200495	09-OCT-91	0.00005	U	0.00005	F
ALPHA-BHC	MWL-BW1-FB	SNL0200603	16-OCT-91	0.00005	U	0.00005	F
ALPHA-BHC	MWL-MW1	SNL0200279	07-MAY-91	0.00005	U	0.00005	F
ALPHA-BHC	MWL-MW1	SNL0200352	31-JUL-91	0.00005	U	0.00005	F
ALPHA-BHC	MWL-MW1	SNL0200549	15-OCT-91	0.00005	U	0.00005	F
ALPHA-BHC	MWL-MW1-EB	SNL0200459	08-OCT-91	0.00005	U	0.00005	F
ALPHA-BHC	MWL-MW2	SNL0200083	28-SEP-90	0.00005	U	0.00005	F
ALPHA-BHC	MWL-MW2	SNL0200217	02-MAY-91	0.00005	U	0.00005	F
ALPHA-BHC	MWL-MW2	SNL0200369	01-AUG-91	0.00005	U	0.00005	F
ALPHA-BHC	MWL-MW2	SNL0200513	14-OCT-91	0.00005	U	0.00005	F
ALPHA-BHC	MWL-MW2-EB	SNL0200441	07-OCT-91	0.00005	U	0.00005	F
ALPHA-BHC	MWL-MW3	SNL0200058	28-SEP-90	0.00005	U	0.00005	F
ALPHA-BHC	MWL-MW3	SNL0200219	02-MAY-91	0.00005	U	0.00005	F
ALPHA-BHC	MWL-MW3	SNL0200403	05-AUG-91	0.00005	U	0.00005	F
ALPHA-BHC	MWL-MW3	SNL0200531	15-OCT-91	0.00005	U	0.00005	F
ALPHA-BHC	MWL-MW3-EB	SNL0200477	09-OCT-91	0.00005	U	0.00005	F
ALPHA-CHLORDANE	MWL-BW1	SNL0200006	27-SEP-90	0.00005	U	0.00005	F
ALPHA-CHLORDANE	MWL-BW1	SNL0200277	07-MAY-91	0.00005	U	0.00005	F
ALPHA-CHLORDANE	MWL-BW1	SNL0200420	06-AUG-91	0.00005	U	0.00005	F
ALPHA-CHLORDANE	MWL-BW1	SNL0200567	16-OCT-91	0.00005	U	0.00005	F
ALPHA-CHLORDANE	MWL-BW1	SNL0201514	31-OCT-94	0.00005	U	0.00005	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
ALPHA-CHLORDANE	MWL-BW1-D	SNL0200013	27-SEP-90	0.00005	U	0.00005	F
ALPHA-CHLORDANE	MWL-BW1-D	SNL0200281	07-MAY-91	0.00005	U	0.00005	F
ALPHA-CHLORDANE	MWL-BW1-D	SNL0200437	06-AUG-91	0.00005	U	0.00005	F
ALPHA-CHLORDANE	MWL-BW1-D	SNL0200585	16-OCT-91	0.00005	U	0.00005	F
ALPHA-CHLORDANE	MWL-BW1-EB	SNL0200495	09-OCT-91	0.00005	U	0.00005	F
ALPHA-CHLORDANE	MWL-BW1-FB	SNL0200603	16-OCT-91	0.00005	U	0.00005	F
ALPHA-CHLORDANE	MWL-MW1	SNL0200279	07-MAY-91	0.00005	U	0.00005	F
ALPHA-CHLORDANE	MWL-MW1	SNL0200352	31-JUL-91	0.00005	U	0.00005	F
ALPHA-CHLORDANE	MWL-MW1	SNL0200549	15-OCT-91	0.00005	U	0.00005	F
ALPHA-CHLORDANE	MWL-MW1-EB	SNL0200459	08-OCT-91	0.00005	U	0.00005	F
ALPHA-CHLORDANE	MWL-MW2	SNL0200083	28-SEP-90	0.00005	U	0.00005	F
ALPHA-CHLORDANE	MWL-MW2	SNL0200217	02-MAY-91	0.00005	U	0.00005	F
ALPHA-CHLORDANE	MWL-MW2	SNL0200369	01-AUG-91	0.00005	U	0.00005	F
ALPHA-CHLORDANE	MWL-MW2	SNL0200513	14-OCT-91	0.00005	U	0.00005	F
ALPHA-CHLORDANE	MWL-MW2-EB	SNL0200441	07-OCT-91	0.00005	U	0.00005	F
ALPHA-CHLORDANE	MWL-MW3	SNL0200058	28-SEP-90	0.00005	U	0.00005	F
ALPHA-CHLORDANE	MWL-MW3	SNL0200219	02-MAY-91	0.00005	U	0.00005	F
ALPHA-CHLORDANE	MWL-MW3	SNL0200403	05-AUG-91	0.00005	U	0.00005	F
ALPHA-CHLORDANE	MWL-MW3	SNL0200531	15-OCT-91	0.00005	U	0.00005	F
ALPHA-CHLORDANE	MWL-MW3-EB	SNL0200477	09-OCT-91	0.00005	U	0.00005	F
ANILINE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
ANILINE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
ANILINE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
ANILINE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
ANTHRACENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
ANTHRACENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
ANTHRACENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
ANTHRACENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
ANTHRACENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
ANTHRACENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
ANTHRACENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
ANTHRACENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
ANTHRACENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
ANTHRACENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
ANTHRACENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
ANTHRACENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
ANTHRACENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
ANTHRACENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
ANTHRACENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
ANTHRACENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.0007893	F
ANTHRACENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.0007893	F
ANTHRACENE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
ANTHRACENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
ANTHRACENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
ANTHRACENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
ANTHRACENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
ANTHRACENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
ANTHRACENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
ANTHRACENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
ANTHRACENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.0007893	F
ANTHRACENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.0007893	F
ANTHRACENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
ANTHRACENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
ANTHRACENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
ANTHRACENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
ANTHRACENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
ANTHRACENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
ANTHRACENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
ANTHRACENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.0007893	F
ANTHRACENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.0007893	F
ANTHRACENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
ANTHRACENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
ANTHRACENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
ANTHRACENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
ANTHRACENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.0007893	F
ANTHRACENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.0007893	F
ANTHRACENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.0007893	F
ANTHRACENE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
ANTHRACENE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
ANTHRACENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
ANTHRACENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
ARAMITE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
ARAMITE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
ARAMITE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
ARAMITE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
AROCLOR 1016	MWL-BW1	SNL0200006	27-SEP-90	0.001	U	0.001	F
AROCLOR 1016	MWL-BW1	SNL0200277	07-MAY-91	0.001	U	0.001	F
AROCLOR 1016	MWL-BW1	SNL0200420	06-AUG-91	0.001	U	0.001	F
AROCLOR 1016	MWL-BW1	SNL0200567	16-OCT-91	0.001	U	0.001	F
AROCLOR 1016	MWL-BW1	SNL0201514	31-OCT-94	0.001	U	0.001	F
AROCLOR 1016	MWL-BW1-D	SNL0200013	27-SEP-90	0.001	U	0.001	F
AROCLOR 1016	MWL-BW1-D	SNL0200281	07-MAY-91	0.001	U	0.001	F
AROCLOR 1016	MWL-BW1-D	SNL0200437	06-AUG-91	0.001	U	0.001	F
AROCLOR 1016	MWL-BW1-D	SNL0200585	16-OCT-91	0.001	U	0.001	F
AROCLOR 1016	MWL-BW1-EB	SNL0200495	09-OCT-91	0.001	U	0.001	F
AROCLOR 1016	MWL-BW1-FB	SNL0200603	16-OCT-91	0.001	U	0.001	F
AROCLOR 1016	MWL-MW1	SNL0200279	07-MAY-91	0.001	U	0.001	F
AROCLOR 1016	MWL-MW1	SNL0200352	31-JUL-91	0.001	U	0.001	F
AROCLOR 1016	MWL-MW1	SNL0200549	15-OCT-91	0.001	U	0.001	F
AROCLOR 1016	MWL-MW1-EB	SNL0200459	08-OCT-91	0.001	U	0.001	F
AROCLOR 1016	MWL-MW2	SNL0200083	28-SEP-90	0.001	U	0.001	F
AROCLOR 1016	MWL-MW2	SNL0200217	02-MAY-91	0.001	U	0.001	F
AROCLOR 1016	MWL-MW2	SNL0200369	01-AUG-91	0.001	U	0.001	F
AROCLOR 1016	MWL-MW2	SNL0200513	14-OCT-91	0.001	U	0.001	F
AROCLOR 1016	MWL-MW2-EB	SNL0200441	07-OCT-91	0.001	U	0.001	F
AROCLOR 1016	MWL-MW3	SNL0200058	28-SEP-90	0.001	U	0.001	F
AROCLOR 1016	MWL-MW3	SNL0200219	02-MAY-91	0.001	U	0.001	F
AROCLOR 1016	MWL-MW3	SNL0200403	05-AUG-91	0.001	U	0.001	F
AROCLOR 1016	MWL-MW3	SNL0200531	15-OCT-91	0.001	U	0.001	F
AROCLOR 1016	MWL-MW3-EB	SNL0200477	09-OCT-91	0.001	U	0.001	F
AROCLOR 1221	MWL-BW1	SNL0200006	27-SEP-90	0.001	U	0.001	F
AROCLOR 1221	MWL-BW1	SNL0200277	07-MAY-91	0.001	U	0.001	F
AROCLOR 1221	MWL-BW1	SNL0200420	06-AUG-91	0.001	U	0.001	F
AROCLOR 1221	MWL-BW1	SNL0200567	16-OCT-91	0.001	U	0.001	F
AROCLOR 1221	MWL-BW1	SNL0201514	31-OCT-94	0.001	U	0.001	F
AROCLOR 1221	MWL-BW1-D	SNL0200013	27-SEP-90	0.001	U	0.001	F
AROCLOR 1221	MWL-BW1-D	SNL0200281	07-MAY-91	0.001	U	0.001	F
AROCLOR 1221	MWL-BW1-D	SNL0200437	06-AUG-91	0.001	U	0.001	F
AROCLOR 1221	MWL-BW1-D	SNL0200585	16-OCT-91	0.001	U	0.001	F
AROCLOR 1221	MWL-BW1-EB	SNL0200495	09-OCT-91	0.001	U	0.001	F
AROCLOR 1221	MWL-BW1-FB	SNL0200603	16-OCT-91	0.001	U	0.001	F
AROCLOR 1221	MWL-MW1	SNL0200279	07-MAY-91	0.001	U	0.001	F
AROCLOR 1221	MWL-MW1	SNL0200352	31-JUL-91	0.001	U	0.001	F
AROCLOR 1221	MWL-MW1	SNL0200549	15-OCT-91	0.001	U	0.001	F
AROCLOR 1221	MWL-MW1-EB	SNL0200459	08-OCT-91	0.001	U	0.001	F
AROCLOR 1221	MWL-MW2	SNL0200083	28-SEP-90	0.001	U	0.001	F
AROCLOR 1221	MWL-MW2	SNL0200217	02-MAY-91	0.001	U	0.001	F
AROCLOR 1221	MWL-MW2	SNL0200369	01-AUG-91	0.001	U	0.001	F
AROCLOR 1221	MWL-MW2	SNL0200513	14-OCT-91	0.001	U	0.001	F
AROCLOR 1221	MWL-MW2-EB	SNL0200441	07-OCT-91	0.001	U	0.001	F
AROCLOR 1221	MWL-MW3	SNL0200058	28-SEP-90	0.001	U	0.001	F
AROCLOR 1221	MWL-MW3	SNL0200219	02-MAY-91	0.001	U	0.001	F
AROCLOR 1221	MWL-MW3	SNL0200403	05-AUG-91	0.001	U	0.001	F
AROCLOR 1221	MWL-MW3	SNL0200531	15-OCT-91	0.001	U	0.001	F
AROCLOR 1221	MWL-MW3-EB	SNL0200477	09-OCT-91	0.001	U	0.001	F
AROCLOR 1232	MWL-BW1	SNL0200006	27-SEP-90	0.001	U	0.001	F
AROCLOR 1232	MWL-BW1	SNL0200277	07-MAY-91	0.001	U	0.001	F
AROCLOR 1232	MWL-BW1	SNL0200420	06-AUG-91	0.001	U	0.001	F
AROCLOR 1232	MWL-BW1	SNL0200567	16-OCT-91	0.001	U	0.001	F
AROCLOR 1232	MWL-BW1	SNL0201514	31-OCT-94	0.001	U	0.001	F
AROCLOR 1232	MWL-BW1-D	SNL0200013	27-SEP-90	0.001	U	0.001	F
AROCLOR 1232	MWL-BW1-D	SNL0200281	07-MAY-91	0.001	U	0.001	F
AROCLOR 1232	MWL-BW1-D	SNL0200437	06-AUG-91	0.001	U	0.001	F
AROCLOR 1232	MWL-BW1-D	SNL0200585	16-OCT-91	0.001	U	0.001	F
AROCLOR 1232	MWL-BW1-EB	SNL0200495	09-OCT-91	0.001	U	0.001	F
AROCLOR 1232	MWL-BW1-FB	SNL0200603	16-OCT-91	0.001	U	0.001	F
AROCLOR 1232	MWL-MW1	SNL0200279	07-MAY-91	0.001	U	0.001	F
AROCLOR 1232	MWL-MW1	SNL0200352	31-JUL-91	0.001	U	0.001	F
AROCLOR 1232	MWL-MW1	SNL0200549	15-OCT-91	0.001	U	0.001	F
AROCLOR 1232	MWL-MW1-EB	SNL0200459	08-OCT-91	0.001	U	0.001	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
AROCLOR 1232	MWL-MW2	SNL0200083	28-SEP-90	0.001	U	0.001	F
AROCLOR 1232	MWL-MW2	SNL0200217	02-MAY-91	0.001	U	0.001	F
AROCLOR 1232	MWL-MW2	SNL0200369	01-AUG-91	0.001	U	0.001	F
AROCLOR 1232	MWL-MW2	SNL0200513	14-OCT-91	0.001	U	0.001	F
AROCLOR 1232	MWL-MW2-EB	SNL0200441	07-OCT-91	0.001	U	0.001	F
AROCLOR 1232	MWL-MW3	SNL0200058	28-SEP-90	0.001	U	0.001	F
AROCLOR 1232	MWL-MW3	SNL0200219	02-MAY-91	0.001	U	0.001	F
AROCLOR 1232	MWL-MW3	SNL0200403	05-AUG-91	0.001	U	0.001	F
AROCLOR 1232	MWL-MW3	SNL0200531	15-OCT-91	0.001	U	0.001	F
AROCLOR 1232	MWL-MW3-EB	SNL0200477	09-OCT-91	0.001	U	0.001	F
AROCLOR 1242	MWL-BW1	SNL0200006	27-SEP-90	0.001	U	0.001	F
AROCLOR 1242	MWL-BW1	SNL0200277	07-MAY-91	0.001	U	0.001	F
AROCLOR 1242	MWL-BW1	SNL0200420	06-AUG-91	0.001	U	0.001	F
AROCLOR 1242	MWL-BW1	SNL0200567	16-OCT-91	0.001	U	0.001	F
AROCLOR 1242	MWL-BW1	SNL0201514	31-OCT-94	0.001	U	0.001	F
AROCLOR 1242	MWL-BW1-D	SNL0200013	27-SEP-90	0.001	U	0.001	F
AROCLOR 1242	MWL-BW1-D	SNL0200281	07-MAY-91	0.001	U	0.001	F
AROCLOR 1242	MWL-BW1-D	SNL0200437	06-AUG-91	0.001	U	0.001	F
AROCLOR 1242	MWL-BW1-D	SNL0200585	16-OCT-91	0.001	U	0.001	F
AROCLOR 1242	MWL-BW1-EB	SNL0200495	09-OCT-91	0.001	U	0.001	F
AROCLOR 1242	MWL-BW1-FB	SNL0200603	16-OCT-91	0.001	U	0.001	F
AROCLOR 1242	MWL-MW1	SNL0200279	07-MAY-91	0.001	U	0.001	F
AROCLOR 1242	MWL-MW1	SNL0200352	31-JUL-91	0.001	U	0.001	F
AROCLOR 1242	MWL-MW1	SNL0200549	15-OCT-91	0.001	U	0.001	F
AROCLOR 1242	MWL-MW1-EB	SNL0200459	08-OCT-91	0.001	U	0.001	F
AROCLOR 1242	MWL-MW2	SNL0200083	28-SEP-90	0.001	U	0.001	F
AROCLOR 1242	MWL-MW2	SNL0200217	02-MAY-91	0.001	U	0.001	F
AROCLOR 1242	MWL-MW2	SNL0200369	01-AUG-91	0.001	U	0.001	F
AROCLOR 1242	MWL-MW2	SNL0200513	14-OCT-91	0.001	U	0.001	F
AROCLOR 1242	MWL-MW2-EB	SNL0200441	07-OCT-91	0.001	U	0.001	F
AROCLOR 1242	MWL-MW3	SNL0200058	28-SEP-90	0.001	U	0.001	F
AROCLOR 1242	MWL-MW3	SNL0200219	02-MAY-91	0.001	U	0.001	F
AROCLOR 1242	MWL-MW3	SNL0200403	05-AUG-91	0.001	U	0.001	F
AROCLOR 1242	MWL-MW3	SNL0200531	15-OCT-91	0.001	U	0.001	F
AROCLOR 1242	MWL-MW3-EB	SNL0200477	09-OCT-91	0.001	U	0.001	F
AROCLOR 1248	MWL-BW1	SNL0200006	27-SEP-90	0.001	U	0.001	F
AROCLOR 1248	MWL-BW1	SNL0200277	07-MAY-91	0.001	U	0.001	F
AROCLOR 1248	MWL-BW1	SNL0200420	06-AUG-91	0.001	U	0.001	F
AROCLOR 1248	MWL-BW1	SNL0200567	16-OCT-91	0.001	U	0.001	F
AROCLOR 1248	MWL-BW1	SNL0201514	31-OCT-94	0.001	U	0.001	F
AROCLOR 1248	MWL-BW1-D	SNL0200013	27-SEP-90	0.001	U	0.001	F
AROCLOR 1248	MWL-BW1-D	SNL0200281	07-MAY-91	0.001	U	0.001	F
AROCLOR 1248	MWL-BW1-D	SNL0200437	06-AUG-91	0.001	U	0.001	F
AROCLOR 1248	MWL-BW1-D	SNL0200585	16-OCT-91	0.001	U	0.001	F
AROCLOR 1248	MWL-BW1-EB	SNL0200495	09-OCT-91	0.001	U	0.001	F
AROCLOR 1248	MWL-BW1-FB	SNL0200603	16-OCT-91	0.001	U	0.001	F
AROCLOR 1248	MWL-MW1	SNL0200279	07-MAY-91	0.001	U	0.001	F
AROCLOR 1248	MWL-MW1	SNL0200352	31-JUL-91	0.001	U	0.001	F
AROCLOR 1248	MWL-MW1	SNL0200549	15-OCT-91	0.001	U	0.001	F
AROCLOR 1248	MWL-MW1-EB	SNL0200459	08-OCT-91	0.001	U	0.001	F
AROCLOR 1248	MWL-MW2	SNL0200083	28-SEP-90	0.001	U	0.001	F
AROCLOR 1248	MWL-MW2	SNL0200217	02-MAY-91	0.001	U	0.001	F
AROCLOR 1248	MWL-MW2	SNL0200369	01-AUG-91	0.001	U	0.001	F
AROCLOR 1248	MWL-MW2	SNL0200513	14-OCT-91	0.001	U	0.001	F
AROCLOR 1248	MWL-MW2-EB	SNL0200441	07-OCT-91	0.001	U	0.001	F
AROCLOR 1248	MWL-MW3	SNL0200058	28-SEP-90	0.001	U	0.001	F
AROCLOR 1248	MWL-MW3	SNL0200219	02-MAY-91	0.001	U	0.001	F
AROCLOR 1248	MWL-MW3	SNL0200403	05-AUG-91	0.001	U	0.001	F
AROCLOR 1248	MWL-MW3	SNL0200531	15-OCT-91	0.001	U	0.001	F
AROCLOR 1248	MWL-MW3-EB	SNL0200477	09-OCT-91	0.001	U	0.001	F
AROCLOR 1254	MWL-BW1	SNL0200006	27-SEP-90	0.001	U	0.001	F
AROCLOR 1254	MWL-BW1	SNL0200277	07-MAY-91	0.001	U	0.001	F
AROCLOR 1254	MWL-BW1	SNL0200420	06-AUG-91	0.001	U	0.001	F
AROCLOR 1254	MWL-BW1	SNL0200567	16-OCT-91	0.001	U	0.001	F
AROCLOR 1254	MWL-BW1	SNL0201514	31-OCT-94	0.001	U	0.001	F
AROCLOR 1254	MWL-BW1-D	SNL0200013	27-SEP-90	0.001	U	0.001	F
AROCLOR 1254	MWL-BW1-D	SNL0200281	07-MAY-91	0.001	U	0.001	F
AROCLOR 1254	MWL-BW1-D	SNL0200437	06-AUG-91	0.001	U	0.001	F
AROCLOR 1254	MWL-BW1-D	SNL0200585	16-OCT-91	0.001	U	0.001	F
AROCLOR 1254	MWL-BW1-EB	SNL0200495	09-OCT-91	0.001	U	0.001	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
AROCLOR 1254	MWL-BW1-FB	SNL0200603	16-OCT-91	0.001	U	0.001	F
AROCLOR 1254	MWL-MW1	SNL0200279	07-MAY-91	0.001	U	0.001	F
AROCLOR 1254	MWL-MW1	SNL0200352	31-JUL-91	0.001	U	0.001	F
AROCLOR 1254	MWL-MW1	SNL0200549	15-OCT-91	0.001	U	0.001	F
AROCLOR 1254	MWL-MW1-EB	SNL0200459	08-OCT-91	0.001	U	0.001	F
AROCLOR 1254	MWL-MW2	SNL0200083	28-SEP-90	0.001	U	0.001	F
AROCLOR 1254	MWL-MW2	SNL0200217	02-MAY-91	0.001	U	0.001	F
AROCLOR 1254	MWL-MW2	SNL0200369	01-AUG-91	0.001	U	0.001	F
AROCLOR 1254	MWL-MW2	SNL0200513	14-OCT-91	0.001	U	0.001	F
AROCLOR 1254	MWL-MW2-EB	SNL0200441	07-OCT-91	0.001	U	0.001	F
AROCLOR 1254	MWL-MW3	SNL0200058	28-SEP-90	0.001	U	0.001	F
AROCLOR 1254	MWL-MW3	SNL0200219	02-MAY-91	0.001	U	0.001	F
AROCLOR 1254	MWL-MW3	SNL0200403	05-AUG-91	0.001	U	0.001	F
AROCLOR 1254	MWL-MW3	SNL0200531	15-OCT-91	0.001	U	0.001	F
AROCLOR 1254	MWL-MW3-EB	SNL0200477	09-OCT-91	0.001	U	0.001	F
AROCLOR 1260	MWL-BW1	SNL0200006	27-SEP-90	0.001	U	0.001	F
AROCLOR 1260	MWL-BW1	SNL0200277	07-MAY-91	0.001	U	0.001	F
AROCLOR 1260	MWL-BW1	SNL0200420	06-AUG-91	0.001	U	0.001	F
AROCLOR 1260	MWL-BW1	SNL0200567	16-OCT-91	0.001	U	0.001	F
AROCLOR 1260	MWL-BW1	SNL0201514	31-OCT-94	0.001	U	0.001	F
AROCLOR 1260	MWL-BW1-D	SNL0200013	27-SEP-90	0.001	U	0.001	F
AROCLOR 1260	MWL-BW1-D	SNL0200281	07-MAY-91	0.001	U	0.001	F
AROCLOR 1260	MWL-BW1-D	SNL0200437	06-AUG-91	0.001	U	0.001	F
AROCLOR 1260	MWL-BW1-D	SNL0200585	16-OCT-91	0.001	U	0.001	F
AROCLOR 1260	MWL-BW1-EB	SNL0200495	09-OCT-91	0.001	U	0.001	F
AROCLOR 1260	MWL-BW1-FB	SNL0200603	16-OCT-91	0.001	U	0.001	F
AROCLOR 1260	MWL-MW1	SNL0200279	07-MAY-91	0.001	U	0.001	F
AROCLOR 1260	MWL-MW1	SNL0200352	31-JUL-91	0.001	U	0.001	F
AROCLOR 1260	MWL-MW1	SNL0200549	15-OCT-91	0.001	U	0.001	F
AROCLOR 1260	MWL-MW1-EB	SNL0200459	08-OCT-91	0.001	U	0.001	F
AROCLOR 1260	MWL-MW2	SNL0200083	28-SEP-90	0.001	U	0.001	F
AROCLOR 1260	MWL-MW2	SNL0200217	02-MAY-91	0.001	U	0.001	F
AROCLOR 1260	MWL-MW2	SNL0200369	01-AUG-91	0.001	U	0.001	F
AROCLOR 1260	MWL-MW2	SNL0200513	14-OCT-91	0.001	U	0.001	F
AROCLOR 1260	MWL-MW2-EB	SNL0200441	07-OCT-91	0.001	U	0.001	F
AROCLOR 1260	MWL-MW3	SNL0200058	28-SEP-90	0.001	U	0.001	F
AROCLOR 1260	MWL-MW3	SNL0200219	02-MAY-91	0.001	U	0.001	F
AROCLOR 1260	MWL-MW3	SNL0200403	05-AUG-91	0.001	U	0.001	F
AROCLOR 1260	MWL-MW3	SNL0200531	15-OCT-91	0.001	U	0.001	F
AROCLOR 1260	MWL-MW3-EB	SNL0200477	09-OCT-91	0.001	U	0.001	F
BENZENE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
BENZENE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
BENZENE	MWL-BW1	SNL0200789	29-JUL-92	0.005	U	0.005	F
BENZENE	MWL-BW1	SNL0201467	27-OCT-94	0.005	U	0.005	F
BENZENE	MWL-BW1	SNL0201512	27-OCT-94	0.005	U	0.005	F
BENZENE	MWL-BW1	SNL0201482	27-OCT-94	0.005	U	0.005	F
BENZENE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
BENZENE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
BENZENE	MWL-BW1-D	SNL0200807	29-JUL-92	0.005	U	0.005	F
BENZENE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
BENZENE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.005	U	0.005	F
BENZENE	MWL-BW1-EB	SNL0201253	27-APR-94	0.005	U	0.005	F
BENZENE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.005	U	0.005	F
BENZENE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
BENZENE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.005	U	0.005	F
BENZENE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.005	U	0.005	F
BENZENE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.005	U	0.005	TB
BENZENE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.005	U	0.005	TB
BENZENE	MWL-BW1-TB	SNL0201268	27-APR-94	0.005	U	0.005	TB
BENZENE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.005	U	0.005	TB
BENZENE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
BENZENE	MWL-MW1	SNL0200751	28-JUL-92	0.005	U	0.005	F
BENZENE	MWL-MW1	SNL0201305	03-MAY-94	0.005	U	0.005	F
BENZENE	MWL-MW1	SNL0201421	25-OCT-94	0.005	U	0.005	F
BENZENE	MWL-MW1	SNL0201437	25-OCT-94	0.005	U	0.005	F
BENZENE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00132	F
BENZENE	MWL-MW1	022149-01	19-APR-95	0.048		0.00132	SD
BENZENE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00132	F
BENZENE	MWL-MW1	022149-01	19-APR-95	0.048		0.00132	SD
BENZENE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
BENZENE	MWL-MW1-D	SNL0201287	04-MAY-94	0.005	U	0.005	F
BENZENE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
BENZENE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.005	U	0.005	F
BENZENE	MWL-MW1-EB	SNL0201206	26-APR-94	0.005	U	0.005	F
BENZENE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.005	U	0.005	F
BENZENE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.005	U	0.005	TB
BENZENE	MWL-MW1-TB	SNL0201221	26-APR-94	0.005	U	0.005	TB
BENZENE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.005	U	0.005	TB
BENZENE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.005	U	0.005	TB
BENZENE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.005	U	0.005	TB
BENZENE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
BENZENE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
BENZENE	MWL-MW2	SNL0200732	27-JUL-92	0.005	U	0.005	F
BENZENE	MWL-MW2	SNL0201269	02-MAY-94	0.005	U	0.005	F
BENZENE	MWL-MW2	SNL0201389	24-OCT-94	0.005	U	0.005	F
BENZENE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00132	F
BENZENE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00132	F
BENZENE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
BENZENE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.005	U	0.005	F
BENZENE	MWL-MW2-EB	SNL0201222	27-APR-94	0.005	U	0.005	F
BENZENE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.005	U	0.005	F
BENZENE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.005	U	0.005	TB
BENZENE	MWL-MW2-TB	SNL0201237	27-APR-94	0.005	U	0.005	TB
BENZENE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.005	U	0.005	TB
BENZENE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.005	U	0.005	TB
BENZENE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.005	U	0.005	F
BENZENE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
BENZENE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
BENZENE	MWL-MW3	SNL0200769	28-JUL-92	0.005	U	0.005	F
BENZENE	MWL-MW3	SNL0201323	03-MAY-94	0.005	U	0.005	F
BENZENE	MWL-MW3	SNL0201405	25-OCT-94	0.005	U	0.005	F
BENZENE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00132	F
BENZENE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00132	F
BENZENE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
BENZENE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
BENZENE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
BENZENE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.005	U	0.005	F
BENZENE	MWL-MW3-EB	SNL0201238	27-APR-94	0.005	U	0.005	F
BENZENE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.005	U	0.005	F
BENZENE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
BENZENE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
BENZENE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.005	U	0.005	TB
BENZENE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.005	U	0.005	TB
BENZENE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.005	U	0.005	F
BENZENE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.005	U	0.005	TB
BENZENE	MWL-MW4	022154-01	19-APR-95	0.001	U	0.001	SA
BENZENE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00132	F
BENZENE	MWL-MW4	022151-01	19-APR-95	0.005	U	0.00132	F
BENZENE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00132	F
BENZENE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
BENZENE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
BENZENE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.005	U	0.005	F
BENZENE	MWL-MW4-TB	SNL0200919	21-APR-93	0.005	U	0.005	TB
BENZENE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.005	U	0.005	TB
BENZENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
BENZENE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.005	U	0.005	TB
BENZENE	MWL-MW4C	SNL0201160	11-NOV-93	0.005	U	0.005	F
BENZENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
BENZENE	MWL-MW4U	SNL0201497	28-OCT-94	0.005	U	0.005	F
BENZENE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
BENZENE, METHYL-	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
BENZENE, METHYL-	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
BENZENE, METHYL-	MWL-BW1	SNL0200789	29-JUL-92	0.005	U	0.005	F
BENZENE, METHYL-	MWL-BW1	SNL0201467	27-OCT-94	0.005	U	0.005	F
BENZENE, METHYL-	MWL-BW1	SNL0201512	27-OCT-94	0.005	U	0.005	F
BENZENE, METHYL-	MWL-BW1	SNL0201482	27-OCT-94	0.005	U	0.005	F
BENZENE, METHYL-	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
BENZENE, METHYL-	MWL-BW1-D	SNL0200807	29-JUL-92	0.005	U	0.005	F
BENZENE, METHYL-	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
BENZENE, METHYL-	MWL-BW1-EB	SNL0200713	23-JUL-92	0.005	U	0.005	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
BENZENE, METHYL-	MWL-BW1-EB	SNL0201253	27-APR-94	0.005	U	0.005	F
BENZENE, METHYL-	MWL-BW1-EB	SNL0201452	26-OCT-94	0.005	U	0.005	F
BENZENE, METHYL-	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
BENZENE, METHYL-	MWL-BW1-FB	SNL0200826	29-JUL-92	0.005	U	0.005	F
BENZENE, METHYL-	MWL-BW1-TB	SNL0200715	23-JUL-92	0.005	U	0.005	F
BENZENE, METHYL-	MWL-BW1-TB	SNL0200809	29-JUL-92	0.005	U	0.005	TB
BENZENE, METHYL-	MWL-BW1-TB	SNL0200828	29-JUL-92	0.005	U	0.005	TB
BENZENE, METHYL-	MWL-BW1-TB	SNL0201268	27-APR-94	0.005	U	0.005	TB
BENZENE, METHYL-	MWL-BW1-TB	SNL0201466	26-OCT-94	0.005	U	0.005	TB
BENZENE, METHYL-	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW1	SNL0200751	28-JUL-92	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW1	SNL0201305	03-MAY-94	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW1	SNL0201421	25-OCT-94	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW1	SNL0201437	25-OCT-94	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW1-D	SNL0201287	04-MAY-94	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW1-EB	SNL0200676	22-JUL-92	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW1-EB	SNL0201206	26-APR-94	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW1-TB	SNL0200696	22-JUL-92	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW1-TB	SNL0200771	28-JUL-92	0.005	U	0.005	TB
BENZENE, METHYL-	MWL-MW1-TB	SNL0201221	26-APR-94	0.005	U	0.005	TB
BENZENE, METHYL-	MWL-MW1-TB	SNL0201322	03-MAY-94	0.005	U	0.005	TB
BENZENE, METHYL-	MWL-MW1-TB	SNL0201304	04-MAY-94	0.005	U	0.005	TB
BENZENE, METHYL-	MWL-MW1-TB	SNL0201436	25-OCT-94	0.005	U	0.005	TB
BENZENE, METHYL-	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW2	SNL0200732	27-JUL-92	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW2	SNL0201269	02-MAY-94	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW2	SNL0201389	24-OCT-94	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW2-EB	SNL0200694	22-JUL-92	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW2-EB	SNL0201222	27-APR-94	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW2-EB	SNL0201373	19-OCT-94	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW2-TB	SNL0200734	27-JUL-92	0.005	U	0.005	TB
BENZENE, METHYL-	MWL-MW2-TB	SNL0201237	27-APR-94	0.005	U	0.005	TB
BENZENE, METHYL-	MWL-MW2-TB	SNL0201286	02-MAY-94	0.005	U	0.005	TB
BENZENE, METHYL-	MWL-MW2-TB	SNL0201388	19-OCT-94	0.005	U	0.005	TB
BENZENE, METHYL-	MWL-MW2-TB	SNL0201404	24-OCT-94	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW3	SNL0200769	28-JUL-92	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW3	SNL0201323	03-MAY-94	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW3	SNL0201405	25-OCT-94	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW3-EB	SNL0200657	21-JUL-92	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW3-EB	SNL0201238	27-APR-94	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW3-EB	SNL0201357	17-OCT-94	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW3-TB	SNL0200659	21-JUL-92	0.005	U	0.005	TB
BENZENE, METHYL-	MWL-MW3-TB	SNL0200772	28-JUL-92	0.005	U	0.005	TB
BENZENE, METHYL-	MWL-MW3-TB	SNL0201372	17-OCT-94	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW3-TB	SNL0201420	25-OCT-94	0.005	U	0.005	TB
BENZENE, METHYL-	MWL-MW4-EB	SNL0201180	11-NOV-93	0.001	J	0.005	F
BENZENE, METHYL-	MWL-MW4-TB	SNL0200919	21-APR-93	0.005	U	0.005	TB
BENZENE, METHYL-	MWL-MW4-TB	SNL0201181	11-NOV-93	0.005	U	0.005	TB
BENZENE, METHYL-	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
BENZENE, METHYL-	MWL-MW4-TB	SNL0201513	28-OCT-94	0.005	U	0.005	TB
BENZENE, METHYL-	MWL-MW4C	SNL0201160	11-NOV-93	0.005	U	0.005	F
BENZENE, METHYL-	MWL-MW4U	SNL0201340	31-MAY-94	0.00054	J	0.001	F
BENZENE, METHYL-	MWL-MW4U	SNL0201497	28-OCT-94	0.005	U	0.005	F
BENZENE, METHYL-	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
BENZO(A)ANTHRACENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
BENZO(A)ANTHRACENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
BENZO(A)ANTHRACENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.0006446	F
BENZO(A)ANTHRACENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.0006446	F
BENZO(A)ANTHRACENE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
BENZO(A)ANTHRACENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.0006446	F
BENZO(A)ANTHRACENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.0006446	F
BENZO(A)ANTHRACENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.0006446	F
BENZO(A)ANTHRACENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.0006446	F
BENZO(A)ANTHRACENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
BENZO(A)ANTHRACENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.0006446	F
BENZO(A)ANTHRACENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.0006446	F
BENZO(A)ANTHRACENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.0006446	F
BENZO(A)ANTHRACENE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
BENZO(A)ANTHRACENE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
BENZO(A)ANTHRACENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
BENZO(A)ANTHRACENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
BENZO(A)PYRENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00064398	F
BENZO(A)PYRENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00064398	F
BENZO(A)PYRENE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
BENZO(A)PYRENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00064398	F
BENZO(A)PYRENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00064398	F
BENZO(A)PYRENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
BENZO(A)PYRENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00064398	F
BENZO(A)PYRENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00064398	F
BENZO(A)PYRENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
BENZO(A)PYRENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00064398	F
BENZO(A)PYRENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00064398	F
BENZO(A)PYRENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00064398	F
BENZO(A)PYRENE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
BENZO(A)PYRENE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
BENZO(A)PYRENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
BENZO(A)PYRENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
BENZO(B)FLUORANTHENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00288828	F
BENZO(B)FLUORANTHENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00288828	F
BENZO(B)FLUORANTHENE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
BENZO(B)FLUORANTHENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00288828	F
BENZO(B)FLUORANTHENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00288828	F
BENZO(B)FLUORANTHENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00288828	F
BENZO(B)FLUORANTHENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00288828	F
BENZO(B)FLUORANTHENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
BENZO(B)FLUORANTHENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00288828	F
BENZO(B)FLUORANTHENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00288828	F
BENZO(B)FLUORANTHENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00288828	F
BENZO(B)FLUORANTHENE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
BENZO(B)FLUORANTHENE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
BENZO(B)FLUORANTHENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
BENZO(B)FLUORANTHENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
BENZO(K)FLUORANTHENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
BENZO(K)FLUORANTHENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00193099	F
BENZO(K)FLUORANTHENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00193099	F
BENZO(K)FLUORANTHENE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
BENZO(K)FLUORANTHENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00193099	F
BENZO(K)FLUORANTHENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00193099	F
BENZO(K)FLUORANTHENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00193099	F
BENZO(K)FLUORANTHENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00193099	F
BENZO(K)FLUORANTHENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
BENZO(K)FLUORANTHENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00193099	F
BENZO(K)FLUORANTHENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00193099	F
BENZO(K)FLUORANTHENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00193099	F
BENZO(K)FLUORANTHENE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
BENZO(K)FLUORANTHENE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
BENZO(K)FLUORANTHENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
BENZO(K)FLUORANTHENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
BENZOIC ACID	MWL-BW1	SNL0200790	29-JUL-92	0.05	U	0.05	F
BENZOIC ACID	MWL-BW1	SNL0201468	27-OCT-94	0.05	U	0.05	F
BENZOIC ACID	MWL-BW1	SNL0201483	27-OCT-94	0.05	U	0.05	F
BENZOIC ACID	MWL-BW1	026461-02	23-OCT-95	0.01	U	0.01	SA
BENZOIC ACID	MWL-BW1-D	SNL0200808	29-JUL-92	0.05	U	0.05	F
BENZOIC ACID	MWL-BW1-EB	SNL0200714	23-JUL-92	0.05	U	0.05	F
BENZOIC ACID	MWL-BW1-EB	SNL0201255	27-APR-94	0.05	U	0.05	F
BENZOIC ACID	MWL-BW1-EB	SNL0201453	26-OCT-94	0.05	U	0.05	F
BENZOIC ACID	MWL-BW1-FB	SNL0200827	29-JUL-92	0.05	U	0.05	F
BENZOIC ACID	MWL-MW1	SNL0200752	28-JUL-92	0.05	U	0.05	F
BENZOIC ACID	MWL-MW1	SNL0201307	03-MAY-94	0.05	U	0.05	F
BENZOIC ACID	MWL-MW1	SNL0201422	25-OCT-94	0.05	U	0.05	F
BENZOIC ACID	MWL-MW1	SNL0201438	25-OCT-94	0.05	U	0.05	F
BENZOIC ACID	MWL-MW1	022149-02	19-APR-95	0.05	U	0.02438	F
BENZOIC ACID	MWL-MW1	022149-02	19-APR-95	0.05	U	0.02438	F
BENZOIC ACID	MWL-MW1	026464-02	20-OCT-95	0.01	U	0.01	SA
BENZOIC ACID	MWL-MW1-D	SNL0201289	04-MAY-94	0.05	U	0.05	F
BENZOIC ACID	MWL-MW1-EB	SNL0200677	22-JUL-92	0.05	U	0.05	F
BENZOIC ACID	MWL-MW1-EB	SNL0201208	26-APR-94	0.05	U	0.05	F
BENZOIC ACID	MWL-MW2	SNL0200733	27-JUL-92	0.05	U	0.05	F
BENZOIC ACID	MWL-MW2	SNL0201271	02-MAY-94	0.05	U	0.05	F
BENZOIC ACID	MWL-MW2	SNL0201390	24-OCT-94	0.05	U	0.05	F
BENZOIC ACID	MWL-MW2	022145-02	17-APR-95	0.05	U	0.02438	F
BENZOIC ACID	MWL-MW2	022145-02	17-APR-95	0.05	U	0.02438	F
BENZOIC ACID	MWL-MW2-EB	SNL0200695	22-JUL-92	0.05	U	0.05	F
BENZOIC ACID	MWL-MW2-EB	SNL0201224	27-APR-94	0.05	U	0.05	F
BENZOIC ACID	MWL-MW2-EB	SNL0201374	19-OCT-94	0.05	U	0.05	F
BENZOIC ACID	MWL-MW3	SNL0200770	28-JUL-92	0.05	U	0.05	F
BENZOIC ACID	MWL-MW3	SNL0201325	03-MAY-94	0.05	U	0.05	F
BENZOIC ACID	MWL-MW3	SNL0201406	25-OCT-94	0.05	U	0.05	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
BENZOIC ACID	MWL-MW3	022147-02	17-APR-95	0.05	U	0.02438	F
BENZOIC ACID	MWL-MW3	022147-02	17-APR-95	0.05	U	0.02438	F
BENZOIC ACID	MWL-MW3	026458-02	16-OCT-95	0.01	U	0.01	SA
BENZOIC ACID	MWL-MW3-EB	SNL0200658	21-JUL-92	0.05	U	0.05	F
BENZOIC ACID	MWL-MW3-EB	SNL0201240	27-APR-94	0.05	U	0.05	F
BENZOIC ACID	MWL-MW3-EB	SNL0201358	17-OCT-94	0.05	U	0.05	F
BENZOIC ACID	MWL-MW4	022150-02	19-APR-95	0.05	U	0.02438	F
BENZOIC ACID	MWL-MW4	022150-02	19-APR-95	0.05	U	0.02438	F
BENZOIC ACID	MWL-MW4	022151-02	19-APR-95	0.05	U	0.02438	F
BENZOIC ACID	MWL-MW4	026465-02	20-OCT-95	0.01	U	0.01	SA
BENZOIC ACID	MWL-MW4	026466-02	20-OCT-95	0.01	U	0.01	DU
BENZOIC ACID	MWL-MW4U	SNL0201342	31-MAY-94	0.05	U	0.05	F
BENZOIC ACID	MWL-MW4U	SNL0201498	28-OCT-94	0.05	U	0.05	F
BENZO[GHI]PERYLENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
BENZO[GHI]PERYLENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00675657	F
BENZO[GHI]PERYLENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00675657	F
BENZO[GHI]PERYLENE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
BENZO[GHI]PERYLENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00675657	F
BENZO[GHI]PERYLENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00675657	F
BENZO[GHI]PERYLENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00675657	F
BENZO[GHI]PERYLENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00675657	F
BENZO[GHI]PERYLENE	MWL-MW3	026458-02	18-OCT-95	0.005	U	0.005	SA
BENZO[GHI]PERYLENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00675657	F
BENZO[GHI]PERYLENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00675657	F
BENZO[GHI]PERYLENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00675657	F
BENZO[GHI]PERYLENE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
BENZO[GHI]PERYLENE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
BENZO[GHI]PERYLENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
BENZO[GHI]PERYLENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
BENZYL ALCOHOL	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
BENZYL ALCOHOL	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00119912	F
BENZYL ALCOHOL	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00119912	F
BENZYL ALCOHOL	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
BENZYL ALCOHOL	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00119912	F
BENZYL ALCOHOL	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00119912	F
BENZYL ALCOHOL	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00119912	F
BENZYL ALCOHOL	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00119912	F
BENZYL ALCOHOL	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
BENZYL ALCOHOL	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00119912	F
BENZYL ALCOHOL	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00119912	F
BENZYL ALCOHOL	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00119912	F
BENZYL ALCOHOL	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
BENZYL ALCOHOL	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
BENZYL ALCOHOL	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
BENZYL ALCOHOL	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
BETA-BHC	MWL-BW1	SNL0200006	27-SEP-90	0.00005	U	0.00005	F
BETA-BHC	MWL-BW1	SNL0200277	07-MAY-91	0.00005	U	0.00005	F
BETA-BHC	MWL-BW1	SNL0200420	06-AUG-91	0.00005	U	0.00005	F
BETA-BHC	MWL-BW1	SNL0200567	16-OCT-91	0.00005	U	0.00005	F
BETA-BHC	MWL-BW1	SNL0201514	31-OCT-94	0.00005	U	0.00005	F
BETA-BHC	MWL-BW1-D	SNL0200013	27-SEP-90	0.00005	U	0.00005	F
BETA-BHC	MWL-BW1-D	SNL0200281	07-MAY-91	0.00005	U	0.00005	F
BETA-BHC	MWL-BW1-D	SNL0200437	06-AUG-91	0.00005	U	0.00005	F
BETA-BHC	MWL-BW1-D	SNL0200585	16-OCT-91	0.00005	U	0.00005	F
BETA-BHC	MWL-BW1-EB	SNL0200495	09-OCT-91	0.00005	U	0.00005	F
BETA-BHC	MWL-BW1-FB	SNL0200603	16-OCT-91	0.00005	U	0.00005	F
BETA-BHC	MWL-MW1	SNL0200279	07-MAY-91	0.00005	U	0.00005	F
BETA-BHC	MWL-MW1	SNL0200352	31-JUL-91	0.00005	U	0.00005	F
BETA-BHC	MWL-MW1	SNL0200549	15-OCT-91	0.00005	U	0.00005	F
BETA-BHC	MWL-MW1-EB	SNL0200459	08-OCT-91	0.00005	U	0.00005	F
BETA-BHC	MWL-MW2	SNL0200083	28-SEP-90	0.00005	U	0.00005	F
BETA-BHC	MWL-MW2	SNL0200217	02-MAY-91	0.00005	U	0.00005	F
BETA-BHC	MWL-MW2	SNL0200369	01-AUG-91	0.00005	U	0.00005	F
BETA-BHC	MWL-MW2	SNL0200513	14-OCT-91	0.00005	U	0.00005	F
BETA-BHC	MWL-MW2-EB	SNL0200441	07-OCT-91	0.00005	U	0.00005	F
BETA-BHC	MWL-MW3	SNL0200058	28-SEP-90	0.00005	U	0.00005	F
BETA-BHC	MWL-MW3	SNL0200219	02-MAY-91	0.00005	U	0.00005	F
BETA-BHC	MWL-MW3	SNL0200403	05-AUG-91	0.00005	U	0.00005	F
BETA-BHC	MWL-MW3	SNL0200531	15-OCT-91	0.00005	U	0.00005	F
BETA-BHC	MWL-MW3-EB	SNL0200477	09-OCT-91	0.00005	U	0.00005	F
BIS(2-CHLOROETHOXY)METHANE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
BIS(2-CHLOROETHOXY)METHANE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
BIS(2-CHLOROETHOXY)METHANE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00135814	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00135814	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
BIS(2-CHLOROETHOXY)METHANE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00135814	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00135814	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00135814	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00135814	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
BIS(2-CHLOROETHOXY)METHANE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00135814	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00135814	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00135814	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
BIS(2-CHLOROETHOXY)METHANE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
BIS(2-CHLOROETHOXY)METHANE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
BIS(2-CHLOROETHOXY)METHANE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
BIS(2-CHLOROETHYL) ETHER	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00182511	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00182511	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
BIS(2-CHLOROETHYL) ETHER	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00182511	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00182511	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
BIS(2-CHLOROETHYL) ETHER	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00182511	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00182511	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
BIS(2-CHLOROETHYL) ETHER	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00182511	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00182511	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00182511	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
BIS(2-CHLOROETHYL) ETHER	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
BIS(2-CHLOROETHYL) ETHER	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
BIS(2-CHLOROETHYL) ETHER	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-BW1-D	SNL0200012	27-SEP-90	0.013		0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00241273	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00241273	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW1-D	SNL0201289	04-MAY-94	0.16		0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW2	SNL0201271	02-MAY-94	0.0022	J	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW2	022145-02	17-APR-95	0.089		0.00241273	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW2	022145-02	17-APR-95	0.089		0.00241273	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW2-EB	SNL0201224	27-APR-94	0.0074	J	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00241273	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00241273	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW4	022150-02	19-APR-95	0.0069	J	0.00241273	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW4	022150-02	19-APR-95	0.0069	J	0.00241273	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00241273	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW4U	SNL0201342	31-MAY-94	0.0017	JB	0.01	F
BIS(2-ETHYLHEXYL)PHTHALATE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
BIS(2-HYDROXPROPYL) ETHER	MWL-BW1	SNL0201529	27-OCT-94	0.0052	2	0.002	F
BIS(2-HYDROXPROPYL) ETHER	MWL-BW1	SNL0201531	27-OCT-94	0.02	2	0.002	F
BROMOBENZENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
BROMOBENZENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
BROMOCHLOROMETHANE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
BROMOCHLOROMETHANE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
BROMODICHLOROMETHANE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
BROMODICHLOROMETHANE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-BW1	SNL0200789	29-JUL-92	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-BW1	SNL0201467	27-OCT-94	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-BW1	SNL0201482	27-OCT-94	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-BW1	SNL0201512	27-OCT-94	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
BROMODICHLOROMETHANE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-BW1-D	SNL0200807	29-JUL-92	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-BW1-EB	SNL0201253	27-APR-94	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.005	U	0.005	TB
BROMODICHLOROMETHANE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.005	U	0.005	TB
BROMODICHLOROMETHANE	MWL-BW1-TB	SNL0201268	27-APR-94	0.005	U	0.005	TB
BROMODICHLOROMETHANE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.005	U	0.005	TB
BROMODICHLOROMETHANE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW1	SNL0200751	28-JUL-92	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW1	SNL0201305	03-MAY-94	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW1	SNL0201421	25-OCT-94	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW1	SNL0201437	25-OCT-94	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00092	F
BROMODICHLOROMETHANE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00092	F
BROMODICHLOROMETHANE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
BROMODICHLOROMETHANE	MWL-MW1-D	SNL0201287	04-MAY-94	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW1-EB	SNL0201206	26-APR-94	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.005	U	0.005	TB
BROMODICHLOROMETHANE	MWL-MW1-TB	SNL0201221	26-APR-94	0.005	U	0.005	TB
BROMODICHLOROMETHANE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.005	U	0.005	TB
BROMODICHLOROMETHANE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.005	U	0.005	TB
BROMODICHLOROMETHANE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.005	U	0.005	TB
BROMODICHLOROMETHANE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW2	SNL0200732	27-JUL-92	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW2	SNL0201269	02-MAY-94	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW2	SNL0201389	24-OCT-94	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00092	F
BROMODICHLOROMETHANE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00092	F
BROMODICHLOROMETHANE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW2-EB	SNL0201222	27-APR-94	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.005	U	0.005	TB
BROMODICHLOROMETHANE	MWL-MW2-TB	SNL0201237	27-APR-94	0.005	U	0.005	TB
BROMODICHLOROMETHANE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.005	U	0.005	TB
BROMODICHLOROMETHANE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.005	U	0.005	TB
BROMODICHLOROMETHANE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW3	SNL0200769	28-JUL-92	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW3	SNL0201323	03-MAY-94	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW3	SNL0201405	25-OCT-94	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00092	F
BROMODICHLOROMETHANE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00092	F
BROMODICHLOROMETHANE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
BROMODICHLOROMETHANE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
BROMODICHLOROMETHANE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW3-EB	SNL0201238	27-APR-94	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.005	U	0.005	TB
BROMODICHLOROMETHANE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.005	U	0.005	TB

