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ENVIRONMENTAL RESTORATION PROGRAM

# OPERABLE UNIT 9
# BACKGROUND SOILS INVESTIGATION
# SOIL CHEMISTRY REPORT

## MOUND PLANT
## MIAMISBURG, OHIO

September 1994

U.S. DEPARTMENT OF ENERGY
ALBUQUERQUE OPERATIONS OFFICE

ENVIRONMENTAL RESTORATION PROGRAM
EG&G MOUND APPLIED TECHNOLOGIES

## TECHNICAL MEMORANDUM
## (REVISION 2)

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## LIST OF ACRONYMS

| | |
|---|---|
| AEC | Atomic Energy Commission |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| CLP | Contract Laboratory Program |
| COC | Chain-of-Custody |
| DCB | Decachlorobiphenyl |
| DCQAP | Data Collection Quality Assurance Plan |
| DOD | Department of Defense |
| DOE | Department of Energy |
| ER | Environmental Restoration |
| FEMP | Fernald Environmental Management Project |
| FFA | Federal Facility Agreement |
| FSM | Field Sample Manager |
| FSP | Field Sampling Plan |
| GPS | Global Positioning System |
| ICP | Inductively Coupled Plasma |
| IDL | Instrument Detection Limit |
| IT | International Technologies |
| LCS | Laboratory Control Samples |
| MAT | Mound Applied Technologies |
| MOD | Modification |
| MSA | Method of Standard Addition |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| NAD | North American Datum |
| NAVD | North American Vertical Datum |
| NGRS | National Geodetic Reference System |
| NGS | National Geodetic Survey |
| NPL | National Priorities List |
| OU | Operable Unit |
| OUPS | Ohio Utilities Protection Service |
| OEPA | Ohio Environmental Protection Agency |
| PCBs | Polychlorinated Biphenyls |
| PE | Performance Evaluation |
| ppb | parts per billion |
| QA/QC | Quality Assurance/Quality Control |

| | |
|---|---|
| QA | Quality Assurance |
| QAM | Quality Assurance Manager |
| QAPP | Quality Assurance Project Plan |
| QC | Quality Control |
| QCC | Quality Control Checks |
| RASCA | Remedial Action Survey and Certification Activities |
| RCRA | Resource Conservation and Recovery Act |
| RI/FS | Remedial Investigation/Feasibility Study |
| RPD | Relative Percent Difference |
| RSD | Relative Standard Deviation |
| SAIC | Science Application International Corporation |
| SARA | Superfund Amendments and Reauthorization Act |
| SCS | Soil Conservation Service |
| SDCA | Sample Document Control Administration |
| SHSC | Site Health and Safety Coordinator |
| SI | Site Investigation |
| SOPs | Standard Operating Procedures |
| SOW | Statement of Work |
| SVOC | Semi-Volatile Organic Compound |
| SWWP | Site-Wide Work Plan |
| TAL | Target Analyte List |
| TCL | Target Compound List |
| TCMX | Tetra-chloro-m-xylene |
| TOC | Total Organic Carbon |
| TPH | Total Petroleum Hydrocarbons |
| UC | University of Cincinnati |
| UMTRAP | Uranium Mill Tailings Remedial Action Program |
| USEPA | United States Environmental Protection Agency |
| USCS | Unified Soil Classification System |
| USGS | United States Geological Survey |
| VOA | Volatile Organic Analysis |
| VOC | Volatile Organic Compound |
| WESTON | Roy F. Weston, Inc. |
| WP | Work Plan |
| WPAFB | Wright Patterson Air Force Base |

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# EXECUTIVE SUMMARY

# EXECUTIVE SUMMARY

## ES.1 INTRODUCTION

Operable Unit (OU) 9 is designated for site-wide studies that provide the framework for the remedial investigation/feasibility study (RI/FS). The OU 9 Work Plan (DOE 1992a) and Quality Assurance Program Plan (QAPP) (DOE 1993) cover investigations that are best conducted for the entire Mound Plant and its regional setting.

"Background" is defined as the concentration of chemicals in the soil from any cause except activity at the Mound Plant. Background includes both the natural presence of chemicals and the presence of chemicals due to human activity. Examples of human activities that would explain the presence of chemicals include farming, manufacturing, utility operation (e.g., electric power generation), and transportation (e.g., automobile, train, and airplane use).

This report presents the results of sampling and analysis of background soil locations for soil types that exist within 1 mile of Mound Plant. Soils were analyzed for metals, pesticides, and polychlorinated biphenyls (PCBs), and radionuclides. This report presents the raw analytical results and summary statistics calculated from the raw results. The statistical calculations include a maximum background concentration of each chemical represented by a 95% tolerance limit.

This number will be used to calculate any risk from these same chemicals as measured in soils on the Mound Plant Site. If chemical concentration levels measured on the Mound Plant Site are less than background concentration levels, it will be assumed that there is no additional risk from the Mound Plant. If chemical concentrations on the site are greater than background concentrations, the additional risk will be calculated from the measured concentration minus the maximum background concentration at the 95% tolerance limit.

The background study was conceived as a two-phase investigation. The first phase characterizes soil chemistry in soil types identical to those known at the Mound Plant. Possible contamination from the Mound Plant could have theoretically occurred at the Phase I locations if airborne contaminants were transported from the Mound Plant to the Phase I locations. However, the Phase I results show that this has not occurred.

A Regional Soils investigation for the Mound Plant is currently in progress (March 1994). This investigation will characterize chemical and radionuclide concentrations in soil from the Mound Plant

fenceline to a distance of 100,000 feet along 16 separate compass vectors. The objective of the investigation is to identify the zone of influence of any airborne deposition from the Mound Plant. Phase II background locations will then be chosen beyond any zone of influence.

## ES.2 SAMPLING OBJECTIVES

Once the Regional Soils Investigation data are available, the Phase I Background Soils Investigation and the Regional Soils Investigation data can be reviewed concurrently to decide whether the Phase II Background Soils Investigation will be required. The initial objective of the Background Soils Investigation is to sample and analyze soils with similar original chemistry as those soils found at Mound, and to perform statistical tests to establish the variability of background concentrations with respect to depth and soil type. A different location was sampled for each of the 16 soil types (Figure ES.1). The United States Department of Agriculture (USDA) Soil Survey Manual for Montgomery County (SCS 1976) was the primary reference used to identify different soil series in the vicinity of the Mound Plant. Eight soil series representing 16 mapping units were identified on Mound Plant property. Three surface and three subsurface soil samples were collected at each of the 16 locations for a total of 96 investigative samples. Analysis of these samples yielded initial data concerning the naturally-occurring chemical compositions of soils at Mound Plant. Decisions concerning the acceptance of background concentrations will require concurrent evaluation of these results and Regional Soils Investigative results.

## ES.3 ANALYTICAL RESULTS AND STATISTICS

Statistical analyses were performed to calculate background concentrations with respect to depth and soil type. Tabulated analytical results are provided for every soil sample and parameter. Descriptive statistics were then completed to identify statistical outliers within the sample set. The descriptive statistics include:

- Distribution type (normal, log normal or nonparametric).
- Arithmetic means, geometric means, and standard deviations.
- Sample medians.
- Coefficient of variation.
- 95% mean confidence interval.
- 95% sample tolerance limit.

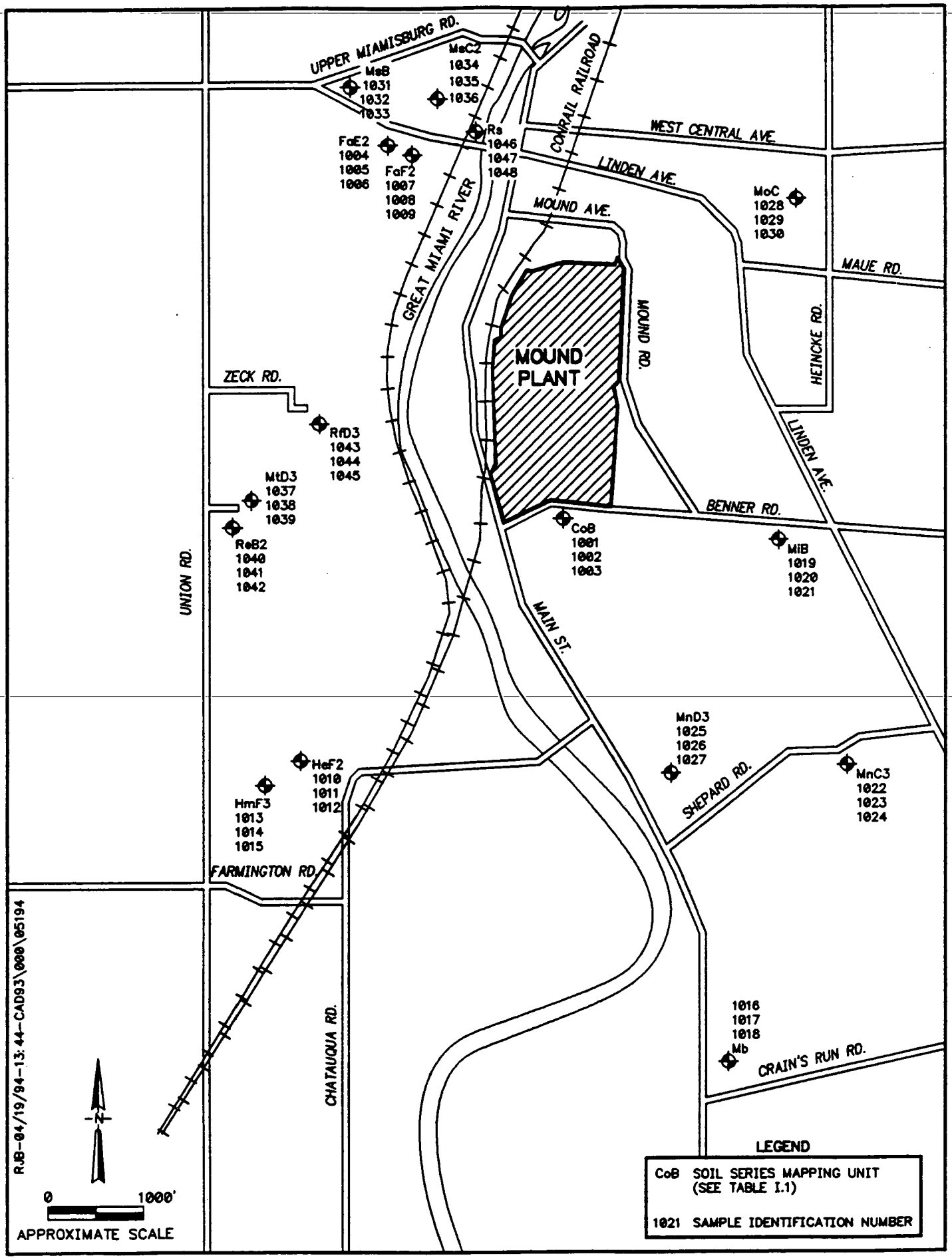



**FIGURE ES.1 Background Soil Sample Locations**

Individual parameter results are reviewed in combination with the statistical results to determine the distribution of background concentrations with respect to depth, chemistry, and soil type. This report describes the distribution of each parameter on an individual basis.

## ES.4 CONCLUSIONS AND RECOMMENDATIONS

The results of the Phase I background investigation were compared to several other local, regional, and national studies as appropriate to verify Mound Plant background concentrations as reasonable. The chemical concentrations measured in this study are less than and consistent with chemical concentrations measured in the other comparable studies with the exception of plutonium-238 and thorium-230. Therefore, it is concluded that Phase I locations have apparently not been contaminated by the Mound Plant.

"Background" chemical concentrations include chemicals from human sources. This study shows a human source for chemicals within the Mound background study area; specifically, the occurrence of pesticides. These effects are consistent with other background soil investigations. Constituent concentrations measured during this investigation reflect natural conditions, including amounts resulting from atmospheric deposition in the Dayton-Miamisburg area. Therefore, these concentrations typify contemporary background soil conditions. It is recommended that Phase II background investigations not include TAL metals.

The several radionuclides measured in the Phase I Investigation are generally comparable to measurements from other background soil studies. Plutonium-238 occurs at some locations at concentrations greater than the apparent background levels reported from a previous Mound study (DOE 1991). It is recommended that the plutonium-238 background levels be reevaluated after the completion of the Regional Soils Investigation in February 1995.

The concentration of thorium-230 in soil type MoC is greater than the concentration of thorium-230 in the other 15 soil types sampled. In that single soil type (MoC), the thorium-230 concentration exceeds the apparent background. To confirm or refute the possible influence of Mound Plant, it is recommended that additional background samples be collected from this soil type and analyzed for thorium-230 during the current Regional Soils Investigation (March 1994) or the Phase II Background Soils Investigation (1995).

The OU 9 QAPP contains the procedures for the quality control of chemical and radionuclide analyses. The QAPP requires data validation independent from the analytical laboratories. The results of the data validation are that the analytical data are qualified.

The data validators rejected all of the results for antimony because of a laboratory quality control problem (low matrix spike recovery). Based on historical records of waste management at Mound Plant (DOE 1992), antimony existed only as a trace impurity in other materials. Therefore, the definition of antimony background concentrations is not an immediate need compared to other materials used in greater quantities. It is recommended that additional background sampling and analysis for antimony be completed on a low-priority basis during the Phase II Background Soils Investigation.

Some of the individual chemicals had nonparametric distributions (i.e., part of their population statistics cannot be calculated). For some chemicals, the distribution is nonparametric because the chemical was detected in relatively few (less than 10) of the 48 surface or 48 subsurface samples analyzed. It is important that all of the pesticides and PCBs were nonparametric. It is recommended that the chemicals classified as nonparametric should be reevaluated after completion of the Regional Soils Investigation (February 1995). A reevaluation could include (a) augmenting the Mound data with other suitable background studies, (b) collecting additional samples only for those analyses, or (c) an alternative approach.

In summary, the following recommendations are made:

(1) It is recommended that TAL metals <u>not</u> be included in the Phase II Background Soils Investigation analyses.

(2) It is recommended that the plutonium-238 background be reevaluated after the completion of the Regional Soils Investigation.

(3) It is recommended that additional background samples be collected from the MoC soil type and analyzed for thorium-230.

(4) It is recommended that additional background sampling for antimony be evaluated during the design of the Phase II Background Soils Investigation.

(5) It is recommended that the constituents classified as nonparametric be reevaluated. A reevaluation could include (a) augmenting the Mound data with other suitable background studies, (b) collecting additional samples only for those analyses, or (c) an alternative approach.

# SECTION 1

# SECTION 1
# INTRODUCTION

EG&G Mound Applied Technologies operates the Mound Plant in Miamisburg, Ohio (Figure 1.1) for the U.S. Department of Energy (DOE). The plant is an integrated research, development, and production facility that began operation in 1949 in support of the DOE weapons and energy programs (DOE 1993b)

The Mound Plant was placed on the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA, also known as Superfund) National Priorities List (NPL) on November 21, 1989 (54 Federal Register 48184). The facility was added to the NPL as a consequence of historic disposal practices and releases of contaminants to the environment. Pursuant to its NPL status, the DOE signed a CERCLA Section 120 Federal Facility Agreement (FFA) with the U.S. Environmental Protection Agency (EPA) that became effective October 11 1990, (Administrative Docket #VW-'90-C-075). The Ohio EPA (OEPA) became a signatory to the agreement in July 1993. The terms of the FFA require that the DOE develop and implement remedial investigations (RIs) and feasibility studies (FSs), and conduct interim remedial actions to ensure that environmental impacts associated with past and present activities at the site are thoroughly investigated and appropriate action is taken to protect the public health, welfare, and the environment.

Due to the number of potential release sites (more than 300) and the overall complexity of the RI/FS, the Site was divided into nine operable units (OUs) to facilitate program management (DOE 1992a). Three OUs have been closed and the sites reassigned; currently, six OUs remain open. OU 9 is designated for site-wide studies that provide the framework for the RI/FS. OU 9 includes investigations best conducted for the entire Mound Plant and its regional setting. As described in the OU 9 Site-Wide Work Plan (DOE 1992a), the Background Soils Investigation and subsequent sampling will be used to establish basic static soil matrix conditions for the naturally-occurring soil types found at the Mound Plant Site. Determination of these background characteristics for the Site is important for general assessment of contaminant fate, transport, and attenuation; design of remedial actions; and the baseline risk assessment.

The Background Soils Investigation is phased to optimize the selection of future background locations. The first phase consists of the collection of samples from 16 soil series mapping units (Table I.1). Results from these analysis and the pending Regional Soil Investigation (described in the Site-Wide Work Plan (SWWP), Subsection 8.3.1) will be used to select possible locations for the Phase II Background Soils Investigation.

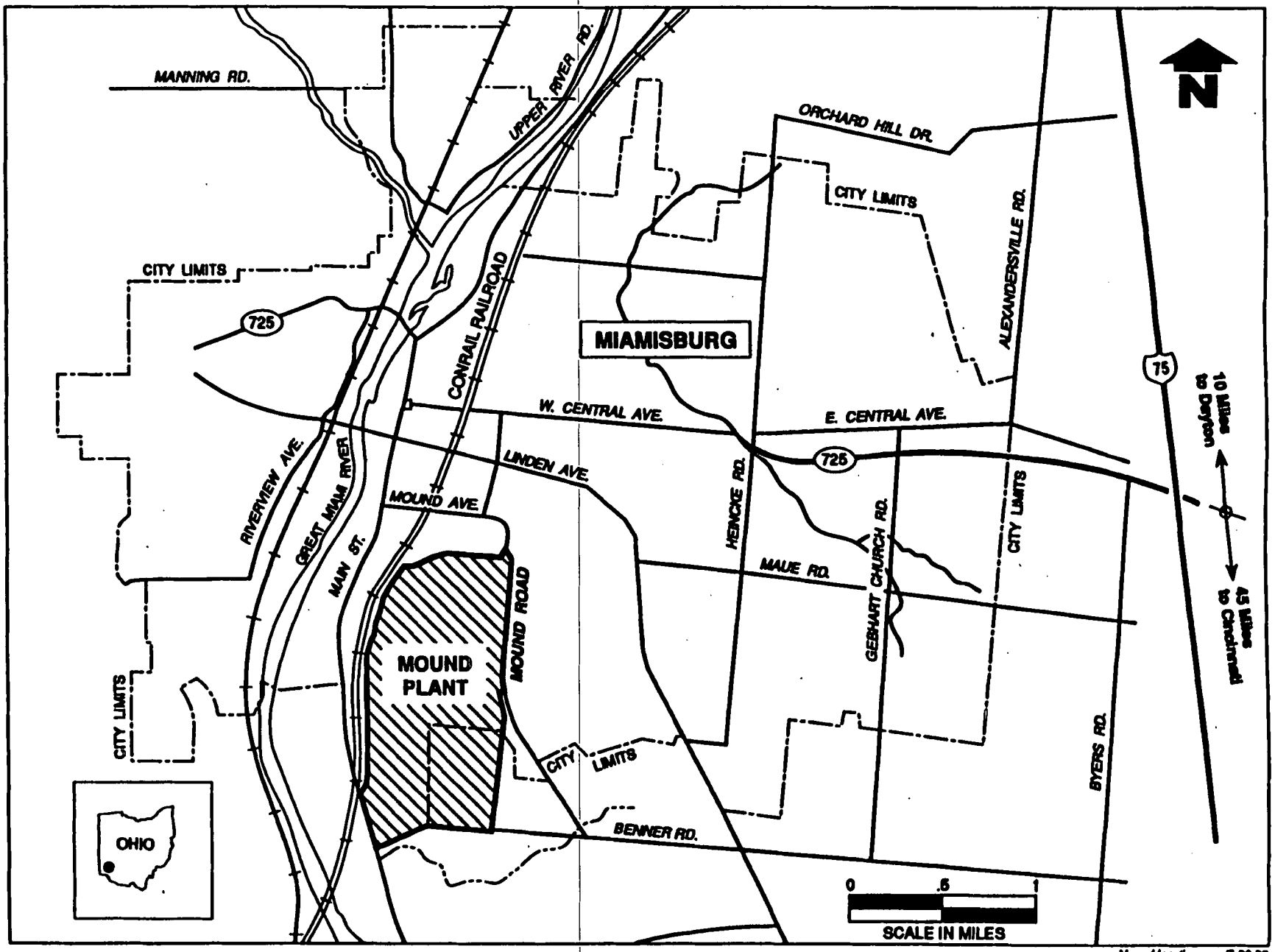



FIGURE 1.1 Location of Mound Plant, Miamisburg, Ohio

**Table I.1 Soil Mapping Unit Symbols**

| Symbol | Mapping Unit |
|---|---|
| CoB | Corwin silt loam, 2 to 6% slopes |
| FaE2 | Fairmont silty clay loam, 12 to 15% slopes, moderately eroded |
| FaF2 | Fairmont silty clay loam, 25 to 50% slopes |
| HeF2 | Hennepin and Miamian silt loam, 18 to 25% slope, moderately eroded |
| HmF3 | Hennepin and Miamian soils, 18 to 50% slopes, severely eroded |
| MlB | Miamian silt loam, 2 to 6% slopes |
| MnC3 | Miamian silt loam, 6 to 12% slopes, severely eroded |
| MnD3 | Miamian silt loam, 12 to 18% slopes, severely eroded |
| MoC | Miamian-Urban Land Complex |
| MtD3 | Milton silty clay loam, 6 to 18% slopes, severely eroded |
| MsB | Milton silt loam, 2 to 6% slopes |
| MsC2 | Milton silt loam, 6 to 12% slopes, moderately eroded |
| Mb | Made land |
| Reb2 | Ritchey silt loam, 2 to 6% slopes, moderately eroded |
| RfD3 | Ritchey silty clay loam, 6 to 18% slopes |
| Rs | Ross silt loam |
| Um | Urban land |

## 1.1 SCOPE OF REPORT

This report presents analytical and statistical data for the assessment of naturally-occurring and human-influenced background concentrations of organic chemicals, metals (inorganic), and radionuclides in soil series mapping units that exist within a 1-mile radius of the Mound Plant Site. The soil series mapping units that are sampled are similar to the soil types found on the Mound Plant Site.

Section 2 presents the methods used to complete the Background Soils Investigation. Methods include field sampling, sample handling, and soil description for each soil mapping unit. Soil description data combined with the results of a Global Positioning System (GPS) survey verify sample locations within a specific mapping unit.

Section 3 describes the laboratory program. This section includes the quality control (QC) procedures implemented to ensure and measure the quality of the analytical data generated during the OU 9 Background Soils Investigation.

Section 4 summarizes the data assessment results. This section presents the results of quality control checks (QCCs) for each target analyte group and discusses the impact on data usability of those QCCs outside the QAPP-specified criteria.

Section 5 presents the results of the investigation including analytical data and statistical analysis of that data. Tabulated results for each parameter are provided in Appendix H. Statistical analyses of the data for each parameter and depth are also presented in Section 5 and Appendix J. Statistical analysis of the data for each soil series mapping unit and depth is presented in Appendix I.

In Section 6, the results are discussed and compared to results of other background soil investigations completed throughout the United States and specifically the State of Ohio.

Conclusions and recommendations for further work are given in Section 7. Results of this project will need to be reevaluated after the Regional Soils Investigation effort is complete for a more accurate determination of the focus of the Phase II background soils study.

## 1.2 OBJECTIVES

The initial objective of the Background Soils Investigation is valid characterization of chemical and radionuclide concentrations in soil types similar to those found on the Mound Plant Site. This objective is achieved with a precise sampling event and laboratory analyses that provide accurate measurement of soil chemistry parameters for surface and subsurface intervals for each soil mapping unit within the study area. Sixteen soil types were sampled in order to establish chemical variations that may exist in naturally occurring soils. Analyses for volatile and semivolatile organic compounds were not performed, as the Ohio Environmental Protection Agency (OEPA) has determined that background concentrations will be assumed to be zero.

The second objective of this study is to establish an interval estimate of background concentrations for as many constituents as possible using descriptive statistical analyses on the analytical data. Determination of these background concentration ranges is important for general Site assessment of contaminant fate, transport and attenuation, design of remedial actions, and baseline risk assessment. This objective is achieved with an accurate statistical manipulation and review of the analytical data which produce results the Mound Plant ER Program can use as an environmental baseline in the establishment of cleanup levels.

The final objective of this study is to establish the credibility of the results, as well as to determine any outstanding concentrations specific to the Mound Plant Area. This objective is achieved with a comparison of the results to other background studies completed throughout the United States and locally in the State of Ohio.

# SECTION 2

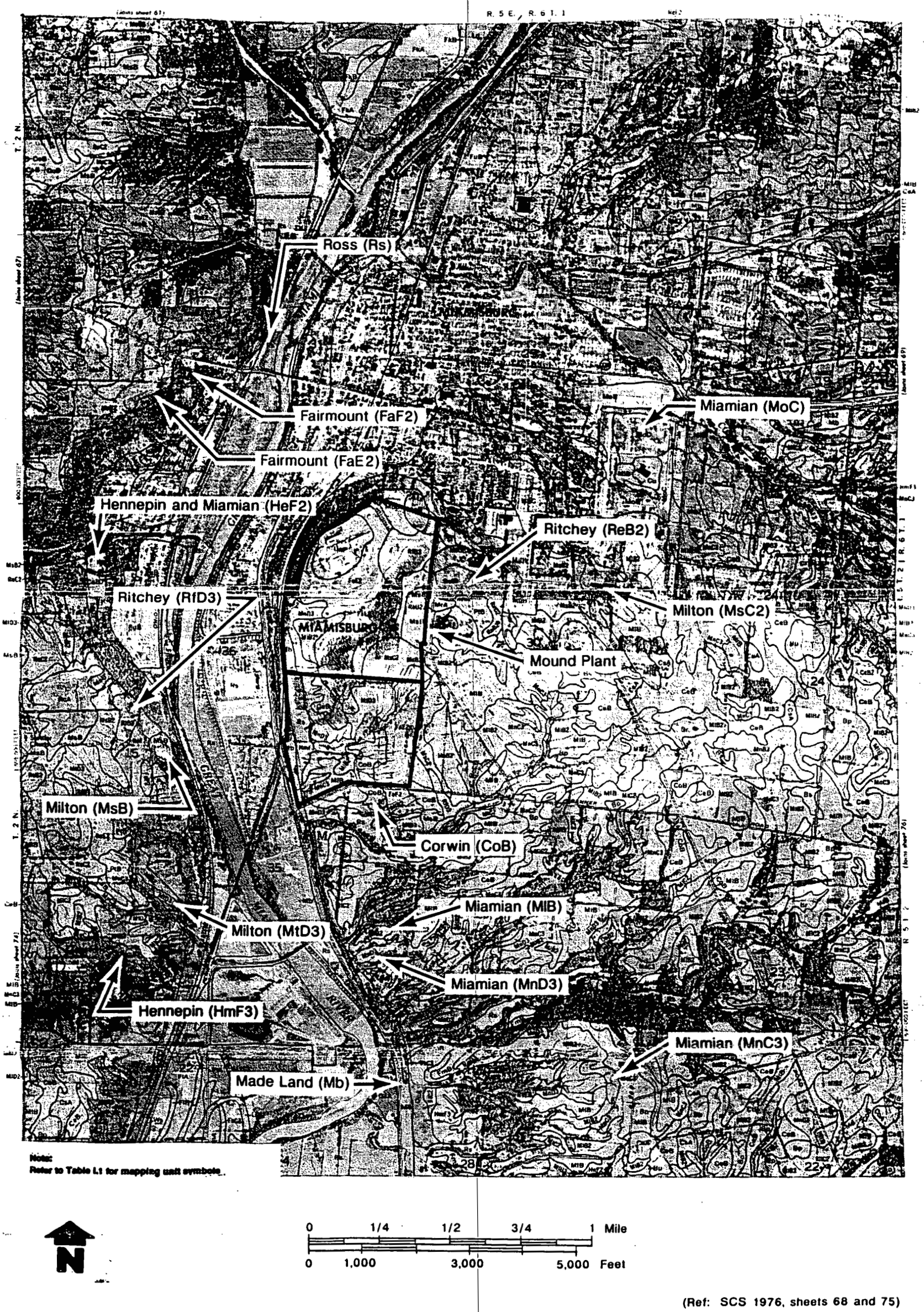
# SECTION 2
# METHODS

## 2.1 SAMPLE LOCATIONS

As part of the OU 9 Background Soils Investigation, 16 locations were sampled from 12 July 1993 to 6 August 1993. Background soil sample locations are based on the U.S. Department of Agriculture (USDA) Montgomery County, Ohio Soil Conservation Service (SCS 1976) soil survey. Figure 2.1 presents an overlay of the soil map index of Montgomery County, Ohio, (USDA SCS 1976). Most of the USDA field work supporting this survey was performed from 1958 through 1967. Soil names and descriptions were approved by the State of Ohio in 1969. The soil survey identifies specific soil series that are defined as mappable soil units of similar morphology, engineering properties, and descriptive characteristics. The soil series need to be analyzed to examine any differences in chemistry.

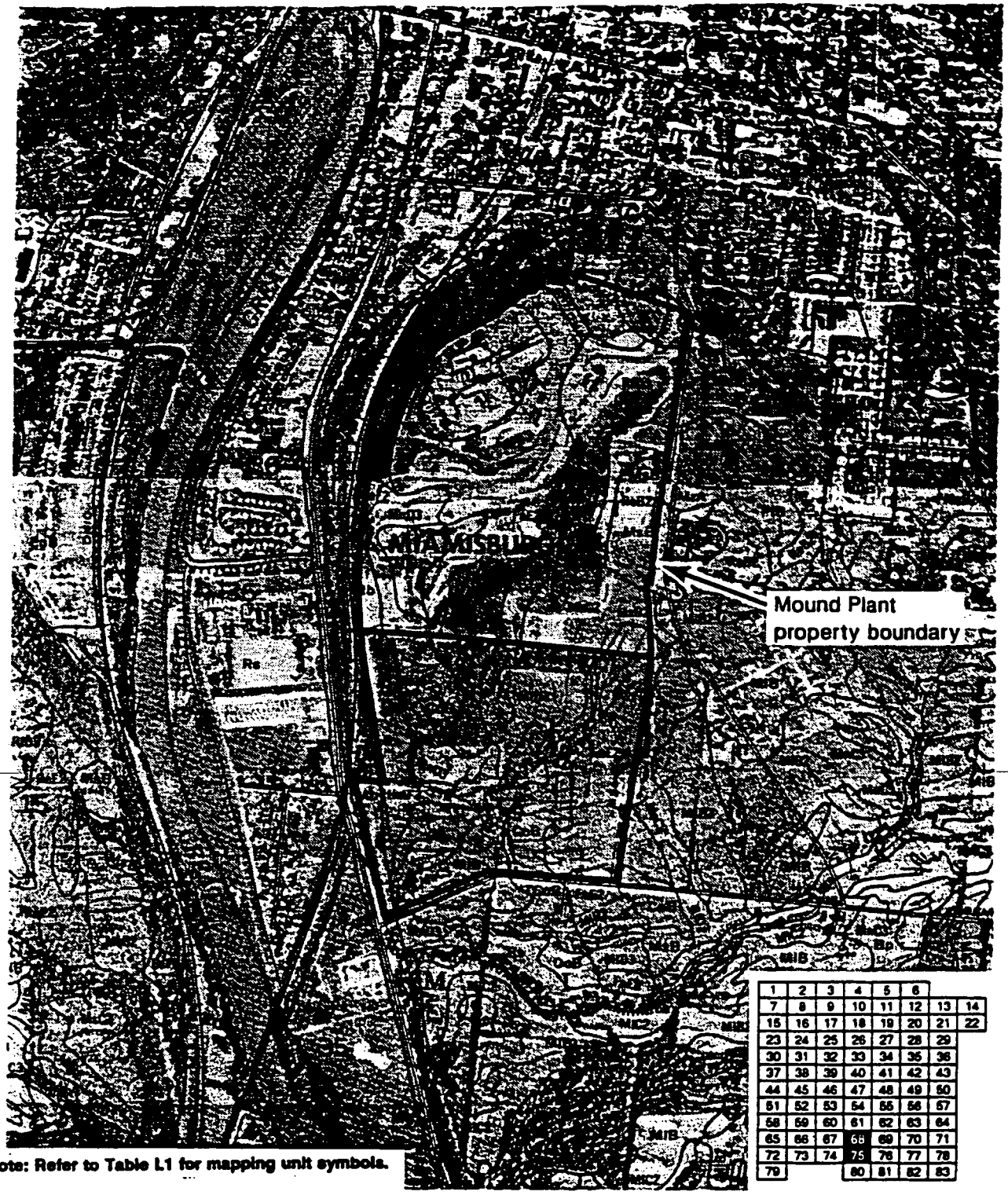
Eight soil series, subdivided into 16 mapping units, have been identified at the Mound Plant (Figure 2.2). The 16 mapping units present on Mound Plant property include the Corwin (CoB), Fairmont (FaE2 and FaF2), Hennepin (HmF3, HeF2), Made Land (Mb), Miamian (MnD3, MnC3, MIB, and MoC), Milton (MsB, MtD3, and MsC2), Ritchey (ReB2, RfD3), and Ross (Rs). An additional soil series is known to occur on the Mound Plant [Urban Land (Um)], but is not included in the Background Soils Investigation because its distribution appears to be limited to the developed Main Hill area of Mound Plant. Appendix A presents additional description of these soil series mapping units. Sample locations for the 16 mapping units were determined off-plant, within the Miamisburg area, at distances less than 1 mile (Figure 2.3). These locations were chosen because of their proximity to the Mound Plant and analytical results from sampling these areas will best represent naturally-occurring soils found on the Mound Plant site. Sampling locations were required to be 50 feet away from roadways, parking lots, or other paved areas; railroad tracks; drainage ditches; heavily forested areas; and crop or garden areas subject to fertilization.

A site visit was made to each soil series mapping unit based on the Montgomery County Soil Survey and the mapping units proximity to the Mound Plant. A sampling location was then chosen within the mapping unit in an area that appeared to be the least disturbed and in a natural state. Before sampling would occur, a project soil scientist would construct a soil profile on a soil description log form. If the soil profile matched the soil series description in the Montgomery County Soil Survey, sampling proceeded. If no match was made, the sampling location was relocated within the mapping unit.




(Ref: SCS 1976, sheets 68 and 75)

FIGURE 2.1 Background Soil Series Mapping Units




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | | |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 | |
| 30 | 31 | 32 | 33 | 34 | 35 | 36 | |
| 37 | 38 | 39 | 40 | 41 | 42 | 43 | |
| 44 | 45 | 46 | 47 | 48 | 49 | 50 | |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | |
| 58 | 59 | 60 | 61 | 62 | 63 | 64 | |
| 65 | 66 | 67 | 68 | 69 | 70 | 71 | |
| 72 | 73 | 74 | 75 | 76 | 77 | 78 | |
| 79 | | | 80 | 81 | 82 | 83 | |

**Note: Refer to Table L1 for mapping unit symbols.**

N

0 1/4 1/2 3/4 1 Mile

0 1,000 3,000 5,000 Feet

**(Ref: SCS 1976, sheets 68 and 75)**

**FIGURE 2.2 Mound Plant Soil Series Mapping Units**

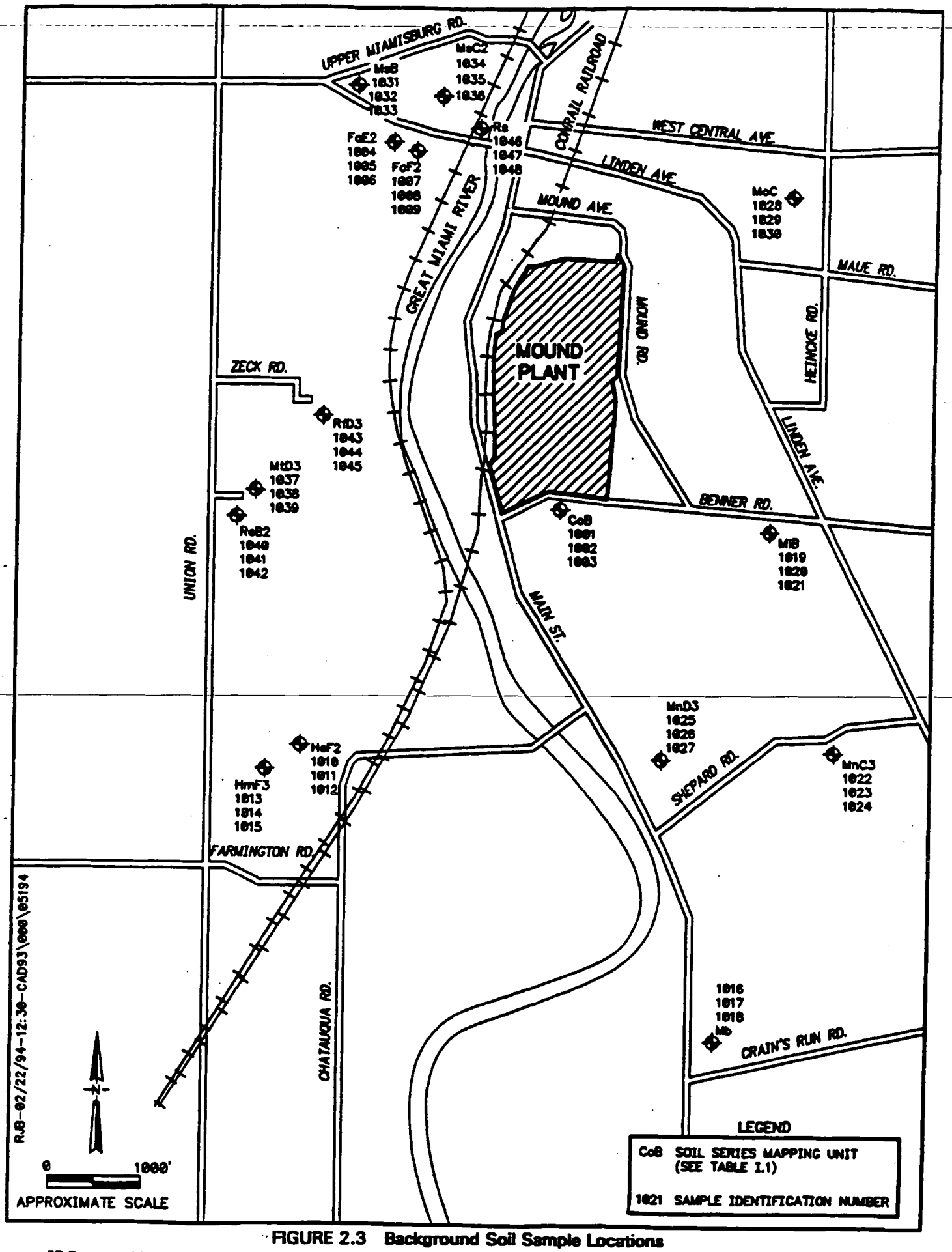



**FIGURE 2.3 Background Soil Sample Locations**

Most property surrounding the Mound Plant site consists of privately-owned land. For access purposes, the property owner was contacted by EG&G via letter and an access agreement was signed and returned to Mound. No property owners who responded to the EG&G letter denied Roy F. Weston, Inc. (WESTON®) access. After access was granted, WESTON made an appointment with the property owner to visit the property so that a sample location could be staked within the soil mapping unit. Subsequently, the Ohio Utilities Protection Services (OUPS) was contacted for utility clearance.

## 2.2 SAMPLING METHODS

Sampling was conducted in accordance with the sample methods identified in the Quality Assurance Project Plan (DOE 1992b) and as revised (DOE 1992d and 1993a). Sampling procedures are outlined in the Background Soils Field Sampling Plan (FSP), and are in accordance with the Mound Plant Environmental Restoration Program Standard Operating Procedures (SOPs 5.1, 5.2, 5.3, and 5.8).

Once a sampling location was established, the sampling team placed three pin flags around the stake in a triangular orientation where no side was greater than 5 feet long. The northernmost flag was designated the first sample number in the group. Going clockwise around the stake, the southeastern flag was designated the second sample number and the southwestern flag was designated the third sample number.

The sampling equipment used during the Background Soils Investigation consisted of stainless steel hand augers (4-inch diameter), stainless steel bowls, and stainless steel scoops and spade. The sampling procedures include removal of the top vegetation layer of a sample location with a stainless steel scoop or spade. Once this layer was removed, a composite soil sample was collected from 0 to 0.5 feet with a hand auger.

The hand auger used for the first interval was used to bore to approximately the top of the lower soil sampling interval. The hand auger was then decontaminated, or a previously decontaminated auger was then used to advance to and sample the lower interval (1.5 to 2.0 feet). In several cases where the soil unit was developed over or contained limestone or shale cobbles/boulders, a spade was used to widen the auger borings sufficiently to enable the boring to continue to the side of any obstruction. If these efforts failed and an interval of 1.5 to 2.0 feet could not be reached due to proximity of bedrock to the surface, the subsurface interval sample was collected at a shallower depth (Table II.1).

**Table II.1 Sample Designation**

| Sample Identification | Soil Series | Mapping Unit | Location | Sample Depth (ft) |
|---|---|---|---|---|
| MND28-1001-0001 | Corwin | CoB | South of Mound Plant | 0-0.5 |
| MND28-1001-0002 | | | | 1.0-1.5 |
| MND28-1002-0001 | | | | 0-0.5 |
| MND28-1002-0002 | | | | 1.0-1.5 |
| MND28-1003-0001 | | | | 0-0.5 |
| MND28-1003-0002 | | | | 1.0-1.5 |
| MND28-1004-0001 | Fairmont | FaE2 | Northwest of Mound Plant | 0-0.5 |
| MND28-1004-0002 | | | | 1.5-2.0 |
| MND28-1005-0001 | | | | 0-0.5 |
| MND28-1005-0002 | | | | 1.0-1.5 |
| MND28-1006-0001 | | | | 0-0.5 |
| MND28-1006-0002 | | | | 0.5-1.0 |
| MND28-1007-0001 | | FaF2 | Northwest of Mound Plant | 0-0.5 |
| MND28-1007-0002 | | | | 0.5-1.0 |
| MND28-1008-0001 | | | | 0-0.5 |
| MND28-1008-0002 | | | | 0.5-1.0 |
| MND28-1009-0001 | | | | 0-0.5 |
| MND28-1009-0002 | | | | 0.5-1.0 |
| MND28-1010-0001 | Hennepin | HeF2 | Southwest of Mound Plant | 0-0.5 |
| MND28-1010-0002 | | | | 1.5-1.8 |
| MND28-1011-0001 | | | | 0-0.5 |
| MND28-1011-0002 | | | | 1.5-1.9 |
| MND28-1012-0001 | | | | 0-0.5 |
| MND28-1012-0002 | | | | 1.5-2.0 |
| MND28-1013-0001 | | HmF3 | Southwest of Mound Plant | 0-0.5 |
| MND28-1013-0002 | | | | 1.0-1.5 |
| MND28-1014-0001 | | | | 0-0.5 |
| MND28-1014-0002 | | | | 1.0-1.5 |
| MND28-1015-0001 | | | | 0-0.5 |
| MND28-1015-0002 | | | | 0.8-1.5 |
| MND28-1016-0001 | Made Land | Mb | South of Mound Plant | 0-0.5 |
| MND28-1016-0002 | | | | 0.5-1.0 |
| MND28-1017-0001 | | | | 0-0.5 |
| MND28-1017-0002 | | | | 0.5-1.0 |
| MND28-1018-0001 | | | | 0-0.5 |
| MND28-1018-0002 | | | | 0.5-1.0 |

**Table II.1 Sample Designation**
**(Continued)**

| Sample Identification | Soil Series | Mapping Unit | Location | Sample Depth (ft) |
|---|---|---|---|---|
| MND28-1019-0001 | Miamian | MIB | Southeast of Mound Plant | 0-0.5 |
| MND28-1019-0002 | | | | 1.5-2.0 |
| MND28-1020-0001 | | | | 0-0.5 |
| MND28-1020-0002 | | | | 1.5-2.0 |
| MND28-1021-0001 | | | | 0-0.5 |
| MND28-1021-0002 | | | | 1.5-2.0 |
| MND28-1022-0001 | | MnC3 | Southeast of Mound Plant | 0-0.5 |
| MND28-1022-0002 | | | | 1.5-2.0 |
| MND28-1023-0001 | | | | 0-0.5 |
| MND28-1023-0002 | | | | 1.5-2.0 |
| MND28-1024-0001 | | | | 0-0.5 |
| MND28-1024-0002 | | | | 1.5-2.0 |
| MND28-1025-0001 | | MnD3 | South of Mound Plant | 0-0.5 |
| MND28-1025-0002 | | | | 1.5-1.8 |
| MND28-1026-0001 | | | | 0-0.5 |
| MND28-1026-0002 | | | | 1.5-1.8 |
| MND28-1027-0001 | | | | 0-0.5 |
| MND28-1027-0002 | | | | 1.5-1.8 |
| MND28-1028-0001 | | MoC | Northeast of Mound Plant | 0-0.5 |
| MND28-1028-0002 | | | | 1.5-2.0 |
| MND28-1029-0001 | | | | 0-0.5 |
| MND28-1029-0002 | | | | 1.5-2.0 |
| MND28-1030-0001 | | | | 0-0.5 |
| MND28-1030-0002 | | | | 1.5-2.0 |
| MND28-1031-0001 | Milton | MsB | Northwest of Mound Plant | 0-0.5 |
| MND28-1031-0002 | | | | 1.5-2.0 |
| MND28-1032-0001 | | | | 0-0.5 |
| MND28-1032-0002 | | | | 1.5-2.0 |
| MND28-1033-0001 | | | | 0-0.5 |
| MND28-1033-0002 | | | | 1.5-2.0 |
| MND28-1034-0001 | | MsC2 | Northwest of Mound Plant | 0-0.5 |
| MND28-1034-0002 | | | | 0.7-1.0 |
| MND28-1035-0001 | | | | 0-0.5 |
| MND28-1035-0002 | | | | 0.5-0.9 |
| MND28-1036-0001 | | | | 0-0.5 |
| MND28-1036-0002 | | | | 0.5-0.9 |

**Table II.1 Sample Designation**
**(Continued)**

| Sample Identification | Soil Series | Mapping Unit | Location | Sample Depth (ft) |
|---|---|---|---|---|
| MND28-1037-0001 | Milton (cont.) | MtD3 | West of Mound Plant | 0-0.5 |
| MND28-1037-0002 | | | | 1.5-2.0 |
| MND28-1038-0001 | | | | 0-0.5 |
| MND28-1038-0002 | | | | 1.5-2.0 |
| MND28-1039-0001 | | | | 0-0.5 |
| MND28-1039-0002 | | | | 1.5-2.0 |
| MND28-1040-0001 | Ritchey | ReB2 | West of Mound Plant | 0-0.5 |
| MND28-1040-0002 | | | | 1.5-2.0 |
| MND28-1041-0001 | | | | 0-0.5 |
| MND28-1041-0002 | | | | 1.5-2.0 |
| MND28-1042-0001 | | | | 0-0.5 |
| MND28-1042-0002 | | | | 1.5-2.0 |
| MND28-1043-0001 | | RfD3 | West of Mound Plant | 0-0.5 |
| MND28-1043-0002 | | | | 0.5-1.0 |
| MND28-1044-0001 | | | | 0-0.5 |
| MND28-1044-0002 | | | | 0.5-1.0 |
| MND28-1045-0001 | | | | 0-0.5 |
| MND28-1045-0002 | | | | 0.5-1.0 |
| MND28-1046-0001 | Ross | Rs | North of Mound Plant | 0-0.5 |
| MND28-1046-0002 | | | | 1.5-2.0 |
| MND28-1047-0001 | | | | 0-0.5 |
| MND28-1047-0002 | | | | 1.5-2.0 |
| MND28-1048-0001 | | | | 0-0.5 |
| MND28-1048-0002 | | | | 1.5-2.0 |

The soil profile was examined and described by a project soil scientist. The soil scientist described and classified the profile based on color (Munsell Soil Color Charts), texture, fragment content, horizon boundary, and depth from land surface. All field observations were recorded on soil description logs. Copies of the soil description logs are presented in Appendix B.

Immediately after homogenizing the soil samples in a stainless steel bowl, the samples were packaged in sample bottles and labelled appropriately. All sample containers were cleaned and certified as clean by the manufacturer according to EPA standards. The container manufacturer's statement of certification and analytical results accompanied each sample container lot, and are on file with WESTON.

Upon collection of the soil samples, the final sample locations were horizontally measured from two permanent objects and documented on a field map. Commercial topsoil was used to fill sample holes to the surface. Stakes and pinflags were removed from the property after sampling and 9-inch marking pins were placed flush into the sample locations so they could be located and surveyed at a later date. Pins were removed following surveying efforts.

## 2.3 SAMPLE HANDLING AND ANALYSIS

Soil samples were processed according to the handling procedures described in the OU 9 Site-Wide Work Plan and the Mound Plant ER Program SOPs. A sample log was completed listing all soil samples collected with their respective lot number, bottle type, time collected, sampler name, batch number, matrix, cooler number, airbill number, custody seal number, and analytical parameters for each sample location (Appendix C). Sample bottle labels were generated by computer prior to the sampling event for accuracy and QA/QC purposes.

Sample containers were subsequently taped with signed and dated custody seals, placed in individual plastic bags and packed in shipping coolers for shipment to the analytical laboratory. All samples were cooled to 4° Celsius prior to shipment and packed with ice to ensure that the temperature was maintained for the duration of shipment. Coolers were packed with vermiculite to prevent breakage and as insulation.