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
BROMODICHLOROMETHANE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.005	U	0.005	TB
BROMODICHLOROMETHANE	MWL-MW4	022154-01	19-APR-95	0.001	U	0.001	SA
BROMODICHLOROMETHANE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00092	F
BROMODICHLOROMETHANE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00092	F
BROMODICHLOROMETHANE	MWL-MW4	022151-01	19-APR-95	0.005	U	0.00092	F
BROMODICHLOROMETHANE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
BROMODICHLOROMETHANE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
BROMODICHLOROMETHANE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW4-TB	SNL0200919	21-APR-93	0.005	U	0.005	TB
BROMODICHLOROMETHANE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.005	U	0.005	TB
BROMODICHLOROMETHANE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
BROMODICHLOROMETHANE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.005	U	0.005	TB
BROMODICHLOROMETHANE	MWL-MW4C	SNL0201160	11-NOV-93	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
BROMODICHLOROMETHANE	MWL-MW4U	SNL0201497	28-OCT-94	0.005	U	0.005	F
BROMODICHLOROMETHANE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
BROMOFORM	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
BROMOFORM	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
BROMOFORM	MWL-BW1	SNL0200789	29-JUL-92	0.005	U	0.005	F
BROMOFORM	MWL-BW1	SNL0201467	27-OCT-94	0.005	U	0.005	F
BROMOFORM	MWL-BW1	SNL0201482	27-OCT-94	0.005	U	0.005	F
BROMOFORM	MWL-BW1	SNL0201512	27-OCT-94	0.005	U	0.005	F
BROMOFORM	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
BROMOFORM	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
BROMOFORM	MWL-BW1-D	SNL0200807	29-JUL-92	0.005	U	0.005	F
BROMOFORM	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
BROMOFORM	MWL-BW1-EB	SNL0200713	23-JUL-92	0.005	U	0.005	F
BROMOFORM	MWL-BW1-EB	SNL0201253	27-APR-94	0.005	U	0.005	F
BROMOFORM	MWL-BW1-EB	SNL0201452	26-OCT-94	0.005	U	0.005	F
BROMOFORM	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
BROMOFORM	MWL-BW1-FB	SNL0200826	29-JUL-92	0.005	U	0.005	F
BROMOFORM	MWL-BW1-TB	SNL0200715	23-JUL-92	0.005	U	0.005	F
BROMOFORM	MWL-BW1-TB	SNL0200809	29-JUL-92	0.005	U	0.005	TB
BROMOFORM	MWL-BW1-TB	SNL0200828	29-JUL-92	0.005	U	0.005	TB
BROMOFORM	MWL-BW1-TB	SNL0201268	27-APR-94	0.005	U	0.005	TB
BROMOFORM	MWL-BW1-TB	SNL0201466	26-OCT-94	0.005	U	0.005	TB
BROMOFORM	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
BROMOFORM	MWL-MW1	SNL0200751	28-JUL-92	0.005	U	0.005	F
BROMOFORM	MWL-MW1	SNL0201305	03-MAY-94	0.005	U	0.005	F
BROMOFORM	MWL-MW1	SNL0201421	25-OCT-94	0.005	U	0.005	F
BROMOFORM	MWL-MW1	SNL0201437	25-OCT-94	0.005	U	0.005	F
BROMOFORM	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00126	F
BROMOFORM	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00126	F
BROMOFORM	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
BROMOFORM	MWL-MW1-D	SNL0201287	04-MAY-94	0.005	U	0.005	F
BROMOFORM	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
BROMOFORM	MWL-MW1-EB	SNL0200676	22-JUL-92	0.005	U	0.005	F
BROMOFORM	MWL-MW1-EB	SNL0201206	26-APR-94	0.005	U	0.005	F
BROMOFORM	MWL-MW1-TB	SNL0200696	22-JUL-92	0.005	U	0.005	F
BROMOFORM	MWL-MW1-TB	SNL0200771	28-JUL-92	0.005	U	0.005	TB
BROMOFORM	MWL-MW1-TB	SNL0201221	26-APR-94	0.005	U	0.005	TB
BROMOFORM	MWL-MW1-TB	SNL0201322	03-MAY-94	0.005	U	0.005	TB
BROMOFORM	MWL-MW1-TB	SNL0201304	04-MAY-94	0.005	U	0.005	TB
BROMOFORM	MWL-MW1-TB	SNL0201436	25-OCT-94	0.005	U	0.005	TB
BROMOFORM	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
BROMOFORM	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
BROMOFORM	MWL-MW2	SNL0200732	27-JUL-92	0.005	U	0.005	F
BROMOFORM	MWL-MW2	SNL0201269	02-MAY-94	0.005	U	0.005	F
BROMOFORM	MWL-MW2	SNL0201389	24-OCT-94	0.005	U	0.005	F
BROMOFORM	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00126	F
BROMOFORM	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00126	F
BROMOFORM	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
BROMOFORM	MWL-MW2-EB	SNL0200694	22-JUL-92	0.005	U	0.005	F
BROMOFORM	MWL-MW2-EB	SNL0201222	27-APR-94	0.005	U	0.005	F
BROMOFORM	MWL-MW2-EB	SNL0201373	19-OCT-94	0.005	U	0.005	F
BROMOFORM	MWL-MW2-TB	SNL0200734	27-JUL-92	0.005	U	0.005	TB
BROMOFORM	MWL-MW2-TB	SNL0201237	27-APR-94	0.005	U	0.005	TB
BROMOFORM	MWL-MW2-TB	SNL0201286	02-MAY-94	0.005	U	0.005	TB
BROMOFORM	MWL-MW2-TB	SNL0201388	19-OCT-94	0.005	U	0.005	TB

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
BROMOFORM	MWL-MW2-TB	SNL0201404	24-OCT-94	0.005	U	0.005	F
BROMOFORM	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
BROMOFORM	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
BROMOFORM	MWL-MW3	SNL0200769	28-JUL-92	0.005	U	0.005	F
BROMOFORM	MWL-MW3	SNL0201323	03-MAY-94	0.005	U	0.005	F
BROMOFORM	MWL-MW3	SNL0201405	25-OCT-94	0.005	U	0.005	F
BROMOFORM	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00126	F
BROMOFORM	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00126	F
BROMOFORM	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
BROMOFORM	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
BROMOFORM	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
BROMOFORM	MWL-MW3-EB	SNL0200657	21-JUL-92	0.005	U	0.005	F
BROMOFORM	MWL-MW3-EB	SNL0201238	27-APR-94	0.005	U	0.005	F
BROMOFORM	MWL-MW3-EB	SNL0201357	17-OCT-94	0.005	U	0.005	F
BROMOFORM	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
BROMOFORM	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
BROMOFORM	MWL-MW3-TB	SNL0200659	21-JUL-92	0.005	U	0.005	TB
BROMOFORM	MWL-MW3-TB	SNL0200772	28-JUL-92	0.005	U	0.005	TB
BROMOFORM	MWL-MW3-TB	SNL0201372	17-OCT-94	0.005	U	0.005	F
BROMOFORM	MWL-MW3-TB	SNL0201420	25-OCT-94	0.005	U	0.005	TB
BROMOFORM	MWL-MW4	022154-01	19-APR-95	0.002	U	0.002	SA
BROMOFORM	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00126	F
BROMOFORM	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00126	F
BROMOFORM	MWL-MW4	022151-01	19-APR-95	0.005	U	0.00126	F
BROMOFORM	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
BROMOFORM	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
BROMOFORM	MWL-MW4-EB	SNL0201180	11-NOV-93	0.005	U	0.005	F
BROMOFORM	MWL-MW4-TB	SNL0200919	21-APR-93	0.005	U	0.005	TB
BROMOFORM	MWL-MW4-TB	SNL0201181	11-NOV-93	0.005	U	0.005	TB
BROMOFORM	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
BROMOFORM	MWL-MW4-TB	SNL0201513	28-OCT-94	0.005	U	0.005	TB
BROMOFORM	MWL-MW4C	SNL0201160	11-NOV-93	0.005	U	0.005	F
BROMOFORM	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
BROMOFORM	MWL-MW4U	SNL0201497	28-OCT-94	0.005	U	0.005	F
BROMOFORM	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
BROMOMETHANE	MWL-BW1	SNL0200002	27-SEP-90	0.01	U	0.01	F
BROMOMETHANE	MWL-BW1	SNL0200637	17-JUL-92	0.01	U	0.01	F
BROMOMETHANE	MWL-BW1	SNL0200789	29-JUL-92	0.01	U	0.01	F
BROMOMETHANE	MWL-BW1	SNL0201467	27-OCT-94	0.01	U	0.01	F
BROMOMETHANE	MWL-BW1	SNL0201482	27-OCT-94	0.01	U	0.01	F
BROMOMETHANE	MWL-BW1	SNL0201512	27-OCT-94	0.01	U	0.01	F
BROMOMETHANE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
BROMOMETHANE	MWL-BW1-D	SNL0200009	27-SEP-90	0.01	U	0.01	F
BROMOMETHANE	MWL-BW1-D	SNL0200807	29-JUL-92	0.01	U	0.01	F
BROMOMETHANE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.01	U	0.01	F
BROMOMETHANE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.01	U	0.01	F
BROMOMETHANE	MWL-BW1-EB	SNL0201253	27-APR-94	0.01	U	0.01	F
BROMOMETHANE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.01	U	0.01	F
BROMOMETHANE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.01	U	0.01	F
BROMOMETHANE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.01	U	0.01	F
BROMOMETHANE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.01	U	0.01	F
BROMOMETHANE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.01	U	0.01	TB
BROMOMETHANE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.01	U	0.01	TB
BROMOMETHANE	MWL-BW1-TB	SNL0201268	27-APR-94	0.01	U	0.01	TB
BROMOMETHANE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.01	U	0.01	TB
BROMOMETHANE	MWL-MW1	SNL0200638	17-JUL-92	0.01	U	0.01	F
BROMOMETHANE	MWL-MW1	SNL0200751	28-JUL-92	0.01	U	0.01	F
BROMOMETHANE	MWL-MW1	SNL0201305	03-MAY-94	0.01	U	0.01	F
BROMOMETHANE	MWL-MW1	SNL0201421	25-OCT-94	0.01	U	0.01	F
BROMOMETHANE	MWL-MW1	SNL0201437	25-OCT-94	0.01	U	0.01	F
BROMOMETHANE	MWL-MW1	022149-01	19-APR-95	0.01	U	0.00149	F
BROMOMETHANE	MWL-MW1	022149-01	19-APR-95	0.01	U	0.00149	F
BROMOMETHANE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
BROMOMETHANE	MWL-MW1-D	SNL0201287	04-MAY-94	0.01	U	0.01	F
BROMOMETHANE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.01	U	0.01	F
BROMOMETHANE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.01	U	0.01	F
BROMOMETHANE	MWL-MW1-EB	SNL0201206	26-APR-94	0.0018	JB	0.01	F
BROMOMETHANE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.01	U	0.01	F
BROMOMETHANE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.01	U	0.01	TB
BROMOMETHANE	MWL-MW1-TB	SNL0201221	26-APR-94	0.0022	JB	0.01	TB