Samples were transported under full chain-of-custody documentation via Federal Express Priority Overnight Delivery to the specified laboratory. Copies of the completed chain of custody are provided in Appendix D.

Soil samples collected as part of the Background Soils Investigation were analyzed for the chemical parameters and radionuclides shown in Table II.2. Samples analyzed for radionuclides were sent to

**Table II.2 Summary of Analytical Parameters and Holding Times**

| Matrix | Laboratory Parameter | Analytical Method | Container (size/type) | Preservation | Holding Time | Laboratory |
|---|---|---|---|---|---|---|
| Soil | TCL Pesticides/PCBs | CLP SOW | 250-mL wide-mouth amber glass jar, teflon-lined lid | Cool 4°C | 7 days extraction<br>40 days analysis | WESTON Analytics Division |
| | TAL Inorganics<br>Bismuth and Cyanide | CLP SOW Mod A<br>CLP SOW Mod A | 250-mL wide-mouth polyethylene bottle | Cool 4°C | 6 months<br>28 days (mercury)<br>14 days (cyanide) | WESTON Analytics Division |
| | pH | SW 9045 | 40 grams taken from anion bottle | NA | 48 hours | Field Parameter |
| | Total Organic Carbon | E415.1/E415.2 | 125-mL wide-mouth amber glass jar, teflon-lined lid | Cool 4°C | 28 days | WESTON Analytics Division |
| | Fluoride<br>Nitrate/Nitrite<br>Chloride<br>Sulfate | E340.2<br>E353.2<br>SW9250d<br>E375.2 | 500-mL wide-mouth polyethylene bottle | Cool 4°C | 28 days | WESTON Analytics Division |
| | Isotopic Plutonium (238, 239/240)<br>Isotopic Thorium (228, 230, 232)<br>Isotopic Uranium (234/235, 238)<br>Strontium - 90<br>Gamma Spectrometry/Americium | NAS 1965<br>NAS 1960<br>NAS 1962<br>NAS 1960<br>Nuclear Data, Inc. 1986 | 125-mL wide-mouth polyethylene bottle | None | NA | IT Analytical Services |
| | Tritium | E906.0 | 125-mL wide-mouth polyethylene bottle | None | NA | IT Analytical Services |
| | % Moisture | CLP SOW | 40-mL glass vial | Airtight | NA | WESTON Analytics Division |

## Table II.2 Summary of Analytical Parameters and Holding Times (Continued)

| Matrix | Laboratory Parameter | Analytical Method | Container (size/type) | Preservation | Holding Time | Laboratory |
|---|---|---|---|---|---|---|
| Water* | TCL Pesticides/PCBs | CLP SOW | (2) 1-Liter amber glass jar, teflon-lined lid | Cool 4°C | 7 days extraction<br>40 days analysis | WESTON Analytics Division |
| | TAL Inorganics<br>Bismuth | CLP SOW Mod A<br>CLP SOW Mod A | (1) 1-Liter polyethylene bottle | $HNO_3$ to pH <2<br>Cool 4°C | 6 months<br>28 days (mercury) | WESTON Analytics Division |
| | Cyanide | CLP SOW Mod A | (1) 1-Liter polyethylene bottle | NaOH to pH <12<br>Cool 4°C | 14 days | WESTON Analytics Division |
| | Total Organic Carbon | E415.1/E415.2 | (1) 250-mL amber glass bottle, teflon-lined lid | $H_2SO_4$ or HCl to pH <2<br>Cool 4°C | 28 days | WESTON Analytics Division |
| | Fluoride<br>Chloride<br>Sulfate | E340.2<br>SW 9250d<br>E375.s | (1) 500-mL polyethylene bottle | Cool 4°C | 28 days | WESTON Analytics Division |
| | Nitrate/Nitrite | E353.2 | (1) 500-mL polyethylene bottle | $H_2SO_4$ to pH <2<br>Cool 4°C | 28 days | WESTON Analytics Division |
| | Isotopic Plutonium (238, 239/240)<br>Isotopic Thorium (228, 230, 232)<br>Isotopic Uranium (234/235, 238)<br>Strontium - 90<br>Gamma Spectrometry/Americium | NAS 1965<br>NAS 1960<br>NAS 1962<br>NAS 1960<br>Nuclear Data, Inc. 1986 | (2) 4-Liter plastic cubetainers | $HNO_3$ to pH <2<br>(15-mL 1N $HNO_3$ per Liter) | NA | IT Analytical Services |
| | Tritium | E906.0 | (1) 250-mL glass bottle | None | None | IT Analytical Services |

* Water was used as an equipment blank.

CLP - Contract Laboratory Program
SOW - Statement of Work
NAS - National Academy of Sciences
TAL - Target Analyte List
PCB - Polychlorinated Biphenyl
TCL - Target Compound List

Note: Holding times for CLP analytes are based on "Laboratory Data Validation Functional Guidelines for Evaluating Organic Analyses," EPA, February 1988 and "Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses," EPA, July 1988.

International Technologies Analytical Services (IT) of Oak Ridge, Tennessee. Samples analyzed for pesticides/PCBs, inorganics (metals), and anions were shipped to WESTON Analytics Division in Lionville, Pennsylvania. Soil pH was determined in the field within 24 hours of a sampling event by the project soil scientist. The pH results are tabulated in Appendix E.

All sample shipments to WESTON Analytics Division were accompanied by temperature blanks consisting of 40-ml glass vials filled with deionized water. No analyses were performed on the temperature blanks. The only purpose for these vials was to measure the temperature of the cooler upon arrival at the laboratory. No temperature blanks were shipped to IT Analytical Services because there were no temperature requirements for those soil samples to be analyzed for radionuclides.

Equipment decontamination is measured with equipment blanks prepared in the field by rinsing equipment with organic-free deionized water (ASTM Type II quality). The decontaminated hand auger, compositing bowl, and sampling scoop and spade were rinsed and the rinsate was containerized in sample bottles and analyzed. Preservation requirements of equipment blanks are outlined in Table II.2. Ten equipment blanks were collected during the field effort.

Duplicate soil samples were taken every 10 or fewer soil samples collected in the field. Matrix spike (MS) and matrix spike duplicate (MSD) soil samples were collected for every 20 soil samples collected in the field. Sample totals are outlined in Table II.3.

For QA purposes, two sample bottles from every lot number were separated and stored in a sealed container for a possible bottle lot blank. Bottle lot blanks are required if the analytical results indicate that a detected non-Contract Laboratory Program (CLP) analyte may be a result of a bottle contaminant.

## 2.4 GPS SURVEY

Following the completion of background soil sampling a combination of conventional terrestrial and Global Positioning System (GPS) survey was employed to spatially reference the locations of the 16 soil samping sites. The GPS system determined the elevation as well as the longitude and latitude for the center of each soil series mapping unit sample location. A summary of the sampling locations and elevations are presented in Table II.4.

The GPS units used for the survey were a Trimble 4000ST single frequency receivers. Conventional horizontal terrestrial surveys were performed using Wild T-2 theodolite and RED 2A electronic distance

## Table II.3 Sample Specifications

| PHASE I BACKGROUND LOCATIONS NEAR (<1 MILE) MOUND PLANT | |
|---|---|
| **Environmental Samples** | |
| Surface Soil Samples[a] | |
| Number: | 48 (3 at each of 16 locations) |
| Depth: | 0 to 0.5 ft |
| Analytical Parameters: | Analytical Parameter List, plus Molybdenum and Lithium |
| Subsurface Soil Samples | |
| Number: | 48 (3 at each of 16 locations) |
| Depth: | 0.5 to 2.0 ft |
| Analytical Parameters: | Analytical Parameter List, plus Molybdenum and Lithium |
| **Quality Control Samples** | |
| Equipment Rinsate Blanks | |
| Number: | 1 per 10 Geochemical Samples |
| Analytical Parameters: | Analytical Parameter List |
| Field Duplicates | |
| Number: | 1 per 10 Geochemical Samples |
| Analytical Parameters: | Analytical Parameter List |
| Matrix Spike/Matrix Spike Duplicates | |
| Number: | 1 per 20 Geochemical Samples |
| Analytical Parameters: | Analytical Parameter List (double volume for all parameters) |
| **Analytical Parameter List** | |
| TCL Pesticides/PCBs | Isotopic Plutonium (238, 239/240) |
| TAL Inorganics | Isotopic Thorium (228, 230, 232) |
| Bismuth | Isotopic Uranium (234/235, 238) |
| Fluoride | Strontium-90 |
| Total Organic Carbon | Tritium |
| Nitrate/Nitrite | Gamma Spectrometry |
| Chloride | Sulfate |
| pH | |

[a] Surface soil samples were obtained according to Mound Plant ER Program SOP 5.2, Soil Sampling with a Spade and Scoop (Revision 3).

[b] Subsurface soil samples were performed according to Mound Plant ER Program SOP 5.3, Subsurface Solid Sampling with Hand Auger and Thin-Wall Sampler (Revision 2).

PCB - Polychlorinated Biphenyl.
TAL - Target Analyte List.
TCL - Target Compound List.

**Table II.4 GPS Survey Results**

| Soil Unit | Pt. ID | Metric | | | English | | |
|---|---|---|---|---|---|---|---|
| | | North | East | Elevation | North | East | Elevation |
| Corwin (CoB) | 1001 | 181221.87 | 446967.46 | 250.13 | 594558.7 | 1466425.7 | 820.6 |
| Fairmount (FaE2) | 1004 | 183737.18 | 445585.85 | 267.78 | 602811.1 | 1461892.9 | 878.6 |
| Fairmount (FaF2) | 1007 | 183625.91 | 445664.84 | 249.21 | 602446.0 | 1462152.1 | 817.6 |
| Milton (MtD3) | 1010 | 180529.33 | 445563.47 | 226.25 | 592286.6 | 1461819.5 | 742.3 |
| Hennepin (HmF3) | 1013 | 180395.61 | 445290.20 | 246.49 | 591847.9 | 1460922.9 | 808.7 |
| Made Land (Mb) | 1016 | 179113.43 | 446941.12 | 211.98 | 587641.3 | 1466339.3 | 695.5 |
| Miamian (MlB) | 1019 | 181089.12 | 447916.40 | 275.49 | 594123.2 | 1469539.1 | 903.9 |
| Miamian (MnC3) | 1022 | 180528.74 | 447575.69 | 244.41 | 592284.7 | 1468421.3 | 801.9 |
| Miamian (MnD3) | 1025 | 180161.67 | 446764.00 | 219.55 | 591080.4 | 1465758.2 | 720.3 |
| Miamian (MoC) | 1028 | 183170.53 | 448165.25 | 249.58 | 600952.0 | 1470355.5 | 818.8 |
| Milton (MsB) | 1031 | 184048.92 | 445112.96 | 274.42 | 603833.8 | 1460341.4 | 900.3 |
| Milton (MsC2) | 1034 | 183808.85 | 445604.93 | 269.63 | 603046.2 | 1461955.5 | 884.6 |
| Milton (MtD3) | 1037 | 181415.36 | 444972.51 | 274.48 | 595193.6 | 1459880.6 | 900.5 |
| Ritchey (ReB2) | 1040 | 181340.30 | 444750.26 | 270.95 | 594947.3 | 1459151.5 | 888.9 |
| Ritchey (RfD3) | 1043 | 181628.60 | 445430.80 | 256.71 | 595893.2 | 1461384.2 | 842.2 |
| Ross (Rs) | 1046 | 183742.18 | 446097.28 | 210.36 | 602827.5 | 1463570.8 | 690.2 |

Horizontal positions are referenced to North American Datum (NAD) 83, Ohio State Plane Coordinate System.

Vertical positions are referenced to North American Vertical Datum (NAVD) 88.

Metric coordinates and elevation in meters.

English coordinates and elevation in feet.

meters. Differential levelling was performed using a Zeiss NI-2 automatic level with conventional 15-foot wooden level rod.

The horizontal positions in the GPS survey were referenced to the Ohio State Plane coordinate system North American Datum (NAD) 1983. Elevations were referenced to the North American Vertical Datum (NAVD) 1988. Procedures followed were in accordance with the Standards and Specifications for Geodetic Control Networks and the Geometric Geodetic Accuracy Standards and Specifications for using GPS Relative Positioning Techniques.

# SECTION 3

SECTION 3

# SECTION 3
# QUALITY ASSURANCE PROGRAM

The EG&G Mound OU 9 QAPP, Revision 3, June 1993 (OU 9 QAPP) describes both the administrative and quality assurance programs to be implemented during the OU 9 Investigations. The OU 9 QAPP was implemented in accordance with USEPA's QAMS-005/80 (USEPA, 1983), and describes the procedures for obtaining data of a specified quality during the OU 9 Investigations. The following OU 9 program objectives determined the required level of quality for the data:

- Assess the nature and extent of contamination.
- Identify and evaluate the potential threats to human health and the environment.
- Evaluate remedial action alternatives to reduce any contamination to acceptable levels.

The OU 9 QAPP defines two aspects of the Quality Assurance Program for the OU 9 Background Soils Investigation: Quality Control and Quality Assessment. Quality Control (QC) is the system of procedures performed to control the quality of the product, usually with defined standards of performance for those procedures. QC procedures for this program include control checks for field and laboratory measurements with specified acceptance criteria, as well as the applicable corrective actions to be taken in instances of noncompliance.

Quality Assessment (QA) is a program of activities used to evaluate the performance of implemented quality control procedures and the quality of the product. When implemented, QA accomplishes a set of quality objectives. If the quality objectives are not met and the program has been followed, then the program may require modification. When variations from a program occur, the impact of the variations must be assessed. For example, if the OU 9 QAPP required the laboratory to add 2-benzyl-4-chlorophenol to the semivolatile matrix spike solution and the laboratory failed to implement this requirement, the impact of this noncompliance on the useability of the data must be evaluated before comparing the data to an action limit.

The following subsections discuss any deviations from applicable sections of the OU 9 QAPP that occurred during the Background Soils Investigation.

## 3.1 PROJECT ORGANIZATION AND RESPONSIBILITY

During the OU 9 Background Soils Investigation, there was one personnel change from the list of original assignments presented in Section 2.1 of QAPP (Revision 3). The EG&G OU 9 ER Program Manager, Ms. Katherine Koehler, was replaced by Mr. James Rigano.

## 3.2 QUALITY ASSURANCE OBJECTIVES IN TERMS OF ACCURACY, PRECISION, COMPLETENESS, REPRESENTATIVENESS, AND COMPARABILITY

Accuracy

Accuracy of measurement data is defined as the degree of comparability of a measurement, x, with an accepted reference or true value, T. The accuracy is usually expressed as (x/T) x 100. For the Background Soils Investigation, accuracy was measured through the evaluation of Performance Evaluation (PE) samples, laboratory control samples (blank spikes), surrogates, and calibration checks, and matrix spikes.

**Performance Evaluation (PE) Samples**

WESTON submitted one performance evaluation (PE) soil sample to Weston Analytics Division during the Background Soils Investigation as a double blind sample. A double blind PE sample is labeled as a normal sample and is not identified as a PE sample to the laboratory. The PE sample was prepared by ERA Associates in Aurora, Colorado, using sand as the primary matrix. The sample was processed by the laboratory using the same procedures required for the Background Soils Investigation. The PE sample was submitted for pesticides, inorganics (metals/cyanide), and anions (chloride, sulfate, fluoride, nitrate/nitrite). The laboratory correctly identified all the inorganic and pesticide target analytes. All inorganics were correctly quantitated and 72% of the pesticides were accurately quantitated. While three of the four anions in the PE sample were properly identified, none of the anions were accurately quantitated. The laboratory prepared and reanalyzed all soil samples for anions based on the results of the PE sample and the results of their internal performance investigation.

In general, the reanalyzed PE results were significantly closer to the acceptance criteria than the initial analysis. The rest of the information from this PE sample indicates the laboratory may have had difficulty accurately quantitating some analyte results, but was capable of qualitatively identifying the compounds. The PE sample results were not used to qualify data for two reasons. First, the PE sample only represents a snapshot of laboratory performance. Because

the samples from the Background Soils Investigation were analyzed across several months, it is not statistically valid to qualify data based on a single sample from a single point in time. Secondly, the samples were only submitted to WESTON Analytics Division and not distributed to other laboratories. For this reason, it is not possible to independently establish the validity of the PE sample.

**Matrix Spike Trends**

A percentage of the soil samples collected for analysis were submitted with an additional request to the laboratory to perform a matrix spike analysis. The matrix spike data are used to evaluate whether a sample matrix may interfere with the accurate and precise quantitation of selected target analytes. If the matrix spike is determined to have poor accuracy (evaluated as a percent recovery) or poor precision (evaluated as the relative percent difference between the spike and the spike duplicate) the sample results are qualified. If the selected sample's matrix is considered similar to other samples, then the other samples are often qualified similarly. In the case of the Background Soils Investigation, the soil samples were collected from different locations, which may result in dissimilar sample matrices. Because of the possible dissimilar matrices, poor matrix spike performance was not attributed to all the soil samples in a sample batch. However, the matrix spike data were reviewed for poor performance trends. Four metals (antimony, selenium, arsenic, and thallium) exhibited low recoveries for 50 percent or more of the matrix spike samples. The impact of these low recoveries is described in Section 4.1. No other trends were identified in the data and no qualifications to other soil samples were made.

Precision

Precision is a measure of mutual agreement among individual measurements of the same property, usually under prescribed similar conditions. Precision is expressed as the standard deviation among a group of measurements or as a relative percent difference between two measurements. The precision results for this investigation are discussed in Section 5. The required frequency of laboratory duplicates, field duplicates, and matrix spike pairs were performed for the Background Soils Investigation.

## Completeness

Completeness is a measure of the amount of data obtained from a measurement system that achieves the project goals, compared to the amount expected under normal conditions. Completeness is affected by unexpected conditions occurring during the data collection process. For example, conditions that reduce the amount of data collected include a dry monitoring well, an instrument breakdown, or loss of a sample extract. For the Background Soils Investigation, completeness has been calculated for sample collection, field measurements, and laboratory analyses according to the procedure outlined in Table III.4 in the OU 9 QAPP.

During the field sampling effort, all of the planned samples were collected and no unplanned samples were collected. All field quality control samples were collected at the frequency specified in Table III.2 of the OU 9 QAPP, and are summarized in Table III.1.

Data completeness for this investigation is defined as the percentage of useable data points. Data completeness for laboratory analyses may change as the intended data usages are changed. The data completeness for all analyses was greater than 95 percent for all samples. Approximately 3 percent of the samples were assessed unusable due to a Graphite Furnace Atomic Absorption metal analysis error. The laboratory data completeness is summarized in Table III.2. Section 4 of this report describes any problems encountered during the validation of the inorganic laboratory data.

## Representativeness

Representativeness expresses the degree to which data accurately and precisely represent characteristics of a population, parameter, variation, sampling point, process condition, or environmental condition. Data representativeness objectives were determined when the Quality Assurance Project Plan was developed and sampling and analysis procedures were selected. During sampling and analysis representative data are collected by implementing the approved procedures in the QAPP. For the Background Soils Investigation, sampling and analysis was performed as described in the Operable Unit 9 QAPP, with only the exceptions noted in Table III.3 and Section 4. The exceptions in Table III.3 are not believed to have impacted the representativeness of the data. The exceptions noted in Section 4 of this report are sampling location and analysis specific and are not believed to have impacted the over-all representativeness of the reported data.

**Table III.1 Summary of Sample Collection Completeness**

| Analysis | Number Collected | Number Field Duplicates | Number Field Blanks | Number MS/MSD | Number PE Samples | Percent Complete |
|---|---|---|---|---|---|---|
| Metals/Cyanide | 96 | 10 | 10 | 5/5 | 1 | 100 |
| Pesticides/PCBs | 96 | 10 | 10 | 5/5 | 1 | 100 |
| Radionuclides | 96 | 10 | 10 | 5/5 | 0 | 100 |
| Anions | 96 | 10 | 10 | 5/5 | 1 | 100 |

**Table III.2 Summary of Laboratory Analysis Completeness**

| Analysis | Number Analytes | Number Samples Collected | Number Samples Rejected | Analytes Rejected | Percent Complete |
|---|---|---|---|---|---|
| Metals/Cyanide | 28 | 106 | 0 | 99 | 97 |
| *Antimony | 1 | 106 | 96 | 96 | 3 |
| Pesticides/PCBs | 28 | 106 | 0 | 0 | 100 |
| Radionuclides | 12 | 106 | 0 | 0 | 100 |
| Anions | 4 | 106 | 0 | 0 | 100 |

*Subset of metals/cyanide group separated due to poor matrix spike performance.

Comparability

Comparability expresses the confidence with which one data set can be compared to another. Comparability of data sets generated from this investigation are obtained through implementing specific protocols for collection and analysis of samples by using traceable reference materials for laboratory standards, by expressing results in comparable concentration units, and by the laboratories' participation in external PE programs. These protocols are defined in the OU 9 QAPP.

Several deviations to the OU 9 QAPP occurred during analysis of the analytes (Table III.3). These deviations were recorded on either Planned Change Notifications or Corrective Action Reports. None of the deviations are considered to have impacted the usability or future comparability of the data.

## 3.3 SAMPLING PROCEDURES/SAMPLE CUSTODY

A few deviations from the sample custody procedures occurred during the program (e.g., entry errors on the chain-of-custody forms). However, these deviations were identified, documented, and corrected, and had no impact on the sample custody (Appendix F) and (Table III.4). The implementation of the appropriate custody procedures in the laboratory was verified through laboratory project assessments (laboratory visits).

## 3.4 ANALYTICAL PROCEDURES

In general, the laboratories conformed systematically to the analytical procedures as prescribed in the OU 9 QAPP. However, some exceptions were noted in laboratory nonconformance reports, during project assessments, and during the validation of the laboratory data. These deviations are summarized on Table III.5. Laboratory quality control deficiencies that were not systematic are discussed in Section 4 according to their respective analysis.

For the purposes of this report, contract required detection limit (CRDL) and contract required quantitation limit (CRQL) are used interchangeably with reference to the QAPP-specified quantitation limits that the laboratory was contracted under. All reporting limits conformed to the OU 9 QAPP requirements.

**Table III.3 Summary of Laboratory Planned Changes**

| Deviation from Laboratory Plan | Impact of Deviation on Data Usage |
|---|---|
| WESTON Analytics Division Specific Attachment was developed as Attachment V, Appendix G of the QAPP. | WESTON Analytics Division met the program pre-qualification requirements and this change does not impact the data usability. |
| The amount of soil prepared for TOC analysis was changed from 1 to 2 mg to 20 mg. | The change may result in slightly less variable data results. The change does not impact data usability. |
| The forms used for validating radionuclide data were changed. | The change was made in recognition of omissions from the QAPP forms. The change does not impact data usability. |
| The blind PE sample submitted to WESTON Analytics Division did not contain an arochlor as required by the QAPP. | Because the PE sample did contain methoxychlor, a complex peak target, the change does not impact the value of the PE sample. |
| Some of the container types and sizes specified in the QAPP were not used. | The selection of different containers was made to facilitate sampling and shipping. The changes do not impact the data usability. |

**Table III.4 Summary of Corrective Actions Field Operations**

| Date Initiated | Nature of Activity/Problem | Corrective Action | Initiated By* |
|---|---|---|---|
| 15 July 1993 | WESTON Analytics cooler #530 arrives warm, temp blank = 13.2°C and infrared scan = 10.8°C. Cooler contains samples MND28-1046-0001, MND28-1046-0002, MND28-1047-0001, MND28-1047-0002, MND28-1048-0001, and MND28-1048-0002. | Additional ice added to future shipments. | Linda Korobka |
| 15 July 1993 | Mod D Reference on COC to WESTON Analytics under special instructions Pest/PCBs and on bottle labels not applicable. | Reference removed from all future COCs and sample labels. | Craig Stoll |
| 16 July 1993 | WESTON Analytics cooler #128 arrives warm, temp blank = 7.2°C. Cooler contains MND28-1004-001 and MND28-1004-0002. | Vermiculite packing cooled before added to future coolers. | Linda Korobka |
| 19 July 1993 | Two field batch numbers on one COC. No distinction made.<br>Batch 0001: MND28-1005-0001<br>MND28-1005-0002<br>MND28-1005-1001<br>Batch 0002: MND28-1000-0001<br>MND28-1000-0002 | Copies of COC with distinctions sent to both labs. | Linda Korobka |
| 19 July 1993 | Sample MND28-1038-1002 label was incorrect on WESTON Analytics COC and labelled correctly on sample bottle | Copy of COC with correction sent to WESTON Analytics. | Linda Korobka |
| 21 July 1993 | WESTON Analytics cooler #645 arrives warm, temp blank = 12°C. Cooler contains samples MND28-1033-0001 and MND28-1033-0002. | Additional ice added to future shipments. | Linda Korobka |
| 21 July 1993 | Americium and radium analysis were missing on water samples COCs to date. | Analyses added to all future COCs. | Linda Korobka |
| 2 August 1993 | Description Mod D should have been on all COCs as part of Pest/PCB request description. | Mod D added to all remaining COCs. | Linda Korobka |

* WESTON Laboratory Liaison Personnel

**Table III.5 Summary of Systematic Laboratory Deviations**

| Requirement | Deviation | Impact |
|---|---|---|
| Soil samples for TOC analysis must be analyzed in quadruplicate. | The laboratory only analyzed samples marked for duplicate analysis in quadruplicate. | The reported sample results are subject to significant inaccuracy. |
| Soil samples for TOC analysis must be analyzed within 28 days. | Laboratory re-analysis using quadruplicate analysis was performed after holding time. | Possible inaccuracy due to degradation or biological contribution. |
| Soil samples for anion analysis were not prepared per the QAPP. | QAPP specifies anion preparation procedure. | Possible lack of data comparability. |
| Soil samples for anion analysis must be analyzed within 28 days. | The laboratory re-analysis using the correct preparation was performed after holding time. | Possible degradation and low bias. |
| Tetra-chloro-m-xylene (TCMX) surrogate recovery must be 60 to 140 percent | TCMX recovery below criteria | Low recovery may represent low bias for all early eluting compounds. |

## 3.5 CALIBRATION PROCEDURES

In general, the laboratories' calibration procedures were performed as required by the OU 9 QAPP. Specific deviations from the calibration procedures are described for each analysis in Section 4.

## 3.6 DATA REDUCTION, VALIDATION, AND REPORTING

In general, the laboratories correctly calculated results and correctly generated the required hard copy data reports. The laboratories failed on occasions to provide a complete electronic deliverable and a hard copy of the data with the correct values as described in the OU 9 QAPP. Errors in the electronic deliverable and hard copy data were submitted to the laboratory for corrections. All data were corrected by the laboratory. Data validation was performed according to Appendix H of the OU 9 QAPP, Revision 3.

## 3.7 PERFORMANCE AND SYSTEM AUDITS

A laboratory pre-qualification assessment was performed by WESTON in September 1992 as required by the QAPP. No additional project-specific on-site laboratory assessments were performed for this project. However, project assessments of WESTON Analytics Division and IT Analytical Services were performed in September 1993 in support of the Mound Plant OU 9 Groundwater Investigation, and the laboratory was determined to be acceptable.

All sampling procedures were followed as specified in the OU 9 QAPP. Field sampling collection, handling, and shipping procedures were observed and audited for data quality assurance. Five quality assurance audits were completed during the field sampling activity on the following dates:

- 15 July 1993 by WESTON.
- 05 August 1993 to 06 August 1993 by WESTON.
- 19 July 1993 by Ohio Environmental Protection Agency.
- 03 August 1993 by Ohio Environmental Protection Agency.
- 02 August 1993 to 06 August 1993 by a United States Environmental Protection Agency, oversight contractor.

An initial WESTON management assessment of field activities took place on 15 July 1993. The manager's assessment followed training and orientation of the field team in sampling procedures,

decontamination procedures, and field book documentation. In addition, an internal audit was completed by WESTON. This audit covered the field team's sampling procedures, quality control, sample documentations, shipping procedures, and field book documentation. The results of this audit are on file with EG&G Mound.

On 19 July 1993 the OEPA observed WESTON sampling procedures and collected split soil samples at locations MND28-1019-0001 and MND28-1019-0002. On 03 August 1993 OEPA returned to observe sampling procedures and collect split samples for locations MND28-1010-0001 and MND28-1010-0002.

From 02 August 1993 to 06 August 1993, a CH2M Hill representative under contract to the USEPA performed oversight activities. The USEPA oversight contractor observed soil sampling activities, sample documentation, field book documentation, decontamination procedures, packing, shipping, and quality control sampling. Results were documented and are on file with the USEPA.

## 3.8 PREVENTIVE MAINTENANCE

The preventive maintenance program was determined acceptable during the pre-qualification assessment and subsequent project assessments of the laboratories.

## 3.9 ROUTINE PROCEDURES FOR ASSESSING DATA QUALITY

Data quality was assessed based on the guidelines provided in Subsection 9.2 of the OU 9 QAPP, Revision 3. The conclusions of the data assessment are summarized in Section 4.

## 3.10 CORRECTIVE ACTIONS

Corrective actions required as a result of noncompliance with the OU 9 QAPP are summarized in Table III.5. These deficiencies have been evaluated and found to have minimal impact on the data quality for the Background Soils Investigation. Laboratory-generated noncompliances and corrective actions are discussed in Section 4 of this report.

## 3.11 QA REPORTS TO MANAGEMENT

QA reports to management were provided in the form of laboratory and field assessment reports, corrective action reports, and change notices to the OU 9 QAPP and Work Plan as required in the OU 9 QAPP, Revision 3. The data quality assessment is provided in Section 4 of this report.

# SECTION 4

SECTION 4

# SECTION 4
# DATA QUALITY ASSESSMENT

Quality control checks (QCCs) are used to monitor sampling and analysis at a process level. When QCCs are not in accord with specified criteria, a corrective action is necessary during the process. When a corrective action is not possible or is not taken, the performance QCCs can often be used to evaluate the possible error associated with the reported results. QCCs are typically appraised during data validation and are applied to the appropriate samples. Examples of QCCs include surrogate recoveries, matrix spike recoveries, percent differences for calibration curves, etc. When QCCs were noted outside criteria during validation, data qualifiers were applied following the guidelines presented in Appendix H of the OU 9 QAPP. The qualifiers used are summarized in Table IV.1. The qualified data and the significance of the qualifications are then assessed to determine whether the qualification impacts the use of the data for the intended purpose.

The qualifications for each laboratory analysis are presented in separate subsections. Appendix G contains tables summarizing the qualifications. While the summary tables are extensive and list many qualifiers for each analysis, actually only a few analytes have been impacted. For example, 67 individual analytes comprise semivolatiles, and when only one or two analytes are qualified, the percentage of qualified data is actually very small. In addition, many of the qualifications are minor and have a negligible impact on the data usability.

The following assessment of the usability of qualified results is limited to the data usage described in this report. The assessment may not apply to other uses of the data.

## 4.1 METALS

<u>Analyses by Inductively Coupled Plasma</u>

Six types of QCC deficiencies were identified during the validation of the inductively coupled plasma (ICP) metals data packages:

- Blank contamination.
- Laboratory duplicate relative percent differences (RPDs) greater than 35 percent.
- Field duplicate RPDs greater than 50 percent.
- Matrix spike (MS) recoveries outside the 75 to 125 percent criterion.
- ICP serial dilution audits with greater than 10 percent differences.
- The interference check sample recoveries outside of the criterion.

## Table IV.1 Glossary of Data Qualifier Codes

### ORGANICS AND INORGANICS

| | | |
|---|---|---|
| U | - | The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation limit. |
| J | - | The associated numerical value is an estimated quantity. |
| R | - | The data are unusable (compound may or may not be present). Resampling and reanalysis is necessary for verification. |
| N | - | Presumptive evidence of presence of material. |
| NJ | - | Presumptive evidence of the presence of the material at an estimated quantity. |
| UJ | - | The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity. |

### Sub-Qualifier Codes

### ORGANICS

| | | |
|---|---|---|
| D | - | Duplicates |
| B | - | Qualified due to blank |
| C | - | Qualified due to calibration |
| H | - | Holding time exceeded |
| K | - | Qualified due to surrogate recovery |
| L | - | Qualified due to Laboratory Control Sample |
| S | - | Qualified due to matrix spike recovery |
| I | - | Qualified due to internal standard |
| N | - | Tentative identification (only for TICs) |
| P | - | Pest/PCB results have >25 percent difference on two different columns |
| (+) | - | Positive bias (added after subqualifier) |
| (-) | - | Negative bias (added after subqualifier) |

### INORGANICS

| | | |
|---|---|---|
| D | - | Duplicates |
| B | - | Qualified due to blank |
| C | - | Qualified due to calibration |
| H | - | Holding time exceeded |
| L | - | Qualified due to Laboratory Control Sample |
| S | - | Qualified due to matrix spike recovery |
| I | - | Qualified due to interference |
| (+) | - | Positive bias (added after subqualifier) |
| (-) | - | Negative bias (added after subqualifier) |

Appendix G summarizes each deficiency and the impact on the data.

Contamination was noted in preparation blanks, calibration blanks, and field blanks. Table IV.2 summarizes the range of contamination observed for each element. When the blank contamination was assessed, the concentration units were converted from $\mu$g/L to mg/kg. The conversion is made by multiplying the $\mu$g/L result by 0.2. The conversion factor of 0.2 is derived by assuming a soil sample mass of 1 gram, a final digestate volume of 200 mL, and no moisture content.

When blank contaminant metals were detected in samples at concentrations less than five times the concentration in the associated blank, the results were qualified non-detect (U), resulting in an elevated quantitation limit. If the concentration in the blank was negative indicating a negative bias, the associated sample results were qualified estimated (J or UJ).

Two calibration blanks contained zinc contamination at 22.4 $\mu$g/L, which is just above the 20 $\mu$g/L QAPP limit. Because the zinc contamination in the two blanks was only slightly above the criterion, the data may be biased slightly high but are usable.

A review of the field blank contamination from a programmatic standpoint indicated that beryllium, cadmium, molybdenum, tin, and zinc were detected above the CRDL in a few field blanks. Since beryllium, molybdenum, and tin results were noted in only one of the ten field blanks, these results appear to represent an isolated occurrence of contamination from the laboratory or in the field. However, cadmium was detected in two of the ten field blanks at 11.2 mg/kg (converted to solid concentration units from water concentration units) and 35.6 mg/kg. (The CRDL for cadmium is 1 mg/kg.) Zinc was detected in three of the ten field blanks at 10.3 mg/kg, 23.4 mg/kg and 6.54 mg/kg (the CRDL for zinc is 4 mg/kg). These detections could indicate a potential high bias in the data set for cadmium and zinc.

Other contaminants in the blanks were below the CRDL. These low levels of contamination may have resulted in some positive or negative bias as indicated by the qualifications. However, because blank contamination below the CRDL is permitted by the QAPP (as described in Table III.2), the associated data qualification based on these low levels of contamination do not impact the usability of the data.

The metals blank contamination seems attributable to laboratory handling procedures. The source of the problem apparently stems from the fourfold concentration necessary to obtain the QAPP quantitation. The use of the fourfold concentration results in extremely low blank contamination being

**Table IV.2 Blank Contamination Range**
**(All Units in $\mu$g/L)**

| Element | Contaminant Range | | Element | Contaminant Range | |
|---|---|---|---|---|---|
| | Low | High | | Low | High |
| Barium | 11.2 | 11.7 | Beryllium | 1.5 | 1.5 |
| Bismuth | -139.2 | 143.3 | Cadmium | -2.7 | 178 |
| Calcium | -53.02 | 55.2 | Chromium | -4.3 | -4.3 |
| Cobalt | 8.6 | 9.6 | Copper | 12 | 12 |
| Iron | 19.17 | 33.3 | Magnesium | 152 | 152 |
| Manganese | 2.8 | 3.9 | Nickel | 8.1 | 8.1 |
| Sodium | -55 | 376 | Vanadium | -9.25 | -9.2 |
| Zinc | 15.9 | 117 | | | |

concentrated to measurable levels. Because the problem has been attributed to fourfold concentration, no corrective action is possible without sacrificing quantitation limits.

The relative percent difference (RPD) between laboratory duplicates was greater than 35 percent for eight ICP metals and the associated sample results were qualified estimated (J, UJ). Laboratory duplicates for aluminum (37.6 to 200% RPDs), calcium (56.3% RPD) and tin (200% RPD) were particularly variable. The RPD between field duplicates was greater than 50 percent for one ICP metal. Because of the small number of results (RPDs) outside criteria, the deficiencies are not representative of the data set and the data are usable.

MS recoveries below the acceptance criterion were noted for cadmium (72%), chromium (73.4%), and manganese (60%). Poor MS recovery appears to be isolated to the specific spiked samples. A "J" qualifier was applied only to these samples. All data qualified based on spike recovery are considered usable.

Seven lab batches had one or more analyte with a serial dilution outside the 10 percent acceptance criterion. The analytes affected were aluminum, calcium, barium, iron, magnesium, and manganese. The percent differences varied from 10.3% to 33.8%. The affected sample results were qualified estimated (J, UJ) and may be less accurate but are usable.

The effects of ICP interferents are determined by analyzing interference check samples. Results from these samples are used to determine the apparent effect (positive or negative) on the other ICP elements when high levels of interfering elements are present. The results for samples containing high levels of one or more of the interferents may be biased high or low by the interferents. When the potential interference can have a significant impact on the sample results, those results were estimated (J). Because these interferences are inherent to the sample, the data will be used.

<u>Analysis by Atomic Absorption</u>

Five types of QCC deficiencies were identified during the validation of the atomic absorption metals data packages:

- Blank contamination.
- Lab duplicate RPDs greater than 35 percent.
- Field duplicate RPDs greater than 50 percent.
- MS recoveries outside the 75 to 125 percent criterion.

- Post digestion MS recoveries outside the 85 to 115 percent criterion.
- Method of standard addition (MSA) correlation coefficients less than 0.995.

Contamination was noted in the method blanks, calibration blanks, and field blanks. The following contaminants were detected in blanks: arsenic (-2.4 µg/L to -2.7 µg/L), lead (-2.4 µg/L), selenium (-1.1 µg/L to 3.5 µg/L), thallium (-1.1 µg/L to -3.8 µg/L), lithium (-10.7 µg/L to 47.4 µg/L), potassium (-560.9 µg/L to 1,399 µg/L), and mercury (-.16 µg/L). No contamination detected in the blanks was greater than the CRDL. Samples were qualified nondetect (U) due to blank contamination less than the CRDL; however, all affected sample results are usable.

Laboratory duplicate RPDs for lead (48.3%; 57.3%) exceeded the 35 percent criterion. Field duplicate RPDs for arsenic (61.5%; 62%), lead (52%) and lithium (53%) exceeded the 50 percent criterion. The data set is usable because most analyte results were within the criterion and only the affected sample results were qualified estimated (J, UJ).

Six elements had associated MS recoveries below the acceptance criterion: antimony, arsenic, lead, mercury, selenium, and thallium. Antimony exhibited low MS recovery in all laboratory batches and has been identified as a systematic problem. The average antimony MS recovery ranged from 0 to 47.2% with an average of 12%. 91% of the antimony results are rejected. Arsenic, selenium, and thallium matrix spike recoveries were below the acceptance criterion in 8 of 11 batches, 10 of 11 batches, and 6 of 11 batches, respectively. The average MS recovery for arsenic (51.5%), selenium (51.8%), and lead (67.6%) were below the 75 percent recovery criterion. The sample results associated with these low recoveries were qualified estimated (J, UJ). Because the sample matrix appears to interfere with the quantitation of these metals, the data are representative of the matrix and are usable.

Post digestion analytical spike recoveries for selenium, thallium, lead and arsenic were outside the QC limits. A significant amount of the selenium results (43%) and thallium results (30%) were qualified (J) due to this QCC deficiency. Ten selenium recoveries were above the acceptance criterion; 40 of the recoveries were below the acceptance criterion. The average of the out-of-control post digestion spike recoveries for selenium was 77%, while the average of the out-of-control post digestion spike recoveries for thallium was 78%. The acceptable recovery criterion is 85 to 115%. The consistently low post digestion spike recoveries for selenium and thallium may indicate a low bias for most of the selenium and thallium results. This data is usable but could bias future PALs low for selenium and thallium. Appendix G reports the impact on data usability.

One laboratory batch showed arsenic correlation coefficients less than the 0.995 criterion (0.981; 0.967), while one laboratory batch showed lead correlation coefficients less than 0.995 (0.987; 0.979). Arsenic and lead results for the associated samples were qualified (J). The potential bias cannot be estimated.

## 4.2 PESTICIDES/PCBS

Eight types of QCC deficiencies were observed in the data set resulting in data being qualified estimated (J, UJ):

- Low surrogate recovery.
- Percent RSD for the initial calibration greater than 20 percent.
- RPD for the continuing calibration check greater than 25 percent.
- Holding time exceeding the criteria.
- The difference between the determined primary and confirmation analyte concentration greater than 25 percent.
- Laboratory control sample recovery below the criteria.
- Decachlorobiphenyl (DCB) retention time shift.
- Endrin breakdown exceeded the criteria.

Only low surrogate recovery appears to be systematic. Each deficiency is discussed in detail in the following text. In addition, Appendix G lists each of the samples submitted for pesticide/PCB analysis, any associated QCC deficiency, and the probable impact of the deficiency on the usability of the data.

Tetra-chloro-m-xylene (TCMX) and DCB are used as surrogates. TCMX recoveries were below criteria in all soil samples, while DCB recoveries were within criteria in the soil samples. DCB (and sometimes TCMX) recoveries were below criteria in all the field blank samples. When a surrogate was outside criteria for both the primary and confirmation analyses, the associated data were qualified estimated (J, UJ).

These low surrogate recoveries appear to be systematic, but do not necessarily reflect actual extraction and analysis performance based on matrix spike recoveries within criteria. None of the ten matrix spikes performed for the project had recoveries below criteria. Further indication that the low surrogate recoveries may not reflect actual system performance can be demonstrated by acceptable target

compound recoveries in the Laboratory Control Samples (LCS). The low recoveries may be attributable to either the quality of the surrogate calibration curve or to the quality of the surrogates. The data usability based on low surrogate recovery is probably unaffected.

The initial calibration RSD criteria (20 percent) was exceeded for several analytes during the pesticide/PCB analysis. The RSD is calculated to assess the quality of the calibration curve. As the RSD increases, the accuracy of the measurements made from the calibration curve decreases. The criteria was exceeded for lindane and 4,4'-DDT during the analysis of some of the soil samples. The analytes that exhibited RSDs outside the acceptance criteria were not detected in the associated samples, except for sample MND28-1001-0001. The data associated with the exceeded RSD was qualified estimated (J, UJ). In all affected samples (except MND28-1001-0001), the target analytes were not detected and the decreased accuracy of the calibration curve had no significant impact on the useability of the affected data. Sample MND28-1001-0001 contained 4,4'-DDT with a 26 percent RSD. Because the RSD criteria was only exceeded by one percent, the impact on data usability would likely be minimal and the data is usable.

The calibration curve is also evaluated by a continuing calibration check. If the percent difference (%D) for the continuing calibration check is less than 25 percent, then the calibration curve is acceptable. If the %D is greater than 25 percent, then the associated sample results may be less accurate and were qualified estimated (J, UJ). The %D criteria was exceeded for one compound, 4,4'-DDT, by one percent. Because of the extremely small exceedance of criteria, the impact on the usability of the data is likely to be negligible and the data are usable.

The extraction holding time was exceeded for two re-extracted soil samples: MND28-1034-0001 and MND28-0999-0006. The results for the re-extracted samples were qualified estimated (J, UJ). MND28-1034-0001 was reextracted 54 days past the holding time and MND28-0999-0006, the Performance Evaluation (PE) sample (see Subsection 3.2), was reextracted 121 days past the holding time. The PE sample was reextracted by WESTON Analytics to determine the root cause of their poor performance on the PE sample. MND28-1034-0001 was reextracted by the laboratory due to low surrogate recovery. Since the reanalysis of MND28-1034-0001 confirmed the initial results, the initial results within holding time are usable. The exceeded holding time for MND28-0999-0006 does not impact the results since the laboratory only used the data for root cause analysis.

The percent difference between analytes quantitated on the two columns must be less than 25 percent. When the percent difference is greater than 25 percent, the reported concentration may be inaccurate, and the affected analyte results were qualified estimated (J, UJ). It is not possible to determine which

value is more accurate from the chromatography. Rejection of this data may result in bias as the data are used to establish a background level; therefore, the higher value has been rejected due to probable positive interference, and the lower, more conservative value will be used for all calculations.

All LCS recoveries for lindane and aldrin were below criteria. The control sample was associated with soil samples MND28-1025-0001 and MND28-1025-0002. Lindane and aldrin recovery in the LCS were approximately 30 to 40 percent on the primary column. The low control sample recoveries indicate these target compounds may be low in the associated sample and were qualified estimated (UJ). The use of the sample data may bias any derived action limits low and the exclusion of the data may result in higher derived action limits. The most conservative approach is to use this data even though there may be a low bias.

The retention time for DCB shifted in soil samples, MND28-1010-0001 and MND28-1010-0002 and all results were qualified estimated (J, UJ). The retention time shift for this compound in these samples was 0.04 and 0.03 minutes. There was no retention time shift in the second column. Given the small amount of retention time shift and the lack of peaks in the vicinity of an identified target and relative time windows in the second column analysis, the data are usable.

The last problem identified during validation was endrin breakdown greater than the specified limit, which only affected the PE sample. Because this deficiency only impacted the PE sample, it will not be described further.

## 4.3 RADIONUCLIDES

The only QCC problem identified during radionuclide data validation and data assessment was inconsistent counts for tritium. Inconsistent counts in the determination of tritium in soil samples MND28-1013-0001, MND28-1014-0001, MND28-1022-0001, MND28-1024-0001, MND28-1025-0001, MND28-1035-0001, MND28-1044-0002, and MND28-1021-0001 indicate a possible inaccuracy in the quantitation of tritium and were qualified estimated (J). The inaccuracy has been attributed to quenching by the sample matrix. Because the qualification was apparently the result of matrix interference, higher quality data probably cannot be achieved by the specified methods. The results are usable as qualified. A summary of data validation qualifiers for radionuclide analyses is presented in Appendix G.

## 4.4 ANIONS AND TOC

The original samples for anion analyses were not leached by the method specified in Appendix C of the QAPP. Because the wrong leaching procedure was used, the data were not comparable to the sample data already collected. Further, the PE sample, which was leached by the incorrect method, yielded very poor results. Subsequently, the anion samples were releached and reanalyzed in accordance with the correct method (outside holding time).

Because the second set of anion results were determined from a properly prepared leachate, the second set of data is considered valid. All data in the second set was qualified as estimated (J) because the QAPP established holding time had been exceeded. However, the relevance of the exceeded holding time is considered minimal since the regulatory agencies have not yet established holding times presumably due to the lack of holding time studies. Without supporting holding time studies or regulatory guidance, the impact of the exceeded holding time on the data is assumed to be minimal. Further, given the chemistry of anions in soil, it is unlikely these compounds will undergo significant degradation over time.

Total Organic Carbon (TOC) was also redetermined for all the soil samples. The laboratory initially only analyzed the sample once instead of four times (as required by the QAPP). Because the method uses a very small sample aliquot and soils are typically heterogeneous, a single result is often not representative of the sample. The laboratory reanalyzed the samples in quadruplicate and reported the average. Because the samples were reanalyzed outside the QAPP holding time, all results were qualified estimated (J). The average results were generally greater than the initial results. The larger results are attributed to a more representative sample set. The average RPD between the initial analysis and the second analysis was 29 percent. The RPD ranged between about 40 percent and 1 percent. Because the agreement between the first and second analysis was good and the second set was analyzed in quadruplicate as specified in the QAPP, the second data set is considered better than the first data set and usable. The relevance of the exceeded holding time and impact on the data usability is considered minimal since the regulatory agencies have not yet established holding times presumably due to the lack of holding time studies. Without supporting holding time studies or regulatory guidance, the impact of the exceeded holding time on the data is assumed to be minimal.

In addition to the exceeded holding for anions and TOC analyses, three other QCC deficiencies were observed: sample duplicate differences, matrix spike recoveries, and equipment blank results outside criteria. One sulfate, two nitrate/nitrite, and two chloride field duplicate pairs had percent differences greater than 50 percent, and the affected sample results were qualified estimated (J, UJ). Because

these field duplicate deficiencies occurred in separate samples and were only observed in 20 percent or less of the submitted field duplicates, the deficiencies are probably not representative of the data set and the data are usable. Five of ten field duplicate pairs submitted for TOC analysis also had relative percent differences greater than 50 percent, and the affected sample results were qualified estimated (J). TOC results are dependent on acquiring a representative aliquot of soil. However, because of the small sample aliquot and the heterogeneous nature of soils, it is difficult to prepare a representative sample for analysis. Because of the inherent method difficulty, the possible inaccuracy of TOC results based on the RPD is not considered to impact the usability of the data.

Matrix spike recoveries were outside criteria for one fluoride sample (MND28-1040-0001) and one nitrate/nitrite sample (MND28-1004-0001). The fluoride result in sample MND28-1040-0001 and nitrate/nitrite results in sample MND28-1004-0001 were qualified estimated (J, UJ). Because the deficiencies only occurred in one of 10 samples submitted for matrix spikes, the deficiency probably is not representative of the data set and the data are usable.