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
BROMOMETHANE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.01	U	0.01	TB
BROMOMETHANE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.01	U	0.01	TB
BROMOMETHANE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.01	U	0.01	TB
BROMOMETHANE	MWL-MW2	SNL0200079	28-SEP-90	0.01	U	0.01	F
BROMOMETHANE	MWL-MW2	SNL0200639	17-JUL-92	0.01	U	0.01	F
BROMOMETHANE	MWL-MW2	SNL0200732	27-JUL-92	0.01	U	0.01	F
BROMOMETHANE	MWL-MW2	SNL0201269	02-MAY-94	0.0019	J	0.01	F
BROMOMETHANE	MWL-MW2	SNL0201389	24-OCT-94	0.01	U	0.01	F
BROMOMETHANE	MWL-MW2	022145-01	17-APR-95	0.01	U	0.00149	F
BROMOMETHANE	MWL-MW2	022145-01	17-APR-95	0.01	U	0.00149	F
BROMOMETHANE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.01	U	0.01	F
BROMOMETHANE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.01	U	0.01	F
BROMOMETHANE	MWL-MW2-EB	SNL0201222	27-APR-94	0.01	U	0.01	F
BROMOMETHANE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.01	U	0.01	F
BROMOMETHANE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.01	U	0.01	TB
BROMOMETHANE	MWL-MW2-TB	SNL0201237	27-APR-94	0.01	U	0.01	TB
BROMOMETHANE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.01	U	0.01	TB
BROMOMETHANE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.01	U	0.01	TB
BROMOMETHANE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.01	U	0.01	F
BROMOMETHANE	MWL-MW3	SNL0200054	28-SEP-90	0.01	U	0.01	F
BROMOMETHANE	MWL-MW3	SNL0200640	17-JUL-92	0.01	U	0.01	F
BROMOMETHANE	MWL-MW3	SNL0200769	28-JUL-92	0.01	U	0.01	F
BROMOMETHANE	MWL-MW3	SNL0201323	03-MAY-94	0.01	U	0.01	F
BROMOMETHANE	MWL-MW3	SNL0201405	25-OCT-94	0.01	U	0.01	F
BROMOMETHANE	MWL-MW3	022147-01	17-APR-95	0.01	U	0.00149	F
BROMOMETHANE	MWL-MW3	022147-01	17-APR-95	0.01	U	0.00149	F
BROMOMETHANE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
BROMOMETHANE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
BROMOMETHANE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.01	U	0.01	F
BROMOMETHANE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.01	U	0.01	F
BROMOMETHANE	MWL-MW3-EB	SNL0201238	27-APR-94	0.01	U	0.01	F
BROMOMETHANE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.01	U	0.01	F
BROMOMETHANE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.01	U	0.01	F
BROMOMETHANE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.01	U	0.01	F
BROMOMETHANE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.01	U	0.01	TB
BROMOMETHANE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.01	U	0.01	TB
BROMOMETHANE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.01	U	0.01	F
BROMOMETHANE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.01	U	0.01	TB
BROMOMETHANE	MWL-MW4	022154-01	19-APR-95	0.001	U	0.001	SA
BROMOMETHANE	MWL-MW4	022150-01	19-APR-95	0.01	U	0.00149	F
BROMOMETHANE	MWL-MW4	022150-01	19-APR-95	0.01	U	0.00149	F
BROMOMETHANE	MWL-MW4	022151-01	19-APR-95	0.01	U	0.00149	F
BROMOMETHANE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
BROMOMETHANE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
BROMOMETHANE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.01	U	0.01	F
BROMOMETHANE	MWL-MW4-TB	SNL0200919	21-APR-93	0.01	U	0.01	TB
BROMOMETHANE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.01	U	0.01	TB
BROMOMETHANE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.002	U	0.002	TB
BROMOMETHANE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.01	U	0.01	TB
BROMOMETHANE	MWL-MW4C	SNL0201160	11-NOV-93	0.01	U	0.01	F
BROMOMETHANE	MWL-MW4U	SNL0201340	31-MAY-94	0.002	U	0.002	F
BROMOMETHANE	MWL-MW4U	SNL0201497	28-OCT-94	0.01	U	0.01	F
BROMOMETHANE	MWL-TB	SNL0200636	18-JUL-92	0.01	U	0.01	TB
BUTYL BENZYL PHTHALATE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
BUTYL BENZYL PHTHALATE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00132168	F
BUTYL BENZYL PHTHALATE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00132168	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
BUTYL BENZYL PHTHALATE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
BUTYL BENZYL PHTHALATE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00132168	F
BUTYL BENZYL PHTHALATE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00132168	F
BUTYL BENZYL PHTHALATE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00132168	F
BUTYL BENZYL PHTHALATE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00132168	F
BUTYL BENZYL PHTHALATE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
BUTYL BENZYL PHTHALATE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00132168	F
BUTYL BENZYL PHTHALATE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00132168	F
BUTYL BENZYL PHTHALATE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00132168	F
BUTYL BENZYL PHTHALATE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
BUTYL BENZYL PHTHALATE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
BUTYL BENZYL PHTHALATE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
BUTYL BENZYL PHTHALATE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
BUTYLBENZENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
BUTYLBENZENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
CARBAZOLE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
CARBAZOLE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
CARBAZOLE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
CARBAZOLE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
CARBAZOLE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
CARBAZOLE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
CARBAZOLE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
CARBAZOLE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00066078	F
CARBAZOLE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00066078	F
CARBAZOLE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
CARBAZOLE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
CARBAZOLE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
CARBAZOLE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
CARBAZOLE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00066078	F
CARBAZOLE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00066078	F
CARBAZOLE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
CARBAZOLE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
CARBAZOLE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
CARBAZOLE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
CARBAZOLE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00066078	F
CARBAZOLE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00066078	F
CARBAZOLE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
CARBAZOLE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
CARBAZOLE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00066078	F
CARBAZOLE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00066078	F
CARBAZOLE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00066078	F
CARBAZOLE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
CARBAZOLE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
CARBON DISULFIDE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
CARBON DISULFIDE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
CARBON DISULFIDE	MWL-BW1	SNL0200789	29-JUL-92	0.005	U	0.005	F
CARBON DISULFIDE	MWL-BW1	SNL0201467	27-OCT-94	0.005	U	0.005	F
CARBON DISULFIDE	MWL-BW1	SNL0201512	27-OCT-94	0.005	U	0.005	F
CARBON DISULFIDE	MWL-BW1	SNL0201482	27-OCT-94	0.005	U	0.005	F
CARBON DISULFIDE	MWL-BW1	026461-01	23-OCT-95	0.002	U	0.002	SA
CARBON DISULFIDE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
CARBON DISULFIDE	MWL-BW1-D	SNL0200807	29-JUL-92	0.005	U	0.005	F
CARBON DISULFIDE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
CARBON DISULFIDE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.005	U	0.005	F
CARBON DISULFIDE	MWL-BW1-EB	SNL0201253	27-APR-94	0.005	U	0.005	F
CARBON DISULFIDE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.005	U	0.005	F
CARBON DISULFIDE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
CARBON DISULFIDE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.005	U	0.005	F
CARBON DISULFIDE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.005	U	0.005	F
CARBON DISULFIDE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.005	U	0.005	TB
CARBON DISULFIDE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.005	U	0.005	TB
CARBON DISULFIDE	MWL-BW1-TB	SNL0201268	27-APR-94	0.005	U	0.005	TB
CARBON DISULFIDE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.005	U	0.005	TB
CARBON DISULFIDE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW1	SNL0200751	28-JUL-92	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW1	SNL0201305	03-MAY-94	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW1	SNL0201421	25-OCT-94	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW1	SNL0201437	25-OCT-94	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00167	F
CARBON DISULFIDE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00167	F
CARBON DISULFIDE	MWL-MW1	026464-01	20-OCT-95	0.002	U	0.002	SA
CARBON DISULFIDE	MWL-MW1-D	SNL0201287	04-MAY-94	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW1-EB	SNL0201206	26-APR-94	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.005	U	0.005	TB
CARBON DISULFIDE	MWL-MW1-TB	SNL0201221	26-APR-94	0.005	U	0.005	TB
CARBON DISULFIDE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.005	U	0.005	TB
CARBON DISULFIDE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.005	U	0.005	TB
CARBON DISULFIDE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.005	U	0.005	TB
CARBON DISULFIDE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW2	SNL0200732	27-JUL-92	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW2	SNL0201269	02-MAY-94	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW2	SNL0201389	24-OCT-94	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00167	F
CARBON DISULFIDE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00167	F
CARBON DISULFIDE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW2-EB	SNL0201222	27-APR-94	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.005	U	0.005	TB
CARBON DISULFIDE	MWL-MW2-TB	SNL0201237	27-APR-94	0.005	U	0.005	TB
CARBON DISULFIDE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.005	U	0.005	TB
CARBON DISULFIDE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.005	U	0.005	TB
CARBON DISULFIDE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW3	SNL0200769	28-JUL-92	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW3	SNL0201323	03-MAY-94	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW3	SNL0201405	25-OCT-94	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00167	F
CARBON DISULFIDE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00167	F
CARBON DISULFIDE	MWL-MW3	026458-01	16-OCT-95	0.002	U	0.002	SA
CARBON DISULFIDE	MWL-MW3	026457-01	16-OCT-95	0.002	U	0.002	TB
CARBON DISULFIDE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW3-EB	SNL0201238	27-APR-94	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.005	U	0.005	TB
CARBON DISULFIDE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.005	U	0.005	TB
CARBON DISULFIDE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.0015	J	0.005	F
CARBON DISULFIDE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.005	U	0.005	TB
CARBON DISULFIDE	MWL-MW4	022154-01	19-APR-95	0.005	U	0.005	SA
CARBON DISULFIDE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00167	F
CARBON DISULFIDE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00167	F
CARBON DISULFIDE	MWL-MW4	022151-01	19-APR-95	0.005	U	0.00167	F
CARBON DISULFIDE	MWL-MW4	026465-01	20-OCT-95	0.002	U	0.002	SA
CARBON DISULFIDE	MWL-MW4	026466-01	20-OCT-95	0.002	U	0.002	DU
CARBON DISULFIDE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.005	U	0.005	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
CARBON DISULFIDE	MWL-MW4-TB	SNL0200919	21-APR-93	0.005	U	0.005	TB
CARBON DISULFIDE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.005	U	0.005	TB
CARBON DISULFIDE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.005	U	0.005	TB
CARBON DISULFIDE	MWL-MW4C	SNL0201160	11-NOV-93	0.005	U	0.005	F
CARBON DISULFIDE	MWL-MW4U	SNL0201497	28-OCT-94	0.005	U	0.005	F
CARBON DISULFIDE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
CARBON TETRACHLORIDE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-BW1	SNL0200789	29-JUL-92	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-BW1	SNL0201467	27-OCT-94	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-BW1	SNL0201512	27-OCT-94	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-BW1	SNL0201482	27-OCT-94	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
CARBON TETRACHLORIDE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-BW1-D	SNL0200807	29-JUL-92	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-BW1-EB	SNL0201253	27-APR-94	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.005	U	0.005	TB
CARBON TETRACHLORIDE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.005	U	0.005	TB
CARBON TETRACHLORIDE	MWL-BW1-TB	SNL0201268	27-APR-94	0.005	U	0.005	TB
CARBON TETRACHLORIDE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.005	U	0.005	TB
CARBON TETRACHLORIDE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW1	SNL0200751	28-JUL-92	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW1	SNL0201305	03-MAY-94	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW1	SNL0201421	25-OCT-94	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW1	SNL0201437	25-OCT-94	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00113	F
CARBON TETRACHLORIDE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00113	F
CARBON TETRACHLORIDE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
CARBON TETRACHLORIDE	MWL-MW1-D	SNL0201287	04-MAY-94	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW1-EB	SNL0201206	26-APR-94	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.005	U	0.005	TB
CARBON TETRACHLORIDE	MWL-MW1-TB	SNL0201221	26-APR-94	0.005	U	0.005	TB
CARBON TETRACHLORIDE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.005	U	0.005	TB
CARBON TETRACHLORIDE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.005	U	0.005	TB
CARBON TETRACHLORIDE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.005	U	0.005	TB
CARBON TETRACHLORIDE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW2	SNL0200732	27-JUL-92	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW2	SNL0201269	02-MAY-94	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW2	SNL0201389	24-OCT-94	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00113	F
CARBON TETRACHLORIDE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00113	F
CARBON TETRACHLORIDE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW2-EB	SNL0201222	27-APR-94	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.005	U	0.005	TB
CARBON TETRACHLORIDE	MWL-MW2-TB	SNL0201237	27-APR-94	0.005	U	0.005	TB
CARBON TETRACHLORIDE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.005	U	0.005	TB
CARBON TETRACHLORIDE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.005	U	0.005	TB
CARBON TETRACHLORIDE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW3	SNL0200769	28-JUL-92	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW3	SNL0201323	03-MAY-94	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW3	SNL0201405	25-OCT-94	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00113	F
CARBON TETRACHLORIDE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00113	F
CARBON TETRACHLORIDE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
CARBON TETRACHLORIDE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
CARBON TETRACHLORIDE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
CARBON TETRACHLORIDE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW3-EB	SNL0201238	27-APR-94	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.005	U	0.005	TB
CARBON TETRACHLORIDE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.005	U	0.005	TB
CARBON TETRACHLORIDE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.005	U	0.005	TB
CARBON TETRACHLORIDE	MWL-MW4	022154-01	19-APR-95	0.001	U	0.001	SA
CARBON TETRACHLORIDE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00113	F
CARBON TETRACHLORIDE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00113	F
CARBON TETRACHLORIDE	MWL-MW4	022151-01	19-APR-95	0.005	U	0.00113	F
CARBON TETRACHLORIDE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
CARBON TETRACHLORIDE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
CARBON TETRACHLORIDE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW4-TB	SNL0200919	21-APR-93	0.005	U	0.005	TB
CARBON TETRACHLORIDE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.005	U	0.005	TB
CARBON TETRACHLORIDE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
CARBON TETRACHLORIDE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.005	U	0.005	TB
CARBON TETRACHLORIDE	MWL-MW4C	SNL0201160	11-NOV-93	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
CARBON TETRACHLORIDE	MWL-MW4U	SNL0201497	28-OCT-94	0.005	U	0.005	F
CARBON TETRACHLORIDE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
CHLOROBENZENE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
CHLOROBENZENE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
CHLOROBENZENE	MWL-BW1	SNL0200789	29-JUL-92	0.005	U	0.005	F
CHLOROBENZENE	MWL-BW1	SNL0201467	27-OCT-94	0.005	U	0.005	F
CHLOROBENZENE	MWL-BW1	SNL0201482	27-OCT-94	0.005	U	0.005	F
CHLOROBENZENE	MWL-BW1	SNL0201512	27-OCT-94	0.005	U	0.005	F
CHLOROBENZENE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
CHLOROBENZENE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
CHLOROBENZENE	MWL-BW1-D	SNL0200807	29-JUL-92	0.005	U	0.005	F
CHLOROBENZENE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
CHLOROBENZENE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.005	U	0.005	F
CHLOROBENZENE	MWL-BW1-EB	SNL0201253	27-APR-94	0.005	U	0.005	F
CHLOROBENZENE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.005	U	0.005	F
CHLOROBENZENE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
CHLOROBENZENE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.005	U	0.005	F
CHLOROBENZENE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.005	U	0.005	F
CHLOROBENZENE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.005	U	0.005	TB
CHLOROBENZENE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.005	U	0.005	TB
CHLOROBENZENE	MWL-BW1-TB	SNL0201268	27-APR-94	0.005	U	0.005	TB
CHLOROBENZENE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.005	U	0.005	TB
CHLOROBENZENE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW1	SNL0200751	28-JUL-92	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW1	SNL0201305	03-MAY-94	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW1	SNL0201421	25-OCT-94	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW1	SNL0201437	25-OCT-94	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.001	F
CHLOROBENZENE	MWL-MW1	022149-01	19-APR-95	0.052		0.001	SD
CHLOROBENZENE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.001	F
CHLOROBENZENE	MWL-MW1	022149-01	19-APR-95	0.052		0.001	SD
CHLOROBENZENE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
CHLOROBENZENE	MWL-MW1-D	SNL0201287	04-MAY-94	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW1-EB	SNL0201206	26-APR-94	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.005	U	0.005	TB
CHLOROBENZENE	MWL-MW1-TB	SNL0201221	26-APR-94	0.005	U	0.005	TB
CHLOROBENZENE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.005	U	0.005	TB
CHLOROBENZENE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.005	U	0.005	TB
CHLOROBENZENE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.005	U	0.005	TB
CHLOROBENZENE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW2	SNL0200732	27-JUL-92	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW2	SNL0201269	02-MAY-94	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW2	SNL0201389	24-OCT-94	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.001	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
CHLOROBENZENE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.001	F
CHLOROBENZENE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW2-EB	SNL0201222	27-APR-94	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.005	U	0.005	TB
CHLOROBENZENE	MWL-MW2-TB	SNL0201237	27-APR-94	0.005	U	0.005	TB
CHLOROBENZENE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.005	U	0.005	TB
CHLOROBENZENE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.005	U	0.005	TB
CHLOROBENZENE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW3	SNL0200769	28-JUL-92	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW3	SNL0201323	03-MAY-94	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW3	SNL0201405	25-OCT-94	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.001	F
CHLOROBENZENE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.001	F
CHLOROBENZENE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
CHLOROBENZENE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
CHLOROBENZENE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW3-EB	SNL0201238	27-APR-94	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.005	U	0.005	TB
CHLOROBENZENE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.005	U	0.005	TB
CHLOROBENZENE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.005	U	0.005	TB
CHLOROBENZENE	MWL-MW4	022154-01	19-APR-95	0.001	U	0.001	SA
CHLOROBENZENE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.001	F
CHLOROBENZENE	MWL-MW4	022151-01	19-APR-95	0.005	U	0.001	F
CHLOROBENZENE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.001	F
CHLOROBENZENE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
CHLOROBENZENE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
CHLOROBENZENE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW4-TB	SNL0200919	21-APR-93	0.005	U	0.005	TB
CHLOROBENZENE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.005	U	0.005	TB
CHLOROBENZENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
CHLOROBENZENE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.005	U	0.005	TB
CHLOROBENZENE	MWL-MW4C	SNL0201160	11-NOV-93	0.005	U	0.005	F
CHLOROBENZENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
CHLOROBENZENE	MWL-MW4U	SNL0201497	28-OCT-94	0.005	U	0.005	F
CHLOROBENZENE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
CHLOROBENZILATE	MWL-BW1	SNL0200006	27-SEP-90	0.0001	U	0.0001	F
CHLOROBENZILATE	MWL-BW1-D	SNL0200013	27-SEP-90	0.0001	U	0.0001	F
CHLOROBENZILATE	MWL-MW2	SNL0200083	28-SEP-90	0.0001	U	0.0001	F
CHLOROBENZILATE	MWL-MW3	SNL0200058	28-SEP-90	0.0001	U	0.0001	F
CHLOROETHANE	MWL-BW1	SNL0200002	27-SEP-90	0.01	U	0.01	F
CHLOROETHANE	MWL-BW1	SNL0200637	17-JUL-92	0.01	U	0.01	F
CHLOROETHANE	MWL-BW1	SNL0200789	29-JUL-92	0.01	U	0.01	F
CHLOROETHANE	MWL-BW1	SNL0201467	27-OCT-94	0.01	U	0.01	F
CHLOROETHANE	MWL-BW1	SNL0201482	27-OCT-94	0.01	U	0.01	F
CHLOROETHANE	MWL-BW1	SNL0201512	27-OCT-94	0.01	U	0.01	F
CHLOROETHANE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
CHLOROETHANE	MWL-BW1-D	SNL0200009	27-SEP-90	0.01	U	0.01	F
CHLOROETHANE	MWL-BW1-D	SNL0200807	29-JUL-92	0.01	U	0.01	F
CHLOROETHANE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.01	U	0.01	F
CHLOROETHANE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.01	U	0.01	F
CHLOROETHANE	MWL-BW1-EB	SNL0201253	27-APR-94	0.01	U	0.01	F
CHLOROETHANE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.01	U	0.01	F
CHLOROETHANE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.01	U	0.01	F
CHLOROETHANE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.01	U	0.01	F
CHLOROETHANE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.01	U	0.01	F
CHLOROETHANE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.01	U	0.01	TB
CHLOROETHANE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.01	U	0.01	TB
CHLOROETHANE	MWL-BW1-TB	SNL0201268	27-APR-94	0.01	U	0.01	TB
CHLOROETHANE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.01	U	0.01	TB
CHLOROETHANE	MWL-MW1	SNL0200638	17-JUL-92	0.01	U	0.01	F
CHLOROETHANE	MWL-MW1	SNL0200751	28-JUL-92	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
CHLOROETHANE	MWL-MW1	SNL0201305	03-MAY-94	0.01	U	0.01	F
CHLOROETHANE	MWL-MW1	SNL0201421	25-OCT-94	0.01	U	0.01	F
CHLOROETHANE	MWL-MW1	SNL0201437	25-OCT-94	0.01	U	0.01	F
CHLOROETHANE	MWL-MW1	022149-01	19-APR-95	0.01	U	0.00242	F
CHLOROETHANE	MWL-MW1	022149-01	19-APR-95	0.01	U	0.00242	F
CHLOROETHANE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
CHLOROETHANE	MWL-MW1-D	SNL0201287	04-MAY-94	0.01	U	0.01	F
CHLOROETHANE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.01	U	0.01	F
CHLOROETHANE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.01	U	0.01	F
CHLOROETHANE	MWL-MW1-EB	SNL0201206	26-APR-94	0.01	U	0.01	F
CHLOROETHANE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.01	U	0.01	F
CHLOROETHANE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.01	U	0.01	TB
CHLOROETHANE	MWL-MW1-TB	SNL0201221	26-APR-94	0.01	U	0.01	TB
CHLOROETHANE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.01	U	0.01	TB
CHLOROETHANE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.01	U	0.01	TB
CHLOROETHANE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.01	U	0.01	TB
CHLOROETHANE	MWL-MW2	SNL0200079	28-SEP-90	0.01	U	0.01	F
CHLOROETHANE	MWL-MW2	SNL0200639	17-JUL-92	0.01	U	0.01	F
CHLOROETHANE	MWL-MW2	SNL0200732	27-JUL-92	0.01	U	0.01	F
CHLOROETHANE	MWL-MW2	SNL0201269	02-MAY-94	0.01	U	0.01	F
CHLOROETHANE	MWL-MW2	SNL0201389	24-OCT-94	0.01	U	0.01	F
CHLOROETHANE	MWL-MW2	022145-01	17-APR-95	0.01	U	0.00242	F
CHLOROETHANE	MWL-MW2	022145-01	17-APR-95	0.01	U	0.00242	F
CHLOROETHANE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.01	U	0.01	F
CHLOROETHANE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.01	U	0.01	F
CHLOROETHANE	MWL-MW2-EB	SNL0201222	27-APR-94	0.01	U	0.01	F
CHLOROETHANE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.01	U	0.01	F
CHLOROETHANE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.01	U	0.01	TB
CHLOROETHANE	MWL-MW2-TB	SNL0201237	27-APR-94	0.01	U	0.01	TB
CHLOROETHANE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.01	U	0.01	TB
CHLOROETHANE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.01	U	0.01	TB
CHLOROETHANE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.01	U	0.01	F
CHLOROETHANE	MWL-MW3	SNL0200054	28-SEP-90	0.01	U	0.01	F
CHLOROETHANE	MWL-MW3	SNL0200640	17-JUL-92	0.01	U	0.01	F
CHLOROETHANE	MWL-MW3	SNL0200769	28-JUL-92	0.01	U	0.01	F
CHLOROETHANE	MWL-MW3	SNL0201323	03-MAY-94	0.01	U	0.01	F
CHLOROETHANE	MWL-MW3	SNL0201405	25-OCT-94	0.01	U	0.01	F
CHLOROETHANE	MWL-MW3	022147-01	17-APR-95	0.01	U	0.00242	F
CHLOROETHANE	MWL-MW3	022147-01	17-APR-95	0.01	U	0.00242	F
CHLOROETHANE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
CHLOROETHANE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
CHLOROETHANE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.01	U	0.01	F
CHLOROETHANE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.01	U	0.01	F
CHLOROETHANE	MWL-MW3-EB	SNL0201238	27-APR-94	0.01	U	0.01	F
CHLOROETHANE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.01	U	0.01	F
CHLOROETHANE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.01	U	0.01	F
CHLOROETHANE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.01	U	0.01	F
CHLOROETHANE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.01	U	0.01	TB
CHLOROETHANE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.01	U	0.01	TB
CHLOROETHANE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.01	U	0.01	F
CHLOROETHANE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.01	U	0.01	TB
CHLOROETHANE	MWL-MW4	022154-01	19-APR-95	0.001	U	0.001	SA
CHLOROETHANE	MWL-MW4	022150-01	19-APR-95	0.01	U	0.00242	F
CHLOROETHANE	MWL-MW4	022150-01	19-APR-95	0.01	U	0.00242	F
CHLOROETHANE	MWL-MW4	022151-01	19-APR-95	0.01	U	0.00242	F
CHLOROETHANE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
CHLOROETHANE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
CHLOROETHANE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.01	U	0.01	F
CHLOROETHANE	MWL-MW4-TB	SNL0200919	21-APR-93	0.01	U	0.01	TB
CHLOROETHANE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.01	U	0.01	TB
CHLOROETHANE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.002	U	0.002	TB
CHLOROETHANE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.01	U	0.01	TB
CHLOROETHANE	MWL-MW4C	SNL0201160	11-NOV-93	0.01	U	0.01	F
CHLOROETHANE	MWL-MW4U	SNL0201340	31-MAY-94	0.002	U	0.002	F
CHLOROETHANE	MWL-MW4U	SNL0201497	28-OCT-94	0.01	U	0.01	F
CHLOROETHANE	MWL-TB	SNL0200636	18-JUL-92	0.01	U	0.01	TB
CHLOROFORM	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
CHLOROFORM	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
CHLOROFORM	MWL-BW1	SNL0200789	29-JUL-92	0.005	U	0.005	F
CHLOROFORM	MWL-BW1	SNL0201467	27-OCT-94	0.005	U	0.005	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
CHLOROFORM	MWL-BW1	SNL0201482	27-OCT-94	0.005	U	0.005	F
CHLOROFORM	MWL-BW1	SNL0201512	27-OCT-94	0.005	U	0.005	F
CHLOROFORM	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
CHLOROFORM	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
CHLOROFORM	MWL-BW1-D	SNL0200807	29-JUL-92	0.005	U	0.005	F
CHLOROFORM	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
CHLOROFORM	MWL-BW1-EB	SNL0200713	23-JUL-92	0.005	U	0.005	F
CHLOROFORM	MWL-BW1-EB	SNL0201253	27-APR-94	0.005	U	0.005	F
CHLOROFORM	MWL-BW1-EB	SNL0201452	26-OCT-94	0.005	U	0.005	F
CHLOROFORM	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
CHLOROFORM	MWL-BW1-FB	SNL0200826	29-JUL-92	0.005	U	0.005	F
CHLOROFORM	MWL-BW1-TB	SNL0200715	23-JUL-92	0.005	U	0.005	F
CHLOROFORM	MWL-BW1-TB	SNL0200809	29-JUL-92	0.005	U	0.005	TB
CHLOROFORM	MWL-BW1-TB	SNL0200828	29-JUL-92	0.005	U	0.005	TB
CHLOROFORM	MWL-BW1-TB	SNL0201268	27-APR-94	0.005	U	0.005	TB
CHLOROFORM	MWL-BW1-TB	SNL0201466	26-OCT-94	0.005	U	0.005	TB
CHLOROFORM	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
CHLOROFORM	MWL-MW1	SNL0200751	28-JUL-92	0.005	U	0.005	F
CHLOROFORM	MWL-MW1	SNL0201305	03-MAY-94	0.005	U	0.005	F
CHLOROFORM	MWL-MW1	SNL0201421	25-OCT-94	0.005	U	0.005	F
CHLOROFORM	MWL-MW1	SNL0201437	25-OCT-94	0.005	U	0.005	F
CHLOROFORM	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00103	F
CHLOROFORM	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00103	F
CHLOROFORM	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
CHLOROFORM	MWL-MW1-D	SNL0201287	04-MAY-94	0.005	U	0.005	F
CHLOROFORM	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
CHLOROFORM	MWL-MW1-EB	SNL0200676	22-JUL-92	0.005	U	0.005	F
CHLOROFORM	MWL-MW1-EB	SNL0201206	26-APR-94	0.005	U	0.005	F
CHLOROFORM	MWL-MW1-TB	SNL0200696	22-JUL-92	0.005	U	0.005	F
CHLOROFORM	MWL-MW1-TB	SNL0200771	28-JUL-92	0.005	U	0.005	TB
CHLOROFORM	MWL-MW1-TB	SNL0201221	26-APR-94	0.005	U	0.005	TB
CHLOROFORM	MWL-MW1-TB	SNL0201322	03-MAY-94	0.005	U	0.005	TB
CHLOROFORM	MWL-MW1-TB	SNL0201304	04-MAY-94	0.005	U	0.005	TB
CHLOROFORM	MWL-MW1-TB	SNL0201436	25-OCT-94	0.005	U	0.005	TB
CHLOROFORM	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
CHLOROFORM	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
CHLOROFORM	MWL-MW2	SNL0200732	27-JUL-92	0.005	U	0.005	F
CHLOROFORM	MWL-MW2	SNL0201269	02-MAY-94	0.005	U	0.005	F
CHLOROFORM	MWL-MW2	SNL0201389	24-OCT-94	0.005	U	0.005	F
CHLOROFORM	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00103	F
CHLOROFORM	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00103	F
CHLOROFORM	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
CHLOROFORM	MWL-MW2-EB	SNL0200694	22-JUL-92	0.005	U	0.005	F
CHLOROFORM	MWL-MW2-EB	SNL0201222	27-APR-94	0.005	U	0.005	F
CHLOROFORM	MWL-MW2-EB	SNL0201373	19-OCT-94	0.005	U	0.005	F
CHLOROFORM	MWL-MW2-TB	SNL0200734	27-JUL-92	0.005	U	0.005	TB
CHLOROFORM	MWL-MW2-TB	SNL0201237	27-APR-94	0.005	U	0.005	TB
CHLOROFORM	MWL-MW2-TB	SNL0201286	02-MAY-94	0.005	U	0.005	TB
CHLOROFORM	MWL-MW2-TB	SNL0201388	19-OCT-94	0.005	U	0.005	TB
CHLOROFORM	MWL-MW2-TB	SNL0201404	24-OCT-94	0.005	U	0.005	F
CHLOROFORM	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
CHLOROFORM	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
CHLOROFORM	MWL-MW3	SNL0200769	28-JUL-92	0.005	U	0.005	F
CHLOROFORM	MWL-MW3	SNL0201323	03-MAY-94	0.005	U	0.005	F
CHLOROFORM	MWL-MW3	SNL0201405	25-OCT-94	0.005	U	0.005	F
CHLOROFORM	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00103	F
CHLOROFORM	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00103	F
CHLOROFORM	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
CHLOROFORM	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
CHLOROFORM	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
CHLOROFORM	MWL-MW3-EB	SNL0200657	21-JUL-92	0.005	U	0.005	F
CHLOROFORM	MWL-MW3-EB	SNL0201238	27-APR-94	0.005	U	0.005	F
CHLOROFORM	MWL-MW3-EB	SNL0201357	17-OCT-94	0.005	U	0.005	F
CHLOROFORM	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
CHLOROFORM	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
CHLOROFORM	MWL-MW3-TB	SNL0200659	21-JUL-92	0.005	U	0.005	TB
CHLOROFORM	MWL-MW3-TB	SNL0200772	28-JUL-92	0.005	U	0.005	TB
CHLOROFORM	MWL-MW3-TB	SNL0201372	17-OCT-94	0.005	U	0.005	F
CHLOROFORM	MWL-MW3-TB	SNL0201420	25-OCT-94	0.005	U	0.005	TB
CHLOROFORM	MWL-MW4	022154-01	19-APR-95	0.001	U	0.001	SA

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
CHLOROFORM	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00103	F
CHLOROFORM	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00103	F
CHLOROFORM	MWL-MW4	022151-01	19-APR-95	0.005	U	0.00103	F
CHLOROFORM	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
CHLOROFORM	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
CHLOROFORM	MWL-MW4-EB	SNL0201180	11-NOV-93	0.005	U	0.005	F
CHLOROFORM	MWL-MW4-TB	SNL0200919	21-APR-93	0.005	U	0.005	TB
CHLOROFORM	MWL-MW4-TB	SNL0201181	11-NOV-93	0.005	U	0.005	TB
CHLOROFORM	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
CHLOROFORM	MWL-MW4-TB	SNL0201513	28-OCT-94	0.005	U	0.005	TB
CHLOROFORM	MWL-MW4C	SNL0201160	11-NOV-93	0.005	U	0.005	F
CHLOROFORM	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
CHLOROFORM	MWL-MW4U	SNL0201497	28-OCT-94	0.005	U	0.005	F
CHLOROFORM	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
CHLOROMETHANE	MWL-BW1	SNL0200002	27-SEP-90	0.01	U	0.01	F
CHLOROMETHANE	MWL-BW1	SNL0200637	17-JUL-92	0.01	U	0.01	F
CHLOROMETHANE	MWL-BW1	SNL0200789	29-JUL-92	0.01	U	0.01	F
CHLOROMETHANE	MWL-BW1	SNL0201467	27-OCT-94	0.01	U	0.01	F
CHLOROMETHANE	MWL-BW1	SNL0201482	27-OCT-94	0.01	U	0.01	F
CHLOROMETHANE	MWL-BW1	SNL0201512	27-OCT-94	0.01	U	0.01	F
CHLOROMETHANE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
CHLOROMETHANE	MWL-BW1-D	SNL0200009	27-SEP-90	0.01	U	0.01	F
CHLOROMETHANE	MWL-BW1-D	SNL0200807	29-JUL-92	0.01	U	0.01	F
CHLOROMETHANE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.01	U	0.01	F
CHLOROMETHANE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.01	U	0.01	F
CHLOROMETHANE	MWL-BW1-EB	SNL0201253	27-APR-94	0.01	U	0.01	F
CHLOROMETHANE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.01	U	0.01	F
CHLOROMETHANE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.01	U	0.01	F
CHLOROMETHANE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.01	U	0.01	F
CHLOROMETHANE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.01	U	0.01	F
CHLOROMETHANE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.01	U	0.01	TB
CHLOROMETHANE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.01	U	0.01	TB
CHLOROMETHANE	MWL-BW1-TB	SNL0201268	27-APR-94	0.01	U	0.01	TB
CHLOROMETHANE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.01	U	0.01	TB
CHLOROMETHANE	MWL-MW1	SNL0200638	17-JUL-92	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW1	SNL0200751	28-JUL-92	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW1	SNL0201305	03-MAY-94	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW1	SNL0201421	25-OCT-94	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW1	SNL0201437	25-OCT-94	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW1	022149-01	19-APR-95	0.01	U	0.00333	F
CHLOROMETHANE	MWL-MW1	022149-01	19-APR-95	0.01	U	0.00333	F
CHLOROMETHANE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
CHLOROMETHANE	MWL-MW1-D	SNL0201287	04-MAY-94	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW1-EB	SNL0201206	26-APR-94	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.01	U	0.01	TB
CHLOROMETHANE	MWL-MW1-TB	SNL0201221	26-APR-94	0.0021	J	0.01	TB
CHLOROMETHANE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.01	U	0.01	TB
CHLOROMETHANE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.01	U	0.01	TB
CHLOROMETHANE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.01	U	0.01	TB
CHLOROMETHANE	MWL-MW2	SNL0200079	28-SEP-90	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW2	SNL0200639	17-JUL-92	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW2	SNL0200732	27-JUL-92	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW2	SNL0201269	02-MAY-94	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW2	SNL0201389	24-OCT-94	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW2	022145-01	17-APR-95	0.01	U	0.00333	F
CHLOROMETHANE	MWL-MW2	022145-01	17-APR-95	0.01	U	0.00333	F
CHLOROMETHANE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW2-EB	SNL0201222	27-APR-94	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.01	U	0.01	TB
CHLOROMETHANE	MWL-MW2-TB	SNL0201237	27-APR-94	0.01	U	0.01	TB
CHLOROMETHANE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.01	U	0.01	TB
CHLOROMETHANE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.01	U	0.01	TB
CHLOROMETHANE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW3	SNL0200054	28-SEP-90	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW3	SNL0200640	17-JUL-92	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
CHLOROMETHANE	MWL-MW3	SNL0200769	28-JUL-92	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW3	SNL0201323	03-MAY-94	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW3	SNL0201405	25-OCT-94	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW3	022147-01	17-APR-95	0.01	U	0.00333	F
CHLOROMETHANE	MWL-MW3	022147-01	17-APR-95	0.01	U	0.00333	F
CHLOROMETHANE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
CHLOROMETHANE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
CHLOROMETHANE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW3-EB	SNL0201238	27-APR-94	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.01	U	0.01	TB
CHLOROMETHANE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.01	U	0.01	TB
CHLOROMETHANE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.01	U	0.01	TB
CHLOROMETHANE	MWL-MW4	022154-01	19-APR-95	0.001	U	0.001	SA
CHLOROMETHANE	MWL-MW4	022150-01	19-APR-95	0.01	U	0.00333	F
CHLOROMETHANE	MWL-MW4	022150-01	19-APR-95	0.01	U	0.00333	F
CHLOROMETHANE	MWL-MW4	022151-01	19-APR-95	0.01	U	0.00333	F
CHLOROMETHANE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
CHLOROMETHANE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
CHLOROMETHANE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW4-TB	SNL0200919	21-APR-93	0.01	U	0.01	TB
CHLOROMETHANE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.01	U	0.01	TB
CHLOROMETHANE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.002	U	0.002	TB
CHLOROMETHANE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.01	U	0.01	TB
CHLOROMETHANE	MWL-MW4C	SNL0201160	11-NOV-93	0.01	U	0.01	F
CHLOROMETHANE	MWL-MW4U	SNL0201340	31-MAY-94	0.002	U	0.002	F
CHLOROMETHANE	MWL-MW4U	SNL0201497	28-OCT-94	0.01	U	0.01	F
CHLOROMETHANE	MWL-TB	SNL0200636	18-JUL-92	0.01	U	0.01	TB
CHLOROPRENE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
CHLOROPRENE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
CHLOROPRENE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
CHLOROPRENE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
CHLOROPRENE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
CHLOROPRENE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
CHLOROPRENE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
CHLOROPRENE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
CHLOROPRENE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
CHLOROPRENE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
CHLOROPRENE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
CHLOROPRENE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
CHLOROPRENE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
CHLOROPRENE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
CHLOROPRENE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
CHLOROPRENE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
CHRYSENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
CHRYSENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
CHRYSENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
CHRYSENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
CHRYSENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
CHRYSENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
CHRYSENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
CHRYSENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
CHRYSENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
CHRYSENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
CHRYSENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
CHRYSENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
CHRYSENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
CHRYSENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
CHRYSENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
CHRYSENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.0005606	F
CHRYSENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.0005606	F
CHRYSENE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
CHRYSENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
CHRYSENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
CHRYSENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
CHRYSENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
CHRYSENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
CHRYSENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
CHRYSENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
CHRYSENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.0005606	F
CHRYSENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.0005606	F
CHRYSENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
CHRYSENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
CHRYSENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
CHRYSENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
CHRYSENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
CHRYSENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
CHRYSENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
CHRYSENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.0005606	F
CHRYSENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.0005606	F
CHRYSENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
CHRYSENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
CHRYSENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
CHRYSENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
CHRYSENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.0005606	F
CHRYSENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.0005606	F
CHRYSENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.0005606	F
CHRYSENE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
CHRYSENE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
CHRYSENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
CHRYSENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
CIS-1,2-DICHLOROETHYLENE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
CIS-1,2-DICHLOROETHYLENE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
CIS-1,2-DICHLOROETHYLENE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
CIS-1,2-DICHLOROETHYLENE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
CIS-1,2-DICHLOROETHYLENE	MWL-MW4	022154-01	19-APR-95	0.001	U	0.001	SA
CIS-1,2-DICHLOROETHYLENE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
CIS-1,2-DICHLOROETHYLENE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
CIS-1,3-DICHLOROPROPENE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-BW1	SNL0200789	29-JUL-92	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-BW1	SNL0201467	27-OCT-94	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-BW1	SNL0201512	27-OCT-94	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-BW1	SNL0201482	27-OCT-94	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
CIS-1,3-DICHLOROPROPENE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-BW1-D	SNL0200807	29-JUL-92	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-BW1-EB	SNL0201253	27-APR-94	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.005	U	0.005	TB
CIS-1,3-DICHLOROPROPENE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.005	U	0.005	TB
CIS-1,3-DICHLOROPROPENE	MWL-BW1-TB	SNL0201268	27-APR-94	0.005	U	0.005	TB
CIS-1,3-DICHLOROPROPENE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.005	U	0.005	TB
CIS-1,3-DICHLOROPROPENE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW1	SNL0200751	28-JUL-92	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW1	SNL0201305	03-MAY-94	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW1	SNL0201421	25-OCT-94	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW1	SNL0201437	25-OCT-94	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00109	F
CIS-1,3-DICHLOROPROPENE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00109	F
CIS-1,3-DICHLOROPROPENE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
CIS-1,3-DICHLOROPROPENE	MWL-MW1-D	SNL0201287	04-MAY-94	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW1-EB	SNL0201206	26-APR-94	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.005	U	0.005	TB
CIS-1,3-DICHLOROPROPENE	MWL-MW1-TB	SNL0201221	26-APR-94	0.005	U	0.005	TB
CIS-1,3-DICHLOROPROPENE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.005	U	0.005	TB
CIS-1,3-DICHLOROPROPENE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.005	U	0.005	TB
CIS-1,3-DICHLOROPROPENE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.005	U	0.005	TB