The last deficiency noted during validation was nitrate/nitrite contamination in one equipment blank. No samples were qualified based on this contamination. Because the contamination was isolated to a single equipment blank and was detected at 0.01 mg/L above the reporting limit, the deficiency has no impact on the data usability.

# SECTION 5

# SECTION 5
# RESULTS

The field team completed soil sampling of the 16 mapping units and collected the following samples between 12 July 1993 and 06 August 1993:

- 111 soil samples according to the following breakdown:
  - 48 samples were from the surface interval
  - 48 samples were from the subsurface interval
  - 10 blind duplicate samples
  - 5 matrix spikes
  - 5 matrix spike duplicates
- 10 rinsate blanks (water)

The term "background" deserves some definition and discussion. In the context of this report, background soils are those that display a range of constituents and contaminants likely to be found in local soils, that have not been impacted by a local point source.

There are three potential sources of the parameters that were analyzed in this survey: natural soil constituents, atmospheric deposition, and local point sources. Measurements of inorganic elements may reflect either natural or anthropogenic concentrations. Synthetic organic compounds, which are fundamentally anthropogenic, would be present in soils only as the result of atmospheric deposition or current or historical local application.

## 5.1 ANALYTICAL VALIDATION RESULTS

The majority of the data are usable without qualification for the intended use as described in Section 3 and Section 4 of this report. However, antimony was rejected from 91% of the samples due to systematic poor matrix spike recoveries. In addition, the selenium, thallium, and arsenic data may be biased low based on matrix spike recoveries. Other data were qualified during validation due to quality control check deficiencies, but the effects of those deficiencies were generally determined to have minimal impact on the data set. Section 4 describes in detail the quality control deficiencies and why the deficiencies were determined to minimally impact the data.

## 5.2 ANALYTICAL RESULTS

This section presents the analytical results and validation qualifiers for the surface and subsurface soil samples collected during the Background Soils Investigation. These results are used in conjunction with statistical analyses to establish parameter concentration distribution. Chemical distributions of soil depths and soil types are made through examination of the tabulated and statistical data.

Appendix H presents the analytical data for each sample point by parameter in tabulated form. The appendix includes data qualifiers applied by the analytical laboratory and data qualifiers applied by the data validation team (Section 4).

Every parameter presented below is followed by a value in parentheses representing an upper tolerance sample limit. The methods used to calculate these tolerance levels are presented and discussed in Section 5.3.

### 5.2.1 Inorganic Analysis

Parameter (Upper Tolerance Sample Limit)

Aluminum (19,000 mg/kg) is detected in every soil sample. Distribution varies by soil type and depth.

- HmF3 and Mb have consistently lower mean concentrations.
- MoC, RfD3, CoB, MnD3, MnC3 and Mb have higher mean concentrations in the surface than the subsurface.
- MsB, MsC2, FaF2, RS, HeF2, MIB, and HmF3 have higher mean concentrations in the subsurface than the surface.
- MtD3, FaE2, and ReB2 have similar distribution in both intervals.

A concentration exists at ReB2 in the subsurface sample 1040 (70,800 mg/kg) which is significantly greater than mean concentrations in the area.

Antimony 91% of antimony data has been rejected by data qualifiers.

Arsenic (8.6 mg/kg) is detected in every soil sample and distribution is similar in all locations.

Barium (180 mg/kg) is detected in every soil sample and distribution varies by soil type and depth:

- MsB, FaE2, and ReB2 have consistently greater mean concentrations than the rest of the study area.
- The surface concentration is greater than the subsurface concentration at MoC, RfD3, MtD3, CoB, FaE2, MnD3, MnC3, and HmF3.
- The subsurface concentration is greater than the surface concentration at MsB, HeF2, and MIB.
- Distribution is similar in both intervals at MsC2, Rs, FaF2, ReB2, and Mb.

Beryllium (1.3 mg/kg) is detected in every soil series except MsC2. Distribution is similar for all locations and depths. ReB2 has a consistently greater mean concentration than the rest of the study area. No concentrations were detected in the subsurface of RfD3.

Bismuth (39 mg/kg) is detected in three soil samples (1004 and 1005 in the subsurface, and 1006 in the surface) representing FaE2. The greatest concentration of 38.4 mg/kg is detected in the surface at FaE2.

Cadmium (2.1 mg/kg) is detected only in mapping units: CoB, FaF2, HmF3, MoC, MsC2, RfD3, and Rs.

- Concentrations at CoB are detected only in the subsurface samples.
- Consistent concentrations in both intervals are detected at MsC2, RfD3, and Rs.

Cadmium distribution is very scattered areally and with depth.

Calcium (310,000 mg/kg) is detected in every soil sample. Surface concentrations are greater than subsurface concentrations at MsB and Rs, and distribution is equal at both depths for FaF2 and Mb.

Chromium (20 mg/kg) is detected in every soil sample, and distribution appears to be a function of soil type:

- MoC, MtD3, MnD3, and MnC3 have greater concentrations at the surface than the subsurface depth.
- MsB, HeF2, and MIB have greater concentrations in the subsurface than the surface.

- Distribution is similar in both depth intervals for MsC2, RfD3, CoB, ReB2, HmF3, and Mb.

Cobalt (19 mg/kg) is detected in all soil mapping units except Mb. Distribution is similar in all locations and depths. Lower mean concentrations are detected at Rs and HmF3.

Copper (26 mg/kg) is detected in every soil sample, and its distribution is similar in all locations and depths. MIB and Rs have consistently greater concentrations in the surface samples than the subsurface samples.

Cyanide is not detected in any soil samples.

Iron (35,000 mg/kg) is detected in every soil sample and distribution appears to be a result of soil type:

- HmF3, Rs, and Mb, the southernmost sampling locations, have lower mean concentrations.
- MoC, RfD3, CoB, MnD3, and MnC3 have significantly greater surface concentrations than subsurface concentrations.
- MsB, MsC2, FaF2, HeF2, and MIB have greater subsurface concentrations than surface concentrations.
- MtD3, FaE2, ReB2, HmF3, and Mb have well distributed concentrations in both depth intervals.

Lead (48 mg/kg) is detected in every soil sample. The surface concentration is greater than the subsurface concentration at every sample location.

Lithium (26 mg/kg) is detected at FaF2, HeF2, HmF3, MoC, MsC2, RfD3, and Rs. The subsurface concentration is greater than the surface concentration at every sample location.

Magnesium (40,000 mg/kg) is detected in every sample and distribution varies by soil type and depth. Greater mean concentrations within the study area exist at HmF3, Mb, MnC3, MnD3, Rs, MoC, and CoB. The subsurface concentration is greater than the surface concentration at most locations. The mean surface concentration is 10,351 mg/kg, and the mean subsurface concentration is 17,081 mg/kg.

Manganese (1,400 mg/kg) is detected in every soil sample and the surface concentration is greater than the subsurface concentration at every location except MsB, MsC2, FaF2, Rs, and MIB. The greatest concentrations in the study area exist at FaE2. The concentration in the surface is increased through volume reduction of the surface soil due to carbonate loss.

Mercury (0.15 mg/kg) is detected in three soil samples. One in the surface sample 1031 representing MsB, and at both depth intervals in 1047 representing Rs. The greatest concentration is 0.15 mg/kg in the subsurface of Rs.

Molybdenum (27 mg/kg) is detected in every soil mapping unit except Mb, MIB, and MsC2. Distribution is similar at all locations with respect to depth. Concentrations are only detected in the surface at RfD3.

Nickel (32 mg/kg) is detected in every soil sample and distribution is similar at all locations and depths. Concentrations at MsB, MsC2, CoB, FaF2, HeF2, MIB, ReB2, and HmF3 are slightly greater than the mean of 19.68 mg/kg.

Potassium (1,900 mg/kg) is detected in every soil mapping unit except MIB and ReB2. Surface concentrations are greater than subsurface concentrations at all locations except HeF2. The greatest concentrations exist at CoB, FaE2, and FaF2.

Selenium (0.59 mg/kg) is detected only in five random surface samples at CoB, MsB, and Rs, with all concentrations near the detection limits.

Silver (1.7 mg/kg) has a random distribution limited to FaE2, HeF2, MIB, MsC2, and ReB2. All concentrations are near the detection limits. The greatest concentration is 5.1 mg/kg in the surface of MsC2.

Sodium (240 mg/kg) is detected in every soil mapping unit except MnC3, MsB, and MsC2. Subsurface concentrations are greater than surface concentrations at all locations except at RfD3. CoB, MoC, MtD3, and RfD3 have consistently greater concentrations than the other soil types in the study area. The mean surface concentration is 61 mg/kg. The mean subsurface concentration is 87 mg/kg.

Thallium (0.46 mg/kg) distribution is limited to only five soil mapping units. All concentrations are near detection limits. MIB and Mb have concentrations in both depth intervals in more than one soil sample.

MoC, Rs, and ReB2 have random concentrations. The greatest concentration is in the surface of Rs, 0.47 mg/kg.

Tin (20 mg/kg) is detected only at CoB, FaF2, FaF2, HmF3, Mb, MnC3, MnD3, and Rs. Distribution is random, although concentrations were detected more often in the subsurface interval.

Vanadium (25 mg/kg) is detected in all but one soil sample. Distribution is similar for every soil type and depth.

Zinc (140 mg/kg) is detected in every soil mapping unit except MnC3. Surface concentrations are greater than subsurface concentrations at MsC2, MoC, MtD3, CoB, FaE2, FaF2, MnD3, and Mb. The mean surface concentration of 81.33 mg/kg is greater than the mean subsurface concentration of 54.79 mg/kg.

### 5.2.2 Pesticides/PCB Analyses

Pesticides are man-made chemicals and therefore are anthropogenic in nature. Pesticide concentrations may represent residual amounts from previous application or windblown transfer from another location.

4,4'-DDD (4.2 $\mu$g/kg) is detected in five soil samples (1001,1043 in both surface and subsurface intervals, 1032 in the surface interval only) representing surface location soil mapping units CoB, RfD3, and MsB. The highest concentration is in surface location 1043 in mapping unit RfD3 (21 J $\mu$g/kg). All other detections are near or below detection limits (3.7 $\mu$g/kg).

4,4'-DDE (4.3 $\mu$g/kg)is detected in five soil samples (1022, 1024, 1044 in the surface, 1043 surface and subsurface) representing locations MnC3 and RfD3. The highest concentration is at surface location 1043 (39 J $\mu$g/kg). All other detections are near or below detection limits (3.7 $\mu$g/kg).

4,4'-DDT (13 $\mu$g/kg) is detected at ten soil samples (1001, 1017, 1022, 1023, 1024, 1030 in the surface interval; and 1043 and 1044 in the surface and subsurface intervals) representing locations CoB, Mb, MnC3, MoC and RfD3. There is a detection at each surface location at MnC3. The highest concentration is at the surface location in RfD3 (1043) (920 J $\mu$g/kg).

Endosulfan II (Beta) (1.9 $\mu$g/kg) is detected in only one soil sample (1032 in the surface interval) representing MsB. The concentration is 1.9 J $\mu$g/kg.

Methoxychlor (30 μg/kg) is detected in seven soil samples (1001, 1002, 1011, 1023, and 1032 in the surface interval, and 1010 and 1012 in the subsurface interval) representing CoB (1001, 1002), HeF2 (1010, 1011, 1012), MnC3 (1023), and MsB (1032). The greatest concentration is at CoB (50 J μg/kg).

The following are not detected in any soil samples:

Aldrin
Alpha chlordane
Alpha-BHC
Beta-BHC
Aroclor - 1016
Aroclor - 1221
Aroclor - 1232
Aroclor - 1242
Aroclor - 1248
Aroclor - 1254
Aroclor - 1260
Delta-BHC
Dieldrin
Endosulfan I(Alpha)
Endosulfan Sulfate
Endrin
Endrin Aldehyde
Endrin Ketone
Gamma Chlordane
Gamma-BHC (Lindane)
Heptachlor
Heptachlor Epoxide
Toxaphene

### 5.2.3 Radioinuclide Analyses

Americium-241 is not detected in any soil samples.

Bismuth-207 is not detected in any soil samples.

Bismuth-210 is not detected in any soil samples.

Cesium-137 (0.42 pCi/g) is detected at every mapping unit, but not every soil sample. The surface mean (0.35 pCi/g) and occurrence (45 of 48) is greater than the subsurface mean (0.10 pCi/g) and occurrence (15 of 48). This variation is a result of fallout from atmospheric weapons testing (e.g., Nevada Test Site), which has resulted in non-naturally occurring radionuclides in surface soil.

Cobalt-60 (1.0 pCi/g) is detected in two soil samples. A concentration of 0.0561 pCi/g is detected in the subsurface of (1028) representing MoC. A concentration of 1.01 pCi/g is detected at the surface of (1047) representing Rs. The Rs soil series is composed of river flood sediments and the contamination could have originated at an upgradient location.

Plutonium-238 (0.13 pCi/g) is detected in 15 of 48 surface samples and 17 of 48 subsurface samples. Every soil type has a detection except for MnC3. Distribution is random and is not a factor of depth or soil type. Greatest concentrations are detected at FaF2 and MoC, which have the same surface mean of 0.11 pCi/g. The surface mean for the study area (0.05 pCi/g) is slightly greater than the subsurface mean (0.04 pCi/g).

Plutonium-239/240 (0.18 pCi/g) is detected in 23 of 48 surface samples and 21 of 48 subsurface samples. Every soil type has a detection except for MnC3. Distribution is random and is not a factor of soil type or depth. Greatest mean concentrations are detected at the surface of MoC (0.19 pCi/g). The surface mean for the study area (0.06 pCi/g) is slightly greater than the subsurface mean (0.05 pCi/g).

Potassium-40 (37 pCi/g) is detected in every soil sample. Distribution is normal for the entire data set, but concentrations vary as a result of soil type. The following concentrations (see table below) located west of the Mound Plant have greater mean concentrations than the mean surface concentration (20.75 pCi/g) and mean subsurface concentration (21.48 pCi/g) in both depth intervals:

| Soil Type | Amount of Samples | Standard Deviation | Mean (pCi) |
|---|---|---|---|
| $FaE_2$ | 6 | NA | 27.89 |
| $FaF_2$ | 6 | NA | 30.81 |
| $HeF_2$ | 6 | NA | 28.78 |
| $MsC_2$ | 6 | NA | 24.34 |
| $MtD_3$ | 6 | NA | 22.37 |
| $ReB_2$ | 6 | NA | 24.69 |
| $RfD_3$ | 6 | NA | 34.21 |
| Surface | 48 | 6.24 | 20.15 |
| Subsurface | 48 | 7.56 | 21.48 |

Radium-226 (2.0 pCi/g) is detected in every soil sample. Distribution is similar at every location. Depth and soil type are not factors of distribution.

Strontium-90 (0.72 pCi/g) is detected in more surface samples (19 of 48) than subsurface samples (13 of 48). Distribution is a factor of location or soil type. Soil types with consistent detections in all

sample points include, HeF2, HmF3, MtD3, ReB2, MsB, and Rs. No concentrations are detected in soil types CoB, FaE2, Mb, MoC, and RfD3. Small concentrations are detected in only a few sample points for soil types MIB, FaF2, MnC3, MnD3, Rs, and MsC2.

Thorium-228 (3.0 pCi/g) is detected in all but one soil sample. Most soil types have similar distribution and mean concentration. Two soil types have mean concentrations significantly lower than the other soil types: Mb (0.58 pCi/g) and Rs (0.591 pCi/g). The combined mean concentration is 0.97 pCi/g for the study area.

Thorium-230 (2.8 pCi/g) is detected in all but one soil sample. Most soil types have similar distribution and mean concentration. Two soil types have mean concentrations significantly lower than the other soil types, Mb (1.10 pCi/g) and Rs (1.21 pCi/g). One soil type has a significantly higher mean concentration than the other soil types (MoC at 3.09 pCi/g).

Thorium-232 (1.4 pCi/g) is detected in all but one soil sample. Distribution is a result of soil type and depth. The following soil types have mean concentrations below the combined mean detection: MoC, MIB, MnD3, MnC3, HmF3, Rs, and Mb. Soil types RfD3, CoB, FaE2, and FaF2 have mean concentrations above the combined mean detection. MsB and ReB2 have greater concentrations in their subsurface interval compared to their surface intervals. MsC2 and MnC3 have greater concentrations in their surface interval compared to their subsurface interval.

Tritium (1.6 pCi/g) is detected in 40 of 48 surface samples and 21 of 48 subsurface samples. All sampling locations have greater concentrations in their surface compared to their subsurface. The mean surface concentration (0.17 pCi/g) is greater than the mean subsurface concentration (0.02 pCi/g). The greatest mean concentration was detected in soil type MsC2 (1.74 pCi/g).

Uranium-234 (1.1 pCi/g) is detected in every soil sample. There is slight variance with soil type. MsC2, MtD3, ReB2, RfD3, and Rs have mean concentrations lower than the combined mean concentration. MnC3 and MnD3 have greater mean concentrations than the combined mean concentration (0.82 pCi/g)

Uranium-235/236 (0.11 pCi/g) is detected in 19 of 48 surface samples and 17 of 48 subsurface samples. Distribution follows no distinguishable trends.

Uranium-238 (1.2 pCi/g) is detected in every soil sample. Distribution is affected by some soil types. Soil types MnD3 and MnC3 have greater mean concentrations than the combined mean concentration. Mb and Rs have lower concentrations than the combined mean concentration.

### 5.2.4 Anion Analyses

Chloride (107 mg/kg) is detected in every soil sample. Distribution varies with concentrations and depths in different locations, but does not follow any distinguishable trends.

Fluoride (6.7 mg/kg) is detected in 43 of 48 surface samples and 44 of 48 subsurface samples. Distribution varies with concentrations and depths in different locations.

- MIB did not have any detections.
- RfD3, FaF2, HeF2, and MnC3 have concentrations greater than the combined mean concentration.

Nitrate/Nitrite (26 mg/kg) is detected in all but eight soil samples. Distribution seems to be a result of soil type and depth.

- MIB only has detected concentrations in the surface internal samples.
- CoB, HeF2, and MnC3 have the lowest mean concentrations in the study area.
- FaE2, MIB, MtD3 and ReB2 have the greatest mean concentrations in the study area.
- All other soil types have combined concentrations less than the combined mean concentration (6.67 mg/kg).

At every sample location except Mb, the surface mean (73 mg/kg) is greater than the subsurface mean (2.7 mg/kg). Distribution is most likely a result of historic fertilizer use in the areas with the greatest concentrations.

Sulfate (150 mg/kg) is detected in more surface samples (26 of 48) than subsurface samples (19 of 48). Distribution seems to be a result of depth and soil type.

- No concentrations are detected at MsC2 and MnC3.

The mean surface concentration (70 mg/kg) is greater than the mean subsurface concentration (30 mg/kg). Distribution is a result of historic use of fertilizer in areas with the greatest concentrations. Anion distribution is a result of increased growth in the surface interval.

## 5.3 DESCRIPTIVE STATISTICS

Descriptive statistical analyses are included for the sample data set in order to provide summary information and allow for preliminary and evaluation of the data. The descriptive statistics include the arithmetic and geometric mean and standard deviation, sample median, minimum and maximum concentrations, 95% mean confidence interval statistical range, 95% upper sample tolerance limit, sample detection, distribution type, and coefficient of variation. Appendix J presents the results of the statistical analyses for every parameter according to its distribution. Appendix K presents the statistical methods and equations used for the statistical analyses. The approach to the statistical methods used in the Background Soils Investigation is conducted according to *The Guidance Document on the Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, 1989.*

The minimum, maximum, and median are all values within the sample set, and are reported for every parameter. The minimum value is the lowest concentration recorded within the sample set that is being examined. The maximum is the greatest concentration recorded within the sample set. The median is a value of the detection that divides the detections so that one-half are less than or equal to the median and one-half are greater than or equal to the median. The arithmetic mean is the average value computed as the sum of the values of all the concentrations within the sample set, divided by the number of samples taken. The geometric mean uses the natural log (ln) function with the same calculation used to derive the arithmetic mean. The geometric mean applies to data sets where concentrations are sporadic and mixed with high values and nondetections. The standard deviation is defined as the square root of the mean squared deviations from the mean. The standard deviation indicates how typical of a distribution the mean actually is. The greater the standard deviation, the greater the spread of observation and the less typical the mean. The coefficient of variation is the standard deviation divided by the mean. It is used to compare the dispersion of two distributions having different means. The coefficient allows comparison between the standard deviations of data sets with high concentrations and low concentrations.

Tables V.1, V.2, V.3, and V.4 present the central tendency and tolerance limit for each parameter that correlates to the proper distribution of the data set for that parameter. The data set for each chemical parameter is evaluated to determine the distribution type (normal, lognormal, nonparametric, or unknown). Distributions are calculated with the Shapiro-Wilk test for data sets with less than 50

## Table V.1 Inorganic Background Levels
## (All Values in mg/kg)

| Parameter | Central Tendency | | | Tolerance Limit | | |
|---|---|---|---|---|---|---|
| | Median | Geometric Mean | Arithmetic Mean | Detection Limit | Maximum | Upper 95% Sample Tolerance Limit |
| Aluminum | | | | | | |
| Surface | NA | NA | 9,000 | NA | NA | 16,000 |
| Subsurface | 11,000 | NA | NA | NA | NA | 22,000 |
| Combined | 10,000 | NA | NA | NA | NA | 19,000 |
| Antimony | | | | | | |
| Surface | Samples Rejected Unknown Distribution | | | 0.45 | NA | NA |
| Subsurface | | | | 0.45 | NA | NA |
| Combined | | | | 0.45 | NA | NA |
| Arsenic | | | | | | |
| Surface | NA | NA | 5.5 | NA | NA | 9.1 |
| Subsurface | NA | NA | 5.1 | NA | NA | 9.0 |
| Combined | NA | NA | 5.2 | NA | NA | 8.6 |
| Barium | | | | | | |
| Surface | NA | 82 | NA | NA | NA | 160 |
| Subsurface | NA | 77 | NA | NA | NA | 230 |
| Combined | NA | 79 | NA | NA | NA | 180 |
| Beryllium | | | | | | |
| Surface | NA | NA | 0.75 | NA | NA | 1.3 |
| Subsurface | NA | NA | 0.74 | NA | NA | 1.7 |
| Combined | NA | NA | 0.74 | NA | NA | 1.3 |
| Bismuth | | | | | | |
| Surface | NA | NA | NA | NA | 38 | NA |
| Subsurface | NA | NA | NA | NA | 35 | NA |
| Combined | NA | NA | NA | NA | 39 | NA |
| Cadmium | | | | | | |
| Surface | 0.23 | NA | NA | NA | NA | 1.7 |
| Subsurface | 0.23 | NA | NA | NA | NA | 2.7 |
| Combined | 0.23 | NA | NA | NA | NA | 2.1 |
| Calcium | | | | | | |
| Surface | 25,000 | NA | NA | NA | NA | 70,000 |
| Subsurface | 60,000 | NA | NA | NA | NA | 170,000 |
| Combined | NA | 27,000 | NA | NA | NA | 310,000 |
| Chromium | | | | | | |
| Surface | NA | NA | 13 | NA | NA | 19 |
| Subsurface | NA | 12 | NA | NA | NA | 31 |
| Combined | NA | NA | 13 | NA | NA | 20 |
| Cobalt | | | | | | |
| Surface | NA | NA | 11 | NA | NA | 19 |
| Subsurface | NA | 9 | NA | NA | NA | 28 |
| Combined | NA | NA | 11 | NA | NA | 19 |
| Copper | | | | | | |
| Surface | NA | 16 | NA | NA | NA | 28 |
| Subsurface | NA | NA | 16 | NA | NA | 27 |
| Combined | 15 | NA | NA | NA | NA | 26 |
| Iron | | | | | | |
| Surface | NA | 20,000 | NA | NA | NA | 38,000 |
| Subsurface | 22,000 | NA | NA | NA | NA | 39,000 |
| Combined | NA | NA | 22,000 | NA | NA | 35,000 |
| Lead | | | | | | |
| Surface | 22 | NA | NA | NA | NA | 73 |
| Subsurface | NA | 13 | NA | NA | NA | 32 |
| Combined | NA | 18 | NA | NA | NA | 48 |
| Lithium | | | | | | |
| Surface | NA | 6.5 | NA | NA | NA | 25 |
| Subsurface | 8 | NA | NA | NA | NA | 28 |
| Combined | NA | 7.5 | NA | NA | NA | 26 |

## Table V.1 Inorganic Background Levels
## (All Values in mg/kg)
## (Continued)

| Parameter | Central Tendency | | | Tolerance Limit | | |
|---|---|---|---|---|---|---|
| | Median | Geometric Mean | Arithmetic Mean | Detection Limit | Maximum | Upper 95% Sample Tolerance Limit |
| Magnesium | | | | | | |
| Surface | 4,300 | NA | NA | NA | NA | 32,000 |
| Subsurface | 5,300 | NA | NA | NA | NA | 56,000 |
| Combined | NA | NA | 13,000 | NA | NA | 40,000 |
| Manganese | | | | | | |
| Surface | NA | 630 | NA | NA | NA | 1,400 |
| Subsurface | NA | 570 | NA | NA | NA | 1,500 |
| Combined | NA | 600 | NA | NA | NA | 1,400 |
| Mercury | | | | | | |
| Surface | NA | NA | NA | NA | 0.15 | NA |
| Subsurface | NA | NA | NA | NA | 0.15 | NA |
| Combined | NA | NA | NA | NA | 0.15 | NA |
| Molybdenum | | | | | | |
| Surface | 17 | NA | NA | NA | NA | 27 |
| Subsurface | 14 | NA | NA | NA | NA | 27 |
| Combined | NA | NA | 14 | NA | NA | 27 |
| Nickel | | | | | | |
| Surface | NA | NA | 18 | NA | NA | 29 |
| Subsurface | NA | 20 | NA | NA | NA | 41 |
| Combined | 19 | NA | NA | NA | NA | 32 |
| Potassium | | | | | | |
| Surface | 730 | NA | NA | NA | NA | 2,200 |
| Subsurface | 590 | NA | NA | NA | NA | 1,600 |
| Combined | 640 | NA | NA | NA | NA | 1,900 |
| Selenium | | | | | | |
| Surface | NA | NA | NA | NA | 0.59 | NA |
| Subsurface | NA | NA | NA | 0.40 | NA | NA |
| Combined | NA | NA | NA | NA | 0.59 | NA |
| Silver | | | | | | |
| Surface | 0.55 | NA | NA | NA | NA | 1.7 |
| Subsurface | 0.55 | NA | NA | NA | NA | 1.7 |
| Combined | 0.55 | NA | NA | NA | NA | 1.7 |
| Sodium | | | | | | |
| Surface | NA | 61 | NA | NA | NA | 220 |
| Subsurface | NA | 87 | NA | NA | NA | 280 |
| Combined | NA | 73 | NA | NA | NA | 240 |
| Thallium | | | | | | |
| Surface | 0.12 | NA | NA | NA | NA | 0.46 |
| Subsurface | 0.12 | NA | NA | NA | NA | 0.43 |
| Combined | 0.12 | NA | NA | NA | NA | 0.46 |
| Tin | | | | | | |
| Surface | 2.2 | NA | NA | NA | NA | 21 |
| Subsurface | 4.3 | NA | NA | NA | NA | 17 |
| Combined | 2.3 | NA | NA | NA | NA | 20 |
| Vanadium | | | | | | |
| Surface | NA | NA | 17 | NA | NA | 26 |
| Subsurface | NA | NA | 17 | NA | NA | 27 |
| Combined | NA | NA | 17 | NA | NA | 25 |
| Zinc | | | | | | |
| Surface | 60 | NA | NA | NA | NA | 473 |
| Subsurface | 53 | NA | NA | NA | NA | 130 |
| Combined | 56 | NA | NA | NA | NA | 140 |

U - Below detectable limits.
NA - Not applicable.