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
CIS-1,3-DICHLOROPROPENE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW2	SNL0200732	27-JUL-92	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW2	SNL0201269	02-MAY-94	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW2	SNL0201389	24-OCT-94	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00109	F
CIS-1,3-DICHLOROPROPENE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00109	F
CIS-1,3-DICHLOROPROPENE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW2-EB	SNL0201222	27-APR-94	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.005	U	0.005	TB
CIS-1,3-DICHLOROPROPENE	MWL-MW2-TB	SNL0201237	27-APR-94	0.005	U	0.005	TB
CIS-1,3-DICHLOROPROPENE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.005	U	0.005	TB
CIS-1,3-DICHLOROPROPENE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.005	U	0.005	TB
CIS-1,3-DICHLOROPROPENE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW3	SNL0200769	28-JUL-92	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW3	SNL0201323	03-MAY-94	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW3	SNL0201405	25-OCT-94	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00109	F
CIS-1,3-DICHLOROPROPENE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00109	F
CIS-1,3-DICHLOROPROPENE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
CIS-1,3-DICHLOROPROPENE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
CIS-1,3-DICHLOROPROPENE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW3-EB	SNL0201238	27-APR-94	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.005	U	0.005	TB
CIS-1,3-DICHLOROPROPENE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.005	U	0.005	TB
CIS-1,3-DICHLOROPROPENE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.005	U	0.005	TB
CIS-1,3-DICHLOROPROPENE	MWL-MW4	022154-01	19-APR-95	0.001	U	0.001	SA
CIS-1,3-DICHLOROPROPENE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00109	F
CIS-1,3-DICHLOROPROPENE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00109	F
CIS-1,3-DICHLOROPROPENE	MWL-MW4	022151-01	19-APR-95	0.005	U	0.00109	F
CIS-1,3-DICHLOROPROPENE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
CIS-1,3-DICHLOROPROPENE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
CIS-1,3-DICHLOROPROPENE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW4-TB	SNL0200919	21-APR-93	0.005	U	0.005	TB
CIS-1,3-DICHLOROPROPENE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.005	U	0.005	TB
CIS-1,3-DICHLOROPROPENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
CIS-1,3-DICHLOROPROPENE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.005	U	0.005	TB
CIS-1,3-DICHLOROPROPENE	MWL-MW4C	SNL0201160	11-NOV-93	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
CIS-1,3-DICHLOROPROPENE	MWL-MW4U	SNL0201497	28-OCT-94	0.005	U	0.005	F
CIS-1,3-DICHLOROPROPENE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
DALAPON	MWL-BW1	SNL0201517	31-OCT-94	0.005	U	0.005	F
DELTA-BHC	MWL-BW1	SNL0200006	27-SEP-90	0.00005	U	0.00005	F
DELTA-BHC	MWL-BW1	SNL0200277	07-MAY-91	0.00005	U	0.00005	F
DELTA-BHC	MWL-BW1	SNL0200420	06-AUG-91	0.00005	U	0.00005	F
DELTA-BHC	MWL-BW1	SNL0200567	16-OCT-91	0.00005	U	0.00005	F
DELTA-BHC	MWL-BW1	SNL0201514	31-OCT-94	0.00005	U	0.00005	F
DELTA-BHC	MWL-BW1-D	SNL0200013	27-SEP-90	0.00005	U	0.00005	F
DELTA-BHC	MWL-BW1-D	SNL0200281	07-MAY-91	0.00005	U	0.00005	F
DELTA-BHC	MWL-BW1-D	SNL0200437	06-AUG-91	0.00005	U	0.00005	F
DELTA-BHC	MWL-BW1-D	SNL0200585	16-OCT-91	0.00005	U	0.00005	F
DELTA-BHC	MWL-BW1-EB	SNL0200495	09-OCT-91	0.00005	U	0.00005	F
DELTA-BHC	MWL-BW1-FB	SNL0200603	16-OCT-91	0.00005	U	0.00005	F
DELTA-BHC	MWL-MW1	SNL0200279	07-MAY-91	0.00005	U	0.00005	F
DELTA-BHC	MWL-MW1	SNL0200352	31-JUL-91	0.00005	U	0.00005	F
DELTA-BHC	MWL-MW1	SNL0200549	15-OCT-91	0.00005	U	0.00005	F
DELTA-BHC	MWL-MW1-EB	SNL0200459	08-OCT-91	0.00005	U	0.00005	F
DELTA-BHC	MWL-MW2	SNL0200083	28-SEP-90	0.00005	U	0.00005	F
DELTA-BHC	MWL-MW2	SNL0200217	02-MAY-91	0.00005	U	0.00005	F
DELTA-BHC	MWL-MW2	SNL0200369	01-AUG-91	0.00005	U	0.00005	F
DELTA-BHC	MWL-MW2	SNL0200513	14-OCT-91	0.00005	U	0.00005	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
DELTA-BHC	MWL-MW2-EB	SNL0200441	07-OCT-91	0.00005	U	0.00005	F
DELTA-BHC	MWL-MW3	SNL0200058	28-SEP-90	0.00005	U	0.00005	F
DELTA-BHC	MWL-MW3	SNL0200219	02-MAY-91	0.00005	U	0.00005	F
DELTA-BHC	MWL-MW3	SNL0200403	05-AUG-91	0.00005	U	0.00005	F
DELTA-BHC	MWL-MW3	SNL0200531	15-OCT-91	0.00005	U	0.00005	F
DELTA-BHC	MWL-MW3-EB	SNL0200477	09-OCT-91	0.00005	U	0.00005	F
DI-N-BUTYLPHTHALATE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
DI-N-BUTYLPHTHALATE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00084461	F
DI-N-BUTYLPHTHALATE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00084461	F
DI-N-BUTYLPHTHALATE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
DI-N-BUTYLPHTHALATE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00084461	F
DI-N-BUTYLPHTHALATE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00084461	F
DI-N-BUTYLPHTHALATE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00084461	F
DI-N-BUTYLPHTHALATE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00084461	F
DI-N-BUTYLPHTHALATE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
DI-N-BUTYLPHTHALATE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00084461	F
DI-N-BUTYLPHTHALATE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00084461	F
DI-N-BUTYLPHTHALATE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00084461	F
DI-N-BUTYLPHTHALATE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
DI-N-BUTYLPHTHALATE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
DI-N-BUTYLPHTHALATE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
DI-N-BUTYLPHTHALATE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
DI-N-OCTYLPHTHLATE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00151724	F
DI-N-OCTYLPHTHLATE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00151724	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
DI-N-OCTYLPHTHLATE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
DI-N-OCTYLPHTHLATE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00151724	F
DI-N-OCTYLPHTHLATE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00151724	F
DI-N-OCTYLPHTHLATE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00151724	F
DI-N-OCTYLPHTHLATE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00151724	F
DI-N-OCTYLPHTHLATE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
DI-N-OCTYLPHTHLATE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00151724	F
DI-N-OCTYLPHTHLATE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00151724	F
DI-N-OCTYLPHTHLATE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00151724	F
DI-N-OCTYLPHTHLATE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
DI-N-OCTYLPHTHLATE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
DI-N-OCTYLPHTHLATE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
DI-N-OCTYLPHTHLATE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
DIALLATE	MWL-BW1	SNL0200006	27-SEP-90	0.001	U	0.001	F
DIALLATE	MWL-BW1-D	SNL0200013	27-SEP-90	0.001	U	0.001	F
DIALLATE	MWL-MW2	SNL0200083	28-SEP-90	0.001	U	0.001	F
DIALLATE	MWL-MW3	SNL0200058	28-SEP-90	0.001	U	0.001	F
DIBENZ(A,H)ANTHRACENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
DIBENZ(A,H)ANTHRACENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00073483	F
DIBENZ(A,H)ANTHRACENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00073483	F
DIBENZ(A,H)ANTHRACENE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
DIBENZ(A,H)ANTHRACENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00073483	F
DIBENZ(A,H)ANTHRACENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00073483	F
DIBENZ(A,H)ANTHRACENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00073483	F
DIBENZ(A,H)ANTHRACENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00073483	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
DIBENZ(A,H)ANTHRACENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
DIBENZ(A,H)ANTHRACENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00073483	F
DIBENZ(A,H)ANTHRACENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00073483	F
DIBENZ(A,H)ANTHRACENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00073483	F
DIBENZ(A,H)ANTHRACENE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
DIBENZ(A,H)ANTHRACENE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
DIBENZ(A,H)ANTHRACENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
DIBENZ(A,H)ANTHRACENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
DIBENZOFURAN	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
DIBENZOFURAN	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
DIBENZOFURAN	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
DIBENZOFURAN	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
DIBENZOFURAN	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
DIBENZOFURAN	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
DIBENZOFURAN	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
DIBENZOFURAN	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
DIBENZOFURAN	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
DIBENZOFURAN	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
DIBENZOFURAN	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
DIBENZOFURAN	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
DIBENZOFURAN	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
DIBENZOFURAN	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
DIBENZOFURAN	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
DIBENZOFURAN	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00063452	F
DIBENZOFURAN	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00063452	F
DIBENZOFURAN	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
DIBENZOFURAN	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
DIBENZOFURAN	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
DIBENZOFURAN	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
DIBENZOFURAN	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
DIBENZOFURAN	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
DIBENZOFURAN	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
DIBENZOFURAN	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
DIBENZOFURAN	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00063452	F
DIBENZOFURAN	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00063452	F
DIBENZOFURAN	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
DIBENZOFURAN	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
DIBENZOFURAN	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
DIBENZOFURAN	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
DIBENZOFURAN	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
DIBENZOFURAN	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
DIBENZOFURAN	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
DIBENZOFURAN	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00063452	F
DIBENZOFURAN	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00063452	F
DIBENZOFURAN	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
DIBENZOFURAN	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
DIBENZOFURAN	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
DIBENZOFURAN	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
DIBENZOFURAN	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00063452	F
DIBENZOFURAN	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00063452	F
DIBENZOFURAN	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00063452	F
DIBENZOFURAN	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
DIBENZOFURAN	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
DIBENZOFURAN	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
DIBENZOFURAN	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
DIBROMOCHLOROMETHANE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-BW1	SNL0200789	29-JUL-92	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-BW1	SNL0201467	27-OCT-94	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-BW1	SNL0201512	27-OCT-94	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-BW1	SNL0201482	27-OCT-94	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
DIBROMOCHLOROMETHANE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-BW1-D	SNL0200807	29-JUL-92	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-BW1-EB	SNL0201253	27-APR-94	0.005	U	0.005	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
DIBROMOCHLOROMETHANE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.005	U	0.005	TB
DIBROMOCHLOROMETHANE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.005	U	0.005	TB
DIBROMOCHLOROMETHANE	MWL-BW1-TB	SNL0201268	27-APR-94	0.005	U	0.005	TB
DIBROMOCHLOROMETHANE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.005	U	0.005	TB
DIBROMOCHLOROMETHANE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW1	SNL0200751	28-JUL-92	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW1	SNL0201305	03-MAY-94	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW1	SNL0201421	25-OCT-94	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW1	SNL0201437	25-OCT-94	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
DIBROMOCHLOROMETHANE	MWL-MW1-D	SNL0201287	04-MAY-94	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW1-EB	SNL0201206	26-APR-94	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.005	U	0.005	TB
DIBROMOCHLOROMETHANE	MWL-MW1-TB	SNL0201221	26-APR-94	0.005	U	0.005	TB
DIBROMOCHLOROMETHANE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.005	U	0.005	TB
DIBROMOCHLOROMETHANE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.005	U	0.005	TB
DIBROMOCHLOROMETHANE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.005	U	0.005	TB
DIBROMOCHLOROMETHANE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW2	SNL0200732	27-JUL-92	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW2	SNL0201269	02-MAY-94	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW2	SNL0201389	24-OCT-94	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW2-EB	SNL0201222	27-APR-94	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.005	U	0.005	TB
DIBROMOCHLOROMETHANE	MWL-MW2-TB	SNL0201237	27-APR-94	0.005	U	0.005	TB
DIBROMOCHLOROMETHANE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.005	U	0.005	TB
DIBROMOCHLOROMETHANE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.005	U	0.005	TB
DIBROMOCHLOROMETHANE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW3	SNL0200769	28-JUL-92	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW3	SNL0201323	03-MAY-94	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW3	SNL0201405	25-OCT-94	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
DIBROMOCHLOROMETHANE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
DIBROMOCHLOROMETHANE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW3-EB	SNL0201238	27-APR-94	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.005	U	0.005	TB
DIBROMOCHLOROMETHANE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.005	U	0.005	TB
DIBROMOCHLOROMETHANE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.005	U	0.005	TB
DIBROMOCHLOROMETHANE	MWL-MW4	022154-01	19-APR-95	0.001	U	0.001	SA
DIBROMOCHLOROMETHANE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
DIBROMOCHLOROMETHANE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
DIBROMOCHLOROMETHANE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW4-TB	SNL0200919	21-APR-93	0.005	U	0.005	TB
DIBROMOCHLOROMETHANE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.005	U	0.005	TB
DIBROMOCHLOROMETHANE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
DIBROMOCHLOROMETHANE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.005	U	0.005	TB
DIBROMOCHLOROMETHANE	MWL-MW4C	SNL0201160	11-NOV-93	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
DIBROMOCHLOROMETHANE	MWL-MW4U	SNL0201497	28-OCT-94	0.005	U	0.005	F
DIBROMOCHLOROMETHANE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
DIBROMOMETHANE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
DIBROMOMETHANE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
DIBROMOMETHANE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
DIBROMOMETHANE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
DIBROMOMETHANE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
DIBROMOMETHANE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
DIBROMOMETHANE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
DIBROMOMETHANE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
DIBROMOMETHANE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
DIBROMOMETHANE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
DIBROMOMETHANE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
DIBROMOMETHANE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
DIBROMOMETHANE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
DIBROMOMETHANE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
DIBROMOMETHANE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
DIBROMOMETHANE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
DIBROMOMETHANE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
DIBROMOMETHANE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
DICAMBA	MWL-BW1	SNL0201517	31-OCT-94	0.0005	U	0.0005	F
DICHLORODIFLUOROMETHANE	MWL-BW1	SNL0200002	27-SEP-90	0.02	U	0.02	F
DICHLORODIFLUOROMETHANE	MWL-BW1	SNL0200637	17-JUL-92	0.02	U	0.02	F
DICHLORODIFLUOROMETHANE	MWL-BW1-D	SNL0200009	27-SEP-90	0.02	U	0.02	F
DICHLORODIFLUOROMETHANE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.02	U	0.02	F
DICHLORODIFLUOROMETHANE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.02	U	0.02	F
DICHLORODIFLUOROMETHANE	MWL-MW1	SNL0200638	17-JUL-92	0.02	U	0.02	F
DICHLORODIFLUOROMETHANE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.02	U	0.02	F
DICHLORODIFLUOROMETHANE	MWL-MW2	SNL0200079	28-SEP-90	0.02	U	0.02	F
DICHLORODIFLUOROMETHANE	MWL-MW2	SNL0200639	17-JUL-92	0.02	U	0.02	F
DICHLORODIFLUOROMETHANE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.02	U	0.02	F
DICHLORODIFLUOROMETHANE	MWL-MW3	SNL0200054	28-SEP-90	0.02	U	0.02	F
DICHLORODIFLUOROMETHANE	MWL-MW3	SNL0200640	17-JUL-92	0.02	U	0.02	F
DICHLORODIFLUOROMETHANE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.02	U	0.02	F
DICHLORODIFLUOROMETHANE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.02	U	0.02	F
DICHLORODIFLUOROMETHANE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.02	U	0.02	F
DICHLORODIFLUOROMETHANE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
DICHLORODIFLUOROMETHANE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
DICHLORODIFLUOROMETHANE	MWL-TB	SNL0200636	18-JUL-92	0.02	U	0.02	TB
DIELDRIN	MWL-BW1	SNL0200006	27-SEP-90	0.0001	U	0.0001	F
DIELDRIN	MWL-BW1	SNL0200277	07-MAY-91	0.0001	U	0.0001	F
DIELDRIN	MWL-BW1	SNL0200420	06-AUG-91	0.0001	U	0.0001	F
DIELDRIN	MWL-BW1	SNL0200567	16-OCT-91	0.0001	U	0.0001	F
DIELDRIN	MWL-BW1	SNL0201514	31-OCT-94	0.0001	U	0.0001	F
DIELDRIN	MWL-BW1-D	SNL0200013	27-SEP-90	0.0001	U	0.0001	F
DIELDRIN	MWL-BW1-D	SNL0200281	07-MAY-91	0.0001	U	0.0001	F
DIELDRIN	MWL-BW1-D	SNL0200437	06-AUG-91	0.0001	U	0.0001	F
DIELDRIN	MWL-BW1-D	SNL0200585	16-OCT-91	0.0001	U	0.0001	F
DIELDRIN	MWL-BW1-EB	SNL0200495	09-OCT-91	0.0001	U	0.0001	F
DIELDRIN	MWL-BW1-FB	SNL0200603	16-OCT-91	0.0001	U	0.0001	F
DIELDRIN	MWL-MW1	SNL0200279	07-MAY-91	0.0001	U	0.0001	F
DIELDRIN	MWL-MW1	SNL0200352	31-JUL-91	0.0001	U	0.0001	F
DIELDRIN	MWL-MW1	SNL0200549	15-OCT-91	0.0001	U	0.0001	F
DIELDRIN	MWL-MW1-EB	SNL0200459	08-OCT-91	0.0001	U	0.0001	F
DIELDRIN	MWL-MW2	SNL0200083	28-SEP-90	0.0001	U	0.0001	F
DIELDRIN	MWL-MW2	SNL0200217	02-MAY-91	0.0001	U	0.0001	F
DIELDRIN	MWL-MW2	SNL0200369	01-AUG-91	0.0001	U	0.0001	F
DIELDRIN	MWL-MW2	SNL0200513	14-OCT-91	0.0001	U	0.0001	F
DIELDRIN	MWL-MW2-EB	SNL0200441	07-OCT-91	0.0001	U	0.0001	F
DIELDRIN	MWL-MW3	SNL0200058	28-SEP-90	0.0001	U	0.0001	F
DIELDRIN	MWL-MW3	SNL0200219	02-MAY-91	0.0001	U	0.0001	F
DIELDRIN	MWL-MW3	SNL0200403	05-AUG-91	0.0001	U	0.0001	F
DIELDRIN	MWL-MW3	SNL0200531	15-OCT-91	0.0001	U	0.0001	F
DIELDRIN	MWL-MW3-EB	SNL0200477	09-OCT-91	0.0001	U	0.0001	F
DIETHYL PHTHALATE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-BW1	026461-02	23-OCT-95	0.00142	U	0.00142	SA
DIETHYL PHTHALATE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
DIETHYL PHTHALATE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00040611	F
DIETHYL PHTHALATE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00040611	F
DIETHYL PHTHALATE	MWL-MW1	026464-02	20-OCT-95	0.00142	U	0.00142	SA
DIETHYL PHTHALATE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00040611	F
DIETHYL PHTHALATE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00040611	F
DIETHYL PHTHALATE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00040611	F
DIETHYL PHTHALATE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00040611	F
DIETHYL PHTHALATE	MWL-MW3	026458-02	16-OCT-95	0.00142	U	0.00142	SA
DIETHYL PHTHALATE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00040611	F
DIETHYL PHTHALATE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00040611	F
DIETHYL PHTHALATE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00040611	F
DIETHYL PHTHALATE	MWL-MW4	026465-02	20-OCT-95	0.00142	U	0.00142	SA
DIETHYL PHTHALATE	MWL-MW4	026466-02	20-OCT-95	0.00142	U	0.00142	DU
DIETHYL PHTHALATE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
DIETHYL PHTHALATE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
DIMETHOATE	MWL-BW1	SNL0200005	27-SEP-90	100000	U	100000	F
DIMETHOATE	MWL-BW1-D	SNL0200012	27-SEP-90	100000	U	100000	F
DIMETHOATE	MWL-MW2	SNL0200082	28-SEP-90	100000	U	100000	F
DIMETHOATE	MWL-MW3	SNL0200057	28-SEP-90	100000	U	100000	F
DIMETHYL PHTHALATE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
DIMETHYL PHTHALATE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00110657	F
DIMETHYL PHTHALATE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00110657	F
DIMETHYL PHTHALATE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
DIMETHYL PHTHALATE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00110657	F
DIMETHYL PHTHALATE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00110657	F
DIMETHYL PHTHALATE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
DIMETHYL PHTHALATE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00110657	F
DIMETHYL PHTHALATE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00110657	F
DIMETHYL PHTHALATE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
DIMETHYL PHTHALATE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00110657	F
DIMETHYL PHTHALATE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00110657	F
DIMETHYL PHTHALATE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00110657	F
DIMETHYL PHTHALATE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
DIMETHYL PHTHALATE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
DIMETHYL PHTHALATE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
DIMETHYL PHTHALATE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
DINOSEB	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
DINOSEB	MWL-BW1	SNL0201517	31-OCT-94	0.001	U	0.001	F
DINOSEB	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
DINOSEB	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
DINOSEB	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
DIPHENYLAMINE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
DIPHENYLAMINE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
DIPHENYLAMINE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
DIPHENYLAMINE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
DISULFOTON	MWL-BW1	SNL0200005	27-SEP-90	0.05	U	0.05	F
DISULFOTON	MWL-BW1-D	SNL0200012	27-SEP-90	0.05	U	0.05	F
DISULFOTON	MWL-MW2	SNL0200082	28-SEP-90	0.05	U	0.05	F
DISULFOTON	MWL-MW3	SNL0200057	28-SEP-90	0.05	U	0.05	F
ENDOSULFAN I	MWL-BW1	SNL0200006	27-SEP-90	0.00005	U	0.00005	F
ENDOSULFAN I	MWL-BW1	SNL0200277	07-MAY-91	0.00005	U	0.00005	F
ENDOSULFAN I	MWL-BW1	SNL0200420	06-AUG-91	0.00005	U	0.00005	F
ENDOSULFAN I	MWL-BW1	SNL0200567	16-OCT-91	0.00005	U	0.00005	F
ENDOSULFAN I	MWL-BW1	SNL0201514	31-OCT-94	0.00005	U	0.00005	F
ENDOSULFAN I	MWL-BW1-D	SNL0200013	27-SEP-90	0.00005	U	0.00005	F
ENDOSULFAN I	MWL-BW1-D	SNL0200281	07-MAY-91	0.00005	U	0.00005	F
ENDOSULFAN I	MWL-BW1-D	SNL0200437	06-AUG-91	0.00005	U	0.00005	F
ENDOSULFAN I	MWL-BW1-D	SNL0200585	16-OCT-91	0.00005	U	0.00005	F
ENDOSULFAN I	MWL-BW1-EB	SNL0200495	09-OCT-91	0.00005	U	0.00005	F
ENDOSULFAN I	MWL-BW1-FB	SNL0200603	16-OCT-91	0.00005	U	0.00005	F
ENDOSULFAN I	MWL-MW1	SNL0200279	07-MAY-91	0.00005	U	0.00005	F
ENDOSULFAN I	MWL-MW1	SNL0200352	31-JUL-91	0.00005	U	0.00005	F
ENDOSULFAN I	MWL-MW1	SNL0200549	15-OCT-91	0.00005	U	0.00005	F
ENDOSULFAN I	MWL-MW1-EB	SNL0200459	08-OCT-91	0.00005	U	0.00005	F
ENDOSULFAN I	MWL-MW2	SNL0200083	28-SEP-90	0.00005	U	0.00005	F
ENDOSULFAN I	MWL-MW2	SNL0200217	02-MAY-91	0.00005	U	0.00005	F
ENDOSULFAN I	MWL-MW2	SNL0200369	01-AUG-91	0.00005	U	0.00005	F
ENDOSULFAN I	MWL-MW2	SNL0200513	14-OCT-91	0.00005	U	0.00005	F
ENDOSULFAN I	MWL-MW2-EB	SNL0200441	07-OCT-91	0.00005	U	0.00005	F
ENDOSULFAN I	MWL-MW3	SNL0200058	28-SEP-90	0.00005	U	0.00005	F
ENDOSULFAN I	MWL-MW3	SNL0200219	02-MAY-91	0.00005	U	0.00005	F
ENDOSULFAN I	MWL-MW3	SNL0200403	05-AUG-91	0.00005	U	0.00005	F
ENDOSULFAN I	MWL-MW3	SNL0200531	15-OCT-91	0.00005	U	0.00005	F
ENDOSULFAN I	MWL-MW3-EB	SNL0200477	09-OCT-91	0.00005	U	0.00005	F
ENDOSULFAN II	MWL-BW1	SNL0200006	27-SEP-90	0.0001	U	0.0001	F
ENDOSULFAN II	MWL-BW1	SNL0200277	07-MAY-91	0.0001	U	0.0001	F
ENDOSULFAN II	MWL-BW1	SNL0200420	06-AUG-91	0.0001	U	0.0001	F
ENDOSULFAN II	MWL-BW1	SNL0200567	16-OCT-91	0.0001	U	0.0001	F
ENDOSULFAN II	MWL-BW1	SNL0201514	31-OCT-94	0.0001	U	0.0001	F
ENDOSULFAN II	MWL-BW1-D	SNL0200013	27-SEP-90	0.0001	U	0.0001	F
ENDOSULFAN II	MWL-BW1-D	SNL0200281	07-MAY-91	0.0001	U	0.0001	F
ENDOSULFAN II	MWL-BW1-D	SNL0200437	06-AUG-91	0.0001	U	0.0001	F
ENDOSULFAN II	MWL-BW1-D	SNL0200585	16-OCT-91	0.0001	U	0.0001	F
ENDOSULFAN II	MWL-BW1-EB	SNL0200495	09-OCT-91	0.0001	U	0.0001	F
ENDOSULFAN II	MWL-BW1-FB	SNL0200603	16-OCT-91	0.0001	U	0.0001	F
ENDOSULFAN II	MWL-MW1	SNL0200279	07-MAY-91	0.0001	U	0.0001	F
ENDOSULFAN II	MWL-MW1	SNL0200352	31-JUL-91	0.0001	U	0.0001	F
ENDOSULFAN II	MWL-MW1	SNL0200549	15-OCT-91	0.0001	U	0.0001	F
ENDOSULFAN II	MWL-MW1-EB	SNL0200459	08-OCT-91	0.0001	U	0.0001	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
ENDOSULFAN II	MWL-MW2	SNL0200083	28-SEP-90	0.0001	U	0.0001	F
ENDOSULFAN II	MWL-MW2	SNL0200217	02-MAY-91	0.0001	U	0.0001	F
ENDOSULFAN II	MWL-MW2	SNL0200369	01-AUG-91	0.0001	U	0.0001	F
ENDOSULFAN II	MWL-MW2	SNL0200513	14-OCT-91	0.0001	U	0.0001	F
ENDOSULFAN II	MWL-MW2-EB	SNL0200441	07-OCT-91	0.0001	U	0.0001	F
ENDOSULFAN II	MWL-MW3	SNL0200058	28-SEP-90	0.0001	U	0.0001	F
ENDOSULFAN II	MWL-MW3	SNL0200219	02-MAY-91	0.0001	U	0.0001	F
ENDOSULFAN II	MWL-MW3	SNL0200403	05-AUG-91	0.0001	U	0.0001	F
ENDOSULFAN II	MWL-MW3	SNL0200531	15-OCT-91	0.0001	U	0.0001	F
ENDOSULFAN II	MWL-MW3-EB	SNL0200477	09-OCT-91	0.0001	U	0.0001	F
ENDOSULFAN SULFATE	MWL-BW1	SNL0200006	27-SEP-90	0.0001	U	0.0001	F
ENDOSULFAN SULFATE	MWL-BW1	SNL0200277	07-MAY-91	0.0001	U	0.0001	F
ENDOSULFAN SULFATE	MWL-BW1	SNL0200420	06-AUG-91	0.0001	U	0.0001	F
ENDOSULFAN SULFATE	MWL-BW1	SNL0200567	16-OCT-91	0.0001	U	0.0001	F
ENDOSULFAN SULFATE	MWL-BW1	SNL0201514	31-OCT-94	0.0001	U	0.0001	F
ENDOSULFAN SULFATE	MWL-BW1-D	SNL0200013	27-SEP-90	0.0001	U	0.0001	F
ENDOSULFAN SULFATE	MWL-BW1-D	SNL0200281	07-MAY-91	0.0001	U	0.0001	F
ENDOSULFAN SULFATE	MWL-BW1-D	SNL0200437	06-AUG-91	0.0001	U	0.0001	F
ENDOSULFAN SULFATE	MWL-BW1-D	SNL0200585	16-OCT-91	0.0001	U	0.0001	F
ENDOSULFAN SULFATE	MWL-BW1-EB	SNL0200495	09-OCT-91	0.0001	U	0.0001	F
ENDOSULFAN SULFATE	MWL-BW1-FB	SNL0200603	16-OCT-91	0.0001	U	0.0001	F
ENDOSULFAN SULFATE	MWL-MW1	SNL0200279	07-MAY-91	0.0001	U	0.0001	F
ENDOSULFAN SULFATE	MWL-MW1	SNL0200352	31-JUL-91	0.0001	U	0.0001	F
ENDOSULFAN SULFATE	MWL-MW1	SNL0200549	15-OCT-91	0.0001	U	0.0001	F
ENDOSULFAN SULFATE	MWL-MW1-EB	SNL0200459	08-OCT-91	0.0001	U	0.0001	F
ENDOSULFAN SULFATE	MWL-MW2	SNL0200083	28-SEP-90	0.0001	U	0.0001	F
ENDOSULFAN SULFATE	MWL-MW2	SNL0200217	02-MAY-91	0.0001	U	0.0001	F
ENDOSULFAN SULFATE	MWL-MW2	SNL0200369	01-AUG-91	0.0001	U	0.0001	F
ENDOSULFAN SULFATE	MWL-MW2	SNL0200513	14-OCT-91	0.0001	U	0.0001	F
ENDOSULFAN SULFATE	MWL-MW2-EB	SNL0200441	07-OCT-91	0.0001	U	0.0001	F
ENDOSULFAN SULFATE	MWL-MW3	SNL0200058	28-SEP-90	0.0001	U	0.0001	F
ENDOSULFAN SULFATE	MWL-MW3	SNL0200219	02-MAY-91	0.0001	U	0.0001	F
ENDOSULFAN SULFATE	MWL-MW3	SNL0200403	05-AUG-91	0.0001	U	0.0001	F
ENDOSULFAN SULFATE	MWL-MW3	SNL0200531	15-OCT-91	0.0001	U	0.0001	F
ENDOSULFAN SULFATE	MWL-MW3-EB	SNL0200477	09-OCT-91	0.0001	U	0.0001	F
ENDRIN	MWL-BW1	SNL0200006	27-SEP-90	0.0001	U	0.0001	F
ENDRIN	MWL-BW1	SNL0200120	24-JAN-91	0.0001	U	0.0001	F
ENDRIN	MWL-BW1	SNL0200277	07-MAY-91	0.0001	U	0.0001	F
ENDRIN	MWL-BW1	SNL0200420	06-AUG-91	0.0001	U	0.0001	F
ENDRIN	MWL-BW1	SNL0200567	16-OCT-91	0.0001	U	0.0001	F
ENDRIN	MWL-BW1	SNL0201514	31-OCT-94	0.0001	U	0.0001	F
ENDRIN	MWL-BW1-D	SNL0200013	27-SEP-90	0.0001	U	0.0001	F
ENDRIN	MWL-BW1-D	SNL0200158	24-JAN-91	0.0001	U	0.0001	F
ENDRIN	MWL-BW1-D	SNL0200281	07-MAY-91	0.0001	U	0.0001	F
ENDRIN	MWL-BW1-D	SNL0200437	06-AUG-91	0.0001	U	0.0001	F
ENDRIN	MWL-BW1-D	SNL0200585	16-OCT-91	0.0001	U	0.0001	F
ENDRIN	MWL-BW1-EB	SNL0200495	09-OCT-91	0.0001	U	0.0001	F
ENDRIN	MWL-BW1-FB	SNL0200603	16-OCT-91	0.0001	U	0.0001	F
ENDRIN	MWL-MW1	SNL0200139	24-JAN-91	0.0001	U	0.0001	F
ENDRIN	MWL-MW1	SNL0200279	07-MAY-91	0.0001	U	0.0001	F
ENDRIN	MWL-MW1	SNL0200352	31-JUL-91	0.0001	U	0.0001	F
ENDRIN	MWL-MW1	SNL0200549	15-OCT-91	0.0001	U	0.0001	F
ENDRIN	MWL-MW1-EB	SNL0200459	08-OCT-91	0.0001	U	0.0001	F
ENDRIN	MWL-MW2	SNL0200083	28-SEP-90	0.0001	U	0.0001	F
ENDRIN	MWL-MW2	SNL0200177	28-JAN-91	0.0001	U	0.0001	F
ENDRIN	MWL-MW2	SNL0200217	02-MAY-91	0.0001	U	0.0001	F
ENDRIN	MWL-MW2	SNL0200369	01-AUG-91	0.0001	U	0.0001	F
ENDRIN	MWL-MW2	SNL0200513	14-OCT-91	0.0001	U	0.0001	F
ENDRIN	MWL-MW2-EB	SNL0200441	07-OCT-91	0.0001	U	0.0001	F
ENDRIN	MWL-MW3	SNL0200058	28-SEP-90	0.0001	U	0.0001	F
ENDRIN	MWL-MW3	SNL0200196	28-JAN-91	0.0001	U	0.0001	F
ENDRIN	MWL-MW3	SNL0200219	02-MAY-91	0.0001	U	0.0001	F
ENDRIN	MWL-MW3	SNL0200403	05-AUG-91	0.0001	U	0.0001	F
ENDRIN	MWL-MW3	SNL0200531	15-OCT-91	0.0001	U	0.0001	F
ENDRIN	MWL-MW3-EB	SNL0200477	09-OCT-91	0.0001	U	0.0001	F
ENDRIN ALDEHYDE	MWL-BW1	SNL0200006	27-SEP-90	0.0001	U	0.0001	F
ENDRIN ALDEHYDE	MWL-BW1-D	SNL0200013	27-SEP-90	0.0001	U	0.0001	F
ENDRIN ALDEHYDE	MWL-MW2	SNL0200083	28-SEP-90	0.0001	U	0.0001	F
ENDRIN ALDEHYDE	MWL-MW3	SNL0200058	28-SEP-90	0.0001	U	0.0001	F
ENDRIN KETONE	MWL-BW1	SNL0200277	07-MAY-91	0.0001	U	0.0001	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
ENDRIN KETONE	MWL-BW1	SNL0200420	06-AUG-91	0.0001	U	0.0001	F
ENDRIN KETONE	MWL-BW1	SNL0200567	16-OCT-91	0.0001	U	0.0001	F
ENDRIN KETONE	MWL-BW1	SNL0201514	31-OCT-94	0.0001	U	0.0001	F
ENDRIN KETONE	MWL-BW1-D	SNL0200281	07-MAY-91	0.0001	U	0.0001	F
ENDRIN KETONE	MWL-BW1-D	SNL0200437	06-AUG-91	0.0001	U	0.0001	F
ENDRIN KETONE	MWL-BW1-D	SNL0200585	16-OCT-91	0.0001	U	0.0001	F
ENDRIN KETONE	MWL-BW1-EB	SNL0200495	09-OCT-91	0.0001	U	0.0001	F
ENDRIN KETONE	MWL-BW1-FB	SNL0200603	16-OCT-91	0.0001	U	0.0001	F
ENDRIN KETONE	MWL-MW1	SNL0200279	07-MAY-91	0.0001	U	0.0001	F
ENDRIN KETONE	MWL-MW1	SNL0200352	31-JUL-91	0.0001	U	0.0001	F
ENDRIN KETONE	MWL-MW1	SNL0200549	15-OCT-91	0.0001	U	0.0001	F
ENDRIN KETONE	MWL-MW1-EB	SNL0200459	08-OCT-91	0.0001	U	0.0001	F
ENDRIN KETONE	MWL-MW2	SNL0200217	02-MAY-91	0.0001	U	0.0001	F
ENDRIN KETONE	MWL-MW2	SNL0200369	01-AUG-91	0.0001	U	0.0001	F
ENDRIN KETONE	MWL-MW2	SNL0200513	14-OCT-91	0.0001	U	0.0001	F
ENDRIN KETONE	MWL-MW2-EB	SNL0200441	07-OCT-91	0.0001	U	0.0001	F
ENDRIN KETONE	MWL-MW3	SNL0200219	02-MAY-91	0.0001	U	0.0001	F
ENDRIN KETONE	MWL-MW3	SNL0200403	05-AUG-91	0.0001	U	0.0001	F
ENDRIN KETONE	MWL-MW3	SNL0200531	15-OCT-91	0.0001	U	0.0001	F
ENDRIN KETONE	MWL-MW3-EB	SNL0200477	09-OCT-91	0.0001	U	0.0001	F
ETHANONE, 1-[4-(1-HYDROXY-1-METHYLETHYL)PHENYL]	MWL-MW4U	SNL0201537	31-MAY-94	0.0041	2	0.002	F
ETHANONE, 1-[4-(1-HYDROXY-1-METHYLETHYL)PHENYL]	MWL-MW4U	SNL0201537	31-MAY-94	0.0071	2	0.002	F
ETHYL CYANIDE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
ETHYL CYANIDE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
ETHYL CYANIDE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
ETHYL CYANIDE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
ETHYL CYANIDE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
ETHYL CYANIDE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
ETHYL CYANIDE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
ETHYL CYANIDE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
ETHYL CYANIDE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
ETHYL CYANIDE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
ETHYL CYANIDE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
ETHYL CYANIDE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
ETHYL CYANIDE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
ETHYL CYANIDE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
ETHYL CYANIDE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
ETHYL CYANIDE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
ETHYL METHACRYLATE	MWL-BW1	SNL0200002	27-SEP-90	0.02	U	0.02	F
ETHYL METHACRYLATE	MWL-BW1	SNL0200637	17-JUL-92	0.02	U	0.02	F
ETHYL METHACRYLATE	MWL-BW1-D	SNL0200009	27-SEP-90	0.02	U	0.02	F
ETHYL METHACRYLATE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.02	U	0.02	F
ETHYL METHACRYLATE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.02	U	0.02	F
ETHYL METHACRYLATE	MWL-MW1	SNL0200638	17-JUL-92	0.02	U	0.02	F
ETHYL METHACRYLATE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.02	U	0.02	F
ETHYL METHACRYLATE	MWL-MW2	SNL0200079	28-SEP-90	0.02	U	0.02	F
ETHYL METHACRYLATE	MWL-MW2	SNL0200639	17-JUL-92	0.02	U	0.02	F
ETHYL METHACRYLATE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.02	U	0.02	F
ETHYL METHACRYLATE	MWL-MW3	SNL0200054	28-SEP-90	0.02	U	0.02	F
ETHYL METHACRYLATE	MWL-MW3	SNL0200640	17-JUL-92	0.02	U	0.02	F
ETHYL METHACRYLATE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.02	U	0.02	F
ETHYL METHACRYLATE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.02	U	0.02	F
ETHYL METHACRYLATE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.02	U	0.02	F
ETHYL METHACRYLATE	MWL-TB	SNL0200636	18-JUL-92	0.02	U	0.02	TB
ETHYL METHANESULFONATE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
ETHYL METHANESULFONATE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
ETHYL METHANESULFONATE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
ETHYL METHANESULFONATE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
ETHYLBENZENE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
ETHYLBENZENE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
ETHYLBENZENE	MWL-BW1	SNL0200789	29-JUL-92	0.005	U	0.005	F
ETHYLBENZENE	MWL-BW1	SNL0201467	27-OCT-94	0.005	U	0.005	F
ETHYLBENZENE	MWL-BW1	SNL0201512	27-OCT-94	0.005	U	0.005	F
ETHYLBENZENE	MWL-BW1	SNL0201482	27-OCT-94	0.005	U	0.005	F
ETHYLBENZENE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
ETHYLBENZENE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
ETHYLBENZENE	MWL-BW1-D	SNL0200807	29-JUL-92	0.005	U	0.005	F
ETHYLBENZENE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
ETHYLBENZENE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.005	U	0.005	F
ETHYLBENZENE	MWL-BW1-EB	SNL0201253	27-APR-94	0.005	U	0.005	F
ETHYLBENZENE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.005	U	0.005	F
ETHYLBENZENE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
ETHYLBENZENE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.005	U	0.005	F
ETHYLBENZENE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.005	U	0.005	F
ETHYLBENZENE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.005	U	0.005	TB
ETHYLBENZENE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.005	U	0.005	TB
ETHYLBENZENE	MWL-BW1-TB	SNL0201268	27-APR-94	0.005	U	0.005	TB
ETHYLBENZENE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.005	U	0.005	TB
ETHYLBENZENE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW1	SNL0200751	28-JUL-92	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW1	SNL0201305	03-MAY-94	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW1	SNL0201421	25-OCT-94	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW1	SNL0201437	25-OCT-94	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00091	F
ETHYLBENZENE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00091	F
ETHYLBENZENE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
ETHYLBENZENE	MWL-MW1-D	SNL0201287	04-MAY-94	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW1-EB	SNL0201206	26-APR-94	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.005	U	0.005	TB
ETHYLBENZENE	MWL-MW1-TB	SNL0201221	26-APR-94	0.005	U	0.005	TB
ETHYLBENZENE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.005	U	0.005	TB
ETHYLBENZENE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.005	U	0.005	TB
ETHYLBENZENE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.005	U	0.005	TB
ETHYLBENZENE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW2	SNL0200732	27-JUL-92	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW2	SNL0201269	02-MAY-94	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW2	SNL0201389	24-OCT-94	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00091	F
ETHYLBENZENE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00091	F
ETHYLBENZENE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW2-EB	SNL0201222	27-APR-94	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.005	U	0.005	TB
ETHYLBENZENE	MWL-MW2-TB	SNL0201237	27-APR-94	0.005	U	0.005	TB
ETHYLBENZENE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.005	U	0.005	TB
ETHYLBENZENE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.005	U	0.005	TB
ETHYLBENZENE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW3	SNL0200769	28-JUL-92	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW3	SNL0201323	03-MAY-94	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW3	SNL0201405	25-OCT-94	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00091	F
ETHYLBENZENE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00091	F
ETHYLBENZENE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
ETHYLBENZENE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
ETHYLBENZENE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW3-EB	SNL0201238	27-APR-94	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.005	U	0.005	TB
ETHYLBENZENE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.005	U	0.005	TB
ETHYLBENZENE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.005	U	0.005	TB
ETHYLBENZENE	MWL-MW4	022154-01	19-APR-95	0.001	U	0.001	SA
ETHYLBENZENE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00091	F
ETHYLBENZENE	MWL-MW4	022151-01	19-APR-95	0.005	U	0.00091	F
ETHYLBENZENE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00091	F
ETHYLBENZENE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
ETHYLBENZENE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
ETHYLBENZENE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.005	U	0.005	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
ETHYLBENZENE	MWL-MW4-TB	SNL0200919	21-APR-93	0.005	U	0.005	TB
ETHYLBENZENE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.005	U	0.005	TB
ETHYLBENZENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
ETHYLBENZENE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.005	U	0.005	TB
ETHYLBENZENE	MWL-MW4C	SNL0201160	11-NOV-93	0.005	U	0.005	F
ETHYLBENZENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
ETHYLBENZENE	MWL-MW4U	SNL0201497	28-OCT-94	0.005	U	0.005	F
ETHYLBENZENE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
ETHYLCYCLOPENTANE	MWL-MW1	SNL0201526	25-OCT-94	0.0043	1	0.001	F
ETHYLCYCLOPENTANE	MWL-MW3	SNL0201524	25-OCT-94	0.0046	1	0.001	F
FAMPHUR	MWL-BW1	SNL0200005	27-SEP-90	100000	U	100000	F
FAMPHUR	MWL-BW1-D	SNL0200012	27-SEP-90	100000	U	100000	F
FAMPHUR	MWL-MW2	SNL0200082	28-SEP-90	100000	U	100000	F
FAMPHUR	MWL-MW3	SNL0200057	28-SEP-90	100000	U	100000	F
FLUORANTHENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
FLUORANTHENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
FLUORANTHENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
FLUORANTHENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
FLUORANTHENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
FLUORANTHENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
FLUORANTHENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
FLUORANTHENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
FLUORANTHENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
FLUORANTHENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
FLUORANTHENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
FLUORANTHENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
FLUORANTHENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
FLUORANTHENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
FLUORANTHENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
FLUORANTHENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.000785	F
FLUORANTHENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.000785	F
FLUORANTHENE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
FLUORANTHENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
FLUORANTHENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
FLUORANTHENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
FLUORANTHENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
FLUORANTHENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
FLUORANTHENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
FLUORANTHENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
FLUORANTHENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.000785	F
FLUORANTHENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.000785	F
FLUORANTHENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
FLUORANTHENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
FLUORANTHENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
FLUORANTHENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
FLUORANTHENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
FLUORANTHENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
FLUORANTHENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
FLUORANTHENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.000785	F
FLUORANTHENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.000785	F
FLUORANTHENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
FLUORANTHENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
FLUORANTHENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
FLUORANTHENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
FLUORANTHENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.000785	F
FLUORANTHENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.000785	F
FLUORANTHENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.000785	F
FLUORANTHENE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
FLUORANTHENE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
FLUORANTHENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
FLUORANTHENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
FLUORENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
FLUORENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
FLUORENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
FLUORENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
FLUORENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
FLUORENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
FLUORENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
FLUORENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
FLUORENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
FLUORENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
FLUORENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
FLUORENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
FLUORENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
FLUORENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
FLUORENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
FLUORENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00079002	F
FLUORENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00079002	F
FLUORENE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
FLUORENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
FLUORENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
FLUORENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
FLUORENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
FLUORENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
FLUORENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
FLUORENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
FLUORENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00079002	F
FLUORENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00079002	F
FLUORENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
FLUORENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
FLUORENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
FLUORENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
FLUORENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
FLUORENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
FLUORENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
FLUORENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00079002	F
FLUORENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00079002	F
FLUORENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
FLUORENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
FLUORENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
FLUORENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
FLUORENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00079002	F
FLUORENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00079002	F
FLUORENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00079002	F
FLUORENE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
FLUORENE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
FLUORENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
FLUORENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
GAMMA-CHLORDANE	MWL-BW1	SNL0200006	27-SEP-90	0.00005	U	0.00005	F
GAMMA-CHLORDANE	MWL-BW1	SNL0200277	07-MAY-91	0.00005	U	0.00005	F
GAMMA-CHLORDANE	MWL-BW1	SNL0200420	06-AUG-91	0.00005	U	0.00005	F
GAMMA-CHLORDANE	MWL-BW1	SNL0200567	16-OCT-91	0.00005	U	0.00005	F
GAMMA-CHLORDANE	MWL-BW1	SNL0201514	31-OCT-94	0.00005	U	0.00005	F
GAMMA-CHLORDANE	MWL-BW1-D	SNL0200013	27-SEP-90	0.00005	U	0.00005	F
GAMMA-CHLORDANE	MWL-BW1-D	SNL0200281	07-MAY-91	0.00005	U	0.00005	F
GAMMA-CHLORDANE	MWL-BW1-D	SNL0200437	06-AUG-91	0.00005	U	0.00005	F
GAMMA-CHLORDANE	MWL-BW1-D	SNL0200585	16-OCT-91	0.00005	U	0.00005	F
GAMMA-CHLORDANE	MWL-BW1-EB	SNL0200495	09-OCT-91	0.00005	U	0.00005	F
GAMMA-CHLORDANE	MWL-BW1-FB	SNL0200603	16-OCT-91	0.00005	U	0.00005	F
GAMMA-CHLORDANE	MWL-MW1	SNL0200279	07-MAY-91	0.00005	U	0.00005	F
GAMMA-CHLORDANE	MWL-MW1	SNL0200352	31-JUL-91	0.00005	U	0.00005	F
GAMMA-CHLORDANE	MWL-MW1	SNL0200549	15-OCT-91	0.00005	U	0.00005	F
GAMMA-CHLORDANE	MWL-MW1-EB	SNL0200459	08-OCT-91	0.00005	U	0.00005	F
GAMMA-CHLORDANE	MWL-MW2	SNL0200083	28-SEP-90	0.00005	U	0.00005	F
GAMMA-CHLORDANE	MWL-MW2	SNL0200217	02-MAY-91	0.00005	U	0.00005	F
GAMMA-CHLORDANE	MWL-MW2	SNL0200369	01-AUG-91	0.00005	U	0.00005	F
GAMMA-CHLORDANE	MWL-MW2	SNL0200513	14-OCT-91	0.00005	U	0.00005	F
GAMMA-CHLORDANE	MWL-MW2-EB	SNL0200441	07-OCT-91	0.00005	U	0.00005	F
GAMMA-CHLORDANE	MWL-MW3	SNL0200058	28-SEP-90	0.00005	U	0.00005	F
GAMMA-CHLORDANE	MWL-MW3	SNL0200219	02-MAY-91	0.00005	U	0.00005	F
GAMMA-CHLORDANE	MWL-MW3	SNL0200403	05-AUG-91	0.00005	U	0.00005	F
GAMMA-CHLORDANE	MWL-MW3	SNL0200531	15-OCT-91	0.00005	U	0.00005	F
GAMMA-CHLORDANE	MWL-MW3-EB	SNL0200477	09-OCT-91	0.00005	U	0.00005	F
HEPTACHLOR	MWL-BW1	SNL0200006	27-SEP-90	0.00005	U	0.00005	F
HEPTACHLOR	MWL-BW1	SNL0200277	07-MAY-91	0.00005	U	0.00005	F
HEPTACHLOR	MWL-BW1	SNL0200420	06-AUG-91	0.00005	U	0.00005	F
HEPTACHLOR	MWL-BW1	SNL0200567	16-OCT-91	0.00005	U	0.00005	F
HEPTACHLOR	MWL-BW1	SNL0201514	31-OCT-94	0.00005	U	0.00005	F
HEPTACHLOR	MWL-BW1-D	SNL0200013	27-SEP-90	0.00005	U	0.00005	F
HEPTACHLOR	MWL-BW1-D	SNL0200281	07-MAY-91	0.00005	U	0.00005	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
HEPTACHLOR	MWL-BW1-D	SNL0200437	06-AUG-91	0.00005	U	0.00005	F
HEPTACHLOR	MWL-BW1-D	SNL0200585	16-OCT-91	0.00005	U	0.00005	F
HEPTACHLOR	MWL-BW1-EB	SNL0200495	09-OCT-91	0.00005	U	0.00005	F
HEPTACHLOR	MWL-BW1-FB	SNL0200603	16-OCT-91	0.00005	U	0.00005	F
HEPTACHLOR	MWL-MW1	SNL0200279	07-MAY-91	0.00005	U	0.00005	F
HEPTACHLOR	MWL-MW1	SNL0200352	31-JUL-91	0.00005	U	0.00005	F
HEPTACHLOR	MWL-MW1	SNL0200549	15-OCT-91	0.00005	U	0.00005	F
HEPTACHLOR	MWL-MW1-EB	SNL0200459	08-OCT-91	0.00005	U	0.00005	F
HEPTACHLOR	MWL-MW2	SNL0200083	28-SEP-90	0.00005	U	0.00005	F
HEPTACHLOR	MWL-MW2	SNL0200217	02-MAY-91	0.00005	U	0.00005	F
HEPTACHLOR	MWL-MW2	SNL0200369	01-AUG-91	0.00005	U	0.00005	F
HEPTACHLOR	MWL-MW2	SNL0200513	14-OCT-91	0.00005	U	0.00005	F
HEPTACHLOR	MWL-MW2-EB	SNL0200441	07-OCT-91	0.00005	U	0.00005	F
HEPTACHLOR	MWL-MW3	SNL0200058	28-SEP-90	0.00005	U	0.00005	F
HEPTACHLOR	MWL-MW3	SNL0200219	02-MAY-91	0.00005	U	0.00005	F
HEPTACHLOR	MWL-MW3	SNL0200403	05-AUG-91	0.00005	U	0.00005	F
HEPTACHLOR	MWL-MW3	SNL0200531	15-OCT-91	0.00005	U	0.00005	F
HEPTACHLOR	MWL-MW3-EB	SNL0200477	09-OCT-91	0.00005	U	0.00005	F
HEPTACHLOR EPOXIDE	MWL-BW1	SNL0200006	27-SEP-90	0.00005	U	0.00005	F
HEPTACHLOR EPOXIDE	MWL-BW1	SNL0200277	07-MAY-91	0.00005	U	0.00005	F
HEPTACHLOR EPOXIDE	MWL-BW1	SNL0200420	06-AUG-91	0.00005	U	0.00005	F
HEPTACHLOR EPOXIDE	MWL-BW1	SNL0200567	16-OCT-91	0.00005	U	0.00005	F
HEPTACHLOR EPOXIDE	MWL-BW1	SNL0201514	31-OCT-94	0.00005	U	0.00005	F
HEPTACHLOR EPOXIDE	MWL-BW1-D	SNL0200013	27-SEP-90	0.00005	U	0.00005	F
HEPTACHLOR EPOXIDE	MWL-BW1-D	SNL0200281	07-MAY-91	0.00005	U	0.00005	F
HEPTACHLOR EPOXIDE	MWL-BW1-D	SNL0200437	06-AUG-91	0.00005	U	0.00005	F
HEPTACHLOR EPOXIDE	MWL-BW1-D	SNL0200585	16-OCT-91	0.00005	U	0.00005	F
HEPTACHLOR EPOXIDE	MWL-BW1-EB	SNL0200495	09-OCT-91	0.00005	U	0.00005	F
HEPTACHLOR EPOXIDE	MWL-BW1-FB	SNL0200603	16-OCT-91	0.00005	U	0.00005	F
HEPTACHLOR EPOXIDE	MWL-MW1	SNL0200279	07-MAY-91	0.00005	U	0.00005	F
HEPTACHLOR EPOXIDE	MWL-MW1	SNL0200352	31-JUL-91	0.00005	U	0.00005	F
HEPTACHLOR EPOXIDE	MWL-MW1	SNL0200549	15-OCT-91	0.00005	U	0.00005	F
HEPTACHLOR EPOXIDE	MWL-MW1-EB	SNL0200459	08-OCT-91	0.00005	U	0.00005	F
HEPTACHLOR EPOXIDE	MWL-MW2	SNL0200083	28-SEP-90	0.00005	U	0.00005	F
HEPTACHLOR EPOXIDE	MWL-MW2	SNL0200217	02-MAY-91	0.00005	U	0.00005	F
HEPTACHLOR EPOXIDE	MWL-MW2	SNL0200369	01-AUG-91	0.00005	U	0.00005	F
HEPTACHLOR EPOXIDE	MWL-MW2	SNL0200513	14-OCT-91	0.00005	U	0.00005	F
HEPTACHLOR EPOXIDE	MWL-MW2-EB	SNL0200441	07-OCT-91	0.00005	U	0.00005	F
HEPTACHLOR EPOXIDE	MWL-MW3	SNL0200058	28-SEP-90	0.00005	U	0.00005	F
HEPTACHLOR EPOXIDE	MWL-MW3	SNL0200219	02-MAY-91	0.00005	U	0.00005	F
HEPTACHLOR EPOXIDE	MWL-MW3	SNL0200403	05-AUG-91	0.00005	U	0.00005	F
HEPTACHLOR EPOXIDE	MWL-MW3	SNL0200531	15-OCT-91	0.00005	U	0.00005	F
HEPTACHLOR EPOXIDE	MWL-MW3-EB	SNL0200477	09-OCT-91	0.00005	U	0.00005	F
HEXACHLOROBENZENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
HEXACHLOROBENZENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00074881	F
HEXACHLOROBENZENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00074881	F
HEXACHLOROBENZENE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
HEXACHLOROBENZENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00074881	F
HEXACHLOROBENZENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00074881	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
HEXACHLOROBENZENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00074881	F
HEXACHLOROBENZENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00074881	F
HEXACHLOROBENZENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
HEXACHLOROBENZENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00074881	F
HEXACHLOROBENZENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00074881	F
HEXACHLOROBENZENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00074881	F
HEXACHLOROBENZENE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
HEXACHLOROBENZENE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
HEXACHLOROBENZENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
HEXACHLOROBENZENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
HEXACHLOROBUTADIENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00118739	F
HEXACHLOROBUTADIENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00118739	F
HEXACHLOROBUTADIENE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
HEXACHLOROBUTADIENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00118739	F
HEXACHLOROBUTADIENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00118739	F
HEXACHLOROBUTADIENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00118739	F
HEXACHLOROBUTADIENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00118739	F
HEXACHLOROBUTADIENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
HEXACHLOROBUTADIENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00118739	F
HEXACHLOROBUTADIENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00118739	F
HEXACHLOROBUTADIENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00118739	F
HEXACHLOROBUTADIENE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
HEXACHLOROBUTADIENE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
HEXACHLOROBUTADIENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
HEXACHLOROBUTADIENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
HEXACHLOROBUTADIENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
HEXACHLOROBUTADIENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
HEXACHLOROCYCLOPENTADIENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
HEXACHLOROCYCLOPENTADIENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00324	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00324	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
HEXACHLOROCYCLOPENTADIENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00324	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00324	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00324	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00324	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
HEXACHLOROCYCLOPENTADIENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00324	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00324	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00324	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
HEXACHLOROCYCLOPENTADIENE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
HEXACHLOROCYCLOPENTADIENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
HEXACHLOROCYCLOPENTADIENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
HEXACHLOROETHANE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00148466	F
HEXACHLOROETHANE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00148466	F
HEXACHLOROETHANE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
HEXACHLOROETHANE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
HEXACHLOROETHANE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00148466	F
HEXACHLOROETHANE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00148466	F
HEXACHLOROETHANE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00148466	F
HEXACHLOROETHANE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00148466	F
HEXACHLOROETHANE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
HEXACHLOROETHANE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00148466	F
HEXACHLOROETHANE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00148466	F
HEXACHLOROETHANE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00148466	F
HEXACHLOROETHANE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
HEXACHLOROETHANE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
HEXACHLOROETHANE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
HEXACHLOROETHANE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
HEXACHLOROPHENE	MWL-BW1	SNL0200005	27-SEP-90	100000	U	100000	F
HEXACHLOROPHENE	MWL-BW1-D	SNL0200012	27-SEP-90	100000	U	100000	F
HEXACHLOROPHENE	MWL-MW2	SNL0200082	28-SEP-90	100000	U	100000	F
HEXACHLOROPHENE	MWL-MW3	SNL0200057	28-SEP-90	100000	U	100000	F
HEXACHLOROPROPENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
HEXACHLOROPROPENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
HEXACHLOROPROPENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
HEXACHLOROPROPENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
INDENO(1,2,3-CD)PYRENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00066362	F
INDENO(1,2,3-CD)PYRENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00066362	F
INDENO(1,2,3-CD)PYRENE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
INDENO(1,2,3-CD)PYRENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00066362	F
INDENO(1,2,3-CD)PYRENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00066362	F
INDENO(1,2,3-CD)PYRENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00066362	F
INDENO(1,2,3-CD)PYRENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00066362	F
INDENO(1,2,3-CD)PYRENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
INDENO(1,2,3-CD)PYRENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
INDENO(1,2,3-CD)PYRENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00066362	F
INDENO(1,2,3-CD)PYRENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00066362	F
INDENO(1,2,3-CD)PYRENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00066362	F
INDENO(1,2,3-CD)PYRENE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
INDENO(1,2,3-CD)PYRENE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
INDENO(1,2,3-CD)PYRENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
INDENO(1,2,3-CD)PYRENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
IODOMETHANE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
IODOMETHANE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
IODOMETHANE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
IODOMETHANE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
IODOMETHANE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
IODOMETHANE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
IODOMETHANE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
IODOMETHANE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
IODOMETHANE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
IODOMETHANE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
IODOMETHANE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
IODOMETHANE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
IODOMETHANE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
IODOMETHANE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
IODOMETHANE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
IODOMETHANE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
ISOBUTANOL	MWL-BW1	SNL0200002	27-SEP-90	0.2	U	0.2	F
ISOBUTANOL	MWL-BW1	SNL0200637	17-JUL-92	0.2	U	0.2	F
ISOBUTANOL	MWL-BW1-D	SNL0200009	27-SEP-90	0.2	U	0.2	F
ISOBUTANOL	MWL-BW1-EB	SNL0200631	17-JUL-92	0.2	U	0.2	F
ISOBUTANOL	MWL-BW1-FB	SNL0200001	27-SEP-90	0.2	U	0.2	F
ISOBUTANOL	MWL-MW1	SNL0200638	17-JUL-92	0.2	U	0.2	F
ISOBUTANOL	MWL-MW1-EB	SNL0200632	17-JUL-92	0.2	U	0.2	F
ISOBUTANOL	MWL-MW2	SNL0200079	28-SEP-90	0.2	U	0.2	F
ISOBUTANOL	MWL-MW2	SNL0200639	17-JUL-92	0.2	U	0.2	F
ISOBUTANOL	MWL-MW2-EB	SNL0200633	17-JUL-92	0.2	U	0.2	F
ISOBUTANOL	MWL-MW3	SNL0200054	28-SEP-90	0.2	U	0.2	F
ISOBUTANOL	MWL-MW3	SNL0200640	17-JUL-92	0.2	U	0.2	F
ISOBUTANOL	MWL-MW3-EB	SNL0200634	17-JUL-92	0.2	U	0.2	F
ISOBUTANOL	MWL-MW3-FB	SNL0200052	28-SEP-90	0.2	U	0.2	F
ISOBUTANOL	MWL-MW3-TB	SNL0200053	28-SEP-90	0.2	U	0.2	F
ISOBUTANOL	MWL-TB	SNL0200636	18-JUL-92	0.2	U	0.2	TB
ISODRIN	MWL-BW1	SNL0200006	27-SEP-90	0.0001	U	0.0001	F
ISODRIN	MWL-BW1-D	SNL0200013	27-SEP-90	0.0001	U	0.0001	F
ISODRIN	MWL-MW2	SNL0200083	28-SEP-90	0.0001	U	0.0001	F
ISODRIN	MWL-MW3	SNL0200058	28-SEP-90	0.0001	U	0.0001	F
ISOPHORONE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
ISOPHORONE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
ISOPHORONE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
ISOPHORONE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
ISOPHORONE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
ISOPHORONE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
ISOPHORONE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
ISOPHORONE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
ISOPHORONE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
ISOPHORONE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
ISOPHORONE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
ISOPHORONE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
ISOPHORONE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
ISOPHORONE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
ISOPHORONE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
ISOPHORONE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00116908	F
ISOPHORONE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00116908	F
ISOPHORONE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
ISOPHORONE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
ISOPHORONE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
ISOPHORONE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
ISOPHORONE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
ISOPHORONE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
ISOPHORONE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
ISOPHORONE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
ISOPHORONE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00116908	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
ISOPHORONE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00116908	F
ISOPHORONE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
ISOPHORONE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
ISOPHORONE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
ISOPHORONE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
ISOPHORONE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
ISOPHORONE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
ISOPHORONE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
ISOPHORONE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00116908	F
ISOPHORONE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00116908	F
ISOPHORONE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
ISOPHORONE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
ISOPHORONE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
ISOPHORONE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
ISOPHORONE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00116908	F
ISOPHORONE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00116908	F
ISOPHORONE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00116908	F
ISOPHORONE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
ISOPHORONE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
ISOPHORONE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
ISOPHORONE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
ISOPROPYLBENZENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
ISOPROPYLBENZENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
ISOSAFROLE	MWL-BW1	SNL0200005	27-SEP-90	0.02	U	0.02	F
ISOSAFROLE	MWL-BW1-D	SNL0200012	27-SEP-90	0.02	U	0.02	F
ISOSAFROLE	MWL-MW2	SNL0200082	28-SEP-90	0.02	U	0.02	F
ISOSAFROLE	MWL-MW3	SNL0200057	28-SEP-90	0.02	U	0.02	F
KEPONE	MWL-BW1	SNL0200006	27-SEP-90	0.001	U	0.001	F
KEPONE	MWL-BW1-D	SNL0200013	27-SEP-90	0.001	U	0.001	F
KEPONE	MWL-MW2	SNL0200083	28-SEP-90	0.001	U	0.001	F
KEPONE	MWL-MW3	SNL0200058	28-SEP-90	0.001	U	0.001	F
LINDANE	MWL-BW1	SNL0200006	27-SEP-90	0.00005	U	0.00005	F
LINDANE	MWL-BW1	SNL0200120	24-JAN-91	0.0004	U	0.0004	F
LINDANE	MWL-BW1	SNL0200277	07-MAY-91	0.00005	U	0.00005	F
LINDANE	MWL-BW1	SNL0200420	06-AUG-91	0.00005	U	0.00005	F
LINDANE	MWL-BW1	SNL0200567	16-OCT-91	0.00005	U	0.00005	F
LINDANE	MWL-BW1	SNL0201514	31-OCT-94	0.00005	U	0.00005	F
LINDANE	MWL-BW1-D	SNL0200013	27-SEP-90	0.00005	U	0.00005	F
LINDANE	MWL-BW1-D	SNL0200158	24-JAN-91	0.0004	U	0.0004	F
LINDANE	MWL-BW1-D	SNL0200281	07-MAY-91	0.00005	U	0.00005	F
LINDANE	MWL-BW1-D	SNL0200437	06-AUG-91	0.00005	U	0.00005	F
LINDANE	MWL-BW1-D	SNL0200585	16-OCT-91	0.00005	U	0.00005	F
LINDANE	MWL-BW1-EB	SNL0200495	09-OCT-91	0.00005	U	0.00005	F
LINDANE	MWL-BW1-FB	SNL0200603	16-OCT-91	0.00005	U	0.00005	F
LINDANE	MWL-MW1	SNL0200139	24-JAN-91	0.0004	U	0.0004	F
LINDANE	MWL-MW1	SNL0200279	07-MAY-91	0.00005	U	0.00005	F
LINDANE	MWL-MW1	SNL0200352	31-JUL-91	0.00005	U	0.00005	F
LINDANE	MWL-MW1	SNL0200549	15-OCT-91	0.00005	U	0.00005	F
LINDANE	MWL-MW1-EB	SNL0200459	08-OCT-91	0.00005	U	0.00005	F
LINDANE	MWL-MW2	SNL0200083	28-SEP-90	0.00005	U	0.00005	F
LINDANE	MWL-MW2	SNL0200177	28-JAN-91	0.0004	U	0.0004	F
LINDANE	MWL-MW2	SNL0200217	02-MAY-91	0.00005	U	0.00005	F
LINDANE	MWL-MW2	SNL0200369	01-AUG-91	0.00005	U	0.00005	F
LINDANE	MWL-MW2	SNL0200513	14-OCT-91	0.00005	U	0.00005	F
LINDANE	MWL-MW2-EB	SNL0200441	07-OCT-91	0.00005	U	0.00005	F
LINDANE	MWL-MW3	SNL0200058	28-SEP-90	0.00005	U	0.00005	F
LINDANE	MWL-MW3	SNL0200196	28-JAN-91	0.0004	U	0.0004	F
LINDANE	MWL-MW3	SNL0200219	02-MAY-91	0.00005	U	0.00005	F
LINDANE	MWL-MW3	SNL0200403	05-AUG-91	0.00005	U	0.00005	F
LINDANE	MWL-MW3	SNL0200531	15-OCT-91	0.00005	U	0.00005	F
LINDANE	MWL-MW3-EB	SNL0200477	09-OCT-91	0.00005	U	0.00005	F
M,P-CRESOL	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
M,P-CRESOL	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
M,P-CRESOL	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
M,P-CRESOL	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
M,P-CRESOL	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
METHACRYLONITRILE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
METHACRYLONITRILE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
METHACRYLONITRILE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
METHACRYLONITRILE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
METHACRYLONITRILE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
METHACRYLONITRILE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
METHACRYLONITRILE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
METHACRYLONITRILE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
METHACRYLONITRILE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
METHACRYLONITRILE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
METHACRYLONITRILE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
METHACRYLONITRILE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
METHACRYLONITRILE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
METHACRYLONITRILE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
METHACRYLONITRILE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
METHACRYLONITRILE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
METHAPYRILENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
METHAPYRILENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
METHAPYRILENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
METHAPYRILENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
METHOXYCHLOR	MWL-BW1	SNL0200006	27-SEP-90	0.0005	U	0.0005	F
METHOXYCHLOR	MWL-BW1	SNL0200120	24-JAN-91	0.01	U	0.01	F
METHOXYCHLOR	MWL-BW1	SNL0200277	07-MAY-91	0.0005	U	0.0005	F
METHOXYCHLOR	MWL-BW1	SNL0200420	06-AUG-91	0.0005	U	0.0005	F
METHOXYCHLOR	MWL-BW1	SNL0200567	16-OCT-91	0.0005	U	0.0005	F
METHOXYCHLOR	MWL-BW1	SNL0201514	31-OCT-94	0.0005	U	0.0005	F
METHOXYCHLOR	MWL-BW1-D	SNL0200013	27-SEP-90	0.0005	U	0.0005	F
METHOXYCHLOR	MWL-BW1-D	SNL0200158	24-JAN-91	0.01	U	0.01	F
METHOXYCHLOR	MWL-BW1-D	SNL0200281	07-MAY-91	0.0005	U	0.0005	F
METHOXYCHLOR	MWL-BW1-D	SNL0200437	06-AUG-91	0.0005	U	0.0005	F
METHOXYCHLOR	MWL-BW1-D	SNL0200585	16-OCT-91	0.0005	U	0.0005	F
METHOXYCHLOR	MWL-BW1-EB	SNL0200495	09-OCT-91	0.0005	U	0.0005	F
METHOXYCHLOR	MWL-BW1-FB	SNL0200603	16-OCT-91	0.0005	U	0.0005	F
METHOXYCHLOR	MWL-MW1	SNL0200139	24-JAN-91	0.01	U	0.01	F
METHOXYCHLOR	MWL-MW1	SNL0200279	07-MAY-91	0.0005	U	0.0005	F
METHOXYCHLOR	MWL-MW1	SNL0200352	31-JUL-91	0.0005	U	0.0005	F
METHOXYCHLOR	MWL-MW1	SNL0200549	15-OCT-91	0.0005	U	0.0005	F
METHOXYCHLOR	MWL-MW1-EB	SNL0200459	08-OCT-91	0.0005	U	0.0005	F
METHOXYCHLOR	MWL-MW2	SNL0200083	28-SEP-90	0.0005	U	0.0005	F
METHOXYCHLOR	MWL-MW2	SNL0200177	28-JAN-91	0.01	U	0.01	F
METHOXYCHLOR	MWL-MW2	SNL0200217	02-MAY-91	0.0005	U	0.0005	F
METHOXYCHLOR	MWL-MW2	SNL0200369	01-AUG-91	0.0005	U	0.0005	F
METHOXYCHLOR	MWL-MW2	SNL0200513	14-OCT-91	0.0005	U	0.0005	F
METHOXYCHLOR	MWL-MW2-EB	SNL0200441	07-OCT-91	0.0005	U	0.0005	F
METHOXYCHLOR	MWL-MW3	SNL0200058	28-SEP-90	0.0005	U	0.0005	F
METHOXYCHLOR	MWL-MW3	SNL0200196	28-JAN-91	0.01	U	0.01	F
METHOXYCHLOR	MWL-MW3	SNL0200219	02-MAY-91	0.0005	U	0.0005	F
METHOXYCHLOR	MWL-MW3	SNL0200403	05-AUG-91	0.0005	U	0.0005	F
METHOXYCHLOR	MWL-MW3	SNL0200531	15-OCT-91	0.0005	U	0.0005	F
METHOXYCHLOR	MWL-MW3-EB	SNL0200477	09-OCT-91	0.0005	U	0.0005	F
METHYL METHACRYLATE	MWL-BW1	SNL0200002	27-SEP-90	0.02	U	0.02	F
METHYL METHACRYLATE	MWL-BW1	SNL0200637	17-JUL-92	0.02	U	0.02	F
METHYL METHACRYLATE	MWL-BW1-D	SNL0200009	27-SEP-90	0.02	U	0.02	F
METHYL METHACRYLATE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.02	U	0.02	F
METHYL METHACRYLATE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.02	U	0.02	F
METHYL METHACRYLATE	MWL-MW1	SNL0200638	17-JUL-92	0.02	U	0.02	F
METHYL METHACRYLATE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.02	U	0.02	F
METHYL METHACRYLATE	MWL-MW2	SNL0200079	28-SEP-90	0.02	U	0.02	F
METHYL METHACRYLATE	MWL-MW2	SNL0200639	17-JUL-92	0.02	U	0.02	F
METHYL METHACRYLATE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.02	U	0.02	F
METHYL METHACRYLATE	MWL-MW3	SNL0200054	28-SEP-90	0.02	U	0.02	F
METHYL METHACRYLATE	MWL-MW3	SNL0200640	17-JUL-92	0.02	U	0.02	F
METHYL METHACRYLATE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.02	U	0.02	F
METHYL METHACRYLATE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.02	U	0.02	F
METHYL METHACRYLATE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.02	U	0.02	F
METHYL METHACRYLATE	MWL-TB	SNL0200636	18-JUL-92	0.02	U	0.02	TB
METHYL METHANESULFONATE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
METHYL METHANESULFONATE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
METHYL METHANESULFONATE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
METHYL METHANESULFONATE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
METHYL PARATHION	MWL-BW1	SNL0200005	27-SEP-90	0.05	U	0.05	F
METHYL PARATHION	MWL-BW1-D	SNL0200012	27-SEP-90	0.05	U	0.05	F
METHYL PARATHION	MWL-MW2	SNL0200082	28-SEP-90	0.05	U	0.05	F
METHYL PARATHION	MWL-MW3	SNL0200057	28-SEP-90	0.05	U	0.05	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
METHYLENE CHLORIDE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-BW1	SNL0200789	29-JUL-92	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-BW1	SNL0201467	27-OCT-94	0.0018	J	0.005	F
METHYLENE CHLORIDE	MWL-BW1	SNL0201482	27-OCT-94	0.002	J	0.005	F
METHYLENE CHLORIDE	MWL-BW1	SNL0201512	27-OCT-94	0.0017	J	0.005	F
METHYLENE CHLORIDE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
METHYLENE CHLORIDE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-BW1-D	SNL0200807	29-JUL-92	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-BW1-EB	SNL0201253	27-APR-94	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.0022	J	0.005	F
METHYLENE CHLORIDE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.005	U	0.005	TB
METHYLENE CHLORIDE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.005	U	0.005	TB
METHYLENE CHLORIDE	MWL-BW1-TB	SNL0201268	27-APR-94	0.005	U	0.005	TB
METHYLENE CHLORIDE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.0022	J	0.005	TB
METHYLENE CHLORIDE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW1	SNL0200751	28-JUL-92	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW1	SNL0201305	03-MAY-94	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW1	SNL0201421	25-OCT-94	0.002	JB	0.005	F
METHYLENE CHLORIDE	MWL-MW1	SNL0201437	25-OCT-94	0.0024	JB	0.005	F
METHYLENE CHLORIDE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00104	F
METHYLENE CHLORIDE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00104	F
METHYLENE CHLORIDE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
METHYLENE CHLORIDE	MWL-MW1-D	SNL0201287	04-MAY-94	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW1-EB	SNL0201206	26-APR-94	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.005	U	0.005	TB
METHYLENE CHLORIDE	MWL-MW1-TB	SNL0201221	26-APR-94	0.005	U	0.005	TB
METHYLENE CHLORIDE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.005	U	0.005	TB
METHYLENE CHLORIDE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.005	U	0.005	TB
METHYLENE CHLORIDE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.0025	JB	0.005	TB
METHYLENE CHLORIDE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW2	SNL0200732	27-JUL-92	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW2	SNL0201269	02-MAY-94	0.0017	JB	0.005	F
METHYLENE CHLORIDE	MWL-MW2	SNL0201389	24-OCT-94	0.0013	J	0.005	F
METHYLENE CHLORIDE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00104	F
METHYLENE CHLORIDE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00104	F
METHYLENE CHLORIDE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW2-EB	SNL0201222	27-APR-94	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.0025	JB	0.005	F
METHYLENE CHLORIDE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.005	U	0.005	TB
METHYLENE CHLORIDE	MWL-MW2-TB	SNL0201237	27-APR-94	0.005	U	0.005	TB
METHYLENE CHLORIDE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.0014	JB	0.005	TB
METHYLENE CHLORIDE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.0027	JB	0.005	TB
METHYLENE CHLORIDE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW3	SNL0200769	28-JUL-92	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW3	SNL0201323	03-MAY-94	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW3	SNL0201405	25-OCT-94	0.0022	JB	0.005	F
METHYLENE CHLORIDE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00104	F
METHYLENE CHLORIDE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00104	F
METHYLENE CHLORIDE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
METHYLENE CHLORIDE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
METHYLENE CHLORIDE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW3-EB	SNL0201238	27-APR-94	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.0014	J	0.005	F
METHYLENE CHLORIDE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.005	U	0.005	TB