## Table V.2 Pesticide/PCB Background Levels
## (All Values in $\mu$g/kg)

| Parameter | Central Tendency | | | Tolerance Limit | | |
|---|---|---|---|---|---|---|
| | Median | Geometric Mean | Arithmetic Mean | Detection Limit | Maximum | Upper 95% Sample Tolerance Limit |
| 4,4-DDD | | | | | | |
| Surface | NA | NA | NA | NA | 21 | 4.3 |
| Subsurface | NA | NA | NA | NA | 3.3 | 4.2 |
| Combined | 1.9 | NA | NA | NA | 21 | 4.2 |
| 4,4-DDE | | | | | | |
| Surface | 1.9 | NA | NA | NA | 39 | 12 |
| Subsurface | NA | NA | NA | NA | 2.6 | 4.2 |
| Combined | 1.9 | NA | NA | NA | 39 | 4.3 |
| 4,4-DDT | | | | | | |
| Surface | 1.9 | NA | NA | NA | 65 | 13 |
| Subsurface | NA | NA | NA | NA | 24 | 4.2 |
| Combined | 1.9 | NA | NA | NA | 65 | 13 |
| Aroclor-1254 | | | | | | |
| Surface | NA | NA | NA | NA | 65 | 65 |
| Subsurface | NA | NA | NA | NA | 24 | 42 |
| Combined | 19 | NA | NA | NA | 65 | 58 |
| Endosulfan II (beta) | | | | | | |
| Surface | NA | NA | NA | NA | 1.9 | NA |
| Subsurface | NA | NA | NA | 4.0 | NA | NA |
| Combined | NA | NA | NA | NA | 1.9 | NA |
| Methoxychlor | | | | | | |
| Surface | 9.5 | NA | NA | NA | 50 | 50 |
| Subsurface | NA | NA | NA | NA | 30 | 21 |
| Combined | 9.5 | NA | NA | NA | 50 | 30 |

U - Below detectable limits.
NA - Not applicable.

## Table V.3 Radionuclide Background Levels
## (All Values in pCi/g)

| Parameter | Central Tendency | | | Tolerance Limit | | |
|---|---|---|---|---|---|---|
| | Median | Geometric Mean | Arithmetic Mean | Detection Limit | Maximum | Upper 95% Sample Tolerance Limit |
| Cesium-137 | | | | | | |
| Surface | NA | NA | 0.35 | NA | NA | 0.66 |
| Subsurface | 0.06 | NA | NA | NA | NA | 0.39 |
| Combined | NA | NA | 0.22 | NA | NA | 0.42 |
| Cobalt-60 | | | | | | |
| Surface | NA | NA | NA | NA | 1.0 | NA |
| Subsurface | NA | NA | NA | NA | 0.06 | NA |
| Combined | NA | NA | NA | NA | 1.0 | NA |
| Plutonium-238 | | | | | | |
| Surface | 0.03 | NA | NA | NA | NA | 0.19 |
| Subsurface | 0.03 | NA | NA | NA | NA | 0.11 |
| Combined | NA | 0.03 | NA | NA | NA | 0.13 |
| Plutonium-239/240 | | | | | | |
| Surface | NA | 0.05 | NA | NA | NA | 0.23 |
| Subsurface | NA | 0.04 | NA | NA | NA | 0.17 |
| Combined | NA | 0.04 | NA | NA | NA | 0.18 |
| Potassium-40 | | | | | | |
| Surface | NA | 20 | NA | NA | NA | 36 |
| Subsurface | 20 | NA | NA | NA | NA | 36 |
| Combined | NA | NA | 22 | NA | NA | 37 |
| Radium-226 | | | | | | |
| Surface | NA | NA | 1.2 | NA | NA | 1.8 |
| Subsurface | NA | 1.1 | NA | NA | NA | 2.1 |
| Combined | 1.1 | NA | NA | NA | NA | 2.0 |
| Strontium-90 | | | | | | |
| Surface | 0.17 | NA | NA | NA | NA | 1.10 |
| Subsurface | 0.16 | NA | NA | NA | NA | 0.61 |
| Combined | 0.17 | NA | NA | NA | NA | 0.72 |
| Thorium-228 | | | | | | |
| Surface | NA | 0.96 | NA | NA | NA | 1.7 |
| Subsurface | NA | NA | 0.93 | NA | NA | 1.6 |
| Combined | NA | NA | 0.97 | NA | NA | 1.5 |
| Thorium-230 | | | | | | |
| Surface | 1.4 | NA | NA | NA | NA | 3.1 |
| Subsurface | 1.6 | NA | NA | NA | NA | 3.1 |
| Combined | 1.5 | NA | NA | NA | NA | 3.0 |
| Thorium-232 | | | | | | |
| Surface | NA | NA | 0.95 | NA | NA | 1.4 |
| Subsurface | NA | NA | 0.92 | NA | NA | 1.6 |
| Combined | NA | NA | 0.94 | NA | NA | 1.4 |
| Tritium | | | | | | |
| Surface | NA | 0.17 | NA | NA | NA | 4.6 |
| Subsurface | 0.02 | NA | NA | NA | NA | 0.37 |
| Combined | NA | 0.08 | NA | NA | NA | 1.6 |

**Table V.3 Radionuclide Background Levels**
**(All Values in pCi/g)**
**(Continued)**

| Parameter | Central Tendency | | | Tolerance Limit | | |
|---|---|---|---|---|---|---|
| | Median | Geometric Mean | Arithmetic Mean | Detection Limit | Maximum | Upper 95% Sample Tolerance Limit |
| Uranium-234 | | | | | | |
| Surface | NA | NA | 0.81 | NA | NA | 1.1 |
| Subsurface | NA | NA | 0.83 | NA | NA | 1.1 |
| Combined | NA | NA | 0.82 | NA | NA | 1.1 |
| Uranium-235/236 | | | | | | |
| Surface | NA | 0.04 | NA | NA | NA | 0.12 |
| Subsurface | NA | 0.04 | NA | NA | NA | 0.11 |
| Combined | NA | 0.04 | NA | NA | NA | 0.11 |
| Uranium-238 | | | | | | |
| Surface | NA | NA | 0.89 | NA | NA | 1.2 |
| Subsurface | NA | NA | 0.91 | NA | NA | 1.2 |
| Combined | NA | NA | 0.90 | NA | NA | 1.2 |

U - Below detectable limits.
NA - Not applicable.

## Table V.4 Anion Background Levels
## (All Values in mg/kg)

| Parameter | Central Tendency | | | Tolerance Limit | | |
|---|---|---|---|---|---|---|
| | Median | Geometric Mean | Arithmetic Mean | Detection Limit | Maximum* | Upper 95% Sample Tolerance Limit |
| Chloride | | | | | | |
| Surface | NA | 44 | NA | NA | NA | 95 |
| Subsurface | NA | 46 | NA | NA | NA | 102 |
| Combined | 45 | NA | NA | NA | NA | 107 |
| Fluoride | | | | | | |
| Surface | NA | NA | 2.7 | NA | NA | 5.1 |
| Subsurface | 3.9 | NA | NA | NA | NA | 6.8 |
| Combined | 3.3 | NA | NA | NA | NA | 6.7 |
| Nitrate/Nitrite | | | | | | |
| Surface | NA | 7.3 | NA | NA | NA | 33 |
| Subsurface | NA | 2.7 | NA | NA | NA | 14 |
| Combined | NA | 4.4 | NA | NA | NA | 26 |
| Sulfate | | | | | | |
| Surface | 70 | NA | NA | NA | NA | 150 |
| Subsurface | 30 | NA | NA | NA | NA | 120 |
| Combined | 31 | NA | NA | NA | NA | 150 |
| TOC | | | | | | |
| Surface | NA | NA | 15,000 | NA | NA | 33,000 |
| Subsurface | NA | 6,600 | NA | NA | NA | 49,000 |
| Combined | NA | NA | 12,000 | NA | NA | 28,000 |

NA - Not applicable.

samples, and the D'Agostino test for data sets with more than 50 samples. The flowchart in Appendix K describes the methods used to determine data set distribution.

Central tendency for normal distribution is calculated with the arithmetic mean. The upper 95% mean confidence level is calculated for normal distributions with the arithmetic mean. The upper 95% confidence level is the largest anticipated value of the mean, 95 percent of the time. The upper 95% tolerance limit represents the largest single sample value 95 percent of the time. Central tendency for lognormal data sets is best calculated with the geometric mean. The tolerance limit for lognormal distributions are also described with the upper 95% sample tolerance limit.

Shapiro-Wilk's test is run on the surface and subsurface data sets to determine if the data come from normal or lognormal populations. D'Agostino's test is run on the combined data set to determine the distribution. Separate tests are used because of different sample sizes. If the null hypotheses for these tests are rejected, the data set is considered to have come from an unknown distribution and nonparametric statistics are used. Nonparametric populations with greater than 4 detections use the median for central tendency and use a one-sided, nonparametric, upper 95% tolerance limit. If a data set has fewer than 4 detections, the distribution is classified unknown due to a lack of data. Therefore central tendency cannot be calculated accurately, and the detection limit is reported for the upper limit.

Nondetect observations are incorporated in the statistical evaluations in accordance with EPA guidelines (EPA 1989). A nondetectable result is defined as any sample analytical results with detections reported to be less than the detection limit as defined by the analytical method. For example, an inorganic parameter is considered nondetect if the concentration was below the instrument detection limit (IDL) An organic parameter or radionuclide is considered nondetect if the concentration is less than the method detection limit (MDL).

All nondetected values were set to one-half the detection limit. In instances where a detected value is qualified nondetect (noted on tables as U or UJ), one-half the detected value is incorporated into the statistical analyses.

# SECTION 6

SECTION 6

# SECTION 6
# DISCUSSION OF RESULTS

## 6.1 POTENTIAL SOURCES OF BACKGROUND CONSTITUENTS

Background soils analytical and statistical results display a range of chemical parameters and contaminants likely to be encountered in Ohio soils that have not been impacted by a local pollution source. Three potential sources typically contribute to measured concentrations: natural soil chemistry, atmospheric deposition, and local pollution sources. The locations sampled in this investigation were selected to avoid local pollution sources.

There are other industries capable of present or historical pollution through the air in the vicinity of the Mound Plant. These include a power plant, a steel mill, and a paper mill. The City of Miamisburg Power Plant and Dayton Power and Light. Chemicals expected to be emitted from these industries include:

- From coal burning power plants, vanadium, arsenic, selenium, mercury, sulfur oxides and nitrogen oxides.
- From paper mills, phenol, ammonia, hexane, xylene, and toluene.
- From Steel Mills, hydrogen sulfide, sulfur dioxide, iron oxide, silicon dioxide, magnesium, and manganese, from a blast furnace mill, and iron, zinc, silicon dioxide, calcium oxide, manganese, lead, chromium, aluminum, fluorene, and chlorine.

These industries are common in the State of Ohio, and their contribution to human-influenced background levels is considered to be included in general atmospheric deposition.

Soil formation and original geologic material determine the distribution of soil chemistry with respect to area and depth. Soil formation is a result of original geologic material, climate, living organisms, topography, and time. Through soil formation, organic material is added to the surface layer and then leached through the soil horizon. The elements that are readily leached are calcium, magnesium, sodium, and potassium (USDA, 1980). Other inorganic compounds break down and leach more slowly. Differences in geological material may result in differences in chemical composition due to materials having come from different geologic settings. Inorganic concentrations measured during this study appear to reflect natural conditions and inorganic amounts resulting from atmospheric deposition in the Dayton-Miamisburg area and, therefore, appear to be typical background soil conditions. This will be evaluated further after results of the Regional Soils Investigation are available.

Concentrations of inorganic, organic, and radioactive elements may represent natural or human-influenced levels. Inorganic concentrations in soils under natural conditions result from in situ weathering and leaching of geological parent material. There are a wide variety of sources of human-influenced additions to soils. The major sources include atmospheric depositions from industrial emissions such as smelting and refining, automotive emissions, and atmospheric weapons testing. These sources leave elevated concentrations for some chemicals in the surface soil. This applies to chemicals that are not readily leached through clay rich soils.

Pesticides and PCBs are present in soils primarily due to current or historical agricultural activity. A majority of the background soil sample locations in this investigation are within areas with agricultural history. This is true for a large part of Southwestern Ohio.

## 6.2 COMPARISON OF OHIO BACKGROUND CONCENTRATIONS

Comparison of the Mound Plant data set with other existing soils data for the State of Ohio provides useful insights into the accuracy and credibility of the data and elevated chemical levels. The comparative data are summarized in Tables VI.1, VI.2, and VI.3. Arithmetic and geometric means of the various data sets are presented for comparative purposes. For additional information, a short summary of the other background studies that have been conducted is provided below.

### 6.2.1 Fernald Environmental Management Project

The Fernald Environmental Management Project (FEMP) site is a contractor-operated federal facility where pure uranium metals were produced for the DOE between 1951 and 1989. In July 1986, as part of the Federal Facilities Compliance Agreement (FFCA) signed between DOE and the U.S. EPA, a RI/FS was initiated. The RI/FS required investigation of background soil concentrations. The background soils field investigation was conducted between 12 March 1992 and 20 April 1992.

The FEMP site is located on 1050 acres in a rural area of Hamilton and Butler counties, approximately 18 miles northwest of Cincinnati, Ohio, and approximately 38 miles southwest of the Mound Plant Site (Figure 6.1). The background investigation area is located approximately 2 miles north-northwest of the FEMP facility. As part of a RI/FS investigation, FEMP sampled 30 background locations in a six-square-mile area near Shandon, Ohio. Samples were collected from three depths in each boring: 0 to 6 inches, 36 to 42 inches, and 48 to 54 inches. A total of 89 soil samples were collected from 0 to 54 inches. Samples collected in the FEMP study were analyzed for inorganics (metals) and

**TABLE VI.1 Comparison of Ohio Inorganic Background Concentrations**
**(Arithmetic Means)**
**(All Values in mg/kg)**

| Analyte | Mound Plant (WESTON) 0-2 ft. September 1993 | Mound Plant (WESTON) 0-0.5 ft. September 1993 | FEMP Site 0-0.5 ft. March 1993 | WPAFB (SAIC) 0-3 ft. July 1991 | WPAFB (SAIC) 0-2 ft. July 1991 | WPAFB (ES) 0-2 ft. January 1991 | New Jersey Background Study March 1992 | USGS National Background Study October 1962 |
|---|---|---|---|---|---|---|---|---|
| Aluminum | 10,101.04 | 8,975.83 | 7,863 | 12,100 | 6,410 | 7,553.20 | NA | 50,000 |
| Antimony | R | R | 3.9 | 3.1 | NA | NA | NA | NA |
| Arsenic | 5.18 | 5.51 | 5.18 | 11.9 | 4.3 | 4.8 | NA | 9.80 |
| Barium | 86.25 | 86.33 | 61.95 | 103 | 28.7 | 65.2 | 1.38 | 300.00 |
| Beryllium | 0.74 | 0.75 | 0.26 | NA | NA | NA | NA | NA |
| Boron | NA | NA | 9.11 | NA | NA | NA | 0.37 | NA |
| Cadmium | 0.47 | 0.42 | 0.32 | 0.9 | NA | 0.9 | NA | NA |
| Calcium | 48,834.89 | 30,841.44 | 1,900 | 47,400 | 117,000 | 9,901.4 | 12.3 | 31,000 |
| Chromium | 13.16 | 12.94 | 10.43 | 14.00 | 7.8 | 11.4 | NA | 50.0 |
| Cobalt | 10.82 | 10.74 | 9.66 | 8.4 | 4.8 | 8.2 | 17.2 | 10.0 |
| Copper | 16.41 | 16.42 | 7.33 | 17.3 | 9.6 | 9.8 | NA | 30.0 |
| Cyanide | NA | NA | 0.10 | NA | NA | NA | NA | NA |
| Iron | 22,176.47 | 21,208.33 | 14,465 | 19,100 | 12,800 | 11,877.8 | 58.4 | 15,000 |
| Lead | 20.77 | 26.61 | 17.22 | 12.4 | 4.4 | 26.46 | NA | 15.0 |
| Magnesium | 13,275.20 | 10,350.83 | 1,646 | 19,500 | 49,200 | 4,573.1 | NA | 10,000 |
| Manganese | 650.73 | 684.31 | 650.0 | 710.0 | 357 | 548.2 | 261 | 500 |
| Mercury | 0.03 | 0.03 | 0.07 | 0.11 | NA | NA | NA | 0.08 |
| Molybdenum | 14.01 | 15.01 | 1.30 | NA | NA | NA | NA | NA |
| Nickel | 19.68 | 17.58 | 9.66 | 16.8 | 11.1 | 10.13 | 10.3 | 20.0 |
| Potassium | 795.80 | 858.37 | 742 | 763.0 | 2,370 | 705.9 | NA | 18,000 |
| Selenium | 0.22 | 0.20 | 0.39 | NA | NA | 0.46 | 0.07 | 0.60 |
| Silicon | NA | NA | 1,114 | NA | NA | 0.90 | NA | NA |

**TABLE VI.1 Comparison of Ohio Inorganic Background Concentrations**
**(Arithmetic Means)**
**(All Values in mg/kg)**
**(Continued)**

| Analyte | Mound Plant (WESTON) 0-2 ft. September 1993 | Mound Plant (WESTON) 0-0.5 ft. September 1993 | FEMP Site 0-0.5 ft. March 1993 | WPAFB (SAIC) 0-3 ft. July 1991 | WPAFB (SAIC) 0-2 ft. July 1991 | WPAFB (ES) 0-2 ft. January 1991 | New Jersey Background Study March 1992 | USGS National Background Study October 1962 |
|---|---|---|---|---|---|---|---|---|
| Silver | 0.69 | 0.72 | 1.3 | NA | NA | 0.90 | 0.14 | 0.08 |
| Sodium | 87.12 | 73.84 | 34.34 | 105.0 | 321 | 170.0 | NA | 10,000 |
| Thallium | 0.15 | 0.15 | 0.26 | 0.20 | NA | 0.60 | NA | NA |
| Tin | 5.20 | 5.15 | NA | NA | NA | NA | NA | NA |
| Vanadium | 16.72 | 16.69 | 19.76 | 26.1 | 12.4 | 18.2 | 17.6 | 70.0 |
| Zinc | 80.05 | 81.33 | 39.99 | 58.0 | 26.6 | 50.6 | 73.4 | NA |

0-2 ft. - Depth of sample collection (feet)
NA - Not analyzed
FEMP - Fernald Environmental Management Project
WPAFB - Wright Patterson Air Force Base
SAIC - Science Application International Corporation
ES - Engineering Science
USGS - United States Geological Survey
R - Rejected.

**Table VI.2 Comparison of Ohio Pesticide/PCB Background Concentrations (All Values in $\mu$g/kg)**

| Analyte | Mound Plant (WESTON) 0-2 ft. September 1993 | WPAFB (ES) 0-2 ft. January 1991 | New Jersey Background Study March 1992 |
|---|---|---|---|
| 4,4-DDD | 2.31 | 13.00 | 23.2 |
| 4,4-DDE | 2.75 | 30.3 | NA |
| 4,4-DDT | 21.17 | 15.80 | 79.6 |
| Arochlor-1254 | 21.59 | 216.60 | NA |
| Endosulfan-II (beta) | 2.04 | NA | NA |
| Methoxychlor | 10.97 | 32.30 | NA |

0-2 ft. - Depth of sample collection (feet)
WPAFB - Wright Patterson Air Force Base
ES - Engineering Science
NA - Not analyzed

**TABLE VI.3 Comparison of Ohio Radionuclide Background Concentrations in Surface Soils (All Values in pCi/g)**

| Constituent | Mound Plant (WESTON) 0-6 in. 1993 | Mound Plant (UC) 2-5 cms 1990 | FEMP Site 0-6 in. 1993 | DOE/ UMTRAP 0-6 cms 1975 |
|---|---|---|---|---|
| Cesium-137 | 0.35 | 0.44 | 0.341 | NA |
| Lead-210 | NA | NA | 0.904 | NA |
| Plutonium-238 | 0.05 | NA | NA | NA |
| Plutonium-239/240 | 0.06 | NA | NA | NA |
| Potassium-40 | 20.75 | 15.40 | 16.129 | NA |
| Radium-224 | NA | NA | 0.798 | NA |
| Radium-226 | 1.15 | 1.42 | 1.168 | 1.4 |
| Radium-228 | NA | NA | 1.053 | NA |
| Strontium-90 | 0.74 | NA | NA | NA |
| Thorium-228 | 0.99 | 0.96 | 1.047 | NA |
| Thorium-230 | 1.68 | NA | 1.385 | NA |
| Thorium-232 | 0.95 | 0.94 | 0.998 | 1.0 |
| Tritium | 0.57 | NA | NA | NA |
| Uranium-234 | 0.81 | NA | 0.979 | NA |
| Uranium-235/236 | 0.05 | NA | 0.066 | NA |
| Uranium-238 | 0.89 | 1.49 | 1.039 | 1.3 |

WESTON - Represents geometric mean concentration of 48 surface soil samples (0 to 6 inches) during the Background Soils Investigation around Mound Plant site from July to August 1993.

UC - University of Cincinnati study representing arithmetic mean concentration of 18 surface soil samples (2 to 5 cms) in January - April 1991.

FEMP - Fernald Environmental Management Project Background Soil Investigation represents geometric mean concentrations of 30 surface soil samples (0 to 6 inches) in March 1993 near Shandon, Ohio.

DOE - U.S. Department of Energy Study for Selected Radionuclides representing geometric mean concentration of 12 surface soil samples collected from 0 to 6 cm depth in Ohio, 1975.

UMTRAP - Uranium Mill Tailing Remedial Action Project.

NA - Not analyzed.