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
METHYLENE CHLORIDE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.005	U	0.005	TB
METHYLENE CHLORIDE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.0022	JB	0.005	TB
METHYLENE CHLORIDE	MWL-MW4	022154-01	19-APR-95	0.001	U	0.001	SA
METHYLENE CHLORIDE	MWL-MW4	022150-01	19-APR-95	0.0011	J	0.00104	F
METHYLENE CHLORIDE	MWL-MW4	022151-01	19-APR-95	0.001	J	0.00104	F
METHYLENE CHLORIDE	MWL-MW4	022150-01	19-APR-95	0.0011	J	0.00104	F
METHYLENE CHLORIDE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
METHYLENE CHLORIDE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
METHYLENE CHLORIDE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW4-TB	SNL0200919	21-APR-93	0.005	U	0.005	TB
METHYLENE CHLORIDE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.0017	J	0.005	TB
METHYLENE CHLORIDE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.00061	JB	0.001	TB
METHYLENE CHLORIDE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.0023	JB	0.005	TB
METHYLENE CHLORIDE	MWL-MW4C	SNL0201160	11-NOV-93	0.005	U	0.005	F
METHYLENE CHLORIDE	MWL-MW4U	SNL0201340	31-MAY-94	0.00032	JB	0.001	F
METHYLENE CHLORIDE	MWL-MW4U	SNL0201497	28-OCT-94	0.0033	JB	0.005	F
METHYLENE CHLORIDE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
N-NITROSO-DI-N-BUTYLAMINE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
N-NITROSO-DI-N-BUTYLAMINE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
N-NITROSO-DI-N-BUTYLAMINE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
N-NITROSO-DI-N-BUTYLAMINE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
N-NITROSODI-N-PROPYLAMINE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00111003	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW1	022149-02	19-APR-95	0.026		0.00111003	SD
N-NITROSODI-N-PROPYLAMINE	MWL-MW1	022149-02	19-APR-95	0.026		0.00111003	SD
N-NITROSODI-N-PROPYLAMINE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00111003	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00111003	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00111003	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00111003	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00111003	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
N-NITROSODI-N-PROPYLAMINE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00111003	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00111003	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00111003	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
N-NITROSODI-N-PROPYLAMINE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
N-NITROSODIETHYLAMINE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
N-NITROSODIETHYLAMINE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
N-NITROSODIETHYLAMINE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
N-NITROSODIETHYLAMINE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
N-NITROSODIMETHYLAMINE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
N-NITROSODIMETHYLAMINE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
N-NITROSODIMETHYLAMINE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
N-NITROSODIMETHYLAMINE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
N-NITROSODIPHENYLAMINE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00119866	F
N-NITROSODIPHENYLAMINE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00119866	F
N-NITROSODIPHENYLAMINE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
N-NITROSODIPHENYLAMINE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00119866	F
N-NITROSODIPHENYLAMINE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00119866	F
N-NITROSODIPHENYLAMINE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00119866	F
N-NITROSODIPHENYLAMINE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00119866	F
N-NITROSODIPHENYLAMINE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
N-NITROSODIPHENYLAMINE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00119866	F
N-NITROSODIPHENYLAMINE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00119866	F
N-NITROSODIPHENYLAMINE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00119866	F
N-NITROSODIPHENYLAMINE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
N-NITROSODIPHENYLAMINE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
N-NITROSODIPHENYLAMINE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
N-NITROSODIPHENYLAMINE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
N-NITROSOMETHYLETHYLAMINE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
N-NITROSOMETHYLETHYLAMINE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
N-NITROSOMETHYLETHYLAMINE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
N-NITROSOMETHYLETHYLAMINE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
N-NITROSOMORPHOLINE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
N-NITROSOMORPHOLINE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
N-NITROSOMORPHOLINE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
N-NITROSOMORPHOLINE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
N-NITROSOPIPERIDINE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
N-NITROSOPIPERIDINE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
N-NITROSOPIPERIDINE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
N-NITROSOPIPERIDINE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
N-NITROSOPYRROLIDINE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
N-NITROSOPYRROLIDINE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
N-NITROSOPYRROLIDINE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
N-NITROSOPYRROLIDINE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
NAPHTHALENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
NAPHTHALENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
NAPHTHALENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
NAPHTHALENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
NAPHTHALENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
NAPHTHALENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
NAPHTHALENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
NAPHTHALENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
NAPHTHALENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
NAPHTHALENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
NAPHTHALENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
NAPHTHALENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
NAPHTHALENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
NAPHTHALENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
NAPHTHALENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
NAPHTHALENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00122021	F
NAPHTHALENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00122021	F
NAPHTHALENE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
NAPHTHALENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
NAPHTHALENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
NAPHTHALENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
NAPHTHALENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
NAPHTHALENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
NAPHTHALENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
NAPHTHALENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
NAPHTHALENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00122021	F
NAPHTHALENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00122021	F
NAPHTHALENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
NAPHTHALENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
NAPHTHALENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
NAPHTHALENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
NAPHTHALENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
NAPHTHALENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
NAPHTHALENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
NAPHTHALENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00122021	F
NAPHTHALENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00122021	F
NAPHTHALENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
NAPHTHALENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
NAPHTHALENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
NAPHTHALENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
NAPHTHALENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00122021	F
NAPHTHALENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00122021	F
NAPHTHALENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00122021	F
NAPHTHALENE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
NAPHTHALENE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
NAPHTHALENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
NAPHTHALENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
NAPHTHALENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
NAPHTHALENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
NITROBENZENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
NITROBENZENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
NITROBENZENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
NITROBENZENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
NITROBENZENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
NITROBENZENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
NITROBENZENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
NITROBENZENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
NITROBENZENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
NITROBENZENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
NITROBENZENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
NITROBENZENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
NITROBENZENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
NITROBENZENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
NITROBENZENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
NITROBENZENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00118131	F
NITROBENZENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00118131	F
NITROBENZENE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
NITROBENZENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
NITROBENZENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
NITROBENZENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
NITROBENZENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
NITROBENZENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
NITROBENZENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
NITROBENZENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
NITROBENZENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00118131	F
NITROBENZENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00118131	F
NITROBENZENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
NITROBENZENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
NITROBENZENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
NITROBENZENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
NITROBENZENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
NITROBENZENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
NITROBENZENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
NITROBENZENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00118131	F
NITROBENZENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00118131	F
NITROBENZENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
NITROBENZENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
NITROBENZENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
NITROBENZENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
NITROBENZENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00118131	F
NITROBENZENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00118131	F
NITROBENZENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00118131	F
NITROBENZENE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
NITROBENZENE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
NITROBENZENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
NITROBENZENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
O-TOLUIDINE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
O-TOLUIDINE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
O-TOLUIDINE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
O-TOLUIDINE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
OOO-TRIETHYLPHOSPHOROTHIOATE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
OOO-TRIETHYLPHOSPHOROTHIOATE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
OOO-TRIETHYLPHOSPHOROTHIOATE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
OOO-TRIETHYLPHOSPHOROTHIOATE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
OXYGENATED HYDROCARBON	MWL-MW1	SNL0201526	25-OCT-94	0.0045		100000	F
OXYGENATED HYDROCARBON	MWL-MW1	SNL0201526	25-OCT-94	0.0098		100000	F
OXYGENATED HYDROCARBON	MWL-MW1	SNL0201526	25-OCT-94	0.06		100000	F
OXYGENATED HYDROCARBON	MWL-MW1	SNL0201526	25-OCT-94	0.019		100000	F
OXYGENATED HYDROCARBON	MWL-MW1-D	SNL0201539	04-MAY-94	0.0053		100000	F
OXYGENATED HYDROCARBON	MWL-MW2	SNL0201522	24-OCT-94	0.0046		100000	F
OXYGENATED HYDROCARBON	MWL-MW3	SNL0201541	03-MAY-94	0.01		100000	F
P-DIMETHYLAMINOAZOBENZENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
P-DIMETHYLAMINOAZOBENZENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
P-DIMETHYLAMINOAZOBENZENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
P-DIMETHYLAMINOAZOBENZENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
P-ISOPROPYLTOLUENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
P-ISOPROPYLTOLUENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
P-PHENYLENEDIAMINE	MWL-BW1	SNL0200005	27-SEP-90	100000	U	100000	F
P-PHENYLENEDIAMINE	MWL-BW1-D	SNL0200012	27-SEP-90	100000	U	100000	F
P-PHENYLENEDIAMINE	MWL-MW2	SNL0200082	28-SEP-90	100000	U	100000	F
P-PHENYLENEDIAMINE	MWL-MW3	SNL0200057	28-SEP-90	100000	U	100000	F
PARATHION	MWL-BW1	SNL0200005	27-SEP-90	0.05	U	0.05	F
PARATHION	MWL-BW1-D	SNL0200012	27-SEP-90	0.05	U	0.05	F
PARATHION	MWL-MW2	SNL0200082	28-SEP-90	0.05	U	0.05	F
PARATHION	MWL-MW3	SNL0200057	28-SEP-90	0.05	U	0.05	F
PENTACHLOROBENZENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
PENTACHLOROBENZENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
PENTACHLOROBENZENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
PENTACHLOROBENZENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
PENTACHLOROETHANE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
PENTACHLOROETHANE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
PENTACHLOROETHANE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
PENTACHLOROETHANE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
PENTACHLORONITROBENZENE	MWL-BW1	SNL0200005	27-SEP-90	0.05	U	0.05	F
PENTACHLORONITROBENZENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.05	U	0.05	F
PENTACHLORONITROBENZENE	MWL-MW2	SNL0200082	28-SEP-90	0.05	U	0.05	F
PENTACHLORONITROBENZENE	MWL-MW3	SNL0200057	28-SEP-90	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-BW1	SNL0200005	27-SEP-90	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-BW1	SNL0200790	29-JUL-92	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-BW1	SNL0201468	27-OCT-94	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-BW1	SNL0201483	27-OCT-94	0.05	U	0.05	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
PENTACHLOROPHENOL	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
PENTACHLOROPHENOL	MWL-BW1-D	SNL0200012	27-SEP-90	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-BW1-D	SNL0200808	29-JUL-92	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-BW1-EB	SNL0200714	23-JUL-92	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-BW1-EB	SNL0201255	27-APR-94	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-BW1-EB	SNL0201453	26-OCT-94	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-BW1-FB	SNL0200827	29-JUL-92	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-MW1	SNL0200752	28-JUL-92	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-MW1	SNL0201307	03-MAY-94	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-MW1	SNL0201422	25-OCT-94	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-MW1	SNL0201438	25-OCT-94	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-MW1	022149-02	19-APR-95	0.05	U	0.00129752	F
PENTACHLOROPHENOL	MWL-MW1	022149-02	19-APR-95	0.05	U	0.00129752	F
PENTACHLOROPHENOL	MWL-MW1	022149-02	19-APR-95	0.073		0.00129752	SD
PENTACHLOROPHENOL	MWL-MW1	022149-02	19-APR-95	0.073		0.00129752	SD
PENTACHLOROPHENOL	MWL-MW1-D	SNL0201289	04-MAY-94	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-MW1-EB	SNL0200677	22-JUL-92	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-MW1-EB	SNL0201208	26-APR-94	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-MW2	SNL0200082	28-SEP-90	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-MW2	SNL0200733	27-JUL-92	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-MW2	SNL0201271	02-MAY-94	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-MW2	SNL0201390	24-OCT-94	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-MW2	022145-02	17-APR-95	0.05	U	0.00129752	F
PENTACHLOROPHENOL	MWL-MW2	022145-02	17-APR-95	0.05	U	0.00129752	F
PENTACHLOROPHENOL	MWL-MW2-EB	SNL0200695	22-JUL-92	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-MW2-EB	SNL0201224	27-APR-94	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-MW2-EB	SNL0201374	19-OCT-94	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-MW3	SNL0200057	28-SEP-90	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-MW3	SNL0200770	28-JUL-92	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-MW3	SNL0201325	03-MAY-94	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-MW3	SNL0201406	25-OCT-94	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-MW3	022147-02	17-APR-95	0.05	U	0.00129752	F
PENTACHLOROPHENOL	MWL-MW3	022147-02	17-APR-95	0.05	U	0.00129752	F
PENTACHLOROPHENOL	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
PENTACHLOROPHENOL	MWL-MW3-EB	SNL0200658	21-JUL-92	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-MW3-EB	SNL0201240	27-APR-94	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-MW3-EB	SNL0201358	17-OCT-94	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-MW4	022150-02	19-APR-95	0.05	U	0.00129752	F
PENTACHLOROPHENOL	MWL-MW4	022151-02	19-APR-95	0.05	U	0.00129752	F
PENTACHLOROPHENOL	MWL-MW4	022150-02	19-APR-95	0.05	U	0.00129752	F
PENTACHLOROPHENOL	MWL-MW4U	SNL0201342	31-MAY-94	0.05	U	0.05	F
PENTACHLOROPHENOL	MWL-MW4U	SNL0201498	28-OCT-94	0.05	U	0.05	F
PHENACETIN	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
PHENACETIN	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
PHENACETIN	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
PHENACETIN	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
PHENANTHRENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
PHENANTHRENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
PHENANTHRENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
PHENANTHRENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
PHENANTHRENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
PHENANTHRENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
PHENANTHRENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
PHENANTHRENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
PHENANTHRENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
PHENANTHRENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
PHENANTHRENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
PHENANTHRENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
PHENANTHRENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
PHENANTHRENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
PHENANTHRENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
PHENANTHRENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00068108	F
PHENANTHRENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00068108	F
PHENANTHRENE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
PHENANTHRENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
PHENANTHRENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
PHENANTHRENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
PHENANTHRENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
PHENANTHRENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
PHENANTHRENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
PHENANTHRENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
PHENANTHRENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00068108	F
PHENANTHRENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00068108	F
PHENANTHRENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
PHENANTHRENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
PHENANTHRENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
PHENANTHRENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
PHENANTHRENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
PHENANTHRENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
PHENANTHRENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
PHENANTHRENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00068108	F
PHENANTHRENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00068108	F
PHENANTHRENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
PHENANTHRENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
PHENANTHRENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01.	F
PHENANTHRENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
PHENANTHRENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00068108	F
PHENANTHRENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00068108	F
PHENANTHRENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00068108	F
PHENANTHRENE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
PHENANTHRENE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
PHENANTHRENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
PHENANTHRENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
PHENOL	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
PHENOL	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
PHENOL	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
PHENOL	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
PHENOL	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
PHENOL	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
PHENOL	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
PHENOL	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
PHENOL	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
PHENOL	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
PHENOL	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
PHENOL	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
PHENOL	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
PHENOL	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
PHENOL	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
PHENOL	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00112037	F
PHENOL	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00112037	F
PHENOL	MWL-MW1	022149-02	19-APR-95	0.047		0.00112037	SD
PHENOL	MWL-MW1	022149-02	19-APR-95	0.047		0.00112037	SD
PHENOL	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
PHENOL	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
PHENOL	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
PHENOL	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
PHENOL	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
PHENOL	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
PHENOL	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
PHENOL	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
PHENOL	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00112037	F
PHENOL	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00112037	F
PHENOL	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
PHENOL	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
PHENOL	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
PHENOL	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
PHENOL	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
PHENOL	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
PHENOL	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
PHENOL	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00112037	F
PHENOL	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00112037	F
PHENOL	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
PHENOL	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
PHENOL	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
PHENOL	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
PHENOL	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00112037	F
PHENOL	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00112037	F
PHENOL	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00112037	F
PHENOL	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
PHENOL	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
PHENOL	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
PHENOL	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
PHENOLS (PIP)	MWL-BW1	026461-04	23-OCT-95	0.00195	U	0.00195	SA
PHENOLS (PIP)	MWL-MW1	026464-04	20-OCT-95	0.00195	U	0.00195	SA
PHENOLS (PIP)	MWL-MW3	026458-04	16-OCT-95	0.00195	U	0.00195	SA
PHENOLS (PIP)	MWL-MW4	026465-04	20-OCT-95	0.00195	U	0.00195	SA
PHENOLS (PIP)	MWL-MW4	026466-04	20-OCT-95	0.00195	U	0.00195	DU
PHORATE	MWL-BW1	SNL0200005	27-SEP-90	0.1	U	0.1	F
PHORATE	MWL-BW1-D	SNL0200012	27-SEP-90	0.1	U	0.1	F
PHORATE	MWL-MW2	SNL0200082	28-SEP-90	0.1	U	0.1	F
PHORATE	MWL-MW3	SNL0200057	28-SEP-90	0.1	U	0.1	F
PRONAMIDE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
PRONAMIDE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
PRONAMIDE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
PRONAMIDE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
PROPANIC ACID	MWL-BW1	SNL0201517	31-OCT-94	0.25	U	0.25	F
PROPANOIC ACID	MWL-BW1	SNL0201517	31-OCT-94	0.001	U	0.001	F
PROPYLBENZENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
PROPYLBENZENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
PYRENE	MWL-BW1	SNL0200005	27-SEP-90	0.01	U	0.01	F
PYRENE	MWL-BW1	SNL0200790	29-JUL-92	0.01	U	0.01	F
PYRENE	MWL-BW1	SNL0201468	27-OCT-94	0.01	U	0.01	F
PYRENE	MWL-BW1	SNL0201483	27-OCT-94	0.01	U	0.01	F
PYRENE	MWL-BW1	026461-02	23-OCT-95	0.005	U	0.005	SA
PYRENE	MWL-BW1-D	SNL0200012	27-SEP-90	0.01	U	0.01	F
PYRENE	MWL-BW1-D	SNL0200808	29-JUL-92	0.01	U	0.01	F
PYRENE	MWL-BW1-EB	SNL0200714	23-JUL-92	0.01	U	0.01	F
PYRENE	MWL-BW1-EB	SNL0201255	27-APR-94	0.01	U	0.01	F
PYRENE	MWL-BW1-EB	SNL0201453	26-OCT-94	0.01	U	0.01	F
PYRENE	MWL-BW1-FB	SNL0200827	29-JUL-92	0.01	U	0.01	F
PYRENE	MWL-MW1	SNL0200752	28-JUL-92	0.01	U	0.01	F
PYRENE	MWL-MW1	SNL0201307	03-MAY-94	0.01	U	0.01	F
PYRENE	MWL-MW1	SNL0201422	25-OCT-94	0.01	U	0.01	F
PYRENE	MWL-MW1	SNL0201438	25-OCT-94	0.01	U	0.01	F
PYRENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00074762	F
PYRENE	MWL-MW1	022149-02	19-APR-95	0.043		0.00074762	SD
PYRENE	MWL-MW1	022149-02	19-APR-95	0.043		0.00074762	SD
PYRENE	MWL-MW1	022149-02	19-APR-95	0.01	U	0.00074762	F
PYRENE	MWL-MW1	026464-02	20-OCT-95	0.005	U	0.005	SA
PYRENE	MWL-MW1-D	SNL0201289	04-MAY-94	0.01	U	0.01	F
PYRENE	MWL-MW1-EB	SNL0200677	22-JUL-92	0.01	U	0.01	F
PYRENE	MWL-MW1-EB	SNL0201208	26-APR-94	0.01	U	0.01	F
PYRENE	MWL-MW2	SNL0200082	28-SEP-90	0.01	U	0.01	F
PYRENE	MWL-MW2	SNL0200733	27-JUL-92	0.01	U	0.01	F
PYRENE	MWL-MW2	SNL0201271	02-MAY-94	0.01	U	0.01	F
PYRENE	MWL-MW2	SNL0201390	24-OCT-94	0.01	U	0.01	F
PYRENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00074762	F
PYRENE	MWL-MW2	022145-02	17-APR-95	0.01	U	0.00074762	F
PYRENE	MWL-MW2-EB	SNL0200695	22-JUL-92	0.01	U	0.01	F
PYRENE	MWL-MW2-EB	SNL0201224	27-APR-94	0.01	U	0.01	F
PYRENE	MWL-MW2-EB	SNL0201374	19-OCT-94	0.01	U	0.01	F
PYRENE	MWL-MW3	SNL0200057	28-SEP-90	0.01	U	0.01	F
PYRENE	MWL-MW3	SNL0200770	28-JUL-92	0.01	U	0.01	F
PYRENE	MWL-MW3	SNL0201325	03-MAY-94	0.01	U	0.01	F
PYRENE	MWL-MW3	SNL0201406	25-OCT-94	0.01	U	0.01	F
PYRENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00074762	F
PYRENE	MWL-MW3	022147-02	17-APR-95	0.01	U	0.00074762	F
PYRENE	MWL-MW3	026458-02	16-OCT-95	0.005	U	0.005	SA
PYRENE	MWL-MW3-EB	SNL0200658	21-JUL-92	0.01	U	0.01	F
PYRENE	MWL-MW3-EB	SNL0201240	27-APR-94	0.01	U	0.01	F
PYRENE	MWL-MW3-EB	SNL0201358	17-OCT-94	0.01	U	0.01	F
PYRENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00074762	F
PYRENE	MWL-MW4	022151-02	19-APR-95	0.01	U	0.00074762	F
PYRENE	MWL-MW4	022150-02	19-APR-95	0.01	U	0.00074762	F
PYRENE	MWL-MW4	026465-02	20-OCT-95	0.005	U	0.005	SA
PYRENE	MWL-MW4	026466-02	20-OCT-95	0.005	U	0.005	DU
PYRENE	MWL-MW4U	SNL0201342	31-MAY-94	0.01	U	0.01	F
PYRENE	MWL-MW4U	SNL0201498	28-OCT-94	0.01	U	0.01	F
PYRIDINE	MWL-BW1	SNL0200005	27-SEP-90	0.02	U	0.02	F
PYRIDINE	MWL-BW1-D	SNL0200012	27-SEP-90	0.02	U	0.02	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
PYRIDINE	MWL-MW2	SNL0200082	28-SEP-90	0.02	U	0.02	F
PYRIDINE	MWL-MW3	SNL0200057	28-SEP-90	0.02	U	0.02	F
SATURATED HYDROCARBON: C10-C20	MWL-MW1-D	SNL0201538	04-MAY-94	0.015		100000	F
SATURATED HYDROCARBON: C10-C20	MWL-MW3	SNL0201541	03-MAY-94	0.0052		100000	F
SATURATED HYDROCARBON: C10-C20	MWL-MW3	SNL0201541	03-MAY-94	0.017		100000	F
SATURATED HYDROCARBON: C10-C20	MWL-MW3	SNL0201541	03-MAY-94	0.025		100000	F
SATURATED HYDROCARBON: C10-C20	MWL-MW3	SNL0201541	03-MAY-94	0.029		100000	F
SEC-BUTYLBENZENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
SEC-BUTYLBENZENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
SILOXANE	MWL-MW2	SNL0201521	24-OCT-94	0.012		100000	F
SILOXANE	MWL-MW3-EB	SNL0201535	17-OCT-94	0.0052		100000	F
SILVEX	MWL-BW1	SNL0200007	27-SEP-90	0.00017	U	0.00017	F
SILVEX	MWL-BW1	SNL0200122	24-JAN-91	0.0017	U	0.0017	F
SILVEX	MWL-BW1	SNL0200278	07-MAY-91	0.0017	U	0.0017	F
SILVEX	MWL-BW1	SNL0200421	06-AUG-91	0.0017	U	0.0017	F
SILVEX	MWL-BW1	SNL0200568	16-OCT-91	0.0017	U	0.0017	F
SILVEX	MWL-BW1	SNL0201517	31-OCT-94	0.0005	U	0.0005	F
SILVEX	MWL-BW1-D	SNL0200014	27-SEP-90	0.00017	U	0.00017	F
SILVEX	MWL-BW1-D	SNL0200160	24-JAN-91	0.0017	U	0.0017	F
SILVEX	MWL-BW1-D	SNL0200282	07-MAY-91	0.0017	U	0.0017	F
SILVEX	MWL-BW1-D	SNL0200438	06-AUG-91	0.0017	U	0.0017	F
SILVEX	MWL-BW1-D	SNL0200586	16-OCT-91	0.0017	U	0.0017	F
SILVEX	MWL-BW1-EB	SNL0200496	09-OCT-91	0.0017	U	0.0017	F
SILVEX	MWL-BW1-FB	SNL0200604	16-OCT-91	0.0017	U	0.0017	F
SILVEX	MWL-MW1	SNL0200141	24-JAN-91	0.0017	U	0.0017	F
SILVEX	MWL-MW1	SNL0200280	07-MAY-91	0.0017	U	0.0017	F
SILVEX	MWL-MW1	SNL0200353	31-JUL-91	0.0017	U	0.0017	F
SILVEX	MWL-MW1	SNL0200550	15-OCT-91	0.0017	U	0.0017	F
SILVEX	MWL-MW1-EB	SNL0200460	08-OCT-91	0.0017	U	0.0017	F
SILVEX	MWL-MW2	SNL0200084	28-SEP-90	0.00017	U	0.00017	F
SILVEX	MWL-MW2	SNL0200179	28-JAN-91	0.0017	U	0.0017	F
SILVEX	MWL-MW2	SNL0200218	02-MAY-91	0.0017	U	0.0017	F
SILVEX	MWL-MW2	SNL0200370	01-AUG-91	0.0017	U	0.0017	F
SILVEX	MWL-MW2	SNL0200514	14-OCT-91	0.0017	U	0.0017	F
SILVEX	MWL-MW2-EB	SNL0200442	07-OCT-91	0.0017	U	0.0017	F
SILVEX	MWL-MW3	SNL0200059	28-SEP-90	0.00017	U	0.00017	F
SILVEX	MWL-MW3	SNL0200198	28-JAN-91	0.0017	U	0.0017	F
SILVEX	MWL-MW3	SNL0200220	02-MAY-91	0.0017	U	0.0017	F
SILVEX	MWL-MW3	SNL0200404	05-AUG-91	0.0017	U	0.0017	F
SILVEX	MWL-MW3	SNL0200532	15-OCT-91	0.0017	U	0.0017	F
SILVEX	MWL-MW3-EB	SNL0200478	09-OCT-91	0.0017	U	0.0017	F
STYRENE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
STYRENE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
STYRENE	MWL-BW1	SNL0200789	29-JUL-92	0.005	U	0.005	F
STYRENE	MWL-BW1	SNL0201467	27-OCT-94	0.005	U	0.005	F
STYRENE	MWL-BW1	SNL0201482	27-OCT-94	0.005	U	0.005	F
STYRENE	MWL-BW1	SNL0201512	27-OCT-94	0.005	U	0.005	F
STYRENE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
STYRENE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
STYRENE	MWL-BW1-D	SNL0200807	29-JUL-92	0.005	U	0.005	F
STYRENE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
STYRENE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.005	U	0.005	F
STYRENE	MWL-BW1-EB	SNL0201253	27-APR-94	0.005	U	0.005	F
STYRENE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.005	U	0.005	F
STYRENE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
STYRENE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.005	U	0.005	F
STYRENE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.005	U	0.005	F
STYRENE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.005	U	0.005	TB
STYRENE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.005	U	0.005	TB
STYRENE	MWL-BW1-TB	SNL0201268	27-APR-94	0.005	U	0.005	TB
STYRENE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.005	U	0.005	TB
STYRENE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
STYRENE	MWL-MW1	SNL0200751	28-JUL-92	0.005	U	0.005	F
STYRENE	MWL-MW1	SNL0201305	03-MAY-94	0.005	U	0.005	F
STYRENE	MWL-MW1	SNL0201421	25-OCT-94	0.005	U	0.005	F
STYRENE	MWL-MW1	SNL0201437	25-OCT-94	0.005	U	0.005	F
STYRENE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00085	F
STYRENE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00085	F
STYRENE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
STYRENE	MWL-MW1-D	SNL0201287	04-MAY-94	0.005	U	0.005	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
STYRENE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
STYRENE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.005	U	0.005	F
STYRENE	MWL-MW1-EB	SNL0201206	26-APR-94	0.005	U	0.005	F
STYRENE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.005	U	0.005	F
STYRENE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.005	U	0.005	TB
STYRENE	MWL-MW1-TB	SNL0201221	26-APR-94	0.005	U	0.005	TB
STYRENE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.005	U	0.005	TB
STYRENE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.005	U	0.005	TB
STYRENE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.005	U	0.005	TB
STYRENE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
STYRENE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
STYRENE	MWL-MW2	SNL0200732	27-JUL-92	0.005	U	0.005	F
STYRENE	MWL-MW2	SNL0201269	02-MAY-94	0.005	U	0.005	F
STYRENE	MWL-MW2	SNL0201389	24-OCT-94	0.005	U	0.005	F
STYRENE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00085	F
STYRENE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00085	F
STYRENE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
STYRENE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.005	U	0.005	F
STYRENE	MWL-MW2-EB	SNL0201222	27-APR-94	0.005	U	0.005	F
STYRENE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.005	U	0.005	F
STYRENE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.005	U	0.005	TB
STYRENE	MWL-MW2-TB	SNL0201237	27-APR-94	0.005	U	0.005	TB
STYRENE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.005	U	0.005	TB
STYRENE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.005	U	0.005	TB
STYRENE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.005	U	0.005	F
STYRENE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
STYRENE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
STYRENE	MWL-MW3	SNL0200769	28-JUL-92	0.005	U	0.005	F
STYRENE	MWL-MW3	SNL0201323	03-MAY-94	0.005	U	0.005	F
STYRENE	MWL-MW3	SNL0201405	25-OCT-94	0.005	U	0.005	F
STYRENE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00085	F
STYRENE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00085	F
STYRENE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
STYRENE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
STYRENE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
STYRENE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.005	U	0.005	F
STYRENE	MWL-MW3-EB	SNL0201238	27-APR-94	0.005	U	0.005	F
STYRENE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.005	U	0.005	F
STYRENE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
STYRENE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
STYRENE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.005	U	0.005	TB
STYRENE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.005	U	0.005	TB
STYRENE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.005	U	0.005	F
STYRENE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.005	U	0.005	TB
STYRENE	MWL-MW4	022154-01	19-APR-95	0.005	U	0.005	SA
STYRENE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00085	F
STYRENE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00085	F
STYRENE	MWL-MW4	022151-01	19-APR-95	0.005	U	0.00085	F
STYRENE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
STYRENE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
STYRENE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.005	U	0.005	F
STYRENE	MWL-MW4-TB	SNL0200919	21-APR-93	0.005	U	0.005	TB
STYRENE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.005	U	0.005	TB
STYRENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
STYRENE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.005	U	0.005	TB
STYRENE	MWL-MW4C	SNL0201160	11-NOV-93	0.005	U	0.005	F
STYRENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
STYRENE	MWL-MW4U	SNL0201497	28-OCT-94	0.005	U	0.005	F
STYRENE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
SULFOTEPP	MWL-BW1	SNL0200005	27-SEP-90	0.05	U	0.05	F
SULFOTEPP	MWL-BW1-D	SNL0200012	27-SEP-90	0.05	U	0.05	F
SULFOTEPP	MWL-MW2	SNL0200082	28-SEP-90	0.05	U	0.05	F
SULFOTEPP	MWL-MW3	SNL0200057	28-SEP-90	0.05	U	0.05	F
TERT-BUTYLBENZENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
TERT-BUTYLBENZENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
TETRACHLOROETHENE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-BW1	SNL0200789	29-JUL-92	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-BW1	SNL0201467	27-OCT-94	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-BW1	SNL0201482	27-OCT-94	0.005	U	0.005	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
TETRACHLOROETHENE	MWL-BW1	SNL0201512	27-OCT-94	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
TETRACHLOROETHENE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-BW1-D	SNL0200807	29-JUL-92	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-BW1-EB	SNL0201253	27-APR-94	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.005	U	0.005	TB
TETRACHLOROETHENE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.005	U	0.005	TB
TETRACHLOROETHENE	MWL-BW1-TB	SNL0201268	27-APR-94	0.005	U	0.005	TB
TETRACHLOROETHENE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.005	U	0.005	TB
TETRACHLOROETHENE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW1	SNL0200751	28-JUL-92	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW1	SNL0201305	03-MAY-94	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW1	SNL0201421	25-OCT-94	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW1	SNL0201437	25-OCT-94	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00119	F
TETRACHLOROETHENE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00119	F
TETRACHLOROETHENE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
TETRACHLOROETHENE	MWL-MW1-D	SNL0201287	04-MAY-94	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW1-EB	SNL0201206	26-APR-94	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.005	U	0.005	TB
TETRACHLOROETHENE	MWL-MW1-TB	SNL0201221	26-APR-94	0.005	U	0.005	TB
TETRACHLOROETHENE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.005	U	0.005	TB
TETRACHLOROETHENE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.005	U	0.005	TB
TETRACHLOROETHENE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.005	U	0.005	TB
TETRACHLOROETHENE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW2	SNL0200732	27-JUL-92	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW2	SNL0201269	02-MAY-94	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW2	SNL0201389	24-OCT-94	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00119	F
TETRACHLOROETHENE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00119	F
TETRACHLOROETHENE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW2-EB	SNL0201222	27-APR-94	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.005	U	0.005	TB
TETRACHLOROETHENE	MWL-MW2-TB	SNL0201237	27-APR-94	0.005	U	0.005	TB
TETRACHLOROETHENE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.005	U	0.005	TB
TETRACHLOROETHENE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.005	U	0.005	TB
TETRACHLOROETHENE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW3	SNL0200769	28-JUL-92	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW3	SNL0201323	03-MAY-94	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW3	SNL0201405	25-OCT-94	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00119	F
TETRACHLOROETHENE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00119	F
TETRACHLOROETHENE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
TETRACHLOROETHENE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
TETRACHLOROETHENE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW3-EB	SNL0201238	27-APR-94	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.005	U	0.005	TB
TETRACHLOROETHENE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.005	U	0.005	TB
TETRACHLOROETHENE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.005	U	0.005	TB
TETRACHLOROETHENE	MWL-MW4	022154-01	19-APR-95	0.001	U	0.001	SA
TETRACHLOROETHENE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00119	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
TETRACHLOROETHENE	MWL-MW4	022151-01	19-APR-95	0.005	U	0.00119	F
TETRACHLOROETHENE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00119	F
TETRACHLOROETHENE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
TETRACHLOROETHENE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
TETRACHLOROETHENE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW4-TB	SNL0200919	21-APR-93	0.005	U	0.005	TB
TETRACHLOROETHENE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.005	U	0.005	TB
TETRACHLOROETHENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
TETRACHLOROETHENE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.005	U	0.005	TB
TETRACHLOROETHENE	MWL-MW4C	SNL0201160	11-NOV-93	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
TETRACHLOROETHENE	MWL-MW4U	SNL0201497	28-OCT-94	0.005	U	0.005	F
TETRACHLOROETHENE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
THIONAZIN	MWL-BW1	SNL0200005	27-SEP-90	0.05	U	0.05	F
THIONAZIN	MWL-BW1-D	SNL0200012	27-SEP-90	0.05	U	0.05	F
THIONAZIN	MWL-MW2	SNL0200082	28-SEP-90	0.05	U	0.05	F
THIONAZIN	MWL-MW3	SNL0200057	28-SEP-90	0.05	U	0.05	F
TOLUENE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
TOLUENE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00156	F
TOLUENE	MWL-MW1	022149-01	19-APR-95	0.048		0.00156	SD
TOLUENE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00156	F
TOLUENE	MWL-MW1	022149-01	19-APR-95	0.048		0.00156	SD
TOLUENE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
TOLUENE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00156	F
TOLUENE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00156	F
TOLUENE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00156	F
TOLUENE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00156	F
TOLUENE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
TOLUENE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
TOLUENE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00156	F
TOLUENE	MWL-MW4	022151-01	19-APR-95	0.005	U	0.00156	F
TOLUENE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00156	F
TOLUENE	MWL-MW4	022154-01	19-APR-95	0.001	U	0.001	SA
TOLUENE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
TOLUENE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
TOTAL ORGANIC HALIDES (TOX)	MWL-BW1	026461-03	23-OCT-95	0.00516	J	0.00228	SA
TOTAL ORGANIC HALIDES (TOX)	MWL-MW1	026464-03	20-OCT-95	0.00676	J	0.00228	SA
TOTAL ORGANIC HALIDES (TOX)	MWL-MW3	026458-03	16-OCT-95	0.0256		0.00228	SA
TOTAL ORGANIC HALIDES (TOX)	MWL-MW4	026465-03	20-OCT-95	0.00376	J	0.00228	SA
TOTAL ORGANIC HALIDES (TOX)	MWL-MW4	026466-03	20-OCT-95	0.0106		0.00228	DU
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200003	27-SEP-90	0.0061	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200003	27-SEP-90	0.0081	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200003	27-SEP-90	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200003	27-SEP-90	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200105	24-JAN-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200105	24-JAN-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200105	24-JAN-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200105	24-JAN-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200283	07-MAY-91	0.0102	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200283	07-MAY-91	0.0119	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200283	07-MAY-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200283	07-MAY-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200406	06-AUG-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200406	06-AUG-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200406	06-AUG-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200406	06-AUG-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200565	16-OCT-91	0.0098	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200565	16-OCT-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200565	16-OCT-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200565	16-OCT-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200619	15-JAN-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200619	15-JAN-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200619	15-JAN-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200619	15-JAN-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200774	29-JUL-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200774	29-JUL-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200774	29-JUL-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200774	29-JUL-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200860	20-JAN-93	0.00088		0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200870	20-JAN-93	0.0034		0.03	D