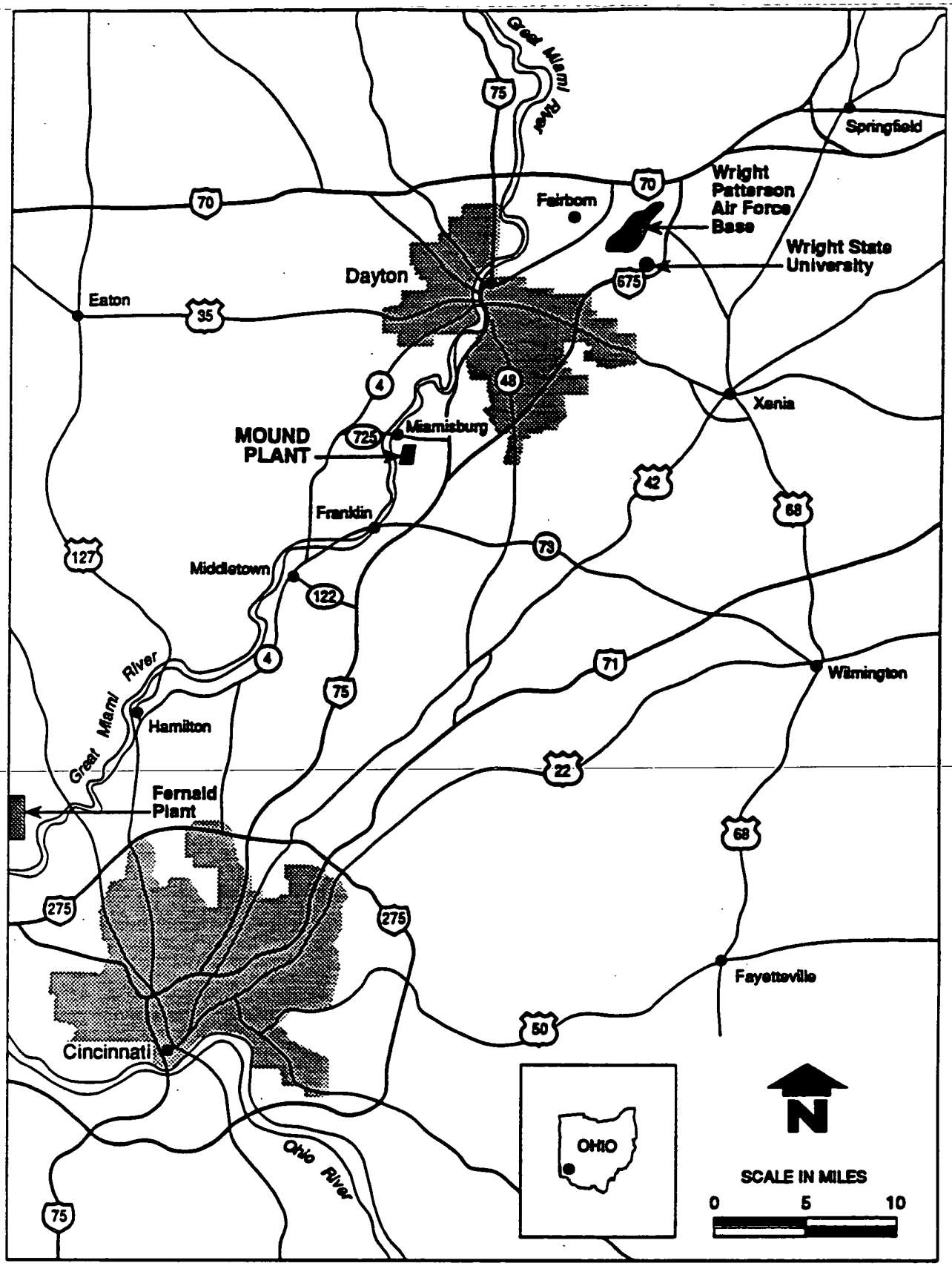



FIGURE 6.1 State of Ohio Background Soil Investigations

radionuclides. Presented in Tables VI.1 and VI.3 are comparisons of the FEMP concentrations to data from this investigation and the other background studies in the State of Ohio.

### 6.2.2 Wright Patterson Air Force Base Background Investigation

In July 1991, Science Application International Corporation (SAIC) conducted a Site Investigation (SI) and background study at Wright Patterson Air Force Base (WPAFB) as part of an agreement between the USEPA and the Department of Defense (DOD). WPAFB is located approximately 20 miles north-northeast of the Mound Plant (Figure 6.1). SAIC collected seven soil samples from three borings and one background location. Soil boring locations were located outside known site boundaries. Samples were analyzed for TPH, VOCs, SVOCs, Pest./PCBs, priority pollutant metals, and radionuclides. Data collected from one boring (0 to 3 ft) and the background location (0 to 2 ft) are compared to data from this investigation. Table VI.1 compares mean concentrations of Metals. All other parameters were analyzed from soil samples taken from a depth greater than 3 feet, and are not directly comparable to Mound background data.

SAIC identified the radiological evaluation as limited by the number of background samples. To provide a limited evaluation, SAIC averaged the activities and error counts provided by the analytical laboratory and established a range of background activities. SAIC compared results to other background studies and concluded that the site results fell within this range and hence the radioactivity was considered background.

### 6.2.3 Wright Patterson Air Force Base Background Investigation - Engineering Science

Engineering Science (ES) conducted background soil characterization as part of an SI for eight earthfill zones located within the WPAFB. The investigation was conducted from October 1991 to May 1992. Three on-site soil sample locations and ten off-site soil samples were selected by ES based on site topography. The three on-site soil samples are located at the southern end of WPAFB. The ten off-site locations were collected from Wright State University property, a previously chosen ecological reference area. Wright State University is located less than 2.5 miles south of WPAFB and approximately 16.5 miles northeast of the Mound Plant Site (Figure 6.1). The soil samples were obtained from a depth of 0 to 2 feet and were analyzed for VOCs, SVOCs, cyanides, inorganic compounds, pesticides/PCBs, and herbicides. Data collected in the ES investigation (0 to 2 ft) is compared to the Mound Plant Background Soils Investigation concentrations (0 to 2 ft) as presented in Tables VI.1 and VI.2.

### 6.2.4 Mound Background Investigation - University of Cincinnati

Between January and April 1990, the University of Cincinnati (UC) Department of Mechanical, Industrial, and Nuclear Engineering conducted an investigation of the background radionuclide concentrations within a 10 km radius of the Mound Plant Site. A total of 18 surface soil samples (2 to 5 cm) were collected and analyzed using a Gamma Spectroscopy system coupled with a high efficiency Germanium detector. Radionuclides measured were uranium-238, radium-226, thorium-232, potassium-40, and cesium-137. The April 1990 mean concentrations (2 to 5 cm) of these radionuclides are compared to results of the Background Soils Investigation mean surface interval concentrations (0 to 0.5 ft) in Table VI.3. All 1993 concentrations are less than or comparable to UC 1990 concentrations except Potassium-40.

### 6.2.5 DOE United States Radionuclide Background Concentrations

In 1975, the Uranium Mill Tailings Remedial Action Program (UMTRAP) under the Atomic Energy Commission (AEC) conducted assessments of 356 locations in 33 states as part of a background measurement program of selected radionuclides in surface soils across the United States. A total of 12 surface soil samples (0 to 6 cm) were collected from the State of Ohio. The Remedial Action Survey and Certification Activities (RASCA) group of the Health and Safety and Certifications Activities at Oak Ridge National Laboratory measured the concentration of three radionuclides radium-226, thorium-232, and uranium-238. Table VI.3 compares the results of the 1975 DOE investigation with the Background Soils Investigation. Mound background soils have consistently lower concentrations of the three radionuclides measured in the 1975 DOE investigation.

### 6.2.6 United States Geological Survey (USGS)

In October, 1962 the USGS conducted a background soils investigation of inorganic parameters for the conterminous United States. The information obtained from this report was published by the USGS Department of Interior, entitled "Chemical Analysis of Soils and Other Surficial Materials of the Conterminous United States" (1981). The report does not give information on the depth, location of the specific sampling area, or the number of samples collected and analyzed. Table VI.1 compares the inorganic concentrations of the USGS October 1962 investigation to the inorganic concentrations in samples during the Background Soils Investigation (0 to 0.5 feet).

### 6.2.7 New Jersey Background Investigation

In March, 1992, a study of background soil concentrations of constituents and contaminants was conducted to support hazardous site cleanup efforts in the State of New Jersey. The study was conducted by the New Jersey Department of Environmental Protection and Energy Site Remediation Programs and Division of Science and Research. A total of 80 soil samples were collected throughout the state from a depth of 0-1 foot. The majority of the samples were collected from parklands throughout the state, and represent soils with no direct source of pollution other than from atmospheric deposition. Thirty-five of the samples were collected from rural, undisturbed areas of the state. Thirty-seven samples were collected from urban and suburban parks. The samples were analyzed for inorganics, pesticide/PCBs, PAHs, and chlorinated herbicides. Presented in Tables VI.1 and VI.2 are comparisons of the New Jersey background concentrations to data from this investigation and background studies in the State of Ohio. New Jersey inorganic concentrations are generally lower than all of the Ohio background concentrations, but the New Jersey pesticide concentrations are greater than the Ohio background concentrations.

# SECTION 7

SECTION 7

# SECTION 7
# RECOMMENDATIONS

This report describes the characterization of background soil characteristics for the Mound Plant. The background study was conceived as a two-phase investigation. The first phase described in this report characterizes soil chemistry in soil types identical to those known on the Mound Plant. Possible contamination from the Mound Plant or other human factors could theoretically occur at the Phase I locations. Such contamination could occur if airborne deposition carried contamination from the Mound Plant or other nearby facilities to the Phase I locations.

The Regional Soils Investigation for the Mound Plant is currently in progress (March 1994). This investigation will investigate chemical and radionuclide concentrations in soil from the Mound Plant fenceline to a distance of 100,000 feet along 16 separate compass vectors. That investigation will investigate the zone of influence of any airborne deposition from the Mound Plant. Then Phase II background locations will be chosen beyond any discovered zone of influence.

There is indication of human-influenced effects within the Mound background study area. Specifically, these are the occurrence of pesticides. These effects are consistent with other background soils investigations. Soil chemical concentrations measured during this investigation reflect natural conditions including amounts resulting from atmospheric deposition in the Dayton-Miamisburg area and, therefore, are typical of background soil conditions for Southwest Ohio.

Several radionuclides measured in this Phase I are generally comparable to measurements from other studies. Plutonium-238 occurs at some locations in concentrations greater than the apparent background reported from a previous Mound study (DOE 1991). This 1977 study completed by Mound Plant personnel, assumed any value exceeding 0.0002 pCi/g to be the result of past emissions from Mound Plant. It is recommended that the plutonium-238 background be reevaluated after the completion of the Regional Soils Investigation and the Phase II Background Soils Investigation, when more recent data is available, with similar reporting limits.

The concentration of thorium-230 reported in soil type MoC is greater than the concentration of thorium-230 in the other 15 soil types. In that single soil type, the thorium-230 concentration exceeds the apparent background. To confirm or refute the possible influence of Mound Plant, it is recommended that additional background samples be collected from this soil type and analyzed for thorium-230.

The results of the Phase I background investigation were compared to several other local, regional, and national studies. The chemical and radionuclide concentrations measured in this study are less than and consistent with the other comparable studies with the exception of plutonium-238, thorium-230,

and tritium. It is recommended that Phase II background investigations should not be done for TAL metals, based on comparable results of background studies in Ohio. Further evaluation will be conducted after the Regional Soil Investigation is completed to support the recommendation.

The Operable Unit 9 QAPP contains the procedures for the quality control of chemical and radionuclide analyses. The QAPP requires data validation independent from the analytical laboratories. The results of the data validation are that the analytical data are qualified.

The data validators rejected all of the results for antimony because of a quality control problem (low matrix spike recovery). Based on historical records of waste management at Mound Plant (DOE 1992), the usage of antimony at Mound was only a trace impurity in other materials. Therefore, the definition of background antimony concentrations is not an immediate need compared to other materials used in greater quantities. It is recommended that additional background sampling for antimony be completed during the design of the Phase II Background Soils Investigation.

Some of the individual chemicals had nonparametric distributions. This means that part of their distribution statistics cannot be calculated. For some chemicals, the distribution is nonparametric because the chemical was detected in relatively few (less than 10) of the 48 surface or 48 subsurface sample analyses. It is important that all of the pesticides and PCB distribution were nonparametric or unknown. Without certain descriptive statistics such as the 95% confidence interval, it will be difficult to compare any measurements of these chemicals on site with background. It is recommended that the chemicals classified as nonparametric should be reevaluated. A reevaluation could include (a) augmenting the Mound data with other suitable background studies, (b) collecting additional samples only for those analyses, or (c) an alternative approach.

In summary, the following recommendations are made:

(1) It is recommended that TAL metals not be included in the Phase II Background Soils Investigation analyses. Further evaluation will be conducted after the Regional Soil Investigation is completed.

(2) It is recommended that the plutonium-238 background be reevaluated after the completion of the Regional Soils Investigation.

(3) It is recommended that additional background samples be collected from the Moc soil type and analyzed for thorium-230.

(4) It is recommended that additional background sampling for antimony be evaluated during the design of the Phase II Background Soils Investigation.

(5) It is recommended that the constituents classified as nonparametric should be reevaluated. A reevaluation could include (a) augmenting the Mound data with other suitable background studies, (b) collecting additional samples only for those analyses, or (c) an alternative approach.

# SECTION 8

SECTION 8

## SECTION 8

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# APPENDIX A

APPENDIX A

# APPENDIX A

## SOIL CONSERVATION SERVICE SOIL DESCRIPTIONS

## APPENDIX A

## SOIL SERIES DESCRIPTIONS

### Corwin Series

The Corwin Series consists of dark-colored moderately well-drained soils that formed in calcareous loam glacial till. In places these soils have a silt cap of loess as much as 18 inches thick. They are nearly level to gently sloping and occupy upland areas.

A representative profile has a very dark grayish-brown silt loam plow layer about 6 inches thick. The next layer is very dark brown silt loam 3 inches thick. Several layers make up the subsoil. The topmost layer of the subsoil is dark-brown silty clay loam. Deeper layers are dark yellowish-brown silty clay loam and clay loam and brown loam. The subsoil is underlain by calcareous loam glacial till at a depth of about 43 inches.

Corwin soils have a medium available moisture capacity and moderately slow permeability. They are seasonally saturated for short periods in winter and early spring. Organic matter content is high in the uppermost 10 to 13 inches of these soils. The root zone is medium acid or strongly acid. Acidity decreases as depth increases.

Corwin silt loam, 2 to 6 percent slopes (CoB). This soil is in wide, convex strips around the base of limestone controlled hills and in small, irregularly-shaped spots on the till plains. Surface runoff is medium to rapid.

### Fairmont Series

The Fairmont series consists of well-drained, dark-colored soils that formed in residuum weathered from thin-bedded limestone and clay shale bedrock. These soils form on slopes that are moderately steep and very steep. The primary use of these soils is for pastures and trees.

In a representative profile, the surface layer is very dark grayish-brown and olive silty clay. It overlies interbedded limestone and calcareous clay shale bedrock at a depth of 19 inches, which constitutes the C horizon.

Fairmont soils have a low available moisture capacity and moderately low permeability. They have a shallow rooting depth and are neutral to moderately alkaline.

Fairmont silty clay loam, 12 to 25 percent slopes, moderately eroded (FaE2). This soil is in narrow bands around the sides of hills and is underlain by limestone bedrock. The profile of this soil is similar to the one described as representative for the Fairmont series, except that erosion has removed so much of the original dark surface layer that only 3 or 4 inches of it remains over the olive-brown subsoil. Rills have cut into the upper part of the subsoil in places. The water infiltration rate and available moisture capacity are lower than uneroded Fairmont soils. Surface runoff is rapid and slope is a limitation for most nonfarm uses.

Fairmont silty clay loam, 25 to 50 percent slopes, moderately eroded (FaF2). This soil is in narrow bands around the sides of hills and is underlain by limestone bedrock. The profile of this soil is similar to the one described as representative for the Fairmont series, except that erosion has removed so much of the original dark surface layer that only 2 or 3 inches of it remains. Rills have cut into the olive-brown upper part of the subsoil in places. Surface runoff is very rapid.

**Hennepin Series**

The Hennepin series consists of well-drained soils that are shallow to calcareous loam glacial till. These soils are steep to very steep, and they are in all townships of the county. In Montgomery County, the Hennepin soils are mapped only in undifferentiated mapping units with Miamian soils.

A representative profile has a thin, dark grayish-brown silt loam surface layer about 4 inches thick. This is underlain by a thin, brown clay loam and loam subsoil. Brown, calcareous loam till is at a depth of about 12 inches. The available moisture capacity of Hennepin soils is low. Their permeability is moderately slow. Hennepin soils have a shallow root zone and generally contain small amounts of organic matter. Their root zone is mostly neutral to mildly alkaline.

Hennepin and Miamian soils with 18 to 50 percent slopes severely eroded (HmF3). These soils are found on banks of the larger intermittent drainageways and along valley walls of most of the larger streams in the county. Some areas of the mapping unit are dominantly Miamian soils or Hennepin soils, and in some areas, both soils occur. Each soil is described under its respective series headings. The profile of these soils is similar to that described as representative for the Hennepin and Miamian series, except that the surface layer and, in many places, the subsoil have been lost through erosion, and gullies are common. In many areas of these soils, the surface layer is calcareous loam till, and in other areas it is a clay loam. In both kinds of areas, the soils are poor for growing plants. The Hennepin soils make up 50 percent of this mapping unit, the Miamian soils about 55 percent, and other soils about 15 percent.

Hennepin and Miamian silt loams, 18 to 25 percent slopes, moderately eroded (HeE2). These soils are along the banks of the larger drainageways in the rolling moraines and along the valley walls of most of the streams in the county. Some areas of this mapping unit are dominantly Hennepin soils, some are dominantly Miamian soils, and in some areas, both soils occur. The soils in this mapping unit have a surface layer that is thinner than the surface layer of the profile described as representative for the Miamian and Hennepin series. Because the slope and erosion hazard are similar, these soils were not mapped separately. The Hennepin soil makes up about 50 percent of this mapping unit, the Miamian soil about 35 percent, and other soils about 15 percent.

**Made Land**

Made Land (Mb) consists of sanitary landfills and small, highly mixed spots outside of built-up areas. The original soil profile has been altered or buried. These areas contain a mixture of soil material and underlying material, and they commonly contain foreign material such as masonry or trash. The value of areas of Made Land for farming or construction differs, and on-plant investigations should be made before this land type is used for these purposes.

**Miamian Series**

The Miamian Series consists of well-drained soils that formed either wholly or partially in calcareous glacial till. The upper part of most Miamian soils is a capping of silt or loess that ranges from 0 to 18 inches in thickness. These soils form on slopes that are nearly level to very steep. They occupy upland areas of till plains and moraines in all parts of the county.

A representative profile has a brown silt loam plow layer about 7 inches thick. The upper part of the subsoil is 3 inches of dark yellowish-brown silty clay loam. In descending order, the subsoil from a depth of 10 to 30 inches is dark yellowish-brown clay, dark yellowish-brown clay loam, and yellowish-brown loam. Below the subsoil, a depth of about 30 inches, is calcareous loam glacial till that is dense and compact.

Miamian soils have a medium available moisture capacity and moderately low permeability. The compact till tends to limit roots to a moderate depth. The root zone is strongly acid in the uppermost 1.5 feet in some places, but it is less acid as depth increases.

Miamian clay loam, 6 to 12 percent, severely eroded (MnC3). This soil is in narrow strips along waterways on the moraines and stream-dissected till plains. It is so eroded that most of the original

surface layer is gone, and the plow layer is mostly clay loam from the subsoil. In many places, the underlying calcareous glacial till is exposed at the surface.

The available moisture capacity and amount of plant nutrients are low. Surface tilth is poor. The structure of the exposed subsoil is unstable and raindrops effectively suspend soil particles, which are carried away in the runoff. Crusting of the surface is common. Rills have formed in many places, and gullies probably will form unless protective measures are taken. Some areas are filled, and these are indicated on the soil maps with a special symbol. Vegetation is difficult to establish on this soil.

Miamian clay loam, 12 to 18 percent slopes, severely eroded (MnD3). This soil is in strips along the small streams on the moraines and stream-dissected till plains. It is eroded so much that most of the original surface layer has been lost, and the subsoil is exposed in many places. Even the underlying calcareous till is exposed in places. The available moisture capacity and the content of plant nutrients are low. The exposed clay loam subsoil or loam glacial till is unstable and susceptible to further erosion. Crusting is common. Vegetation is difficult to establish, and plant cover is sparse. Slope and severe erosion are the dominant limitations for many nonfarm uses.

Miamian silt loam, 2 to 67 percent slopes, moderately eroded (MIB2). This soil is in large, irregularly-shaped areas of the undulating moraines and in small spots, on the undulating till plains. It has a profile that is similar to the one described as representative for the Miamian Series except that it is eroded. Surface runoff is rapid.

Included in mapping are small areas of severely eroded soils on the knobs and shoulders of slopes. Also included, mostly where this soil is adjacent to Milton soils, are small areas where limestone bedrock is at a depth of less than 40 inches. Moderately low permeability and the degree of slope are limitations for some nonfarm uses.

Miamian-Urban Land Complex (MoC). The soils in this mapping unit are on uplands and are underlain by calcareous glacial till. Most of the soils have been disturbed or buried by filling and other earthmoving operations. The undisturbed spots are mainly a Miamian soil that has a profile similar to that described as representative for the series.

Included in mapping are undisturbed spots of Russell and Kendallville soils.

**Milton Series**

The Milton Series consists of well-[drained soils that formed in 20 to 40 inches of glacial till over limestone bedrock. These soils occupy uplands and are nearly level to moderately steep.

A representative profile has a dark-brown silt loam plow layer about 5 inches thick. The subsurface layer is brown silt loam and is similar to the plow layer. These two layers combined are 9 inches thick. To a depth of 25 inches, the subsoil is brown silty clay loam. Below this is dark yellowish-brown clay that weathered from limestone. Limestone bedrock is at a depth of 28 inches.

Milton soils have a moderately deep root zone. The available moisture capacity is medium to low, depending on the depth to rock. Permeability is moderately slow. In some places, these soils are medium acid to neutral in the uppermost 18 inches, but acidity decreases with depth.

Milton silt loams with 2 to 6 percent slope (MsB). This soil is found on the rims of valleys cut into bedrock and on the crests of bedrock-controlled hills of the till plain. The surface layer is friable and easy to till, thought it is susceptible to crusting. Surface runoff is medium to rapid. Limestone bedrock near the surface is a limitation for many nonfarm uses.

Milton silt loams, 2 to 6 percent slopes, moderately eroded (MsB2). This soil is on the rim of the valleys cut into bedrock and on the crests of bedrock-controlled hills of the till plain. Because of erosion and tillage, the plow layer is a mixture of the original surface layer and the finer textured subsoil. Generally, the upper 6 inches of this soil is lower in organic-matter content and is stickler than that of uneroded Milton soils. Also, the available nutrients are less, and the available moisture capacity is lower. Runoff can be increased when the surface soil crusts. Limestone bedrock near the surface is a limitation for many nonfarm uses.

Milton silt loam, 6 to 12 percent slopes, moderately eroded (MsC2). This soil is in narrow strips along the walls of valleys cut into bedrock around the sides of hills that are controlled by bedrock. This soil is also a mixture of the original surface soil and the finer textured subsoil. Consequently, available nutrients are less, and the available moisture capacity is lower than in an uneroded Milton silt loam. Surface runoff is rapid with these soils, and can cause severe erosion.

Milton silty clay loams, 6 to 18 percent slopes, severely eroded (MtD3). These soils are found in narrow bands along the walls of valleys cut into bedrock. It is severely eroded, and all or most of the original surface layer has been lost. The limestone bedrock is exposed at the surface in a few places.

The available nutrients and available moisture capacity are very low. Infiltration is slow, and runoff is rapid to very rapid. Plants are difficult to establish. This soil is better suited to permanent vegetation than to cultivated crops.

**Ritchey Series**

The Ritchey Series consists of well-drained soils that are shallow to bedrock. These soils formed in calcareous glacial till and residuum from limestone and limestone interbedded with clay shale bedrock. Ritchey soils are on uplands and are gently sloping to very steep. Bedrock is at a depth of 10 to 20 inches.

A representative profile has a thin, dark grayish-brown silty loam surface layer over a thin, brown silt loam subsurface layer. These layers combined are 6 inches thick. The upper part of the subsoil is 6 inches thick and consists of dark yellowish-brown silty clay loam. Dark yellowish-brown silty clay is at depths between 12 and 15 inches. The lower part of the subsoil is 3 inches thick and is typically brown silty clay containing many limestone fragments. Below this layer, at a depth of about 18 inches, is limestone or clay shale bedrock.