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200870	20-JAN-93	0.0064		0.03	D
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200870	20-JAN-93	0.0015		0.03	D
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200860	20-JAN-93	0.0018		0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200860	20-JAN-93	0.0017		0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200870	20-JAN-93	0.0012		0.03	D
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200860	20-JAN-93	0.0132		0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200989	28-APR-93	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200989	28-APR-93	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200989	28-APR-93	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0200989	28-APR-93	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0201121	10-NOV-93	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0201469	27-OCT-94	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1	SNL0201484	27-OCT-94	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200010	27-SEP-90	0.0085	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200010	27-SEP-90	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200010	27-SEP-90	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200010	27-SEP-90	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200143	24-JAN-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200143	24-JAN-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200143	24-JAN-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200143	24-JAN-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200319	07-MAY-91	0.0095	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200319	07-MAY-91	0.0161	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200319	07-MAY-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200319	07-MAY-91	0.0227	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200423	06-AUG-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200423	06-AUG-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200423	06-AUG-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200423	06-AUG-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200583	16-OCT-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200583	16-OCT-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200583	16-OCT-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200583	16-OCT-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200627	15-JAN-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200627	15-JAN-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200627	15-JAN-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200627	15-JAN-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200792	29-JUL-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200792	29-JUL-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200792	29-JUL-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0200792	29-JUL-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-D	SNL0201140	10-NOV-93	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-EB	SNL0200493	09-OCT-91	0.06	U	0.06	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-EB	SNL0200698	23-JUL-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-EB	SNL0200931	21-APR-93	0.03	U	0.03	EB
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-EB	SNL0201254	27-APR-94	0.0054	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-FB	SNL0200601	16-OCT-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-BW1-FB	SNL0200811	29-JUL-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200124	24-JAN-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200124	24-JAN-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200124	24-JAN-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200124	24-JAN-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200301	07-MAY-91	0.0067	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200301	07-MAY-91	0.0076	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200301	07-MAY-91	0.0087	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200301	07-MAY-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200340	31-JUL-91	0.0055	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200340	31-JUL-91	0.0059	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200340	31-JUL-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200340	31-JUL-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200547	15-OCT-91	0.0051	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200547	15-OCT-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200547	15-OCT-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200547	15-OCT-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200621	14-JAN-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200621	14-JAN-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200621	14-JAN-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200621	14-JAN-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200736	28-JUL-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200736	28-JUL-92	0.03	U	0.03	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200736	28-JUL-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200736	28-JUL-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200840	19-JAN-93	0.0179		0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200840	19-JAN-93	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200840	19-JAN-93	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200840	19-JAN-93	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200957	27-APR-93	0.0125		0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200957	27-APR-93	0.0142		0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200957	27-APR-93	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0200957	27-APR-93	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0201083	09-NOV-93	0.0074	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0201306	03-MAY-94	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0201423	25-OCT-94	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1	SNL0201439	25-OCT-94	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1-D	SNL0201288	04-MAY-94	0.0056	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1-EB	SNL0200457	08-OCT-91	0.0401	J	0.06	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1-EB	SNL0200661	22-JUL-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1-EB	SNL0200893	20-APR-93	0.0012	J	0.03	EB
TOTAL ORGANIC HALOGEN AS CL	MWL-MW1-EB	SNL0201207	26-APR-94	0.0083	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200080	28-SEP-90	0.0053	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200080	28-SEP-90	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200080	28-SEP-90	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200080	28-SEP-90	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200162	28-JAN-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200162	28-JAN-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200162	28-JAN-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200162	28-JAN-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200223	02-MAY-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200223	02-MAY-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200223	02-MAY-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200223	02-MAY-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200355	01-AUG-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200355	01-AUG-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200355	01-AUG-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200355	01-AUG-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200511	14-OCT-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200511	14-OCT-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200511	14-OCT-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200511	14-OCT-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200623	13-JAN-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200623	13-JAN-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200623	13-JAN-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200623	13-JAN-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200717	27-JUL-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200717	27-JUL-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200717	27-JUL-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200717	27-JUL-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200830	18-JAN-93	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200830	18-JAN-93	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200830	18-JAN-93	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200830	18-JAN-93	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200941	26-APR-93	0.0064		0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200941	26-APR-93	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200941	26-APR-93	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0200941	26-APR-93	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0201064	08-NOV-93	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0201270	02-MAY-94	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2	SNL0201391	24-OCT-94	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2-EB	SNL0200439	07-OCT-91	0.0065	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2-EB	SNL0200679	22-JUL-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2-EB	SNL0200903	20-APR-93	0.03	U	0.03	EB
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2-EB	SNL0201223	27-APR-94	0.0068	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW2-EB	SNL0201375	19-OCT-94	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200055	28-SEP-90	0.005	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200055	28-SEP-90	0.0097	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200055	28-SEP-90	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200055	28-SEP-90	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200181	28-JAN-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200181	28-JAN-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200181	28-JAN-91	0.03	U	0.03	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200181	28-JAN-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200241	02-MAY-91	0.0061	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200241	02-MAY-91	0.0064	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200241	02-MAY-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200241	02-MAY-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200389	05-AUG-91	0.0085	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200389	05-AUG-91	0.0118	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200389	05-AUG-91	0.015	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200389	05-AUG-91	0.0208	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200529	15-OCT-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200529	15-OCT-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200529	15-OCT-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200529	15-OCT-91	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200625	14-JAN-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200625	14-JAN-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200625	14-JAN-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200625	14-JAN-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200754	28-JUL-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200754	28-JUL-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200754	28-JUL-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200754	28-JUL-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200850	19-JAN-93	0.0076		0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200850	19-JAN-93	0.0093		0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200850	19-JAN-93	0.0124		0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200850	19-JAN-93	0.0098		0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200973	27-APR-93	0.0059		0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200973	27-APR-93	0.0087		0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200973	27-APR-93	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0200973	27-APR-93	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0201102	09-NOV-93	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0201324	03-MAY-94	0.0115	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3	SNL0201407	25-OCT-94	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3-EB	SNL0200475	09-OCT-91	0.06	U	0.06	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3-EB	SNL0200642	21-JUL-92	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3-EB	SNL0200921	21-APR-93	0.03	U	0.03	EB
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3-EB	SNL0201239	27-APR-94	0.0225	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW3-EB	SNL0201359	17-OCT-94	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW4-D	SNL0201005	28-APR-93	0.0152		0.03	D
TOTAL ORGANIC HALOGEN AS CL	MWL-MW4-D	SNL0201005	28-APR-93	0.03	U	0.03	D
TOTAL ORGANIC HALOGEN AS CL	MWL-MW4-D	SNL0201005	28-APR-93	0.03	U	0.03	D
TOTAL ORGANIC HALOGEN AS CL	MWL-MW4-D	SNL0201005	28-APR-93	0.03	U	0.03	D
TOTAL ORGANIC HALOGEN AS CL	MWL-MW4-EB	SNL0201037	03-MAY-93	0.0145	J	0.03	EB
TOTAL ORGANIC HALOGEN AS CL	MWL-MW4-EB	SNL0201179	11-NOV-93	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW4C	SNL0201021	30-APR-93	0.0113		0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW4C	SNL0201021	30-APR-93	0.0156		0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW4C	SNL0201021	30-APR-93	0.0166		0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW4C	SNL0201021	30-APR-93	0.0206		0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW4C	SNL0201159	11-NOV-93	0.03	U	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW4L	SNL0201205	14-MAR-94	0.016		0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW4U	SNL0201341	31-MAY-94	0.0239	J	0.03	F
TOTAL ORGANIC HALOGEN AS CL	MWL-MW4U	SNL0201499	28-OCT-94	0.03	U	0.03	F
TOXAPHENE	MWL-BW1	SNL0200006	27-SEP-90	0.005	U	0.005	F
TOXAPHENE	MWL-BW1	SNL0200120	24-JAN-91	0.002	U	0.002	F
TOXAPHENE	MWL-BW1	SNL0200277	07-MAY-91	0.005	U	0.005	F
TOXAPHENE	MWL-BW1	SNL0200420	06-AUG-91	0.005	U	0.005	F
TOXAPHENE	MWL-BW1	SNL0200567	16-OCT-91	0.005	U	0.005	F
TOXAPHENE	MWL-BW1	SNL0201514	31-OCT-94	0.005	U	0.005	F
TOXAPHENE	MWL-BW1-D	SNL0200013	27-SEP-90	0.005	U	0.005	F
TOXAPHENE	MWL-BW1-D	SNL0200158	24-JAN-91	0.002	U	0.002	F
TOXAPHENE	MWL-BW1-D	SNL0200281	07-MAY-91	0.005	U	0.005	F
TOXAPHENE	MWL-BW1-D	SNL0200437	06-AUG-91	0.005	U	0.005	F
TOXAPHENE	MWL-BW1-D	SNL0200585	16-OCT-91	0.005	U	0.005	F
TOXAPHENE	MWL-BW1-EB	SNL0200495	09-OCT-91	0.005	U	0.005	F
TOXAPHENE	MWL-BW1-FB	SNL0200603	16-OCT-91	0.005	U	0.005	F
TOXAPHENE	MWL-MW1	SNL0200139	24-JAN-91	0.002	U	0.002	F
TOXAPHENE	MWL-MW1	SNL0200279	07-MAY-91	0.005	U	0.005	F
TOXAPHENE	MWL-MW1	SNL0200352	31-JUL-91	0.005	U	0.005	F
TOXAPHENE	MWL-MW1	SNL0200549	15-OCT-91	0.005	U	0.005	F
TOXAPHENE	MWL-MW1-EB	SNL0200459	08-OCT-91	0.005	U	0.005	F
TOXAPHENE	MWL-MW2	SNL0200083	28-SEP-90	0.005	U	0.005	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
TOXAPHENE	MWL-MW2	SNL0200177	28-JAN-91	0.002	U	0.002	F
TOXAPHENE	MWL-MW2	SNL0200217	02-MAY-91	0.005	U	0.005	F
TOXAPHENE	MWL-MW2	SNL0200369	01-AUG-91	0.005	U	0.005	F
TOXAPHENE	MWL-MW2	SNL0200513	14-OCT-91	0.005	U	0.005	F
TOXAPHENE	MWL-MW2-EB	SNL0200441	07-OCT-91	0.005	U	0.005	F
TOXAPHENE	MWL-MW3	SNL0200058	28-SEP-90	0.005	U	0.005	F
TOXAPHENE	MWL-MW3	SNL0200196	28-JAN-91	0.002	U	0.002	F
TOXAPHENE	MWL-MW3	SNL0200219	02-MAY-91	0.005	U	0.005	F
TOXAPHENE	MWL-MW3	SNL0200403	05-AUG-91	0.005	U	0.005	F
TOXAPHENE	MWL-MW3	SNL0200531	15-OCT-91	0.005	U	0.005	F
TOXAPHENE	MWL-MW3-EB	SNL0200477	09-OCT-91	0.005	U	0.005	F
TRANS-1,2-DICHLOROETHENE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
TRANS-1,2-DICHLOROETHENE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
TRANS-1,2-DICHLOROETHENE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
TRANS-1,2-DICHLOROETHENE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
TRANS-1,2-DICHLOROETHENE	MWL-MW4	022154-01	19-APR-95	0.001	U	0.001	SA
TRANS-1,2-DICHLOROETHENE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
TRANS-1,2-DICHLOROETHENE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
TRANS-1,3-DICHLOROPROPENE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-BW1	SNL0200789	29-JUL-92	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-BW1	SNL0201467	27-OCT-94	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-BW1	SNL0201482	27-OCT-94	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-BW1	SNL0201512	27-OCT-94	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
TRANS-1,3-DICHLOROPROPENE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-BW1-D	SNL0200807	29-JUL-92	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-BW1-EB	SNL0201253	27-APR-94	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.005	U	0.005	TB
TRANS-1,3-DICHLOROPROPENE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.005	U	0.005	TB
TRANS-1,3-DICHLOROPROPENE	MWL-BW1-TB	SNL0201268	27-APR-94	0.005	U	0.005	TB
TRANS-1,3-DICHLOROPROPENE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.005	U	0.005	TB
TRANS-1,3-DICHLOROPROPENE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW1	SNL0200751	28-JUL-92	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW1	SNL0201305	03-MAY-94	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW1	SNL0201421	25-OCT-94	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW1	SNL0201437	25-OCT-94	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00095	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00095	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
TRANS-1,3-DICHLOROPROPENE	MWL-MW1-D	SNL0201287	04-MAY-94	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW1-EB	SNL0201206	26-APR-94	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.005	U	0.005	TB
TRANS-1,3-DICHLOROPROPENE	MWL-MW1-TB	SNL0201221	26-APR-94	0.005	U	0.005	TB
TRANS-1,3-DICHLOROPROPENE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.005	U	0.005	TB
TRANS-1,3-DICHLOROPROPENE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.005	U	0.005	TB
TRANS-1,3-DICHLOROPROPENE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.005	U	0.005	TB
TRANS-1,3-DICHLOROPROPENE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW2	SNL0200732	27-JUL-92	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW2	SNL0201269	02-MAY-94	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW2	SNL0201389	24-OCT-94	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00095	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00095	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW2-EB	SNL0201222	27-APR-94	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.005	U	0.005	TB
TRANS-1,3-DICHLOROPROPENE	MWL-MW2-TB	SNL0201237	27-APR-94	0.005	U	0.005	TB
TRANS-1,3-DICHLOROPROPENE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.005	U	0.005	TB

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
TRANS-1,3-DICHLOROPROPENE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.005	U	0.005	TB
TRANS-1,3-DICHLOROPROPENE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW3	SNL0200769	28-JUL-92	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW3	SNL0201323	03-MAY-94	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW3	SNL0201405	25-OCT-94	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00095	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00095	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
TRANS-1,3-DICHLOROPROPENE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
TRANS-1,3-DICHLOROPROPENE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW3-EB	SNL0201238	27-APR-94	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.005	U	0.005	TB
TRANS-1,3-DICHLOROPROPENE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.005	U	0.005	TB
TRANS-1,3-DICHLOROPROPENE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.005	U	0.005	TB
TRANS-1,3-DICHLOROPROPENE	MWL-MW4	022154-01	19-APR-95	0.001	U	0.001	SA
TRANS-1,3-DICHLOROPROPENE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00095	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00095	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW4	022151-01	19-APR-95	0.005	U	0.00095	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
TRANS-1,3-DICHLOROPROPENE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
TRANS-1,3-DICHLOROPROPENE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW4-TB	SNL0200919	21-APR-93	0.005	U	0.005	TB
TRANS-1,3-DICHLOROPROPENE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.005	U	0.005	TB
TRANS-1,3-DICHLOROPROPENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
TRANS-1,3-DICHLOROPROPENE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.005	U	0.005	TB
TRANS-1,3-DICHLOROPROPENE	MWL-MW4C	SNL0201160	11-NOV-93	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
TRANS-1,3-DICHLOROPROPENE	MWL-MW4U	SNL0201497	28-OCT-94	0.005	U	0.005	F
TRANS-1,3-DICHLOROPROPENE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
TRANS-1,4-DICHLORO-2-BUTENE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
TRANS-1,4-DICHLORO-2-BUTENE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
TRANS-1,4-DICHLORO-2-BUTENE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
TRANS-1,4-DICHLORO-2-BUTENE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
TRANS-1,4-DICHLORO-2-BUTENE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
TRANS-1,4-DICHLORO-2-BUTENE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
TRANS-1,4-DICHLORO-2-BUTENE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
TRANS-1,4-DICHLORO-2-BUTENE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
TRANS-1,4-DICHLORO-2-BUTENE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
TRANS-1,4-DICHLORO-2-BUTENE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
TRANS-1,4-DICHLORO-2-BUTENE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
TRANS-1,4-DICHLORO-2-BUTENE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
TRANS-1,4-DICHLORO-2-BUTENE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
TRANS-1,4-DICHLORO-2-BUTENE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
TRANS-1,4-DICHLORO-2-BUTENE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
TRANS-1,4-DICHLORO-2-BUTENE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
TRICHLOROETHENE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
TRICHLOROETHENE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
TRICHLOROETHENE	MWL-BW1	SNL0200789	29-JUL-92	0.005	U	0.005	F
TRICHLOROETHENE	MWL-BW1	SNL0201467	27-OCT-94	0.005	U	0.005	F
TRICHLOROETHENE	MWL-BW1	SNL0201512	27-OCT-94	0.005	U	0.005	F
TRICHLOROETHENE	MWL-BW1	SNL0201482	27-OCT-94	0.005	U	0.005	F
TRICHLOROETHENE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
TRICHLOROETHENE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
TRICHLOROETHENE	MWL-BW1-D	SNL0200807	29-JUL-92	0.005	U	0.005	F
TRICHLOROETHENE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
TRICHLOROETHENE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.005	U	0.005	F
TRICHLOROETHENE	MWL-BW1-EB	SNL0201253	27-APR-94	0.005	U	0.005	F
TRICHLOROETHENE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.005	U	0.005	F
TRICHLOROETHENE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
TRICHLOROETHENE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.005	U	0.005	F
TRICHLOROETHENE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.005	U	0.005	F
TRICHLOROETHENE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.005	U	0.005	TB
TRICHLOROETHENE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.005	U	0.005	TB

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
TRICHLOROETHENE	MWL-BW1-TB	SNL0201268	27-APR-94	0.005	U	0.005	TB
TRICHLOROETHENE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.005	U	0.005	TB
TRICHLOROETHENE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW1	SNL0200751	28-JUL-92	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW1	SNL0201305	03-MAY-94	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW1	SNL0201421	25-OCT-94	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW1	SNL0201437	25-OCT-94	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00093	F
TRICHLOROETHENE	MWL-MW1	022149-01	19-APR-95	0.047		0.00093	SD
TRICHLOROETHENE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00093	F
TRICHLOROETHENE	MWL-MW1	022149-01	19-APR-95	0.047		0.00093	SD
TRICHLOROETHENE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
TRICHLOROETHENE	MWL-MW1-D	SNL0201287	04-MAY-94	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW1-EB	SNL0201206	26-APR-94	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.005	U	0.005	TB
TRICHLOROETHENE	MWL-MW1-TB	SNL0201221	26-APR-94	0.005	U	0.005	TB
TRICHLOROETHENE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.005	U	0.005	TB
TRICHLOROETHENE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.005	U	0.005	TB
TRICHLOROETHENE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.005	U	0.005	TB
TRICHLOROETHENE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW2	SNL0200732	27-JUL-92	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW2	SNL0201269	02-MAY-94	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW2	SNL0201389	24-OCT-94	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00093	F
TRICHLOROETHENE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00093	F
TRICHLOROETHENE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW2-EB	SNL0201222	27-APR-94	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.0046	J	0.005	F
TRICHLOROETHENE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.005	U	0.005	TB
TRICHLOROETHENE	MWL-MW2-TB	SNL0201237	27-APR-94	0.005	U	0.005	TB
TRICHLOROETHENE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.005	U	0.005	TB
TRICHLOROETHENE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.005	U	0.005	TB
TRICHLOROETHENE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW3	SNL0200769	28-JUL-92	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW3	SNL0201323	03-MAY-94	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW3	SNL0201405	25-OCT-94	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00093	F
TRICHLOROETHENE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00093	F
TRICHLOROETHENE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
TRICHLOROETHENE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
TRICHLOROETHENE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW3-EB	SNL0201238	27-APR-94	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.005	U	0.005	TB
TRICHLOROETHENE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.005	U	0.005	TB
TRICHLOROETHENE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.005	U	0.005	TB
TRICHLOROETHENE	MWL-MW4	022154-01	19-APR-95	0.001	U	0.001	SA
TRICHLOROETHENE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00093	F
TRICHLOROETHENE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00093	F
TRICHLOROETHENE	MWL-MW4	022151-01	19-APR-95	0.005	U	0.00093	F
TRICHLOROETHENE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
TRICHLOROETHENE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
TRICHLOROETHENE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW4-TB	SNL0200919	21-APR-93	0.005	U	0.005	TB
TRICHLOROETHENE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.005	U	0.005	TB
TRICHLOROETHENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
TRICHLOROETHENE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.005	U	0.005	TB
TRICHLOROETHENE	MWL-MW4C	SNL0201160	11-NOV-93	0.005	U	0.005	F
TRICHLOROETHENE	MWL-MW4U	SNL0201340	31-MAY-94	0.00028	J	0.001	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
TRICHLOROETHENE	MWL-MW4U	SNL0201497	28-OCT-94	0.005	U	0.005	F
TRICHLOROETHENE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
TRICHLOROFLUOROMETHANE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
TRICHLOROFLUOROMETHANE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
TRICHLOROFLUOROMETHANE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
TRICHLOROFLUOROMETHANE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
TRICHLOROFLUOROMETHANE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
TRICHLOROFLUOROMETHANE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
TRICHLOROFLUOROMETHANE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
TRICHLOROFLUOROMETHANE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
TRICHLOROFLUOROMETHANE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
TRICHLOROFLUOROMETHANE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
TRICHLOROFLUOROMETHANE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
TRICHLOROFLUOROMETHANE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
TRICHLOROFLUOROMETHANE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
TRICHLOROFLUOROMETHANE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
TRICHLOROFLUOROMETHANE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F
TRICHLOROFLUOROMETHANE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
TRICHLOROFLUOROMETHANE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
TRICHLOROFLUOROMETHANE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB
TRIETHYL PHOSPHATE	MWL-MW2	SNL0201540	02-MAY-94	0.0045	2	0.002	F
URANIUM	MWL MW4	022150-07	19-APR-95	0.00617		0.00014	SA
URANIUM	MWL MW4	022151-07	19-APR-95	0.0065		0.00014	DU
URANIUM	MWL-BW1	SNL0201955	27-OCT-94	0.00509		0.001	F
URANIUM	MWL-BW1	SNL0201965	27-OCT-94	0.001	U	0.001	F
URANIUM	MWL-BW1-EB	SNL0201947	26-OCT-94	0.001	U	0.001	F
URANIUM	MWL-MW1	SNL0201914	24-OCT-94	0.00134		0.001	F
URANIUM	MWL-MW1	SNL0201939	25-OCT-94	0.00548		0.001	F
URANIUM	MWL-MW2	SNL0201904	24-OCT-94	0.00784		0.001	F
URANIUM	MWL-MW2	022145-07	17-APR-95	0.00664		0.00014	SA
URANIUM	MWL-MW2	022145-07	17-APR-95	0.00664		0.00014	SA
URANIUM	MWL-MW2-EB	SNL0201923	19-OCT-94	0.00053		0.001	F
URANIUM	MWL-MW3	SNL0201930	25-OCT-94	0.00482		0.001	F
URANIUM	MWL-MW3	022147-07	17-APR-95	0.00549		0.00014	SA
URANIUM	MWL-MW3	022147-07	17-APR-95	0.00549		0.00014	SA
URANIUM	MWL-MW3-EB	SNL0201897	17-OCT-94	0.0005		0.001	F
URANIUM	MWL-MW4U	SNL0201974	28-OCT-94	2.69		0.001	F
VINYL ACETATE	MWL-BW1	SNL0200002	27-SEP-90	0.01	U	0.01	F
VINYL ACETATE	MWL-BW1	SNL0200637	17-JUL-92	0.01	U	0.01	F
VINYL ACETATE	MWL-BW1	SNL0200789	29-JUL-92	0.01	U	0.01	F
VINYL ACETATE	MWL-BW1	SNL0201467	27-OCT-94	0.01	U	0.01	F
VINYL ACETATE	MWL-BW1	SNL0201482	27-OCT-94	0.01	U	0.01	F
VINYL ACETATE	MWL-BW1	SNL0201512	27-OCT-94	0.01	U	0.01	F
VINYL ACETATE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
VINYL ACETATE	MWL-BW1-D	SNL0200009	27-SEP-90	0.01	U	0.01	F
VINYL ACETATE	MWL-BW1-D	SNL0200807	29-JUL-92	0.01	U	0.01	F
VINYL ACETATE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.01	U	0.01	F
VINYL ACETATE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.01	U	0.01	F
VINYL ACETATE	MWL-BW1-EB	SNL0201253	27-APR-94	0.01	U	0.01	F
VINYL ACETATE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.01	U	0.01	F
VINYL ACETATE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.01	U	0.01	F
VINYL ACETATE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.01	U	0.01	F
VINYL ACETATE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.01	U	0.01	F
VINYL ACETATE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.01	U	0.01	TB
VINYL ACETATE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.01	U	0.01	TB
VINYL ACETATE	MWL-BW1-TB	SNL0201268	27-APR-94	0.01	U	0.01	TB
VINYL ACETATE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.01	U	0.01	TB
VINYL ACETATE	MWL-MW1	SNL0200638	17-JUL-92	0.01	U	0.01	F
VINYL ACETATE	MWL-MW1	SNL0200751	28-JUL-92	0.01	U	0.01	F
VINYL ACETATE	MWL-MW1	SNL0201305	03-MAY-94	0.01	U	0.01	F
VINYL ACETATE	MWL-MW1	SNL0201421	25-OCT-94	0.01	U	0.01	F
VINYL ACETATE	MWL-MW1	SNL0201437	25-OCT-94	0.01	U	0.01	F
VINYL ACETATE	MWL-MW1	022149-01	19-APR-95	0.01	U	0.00153	F
VINYL ACETATE	MWL-MW1	022149-01	19-APR-95	0.01	U	0.00153	F
VINYL ACETATE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
VINYL ACETATE	MWL-MW1-D	SNL0201287	04-MAY-94	0.01	U	0.01	F
VINYL ACETATE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.01	U	0.01	F
VINYL ACETATE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.01	U	0.01	F
VINYL ACETATE	MWL-MW1-EB	SNL0201206	26-APR-94	0.01	U	0.01	F
VINYL ACETATE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
VINYL ACETATE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.01	U	0.01	TB
VINYL ACETATE	MWL-MW1-TB	SNL0201221	26-APR-94	0.01	U	0.01	TB
VINYL ACETATE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.01	U	0.01	TB
VINYL ACETATE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.01	U	0.01	TB
VINYL ACETATE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.01	U	0.01	TB
VINYL ACETATE	MWL-MW2	SNL0200079	28-SEP-90	0.01	U	0.01	F
VINYL ACETATE	MWL-MW2	SNL0200639	17-JUL-92	0.01	U	0.01	F
VINYL ACETATE	MWL-MW2	SNL0200732	27-JUL-92	0.01	U	0.01	F
VINYL ACETATE	MWL-MW2	SNL0201269	02-MAY-94	0.01	U	0.01	F
VINYL ACETATE	MWL-MW2	SNL0201389	24-OCT-94	0.01	U	0.01	F
VINYL ACETATE	MWL-MW2	022145-01	17-APR-95	0.01	U	0.00153	F
VINYL ACETATE	MWL-MW2	022145-01	17-APR-95	0.01	U	0.00153	F
VINYL ACETATE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.01	U	0.01	F
VINYL ACETATE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.01	U	0.01	F
VINYL ACETATE	MWL-MW2-EB	SNL0201222	27-APR-94	0.01	U	0.01	F
VINYL ACETATE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.01	U	0.01	F
VINYL ACETATE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.01	U	0.01	TB
VINYL ACETATE	MWL-MW2-TB	SNL0201237	27-APR-94	0.01	U	0.01	TB
VINYL ACETATE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.01	U	0.01	TB
VINYL ACETATE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.01	U	0.01	TB
VINYL ACETATE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.01	U	0.01	F
VINYL ACETATE	MWL-MW3	SNL0200054	28-SEP-90	0.01	U	0.01	F
VINYL ACETATE	MWL-MW3	SNL0200640	17-JUL-92	0.01	U	0.01	F
VINYL ACETATE	MWL-MW3	SNL0200769	28-JUL-92	0.01	U	0.01	F
VINYL ACETATE	MWL-MW3	SNL0201323	03-MAY-94	0.01	U	0.01	F
VINYL ACETATE	MWL-MW3	SNL0201405	25-OCT-94	0.01	U	0.01	F
VINYL ACETATE	MWL-MW3	022147-01	17-APR-95	0.01	U	0.00153	F
VINYL ACETATE	MWL-MW3	022147-01	17-APR-95	0.01	U	0.00153	F
VINYL ACETATE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
VINYL ACETATE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
VINYL ACETATE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.01	U	0.01	F
VINYL ACETATE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.01	U	0.01	F
VINYL ACETATE	MWL-MW3-EB	SNL0201238	27-APR-94	0.01	U	0.01	F
VINYL ACETATE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.01	U	0.01	F
VINYL ACETATE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.01	U	0.01	F
VINYL ACETATE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.01	U	0.01	F
VINYL ACETATE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.01	U	0.01	TB
VINYL ACETATE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.01	U	0.01	TB
VINYL ACETATE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.01	U	0.01	F
VINYL ACETATE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.01	U	0.01	TB
VINYL ACETATE	MWL-MW4	022154-01	19-APR-95	0.005	U	0.005	SA
VINYL ACETATE	MWL-MW4	022150-01	19-APR-95	0.01	U	0.00153	F
VINYL ACETATE	MWL-MW4	022151-01	19-APR-95	0.01	U	0.00153	F
VINYL ACETATE	MWL-MW4	022150-01	19-APR-95	0.01	U	0.00153	F
VINYL ACETATE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
VINYL ACETATE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
VINYL ACETATE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.01	U	0.01	F
VINYL ACETATE	MWL-MW4-TB	SNL0200919	21-APR-93	0.01	U	0.01	TB
VINYL ACETATE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.01	U	0.01	TB
VINYL ACETATE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.01	U	0.01	TB
VINYL ACETATE	MWL-MW4C	SNL0201160	11-NOV-93	0.01	U	0.01	F
VINYL ACETATE	MWL-MW4U	SNL0201497	28-OCT-94	0.01	U	0.01	F
VINYL ACETATE	MWL-TB	SNL0200636	18-JUL-92	0.01	U	0.01	TB
VINYL CHLORIDE	MWL-BW1	SNL0200002	27-SEP-90	0.01	U	0.01	F
VINYL CHLORIDE	MWL-BW1	SNL0200637	17-JUL-92	0.01	U	0.01	F
VINYL CHLORIDE	MWL-BW1	SNL0200789	29-JUL-92	0.01	U	0.01	F
VINYL CHLORIDE	MWL-BW1	SNL0201467	27-OCT-94	0.01	U	0.01	F
VINYL CHLORIDE	MWL-BW1	SNL0201482	27-OCT-94	0.01	U	0.01	F
VINYL CHLORIDE	MWL-BW1	SNL0201512	27-OCT-94	0.01	U	0.01	F
VINYL CHLORIDE	MWL-BW1	026461-01	23-OCT-95	0.001	U	0.001	SA
VINYL CHLORIDE	MWL-BW1-D	SNL0200009	27-SEP-90	0.01	U	0.01	F
VINYL CHLORIDE	MWL-BW1-D	SNL0200807	29-JUL-92	0.01	U	0.01	F
VINYL CHLORIDE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.01	U	0.01	F
VINYL CHLORIDE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.01	U	0.01	F
VINYL CHLORIDE	MWL-BW1-EB	SNL0201253	27-APR-94	0.01	U	0.01	F
VINYL CHLORIDE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.01	U	0.01	F
VINYL CHLORIDE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.01	U	0.01	F
VINYL CHLORIDE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.01	U	0.01	F
VINYL CHLORIDE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.01	U	0.01	F
VINYL CHLORIDE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.01	U	0.01	TB

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
VINYL CHLORIDE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.01	U	0.01	TB
VINYL CHLORIDE	MWL-BW1-TB	SNL0201268	27-APR-94	0.01	U	0.01	TB
VINYL CHLORIDE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.01	U	0.01	TB
VINYL CHLORIDE	MWL-MW1	SNL0200638	17-JUL-92	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW1	SNL0200751	28-JUL-92	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW1	SNL0201305	03-MAY-94	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW1	SNL0201421	25-OCT-94	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW1	SNL0201437	25-OCT-94	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW1	022149-01	19-APR-95	0.01	U	0.00225	F
VINYL CHLORIDE	MWL-MW1	022149-01	19-APR-95	0.01	U	0.00225	F
VINYL CHLORIDE	MWL-MW1	026464-01	20-OCT-95	0.001	U	0.001	SA
VINYL CHLORIDE	MWL-MW1-D	SNL0201287	04-MAY-94	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW1-EB	SNL0201206	26-APR-94	0.01	U	0.01.	F
VINYL CHLORIDE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.01	U	0.01	TB
VINYL CHLORIDE	MWL-MW1-TB	SNL0201221	26-APR-94	0.01	U	0.01	TB
VINYL CHLORIDE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.01	U	0.01	TB
VINYL CHLORIDE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.01	U	0.01	TB
VINYL CHLORIDE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.01	U	0.01	TB
VINYL CHLORIDE	MWL-MW2	SNL0200079	28-SEP-90	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW2	SNL0200639	17-JUL-92	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW2	SNL0200732	27-JUL-92	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW2	SNL0201269	02-MAY-94	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW2	SNL0201389	24-OCT-94	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW2	022145-01	17-APR-95	0.01	U	0.00225	F
VINYL CHLORIDE	MWL-MW2	022145-01	17-APR-95	0.01	U	0.00225	F
VINYL CHLORIDE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW2-EB	SNL0201222	27-APR-94	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.01	U	0.01	TB
VINYL CHLORIDE	MWL-MW2-TB	SNL0201237	27-APR-94	0.01	U	0.01	TB
VINYL CHLORIDE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.01	U	0.01	TB
VINYL CHLORIDE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.01	U	0.01	TB
VINYL CHLORIDE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW3	SNL0200054	28-SEP-90	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW3	SNL0200640	17-JUL-92	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW3	SNL0200769	28-JUL-92	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW3	SNL0201323	03-MAY-94	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW3	SNL0201405	25-OCT-94	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW3	022147-01	17-APR-95	0.01	U	0.00225	F
VINYL CHLORIDE	MWL-MW3	022147-01	17-APR-95	0.01	U	0.00225	F
VINYL CHLORIDE	MWL-MW3	026458-01	16-OCT-95	0.001	U	0.001	SA
VINYL CHLORIDE	MWL-MW3	026457-01	16-OCT-95	0.001	U	0.001	TB
VINYL CHLORIDE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW3-EB	SNL0201238	27-APR-94	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.01	U	0.01	TB
VINYL CHLORIDE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.01	U	0.01	TB
VINYL CHLORIDE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.01	U	0.01	TB
VINYL CHLORIDE	MWL-MW4	022154-01	19-APR-95	0.001	U	0.001	SA
VINYL CHLORIDE	MWL-MW4	022150-01	19-APR-95	0.01	U	0.00225	F
VINYL CHLORIDE	MWL-MW4	022151-01	19-APR-95	0.01	U	0.00225	F
VINYL CHLORIDE	MWL-MW4	022150-01	19-APR-95	0.01	U	0.00225	F
VINYL CHLORIDE	MWL-MW4	026465-01	20-OCT-95	0.001	U	0.001	SA
VINYL CHLORIDE	MWL-MW4	026466-01	20-OCT-95	0.001	U	0.001	DU
VINYL CHLORIDE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW4-TB	SNL0200919	21-APR-93	0.01	U	0.01	TB
VINYL CHLORIDE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.01	U	0.01	TB
VINYL CHLORIDE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.002	U	0.002	TB
VINYL CHLORIDE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.01	U	0.01	TB
VINYL CHLORIDE	MWL-MW4C	SNL0201160	11-NOV-93	0.01	U	0.01	F
VINYL CHLORIDE	MWL-MW4U	SNL0201340	31-MAY-94	0.002	U	0.002	F
VINYL CHLORIDE	MWL-MW4U	SNL0201497	28-OCT-94	0.01	U	0.01	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
VINYL CHLORIDE	MWL-TB	SNL0200636	18-JUL-92	0.01	U	0.01	TB
XYLENE	MWL-BW1	SNL0200002	27-SEP-90	0.005	U	0.005	F
XYLENE	MWL-BW1	SNL0200637	17-JUL-92	0.005	U	0.005	F
XYLENE	MWL-BW1	SNL0200789	29-JUL-92	0.005	U	0.005	F
XYLENE	MWL-BW1	SNL0201467	27-OCT-94	0.005	U	0.005	F
XYLENE	MWL-BW1	SNL0201482	27-OCT-94	0.005	U	0.005	F
XYLENE	MWL-BW1	SNL0201512	27-OCT-94	0.005	U	0.005	F
XYLENE	MWL-BW1	026461-01	23-OCT-95	0.002	U	0.002	SA
XYLENE	MWL-BW1-D	SNL0200009	27-SEP-90	0.005	U	0.005	F
XYLENE	MWL-BW1-D	SNL0200807	29-JUL-92	0.005	U	0.005	F
XYLENE	MWL-BW1-EB	SNL0200631	17-JUL-92	0.005	U	0.005	F
XYLENE	MWL-BW1-EB	SNL0200713	23-JUL-92	0.005	U	0.005	F
XYLENE	MWL-BW1-EB	SNL0201253	27-APR-94	0.005	U	0.005	F
XYLENE	MWL-BW1-EB	SNL0201452	26-OCT-94	0.005	U	0.005	F
XYLENE	MWL-BW1-FB	SNL0200001	27-SEP-90	0.005	U	0.005	F
XYLENE	MWL-BW1-FB	SNL0200826	29-JUL-92	0.005	U	0.005	F
XYLENE	MWL-BW1-TB	SNL0200715	23-JUL-92	0.005	U	0.005	F
XYLENE	MWL-BW1-TB	SNL0200809	29-JUL-92	0.005	U	0.005	TB
XYLENE	MWL-BW1-TB	SNL0200828	29-JUL-92	0.005	U	0.005	TB
XYLENE	MWL-BW1-TB	SNL0201268	27-APR-94	0.005	U	0.005	TB
XYLENE	MWL-BW1-TB	SNL0201466	26-OCT-94	0.005	U	0.005	TB
XYLENE	MWL-MW1	SNL0200638	17-JUL-92	0.005	U	0.005	F
XYLENE	MWL-MW1	SNL0200751	28-JUL-92	0.005	U	0.005	F
XYLENE	MWL-MW1	SNL0201305	03-MAY-94	0.005	U	0.005	F
XYLENE	MWL-MW1	SNL0201421	25-OCT-94	0.005	U	0.005	F
XYLENE	MWL-MW1	SNL0201437	25-OCT-94	0.005	U	0.005	F
XYLENE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00158	F
XYLENE	MWL-MW1	022149-01	19-APR-95	0.005	U	0.00158	F
XYLENE	MWL-MW1	026464-01	20-OCT-95	0.002	U	0.002	SA
XYLENE	MWL-MW1-D	SNL0201287	04-MAY-94	0.005	U	0.005	F
XYLENE	MWL-MW1-EB	SNL0200632	17-JUL-92	0.005	U	0.005	F
XYLENE	MWL-MW1-EB	SNL0200676	22-JUL-92	0.005	U	0.005	F
XYLENE	MWL-MW1-EB	SNL0201206	26-APR-94	0.005	U	0.005	F
XYLENE	MWL-MW1-TB	SNL0200696	22-JUL-92	0.005	U	0.005	F
XYLENE	MWL-MW1-TB	SNL0200771	28-JUL-92	0.005	U	0.005	TB
XYLENE	MWL-MW1-TB	SNL0201221	26-APR-94	0.005	U	0.005	TB
XYLENE	MWL-MW1-TB	SNL0201322	03-MAY-94	0.005	U	0.005	TB
XYLENE	MWL-MW1-TB	SNL0201304	04-MAY-94	0.005	U	0.005	TB
XYLENE	MWL-MW1-TB	SNL0201436	25-OCT-94	0.005	U	0.005	TB
XYLENE	MWL-MW2	SNL0200079	28-SEP-90	0.005	U	0.005	F
XYLENE	MWL-MW2	SNL0200639	17-JUL-92	0.005	U	0.005	F
XYLENE	MWL-MW2	SNL0200732	27-JUL-92	0.005	U	0.005	F
XYLENE	MWL-MW2	SNL0201269	02-MAY-94	0.005	U	0.005	F
XYLENE	MWL-MW2	SNL0201389	24-OCT-94	0.005	U	0.005	F
XYLENE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00158	F
XYLENE	MWL-MW2	022145-01	17-APR-95	0.005	U	0.00158	F
XYLENE	MWL-MW2-EB	SNL0200633	17-JUL-92	0.005	U	0.005	F
XYLENE	MWL-MW2-EB	SNL0200694	22-JUL-92	0.005	U	0.005	F
XYLENE	MWL-MW2-EB	SNL0201222	27-APR-94	0.005	U	0.005	F
XYLENE	MWL-MW2-EB	SNL0201373	19-OCT-94	0.005	U	0.005	F
XYLENE	MWL-MW2-TB	SNL0200734	27-JUL-92	0.005	U	0.005	TB
XYLENE	MWL-MW2-TB	SNL0201237	27-APR-94	0.005	U	0.005	TB
XYLENE	MWL-MW2-TB	SNL0201286	02-MAY-94	0.005	U	0.005	TB
XYLENE	MWL-MW2-TB	SNL0201388	19-OCT-94	0.005	U	0.005	TB
XYLENE	MWL-MW2-TB	SNL0201404	24-OCT-94	0.005	U	0.005	F
XYLENE	MWL-MW3	SNL0200054	28-SEP-90	0.005	U	0.005	F
XYLENE	MWL-MW3	SNL0200640	17-JUL-92	0.005	U	0.005	F
XYLENE	MWL-MW3	SNL0200769	28-JUL-92	0.005	U	0.005	F
XYLENE	MWL-MW3	SNL0201323	03-MAY-94	0.005	U	0.005	F
XYLENE	MWL-MW3	SNL0201405	25-OCT-94	0.005	U	0.005	F
XYLENE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00158	F
XYLENE	MWL-MW3	022147-01	17-APR-95	0.005	U	0.00158	F
XYLENE	MWL-MW3	026458-01	16-OCT-95	0.002	U	0.002	SA
XYLENE	MWL-MW3	026457-01	16-OCT-95	0.002	U	0.002	TB
XYLENE	MWL-MW3-EB	SNL0200634	17-JUL-92	0.005	U	0.005	F
XYLENE	MWL-MW3-EB	SNL0200657	21-JUL-92	0.005	U	0.005	F
XYLENE	MWL-MW3-EB	SNL0201238	27-APR-94	0.005	U	0.005	F
XYLENE	MWL-MW3-EB	SNL0201357	17-OCT-94	0.005	U	0.005	F
XYLENE	MWL-MW3-FB	SNL0200052	28-SEP-90	0.005	U	0.005	F
XYLENE	MWL-MW3-TB	SNL0200053	28-SEP-90	0.005	U	0.005	F

Appendix M
MWL Groundwater VOC and SVOC Data

Parameter	Well	Sample Number	Date	Concentration (mg/L)	Qualifier	Detection Limit (mg/L)	Sample Type
XYLENE	MWL-MW3-TB	SNL0200659	21-JUL-92	0.005	U	0.005	TB
XYLENE	MWL-MW3-TB	SNL0200772	28-JUL-92	0.005	U	0.005	TB
XYLENE	MWL-MW3-TB	SNL0201372	17-OCT-94	0.005	U	0.005	F
XYLENE	MWL-MW3-TB	SNL0201420	25-OCT-94	0.005	U	0.005	TB
XYLENE	MWL-MW4	022154-01	19-APR-95	0.01	U	0.01	SA
XYLENE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00158	F
XYLENE	MWL-MW4	022151-01	19-APR-95	0.005	U	0.00158	F
XYLENE	MWL-MW4	022150-01	19-APR-95	0.005	U	0.00158	F
XYLENE	MWL-MW4	026465-01	20-OCT-95	0.002	U	0.002	SA
XYLENE	MWL-MW4	026466-01	20-OCT-95	0.002	U	0.002	DU
XYLENE	MWL-MW4-EB	SNL0201180	11-NOV-93	0.005	U	0.005	F
XYLENE	MWL-MW4-TB	SNL0200919	21-APR-93	0.005	U	0.005	TB
XYLENE	MWL-MW4-TB	SNL0201181	11-NOV-93	0.005	U	0.005	TB
XYLENE	MWL-MW4-TB	SNL0201356	31-MAY-94	0.001	U	0.001	TB
XYLENE	MWL-MW4-TB	SNL0201513	28-OCT-94	0.005	U	0.005	TB
XYLENE	MWL-MW4C	SNL0201160	11-NOV-93	0.005	U	0.005	F
XYLENE	MWL-MW4U	SNL0201340	31-MAY-94	0.001	U	0.001	F
XYLENE	MWL-MW4U	SNL0201497	28-OCT-94	0.005	U	0.005	F
XYLENE	MWL-TB	SNL0200636	18-JUL-92	0.005	U	0.005	TB

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APPENDIX N

MWL Risk Assessment

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BACKGROUND

Appendix N describes the SNM,NM-proposed default set of exposure routes and associated default parameter values developed for the industrial land-use designation. The default exposure routes and parameter values suggested are those that SNL,NM views as resulting in a RME value. The MWL has a preliminary industrial land-use designation.

EPA (EPA, 1989a) provides a summary of exposure routes that could potentially be of significance at a specific waste site. These potential exposure routes consist of:

1. Ingestion of contaminated drinking water;
2. Ingestion of contaminated soil;
3. Ingestion of contaminated fish and shell fish;
4. Ingestion of contaminated fruits and vegetables;
5. Ingestion of contaminated meat, eggs, and dairy products;
6. Ingestion of contaminated surface water while swimming;
7. Dermal contact with chemicals in water;
8. Dermal contact with chemicals in soil;
9. Inhalation of airborne compounds (vapor phase or particulate), and;
10. External exposure to penetrating radiation (immersion in contaminated air; immersion in contaminated water and exposure from ground surfaces with photon-emitting radionuclides).

Based on the location of the MWL and surface characteristics, SNL,NM has evaluated these potential exposure routes to determine which should be considered in the risk assessment (the last exposure route is pertinent to radionuclides only). At SNL,NM ER sites, there is no consumption of fish, shell fish, fruits, vegetables, meat, eggs, or dairy products that originate on-site. Additionally, no potential for swimming in surface water is present due to the high-desert environmental conditions. As documented in the computer code RESRAD manual (ANL, 1993), risks resulting from immersion in contaminated air or water are not significant compared to risks from other radiation exposure routes; these are therefore not included. SNL,NM ER has therefore excluded the following four potential exposure routes from further risk assessment evaluations at any SNL,NM ER site:

1. Ingestion of contaminated fish and shell fish;
2. Ingestion of contaminated fruits and vegetables;
3. Ingestion of contaminated meat, eggs, and dairy products; and
4. Ingestion of contaminated surface water while swimming.

That part of the exposure pathway for radionuclides related to immersion in contaminated air or water is also eliminated.

The exposure routes that will be considered at the MWL are:

1. Ingestion of contaminated drinking water;

2. Ingestion of contaminated soil;

3. Inhalation of airborne compounds (vapor phase or particulate).

4. Dermal contact with chemicals in water;

5. Dermal contact with chemicals in soils; and

6. External exposure to penetrating radiation from ground surfaces with photon-emitting radionuclides.

EQUATIONS AND DEFAULT PARAMETER VALUES FOR IDENTIFIED EXPOSURE ROUTES

In general, SNL,NM expects that ingestion of compounds in drinking water and soil will be the more significant exposure routes for chemicals; external exposure to radiation may also be significant for radionuclides. All six routes will, however, be considered. The general equations for calculating potential intakes via these routes are shown below. The equations are from RAGS (EPA, 1989a and 1991). Also shown are the default values SNL,NM ER suggests for use in RME risk assessment calculations for an industrial scenario, based on EPA and other governmental agency guidance. The pathways and values for chemical contaminants are discussed first, followed by those for radionuclide contaminants.

Chemicals

Ingestion of Chemicals in Drinking Water:
Scenario: A person ingests tap water and beverages made from tap water. All tap water consumed is assumed to come from an on-site drinking well. In accordance with EPA guidance, the default parameter values used reflect a residential exposure.

$$\text{Intake (mg/kg-day)} = \frac{CW \times IR \times EF \times ED}{BW \times AT}$$

CW = chemical concentration in water (mg/L);
IR = ingestion rate (L water/d);
EF = exposure frequency (d/yr);
ED = exposure duration (yr);
BW = body weight (kg);
AT = averaging time (d).

Parameter	Units	Point Value	Justification
CW	mg/L	site-specific	
IR	L/d	2	Exposure Factors Handbook (EPA, 1989b); reasonable worst-case value
EF	d/yr	350	Exposure Factors Handbook (EPA, 1989b) and RAGS, Vol 1, Part B (EPA, 1991), reasonable worst-case value
ED	yr	30	Exposure Factors Handbook (EPA, 1989b) and RAGS, Vol 1, Part B (EPA, 1991), reasonable worst-case value
BW	kg	70	Exposure Factors Handbook (EPA, 1989b); conservative estimate
AT	d	 7500 25500	RAGS (EPA, 1989a); ED x 250 d/y for noncarcinogenic effects; 70 yr x 365 d/y for carcinogenic effects.

Ingestion of Chemicals in Soil:

Scenario: A worker engages in a combination of indoor and outdoor activities for 8 hours per day with inadvertent ingestion of soil from a layer of soil on the inside surfaces of the fingers and thumb from outdoor activities or inadvertent ingestion of soil from handling of food or cigarettes. An EPA suggested average value of 100 mg/d is used for the ingestion rate.

$$\text{Intake (mg/kg-day)} = \frac{CS \times IR \times (10^{-6}\ \text{kg/mg}) \times EF \times FI \times ED}{BW \times AT}$$

CS = chemical concentration in soil (mg/kg);
IR = ingestion rate (mg soil/d);
FI = fraction ingested (default to 1);
EF = exposure frequency (d/yr);
ED = exposure duration (yr);
BW = body weight (kg);
AT = averaging time (d).

Parameter	Units	Point Value	Justification
CS	mg/kg	site-specific	
IR	mg/d	100	Exposure Factors Handbook (EPA, 1989b), RAGS (EPA, 1989a); conservative estimate
EF	d/yr	250	Reasonable worst-case value for worker; RAGS (EPA, 1989a)
FI	--	1	Worst-case value
ED	yr	30	Reasonable worst-case value for worker
BW	kg	70	Exposure Factors Handbook (EPA, 1989b); conservative estimate
AT	d	 7500 25500	RAGS (EPA, 1989a); ED x 250 d/y for noncarcinogenic effects; 70 yr x 365 d/y for carcinogenic effects.

Inhalation of Airborne (vapor phase or particulate) Chemicals:
Scenario: A worker is engaged in activities (indoors or outdoors) and inhales contaminant vapors present in the air or is exposed to contaminant particulates present in the air.

$$\text{Intake (mg/kg-day)} = \frac{CA \times IR \times ET \times EF \times ED}{BW \times AT}$$

CA = chemical concentration in air (mg/m^3);
IR = inhalation rate (m^3/h);
ET = exposure time (h/d);
EF = exposure frequency (d/yr);
ED = exposure duration (yr);
BW = body weight (kg);
AT = averaging time (d).

Parameter	Units	Point Value	Justification
CA	mg/m^3	site-specific	
IR	m^3/h	2.5	Exposure Factors Handbook (EPA, 1989b); reasonable worst-case value
EF	d/yr	250	Reasonable worst-case value for worker
ET	h/d	8	Reasonable worst-case value
ED	yr	30	Reasonable worst-case value for worker
BW	kg	70	Exposure Factors Handbook (EPA, 1989b); conservative estimate
AT	d	7500 25500	RAGS (EPA, 1989a); ED x 250 d/y for noncarcinogenic effects; 70 yr x 365 d/y for carcinogenic effects.

The chemical concentration in air can be either measured or calculated based on the concentration of contaminants in the soil. If field measurements are not available, vapor-phase concentrations can be determined using a volatilization factor (VF) to define the relationship between the concentration of contaminant in soil and the volatilized contaminants in air. Likewise, chemical concentrations based on particulates can be determined using a particulate emission factor (PEF) to define the relationship between the contaminant concentration in soil with the concentration of respirable particles in air due to fugitive dust emissions. The volatilization factor was established as part of the Hwang and Falco (1986) model developed by EPA's Exposure Assessment group. The particulate emission factor is derived by Cowherd (1985), applicable to a typical hazardous waste site where the surface contamination provides a relatively continuous and constant potential for emission over an extended period of time. The equations for calculating VFs and PEFs can be found in EPA (EPA, 1991). Alternative methods for calculating these factors are also available. These alternative methods can be discussed with EPA/NMED staff for use in risk assessments if they can be shown to be technically consistent or superior to current published guidance.

<u>Dermal Contact with Chemicals in Water:</u>
Scenario: A worker is in contact with contaminants in water, primarily through hygienic activities as hand washing or showering.

$$\text{Absorbed Dose (mg/kg-day)} = \frac{CW \times SA \times 10^4\ cm^2/m^2 \times PC \times ET \times EF \times ED \times 1\ L/10^3\ cm^3}{BW \times AT}$$

CW = chemical concentration in water (mg/L);
SA = skin surface area for contact (m^2);
PC = chemical specific dermal permeability constant (cm/h);
ET = exposure time (h/d);
EF = exposure frequency (d/yr);
ED = exposure duration (yr);
BW = body weight (kg);
AT = averaging time (d).

Parameter	Units	Point Value	Justification
CW	mg/L	site-specific	
SA	m^2	2	Exposure Factors Handbook (EPA, 1989b); {represents total body exposure); reasonable worst-case value
PC	cm/h	chemical specific	see e.g., Dermal Exposure Assessment (EPA, 1992)
EF	d/yr	250	Reasonable worst-case value for worker
ET	h/d	0.25	Dermal Exposure Assessment (EPA, 1992); reasonable worst case value
ED	yr	30	Reasonable worst-case value for worker
BW	kg	70	Exposure Factors Handbook (EPA, 1989b); conservative estimate
AT	d	7500 25500	RAGS (EPA, 1989a); ED x 250 d/y for noncarcinogenic effects; 70 yr x 365 d/y for carcinogenic effects.

Dermal Contact with Soil:

Scenario: A worker is in contact with contaminants in soil for an exposure duration determined through discussions with EPA/NMED staff. A worker gets exposure to the head, hands, forearms and lower legs.

$$\text{Absorbed Dose (mg/kg-day)} = \frac{CS \times (10^{-6}\ kg/mg) \times SA \times AF \times ABS \times EF \times ED}{BW \times AT}$$

CS = chemical concentration in soil (mg/kg);
SA = skin surface area for contact (m^2);
AF = soil to skin adherence factor (mg/cm^2);
ABS = absorption factor (unitless);
EF = exposure frequency (d/yr);
ED = exposure duration (yr);
BW = body weight (kg);
AT = averaging time (d).

Parameter	Units	Point Value	Justification
CS	mg/kg	site-specific	
SA	m^2	0.53	Dermal Exposure Assessment (EPA, 1992); {accounts for adult exposure to head, hands, forearms, and lower legs); reasonable worst-case value
AF	mg/cm^2	1.0	Dermal Exposure Assessment (EPA, 1992); reasonable worst-case value
ABS	--		
EF	d/yr	250	Reasonable worst-case value for worker
ET	h/d	TBD	To be determined based on discussions with NMED staff.
ED	yr	30	Reasonable worst-case value for worker
BW	kg	70	Exposure Factors Handbook (EPA, 1989b); conservative estimate
AT	d	7500 25500	RAGS (EPA, 1989a); ED x 250 d/y for noncarcinogenic effects; 70 yr x 365 d/y for carcinogenic effects.

EPA (EPA, 1992) recognizes that dermal contact exposure remains the least well understood of the major exposure routes. Chemical-specific data are often not available and dose-response relationships specific to dermal contact are not available. EPA (EPA, 1992) provides guidance on assessment of dermal exposure, including determination of permeability coefficients and other related parameters.

In addition to the equations presented above for absorbed dose via steady-state dermal exposure, EPA (EPA, 1992) presents methods for calculation of absorbed doses for unsteady-state exposure; these methods generally produce lower estimates of absorbed dose. The document also presents a screening process for determining if site-specific calculations of dermal exposure are necessary, assuming that dermal exposure is deemed a potentially valid route of contaminant exposure. In general, SNL,NM ER will use the latest guidance available from EPA on dermal exposure. This is an area where discussions with EPA/NMED staff on appropriate assumptions and parameter values is essential. Discussions with EPA/NMED staff are also necessary to determine when this exposure route should be invoked.

Radionuclides

Radionuclide Carcinogenic Effects from Water: Residential
Scenario: A worker drinks radioactively-contaminated water and inhales vapor from the water.

Total risk = (C_{rw} x SF_o x IR_w x EF x ED) + (C_{rw} x SF_i x IR_{air} x K x EF x ED)

C_{rw} = radionuclide concentration in water (pCi/L);
SF_i = inhalation slope factor (risk/pCi);
SF_o = oral (ingestion) slope factor (risk/pCi);
EF = exposure frequency (d/y);
ED = exposure duration (y);
IR_{air} = indoor inhalation rate (m^3/d);
IR_w = water ingestion rate (L/d);
K = volatilization factor (unit-less).

Parameter	Units	Point Value	Justification
C_{rw}	pCi/L	site-specific	
SF_i	risk/pCi	radionuclide-specific	
SF_o	risk/pCi	radionuclide-specific	
EF	d/y	350	RAGS (EPA, 1989a)
ED	y	30	Reasonable worst-case estimate.
IR_{air}	m^3/d	15	RAGS (EPA, 1989a)
IR_w	L/d	2	Reasonable worst-case estimate.
K	unit-less	0.5	RAGS (EPA, 1989a)

Radionuclide Carcinogenic Effects from Soil: Industrial

Scenario: A worker inadvertently ingests soil, inhales vapor and particulates from soil and is externally exposed to penetrating radiation ground surfaces contaminated with photon-emitting radionuclides.

Total risk = C_{rs} x ED x [(SF_o x 10^{-3}g/mg x EF x IR_{soil}) + (SF_i x 10^3g/kg x EF x IR_{air} /VF) + (SF_i x 10^3g/kg x EF x IR_{air} /PEF) + (SF_e x 10^3g/kg x D x SD x (1-S_e)x T_e)]

- C_{rs} = radionuclide concentration (pCi/g);
- SF_i = inhalation slope factor (risk/pCi);
- SF_o = oral (ingestion) slope factor (risk/pCi);
- SF_e = external exposure slope factor (risk/y per pCi/m^2);
- EF = exposure frequency (d/y);
- ED = exposure duration (y);
- IR_{air} = inhalation rate (m^3/d);
- IR_{soil} = soil ingestion rate (mg/d);
- VF = soil-to-air volatilization factor (m^3/kg);
- PEF = particulate emission factor (m^3/kg);
- D = depth of radionuclides in soil (m);
- SD = soil density (kg/m^3);
- S_e = gamma shielding factor (unit-less);
- T_e = gamma exposure factor (unit-less).

Parameter	Units	Point Value	Justification
C_r	pCi/g	site-specific	
SF_i	risk/pCi	radionuclide-specific	
SF_o	risk/pCi	radionuclide-specific	
SF_e	risk/y per pCi/m^2	radionuclide-specific	
EF	d/y	250	RAGS (EPA, 1989a)
ED	y	30	Reasonable worst-case estimate.
IR_{air}	m^3/d	20	RAGS (EPA, 1989a)
IR_{soil}	mg/d	100	Reasonable worst-case estimate.
VF	m^3/kg	nuclide-specific	
PEF	m^3/kg	6.79 x 10^8	Region VI guidance.
D	m	0.1	RAGS (EPA, 1989a)
SD	kg/m^3	1430	RAGS (EPA, 1989a)
S_e	unit-less	0.2	RAGS (EPA, 1989a)
T_e	unit-less	1	RAGS (EPA, 1989a)

SUMMARY

SNL,NM has proposed the described default exposure routes and parameter values for use in risk assessments at sites that have an industrial future land-use scenario. The parameter values are based on EPA guidance where available and supplemented by information from other government sources. The values are generally consistent with those proposed by Los Alamos National Laboratory, with a few minor variations. If these exposure routes and parameters are acceptable, SNL,NM will use them in risk assessments for all sites where the assumptions are consistent with site-specific conditions. All deviations will be documented.

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