Ritchey soils have very low available moisture capacity, and they are droughty. Their root zone is shallow. These soils are medium acid to neutral in the upper part and neutral to moderately alkaline in the lower part. Ritchey soils have moderate permeability.

Ritchey silt loam with 2 to 6 percent slope and moderately eroded (ReB2). These soils occupy narrow bands on the shoulders of slopes of the limestone hills. The available nutrients are less and the available moisture capacity in this soil are lower than for a less eroded Ritchey soil. The erosion of the surface layer and consequent mixing with the finer textured subsoil has resulted in a surface layer having lower organic matter content and poorer tilth. This soil is subject to crusting. The shallow depth to limestone is a limitation of this soil to nonfarm uses. Ritchey silty clay loam that has a 6 to 18 percent slope and is severely eroded (RfD3) is in narrow strips along the sides of limestone bedrock valleys. It is so eroded that all the original dark grayish-brown silt loam surface layer is gone and the present surface layer is clayey subsoil material. The depth to bedrock is less than 10 inches in many places. The few inches of clayey subsoil remaining is very low in nutrients, organic matter content, and available moisture capacity. Vegetation is generally scanty, and cover plants are hard to establish on this soil. Slope, severe erosion, and shallow depth to bedrock are limitations for most nonfarm uses of these soils.

## Ross Series

The Ross Series consists of dark colored, well drained soils that formed in recent alluvium on floodplains. These soils are nearly level and occupy bottomlands. They are the dominant soils along the larger streams and common along the smaller streams.

A representative profile has a very dark grayish-brown plow layer about 8 inches thick. At depths between 8 and 22 inches is very dark grayish-brown and very dark brown silt loam that differs only slightly from the plow layer. Between depths of 22 and 56 inches, there are brownish layers of fine sandy loam, silt loam, and loam. Gravelly loamy sand is below a depth of 56 inches.

Ross soils have high available moisture capacity. They are moderately permeable, but runoff is generally slow because these soils are nearly level. Ross soils have a deep root zone in summer. The root zone is mostly neutral to mildly alkaline.

Ross silt loam (Rs). This soil is nearly level and occurs on broad areas of floodplains along major streams and their tributaries. It has a friable plow layer that a high organic matter content. Except in areas protected by dikes or levees, this soil is subject to periodic flooding, particularly during the winter and spring. Flooding is a serious limitation for most nonfarm uses of this soil, particularly for building sites.

## Urban Land

Urban land, loamy material (Um). This soil is found on uplands and is underlain by glacial till or limestone bedrock. The glacial till is loamy but compact. Surface runoff is mostly medium to rapid.

This land has been developed for residential, business, or industrial use to the extent that most of the acreage is under roof and pavement. New construction sites on this land type are a potential source of silt pollution in nearby drainageways.

# APPENDIX B

APPENDIX B

# APPENDIX B

## SOIL DESCRIPTION LOG FORMS

WESTON
MANAGERS DESIGNERS/CONSULTANTS

# SOIL DESCRIPTION LOG

Soil Series - Ross

Project: EG&G Mound
Location: Ross (Rs)
Date: 14 July 93 Time: 14:55

Test Pit Number: MND28-1047
Described By: Thomas Benusa
Thomas Benusa

| HORIZON | DEPTH (Inches) Upper | DEPTH (Inches) Lower | DISTINCTNESS OF BOUNDARY | TEXTURE | % COARSE FRAGMENT | COLOR | DRAINAGE MOTTLING ABUNDANCE | DRAINAGE MOTTLING CONTRAST | STRUCTURE TYPE | STRUCTURE GRADE | CONSISTENCE | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A1 | 0 | 5 | Clear | Silt loam Fine Sands | 0 | 10YR 3/2 Very Dark Gray-Brown | — | — | Gran | Mod. | Friable | many fine to Good Roots & Coarse Rootlets |
| A2 | 5 | 11.5 | Clear | Fine Sand Loam | 0 | 10YR 3/3 Dark Brown | — | — | Subangl. Blocky | W | Friable | Common med to fine roots & rootlets, moderate Biopatterbation |
| A3 | 11 | 15 | Abrupt | Silt loam w/ Fine Sands | 0 | 10YR 3/2 + 10YR 5/3 (Brown) | Few to Common | Distinct | SBK | W | Friable | Few rootlets, moderate redoxymorphic features. |
| BW1 | 15 | 24 ~~34~~ Tmb | Abrupt | Fine Sandy Loam | 0 | 10YR 4/4 Dark Yellow Brown | — | — | SBK | m | Friable | Few mottlets found Few, Fine Roots & Rootlets |
| BW2 | 24 ~~34~~ Tmb | 30+ | - | Loam w/ Fine Sands | 0 | 10YR 3/4 Dark Yellow Brown | — | — | SBK | m | Friable | Few fine Roots |
| — | — | | | | | | | | | | | TMB |
| — | — | | | | | | | | | | | TMB |

LIMITING ZONE DEPTH: ~~2.0~~ ft 30 inches Tmb

DETERMINED BY: Bottom of hole / deepest spade would dig comfortably

SLOPE: 0-1%

SOIL DRAINAGE CLASS: Well drained

WEATHER: Sunny / Hot / Humid

ADDITIONAL COMMENTS:
Soil Color by Munsell Soil Chart
A3 - Soil mixing of fine sands and silts present

Appears to be similar to the SCS description for Ross (Rs)

KB.tc

WESTON

# SOIL DESCRIPTION LOG

**Project:** E G&G Mound
**Location:** FaE2 - Linden Ave
**Date:** 15 July 93 **Time:** 11:50

MND28-
**Test Pit Number:** 1004 - FaE2
**Described By:** Thomas Benusa
Thomas Benusa

| HORIZON | DEPTH (inches) Upper | DEPTH (inches) Lower | DISTINCTNESS OF BOUNDARY | TEXTURE | % COARSE FRAGMENT | COLOR | DRAINAGE MOTTLING ABUNDANCE | DRAINAGE MOTTLING CONTRAST | STRUCTURE TYPE | STRUCTURE GRADE | CONSISTENCE | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ap | 0 | 5 | A | Heavy SILT Loam | 5 | 10YR 3/2 VERY DRK GRAY BROWN | - | - | GRAN | STRONG | FRIABLE | many fine roots med SA-SR-CF STICKY |
| Bt | 5 | 12 | C | Si Hy Clay loAm | 10-20% SA-SR Fine to Coarse | 10YR 3/3 DRK brown | - | - | SBK | MOD | FIRM | Dense, few rootlets |
| C | 12 | 18+ | - | Cobbly SiCL | 25-35% SA-A | 10YR 5/3 BROWN Variegated 2.5YR 4/3 olive brown | - | - | (MOD) SBK MASS. | MOD STRUCT. | FIRM | Dense, Firm Soil, |

TMB

**LIMITING ZONE DEPTH:** 18 inches
**DETERMINED BY:** Coarse Fragments
**SLOPE:** 18-20% slope
**SOIL DRAINAGE CLASS:** Well drained shallow to coarse fragments.

**WEATHER:** Cloudy / Hot / Humid
**ADDITIONAL COMMENTS:** Residential yard - grass/clover/grass covered.



HR 4.

WESTON

# SOIL DESCRIPTION LOG

Project: E.G&G Mound
Location: ~~[illegible]~~ Md. Crains Run Rd
Date: 17 July 93 Time: 10:30

Soil Series - Madeland
Test Pit Number: ~~1018~~ TMB - Md 1018
Described By: Thomas Bonura
Thomas Bonura

| HORIZON | DEPTH (Inches) Upper | DEPTH (Inches) Lower | DISTINCTNESS OF BOUNDARY | TEXTURE | % COARSE FRAGMENT | COLOR | DRAINAGE MOTTLING ABUNDANCE | DRAINAGE MOTTLING CONTRAST | STRUCTURE TYPE | STRUCTURE GRADE | CONSISTENCE | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ap | 0 | 12 | A | LSa | 10-15% | 10YR 4/3 Brown | - | - | Gran | Weak | V. Fr | Fine to Med SR-R Sands and gravels, Mod Om, Few Fine Roots |
| C | 12 | 30 | - | Extremely Gravelly Sands | 50-70% | 10YR 3/3 Brown | - | - | Mass. | Single Grain | Loose | Fine to Coarse SR-R Sands and gravels; Few Few, Fine Roots and [illegible] |

TMB

LIMITING ZONE DEPTH: 30"

DETERMINED BY: Bottom of excavation

SLOPE: 0-3%

SOIL DRAINAGE CLASS: Well drained

WEATHER: Partly Cloudy / Hot / Humid

ADDITIONAL COMMENTS:
Coase fragments range in size from Gravels to Few Stones (9")

KBt.

WESTON

# SOIL DESCRIPTION LOG

Soil Series = Milton

Project: E G & G MOUND
Location: MtB3 (MILTON-UNION RD)
Date: 18 July 93 Time: 11:00

Test Pit Number: 1037 MtD3
Described By: Thomas Ben USA
Thomas Bonura

| HORIZON | DEPTH (Inches) Upper | DEPTH (Inches) Lower | DISTINCTNESS OF BOUNDARY | TEXTURE | % COARSE FRAGMENT | COLOR | DRAINAGE MOTTLING ABUNDANCE | DRAINAGE MOTTLING CONTRAST | STRUCTURE TYPE | STRUCTURE GRADE | CONSISTENCE | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | A | SiCL | 5-10 | 10YR 3/3 Dark Brown | – | – | Gran | mod | Friable/Firm | many Fine Roots, moderate om., mottly silt |
| Bt | 2 | 6 | A | Gravelly SiCL | 15-20 | 10YR 5/4 yelw. Brown | Few | Distinct | SBK | mod. | Firm | moderate OM, SA-SR F-to med-Coarse fragments |
| C | 6 | 12+ | – | Very Gravelly Siltloam | 40-60% | 2.5Y 5/3 ~~Variegated~~ Light Olive Brown | many | distinct | mass | STRUCTURELESS | Friable/Firm | slight om., |

TMB

LIMITING ZONE DEPTH: 12"

DETERMINED BY: Excessive Coarse Fragments

SLOPE: 3-8% (Sloping)

SOIL DRAINAGE CLASS: Somewhat Poorly

WEATHER: SUNNY/Hot/HUMID

ADDITIONAL COMMENTS: thin layer of topsoil over bedrock (Regolith).

KBoto

WESTON

# SOIL DESCRIPTION LOG

Soil Series: Ritchey

Project: E G & G Mound
Location: ReB2 - Ritchey - Union Rd
Date: 18 July 93 Time: 14:25

Test Pit Number: 1040 (ReB2)
Described By: Thomas Benusa
Thomas Benusa

| HORIZON | DEPTH (inches) Upper | DEPTH (inches) Lower | DISTINCTNESS OF BOUNDARY | TEXTURE | % COARSE FRAGMENT | COLOR | DRAINAGE MOTTLING ABUNDANCE | DRAINAGE MOTTLING CONTRAST | STRUCTURE TYPE | STRUCTURE GRADE | CONSISTENCE | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ap | 0 | 6 | A | SiL | 0-2 | 10YR3/3 Dark Brown | - | - | Granular | mod | Friable | many fine roots + rootlets |
| C | 6 | 14+ | - | V. Flaggy Silty Clay loam | 35-50% | 2.5Y 4/3 Olive Brown | F | D | massive | Structureless | Friable / Firm | |

TMB

LIMITING ZONE DEPTH: 14"

DETERMINED BY: Excessive Coarse Fragments

SLOPE: 3-8% Sloping

SOIL DRAINAGE CLASS: Moderately Well

WEATHER: Sunny / Hot / Humid

ADDITIONAL COMMENTS:
Large Flaggy Coarse Fragments at ≥ 12 inches BGS
Similar to Soils completed this morning, (Milton)

RFST

WESTON

# SOIL DESCRIPTION LOG

Project: E G+G Mound
Location: MIC-Benner Road
Date: 19 July 93 Time: 1015

Soil Series- Miamian
Test Pit Number: 1019 (MIC)
Described By: Thomas Benusa
Thomas Benusa

| HORIZON | DEPTH (Inches) Upper | DEPTH (Inches) Lower | DISTINCTNESS OF BOUNDARY | TEXTURE | % COARSE FRAGMENT | COLOR | DRAINAGE MOTTLING ABUNDANCE | DRAINAGE MOTTLING CONTRAST | STRUCTURE TYPE | STRUCTURE GRADE | CONSISTENCE | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | A | Silt loam | 0-2 | 10YR 4/3 Dark Yellow Brown | — | — | Gran | Mod | Friable | Common, Fine to med., Roots, mod OM, |
| Bw | 5 | 11 | A | Silt loam | 0-2 | 10YR 5/6 Yellow Brown | — | — | Gran | Mod | V. Friable | Mod. Accumulation of Silts and Clay |
| C | 11 | 24+ | — | Silty clay loam | 0-2 | 7.5YR 5/6 Strg Brown. | — | — | Massive | Structure less | Firm | Till - Dense |

TMB

LIMITING ZONE DEPTH: 24 inches
DETERMINED BY: depth
SLOPE: 0-2% nearly level
SOIL DRAINAGE CLASS: Well drained

WEATHER: Partly Cloudy / Warm / Humid
ADDITIONAL COMMENTS:
Dense till encountered at approx 11 inches.

Similar to SCS Soil Survey

WESTON

# SOIL DESCRIPTION LOG

Project: E G & G Mound
Location: MsB-UPPER Miamisburg ~~Twp~~ RD
Date: 20 July 93 Time: 1000

Soil Series: Milton Silt Loams
Test Pit Number: MsB (1031)
Described By: Thomas Bemisa

| HORIZON | DEPTH (Inches) Upper | DEPTH (Inches) Lower | DISTINCTNESS OF BOUNDARY | TEXTURE | % COARSE FRAGMENT | COLOR | DRAINAGE MOTTLING ABUNDANCE | DRAINAGE MOTTLING CONTRAST | STRUCTURE TYPE | STRUCTURE GRADE | CONSISTENCE | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ap1 | | 5 | A | Loamy Silt | 0-3 | 10YR 4/2 Drk Gray Brown | – | – | G Gran | mod | V. Friable | Dry Appears to be colluvial cap, mod. o.m., many fine roots, small fragments of Coal in Horizon |
| ~~Ap2~~ AB | | 8 | A | Gravelly Loamy Silt | 25-30 | 10YR 4/2 Drk Gray Brown | – | – | Gran. | weak | V. Friable | many fine roots, mod. o.m. Dry |
| Bt1 ~~AB~~ | | 16 | A | Silty Clay Loam | 5-10 | 10YR 4/4 Drk Yel Brown Variegated 10YR 7/2 Light Brown | Common | Distinct | Gran | mod. | Friable | Few, mod to fine roots, slight o.m. Dry |
| Bt2 | | 34+ | – | Gravelly Silty Clay | 30-35% | 10YR 4/4 Drk Yel Brown Variegated 10YR 5/4 Yellow Brown | Many | Distinct | Sbk | moderate | Friable/Firm | Few, fine roots, moist Friable Till |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

LIMITING ZONE DEPTH: 34 inches

DETERMINED BY: Maximum Depth Attainable

SLOPE: 0-2% (Nearly level)

SOIL DRAINAGE CLASS: Moderatly Well

WEATHER: Sunny / ≅ 80°F /

ADDITIONAL COMMENTS: Small Fragments of Coal Found in Ap horizon
Silty cap over Till:

1031, 1032, 1033
Soil to Soil Summ...

* SEE NOTES BELOW

WESTON

# SOIL DESCRIPTION LOG

Soil Series - Miamian Clayloam

Project: EG&G MOUND
Location: MoD3
Date: 20 July 93 Time: 15:15

Test Pit Number: MoD3 (1025)
Described By: Thomas Benda

Thomas Benda

| HORIZON | DEPTH (Inches) Upper | DEPTH (Inches) Lower | DISTINCTNESS OF BOUNDARY | TEXTURE | % COARSE FRAGMENT | COLOR | DRAINAGE MOTTLING ABUNDANCE | DRAINAGE MOTTLING CONTRAST | STRUCTURE TYPE | STRUCTURE GRADE | CONSISTENCE | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | | 9 | A | Sandy Silt (Fin SA SR Sand) | 0-5 | 10YR 3/3 Dark Brown | - | - | Gran | Weak | Friable | Many fine to coarse roots, High om. |
| Bt | | 18+ | - | Coarse Sandy Silt w/ little clay | 5-10 | 10YR 4/6 Dark Yellow Brown | — | - | Sbk | Mod | Friable Firm | moderately dense till |

(MB)

LIMITING ZONE DEPTH: 18 inches

DETERMINED BY: Rocks/Coarse Fragment

SLOPE: 2-3% - Gently sloping

SOIL DRAINAGE CLASS: Well drained

WEATHER: Sunny/85°F/Moderate Humid

ADDITIONAL COMMENTS:
Friable loess over a moderately dense till.

Appears to be similar to Ross Soil Series

4 Aug 93

WESTON

# SOIL DESCRIPTION LOG

Project: E G+G - MOUND
Location: ALINDEN AVE - FAF2
Date: 2 Aug 93 Time: 1500

Test Pit Number: 1007 - FAF2
Described By: Thomas Bemusa
Soil Series: Fairfield

| HORIZON | DEPTH (Inches) Upper | DEPTH (Inches) Lower | DISTINCTNESS OF BOUNDARY | TEXTURE | % COARSE FRAGMENT | COLOR | DRAINAGE MOTTLING ABUNDANCE | DRAINAGE MOTTLING CONTRAST | STRUCTURE TYPE | STRUCTURE GRADE | CONSISTENCE | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | A | silt loam | <5 | 10YR3/2 Very Dark Gray Brown | — | — | GRAN | MOD | Friable | Few fine Roots, Few Worm channels. |
| Bt1 | 3 | 7 | C | GRAV. CLAY LOAM | 20-30 | 10YR4/3 Brown | — | — | SBK | MOD | Friable | Few Fine Rootlets, minor soil mixing |
| Bt2 | 7 | 15+ | — | ~~Gra~~ Chan. CLAY LOAM | 75 | 10YR6/8 Brown. Yellow | — | — | SBK | MOD | Firm | With mixing, some Clay and silt faces. |

TMB

LIMITING ZONE DEPTH: bottom of hole
DETERMINED BY: ~~20-24%~~ (TMB)
SLOPE: 25+%
SOIL DRAINAGE CLASS: Well drained

WEATHER: Sunny / Hot (85-87°F) /
ADDITIONAL COMMENTS: Shallow to excessive coarse fragments, large channery to flaggy sized coarse fragments encountered.

WESTON

# SOIL DESCRIPTION LOG

**Project:** E G+G Mound
**Location:** Berner Rd - Corwin
**Date:** 2 Aug 93 **Time:** 16:20

**Test Pit Number:** 1001 - Corwin (CoB)
**Described By:** Thomas Benusa
Thomas Benusa

| | HORIZON | DEPTH (Inches) Upper | DEPTH (Inches) Lower | DISTINCTNESS OF BOUNDARY | TEXTURE | % COARSE FRAGMENT | COLOR | DRAINAGE MOTTLING ABUNDANCE | DRAINAGE MOTTLING CONTRAST | STRUCTURE TYPE | STRUCTURE GRADE | CONSISTENCE | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ap | 0 | 4 | Abrupt | Silt Loam | <5 | 10YR 3/2 Very Dark Gray Brown | - | - | Granular | Mod | Friable | many fine to med roots Good grass cover. High O.M. |
| | A1 | 4 | 12 | Abrupt | Heavy Silt loam | 5-10 | 10YR 2/2 Very dark Brown | - | - | Granular | Strong | Friable | many fine rootlets, Mod to High O.M. |
| ?II | Bt | 12 | 18+ | - | Silty Clay loam | 10 | 10YR 4/4 Dark yellow Brown | - | - | SBK/Granular | mod/weak | Friable/Firm | Compact, dense in place, Till |

1MB

**LIMITING ZONE DEPTH:** 18 inches

**DETERMINED BY:** bottom of hole

**SLOPE:** Gently sloping (3-8%)

**SOIL DRAINAGE CLASS:** Unknown

**WEATHER:** Sunny/Hot/Windy/85°F W/W @ 5-10mph

**ADDITIONAL COMMENTS:** Could not determine Soil drainage because hole could not be advanced by 18 inches bgs.

WESTON

# SOIL DESCRIPTION LOG

Project: EG&G MOUND
Location: Chatauguard
Date: 3 Aug 93 Time: 1100

Soil Series: NeF2 (Henepin-Miamian Silt loam, steep slop moderate
Test Pit Number: 1010-NeF2
Described By: Thomas Benusa
Thomas Benusa

| HORIZON | DEPTH (Inches) Upper | DEPTH (Inches) Lower | DISTINCTNESS OF BOUNDARY | TEXTURE | % COARSE FRAGMENT | COLOR | DRAINAGE MOTTLING ABUNDANCE | DRAINAGE MOTTLING CONTRAST | STRUCTURE TYPE | STRUCTURE GRADE | CONSISTENCE | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ap | | 5 | A | ~~<5~~ silt loam | <5 | 10YR 3/4 Dark yelw Brown | - | - | GRAN | STRONG | Friable | many Fine Roots, Good Sod cover. |
| Bt1 | | 8 | C | Silty Clay loam | 5 | 10YR 5/6 yelw Brown | - | - | SBK | MOD | Friable | Common Fine Roots, |
| Bt2 | | 18 | - | Silty Clay | 15 | 10YR 5/3 Brown | - | - | SBK | MOD | Firm | clay Films Dense, fill material(?) |

IMB

LIMITING ZONE DEPTH: 18"
DETERMINED BY: Maximum Depth of Hole
SLOPE: Steep
SOIL DRAINAGE CLASS: Well

WEATHER: Partly Cloudy / Hot / Humid (≥ 80°F)
ADDITIONAL COMMENTS: Soil very dry.

K. Ert

WESTON

# SOIL DESCRIPTION LOG

Project: EG&G Mound
Location: Chatagua Rd - Nenepin - Minnian
Date: 3 AUG 93 Time: 1340

Soil Series:
Test Pit Number: 1014-HeF2
Described By: Thomas Benusa
Thomas Benusa

| HORIZON | DEPTH (Inches) Upper | DEPTH (Inches) Lower | DISTINCTNESS OF BOUNDARY | TEXTURE | % COARSE FRAGMENT | COLOR | DRAINAGE MOTTLING ABUNDANCE | DRAINAGE MOTTLING CONTRAST | STRUCTURE TYPE | STRUCTURE GRADE | CONSISTENCE | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A1 | 0 | 3 | A | Sandy Loam | 5 | 10YR 4/3 Brown | – | – | Granu | Strong | Friable | Coarse SA St Sandy Mennison, Fine to med. Root |
| Bt1 | 3 | 10 | G | Silt loam | 5 | 10YR 5/6 Yel/w. Brown | – | – | SBK | Weak | Friable | Few fine roots |
| Bt2 | 10 | 18+ | – | | 5-15 | 10YR 5/3 brown | – | – | SBK | Mod | Firm | Dense. Tillite; few roots and worm channels. clay films. |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
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| | | | | | | | | | | | | |

JMB

LIMITING ZONE DEPTH: 18 inches

DETERMINED BY: Coarse fragments

SLOPE: Steep

SOIL DRAINAGE CLASS: Well

WEATHER: Sunny / Hot / Humid

ADDITIONAL COMMENTS: Soil very dry. Few small (<12" diam) trees near by. Moderate understory and ground cover

WESTON

# SOIL DESCRIPTION LOG

Project: E G + G Mound
Location: Shepherd Rd - 1025 (Queens)
Date: 4 Aug 93 Time: 1100

Soil Series:
Test Pit Number: 1025 - MND3 (Miamian)
Described By: Thomas Berman

Thomas Berman

| HORIZON | DEPTH (Inches) Upper | DEPTH (Inches) Lower | DISTINCTNESS OF BOUNDARY | TEXTURE | % COARSE FRAGMENT | COLOR | DRAINAGE MOTTLING ABUNDANCE | DRAINAGE MOTTLING CONTRAST | STRUCTURE TYPE | STRUCTURE GRADE | CONSISTENCE | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ap | | 3 | Clear | Silt loam | 10-15 | 10YR 3/3 Dark Brown | - | - | SBK | moderate | Friable | Few fine roots, few small gravels |
| Bt1 | | 9 | Abrupt | Silty clay loam | 10-15 | 7.5YR 3/4 Dark Brown | - | - | SBK | moderate | Friable | |
| ~~II~~ Bt2 | | 16 | Abrupt | clay loam | 20-25 | 10YR 5/6 Yellow Brown | - | - | SBK | moderate | Friable/Firm | Transition from silt cap to till |
| ~~II~~ Bt3 | | 24+ | - | silt loam | 30-40 | 10YR 5/3 Brown | - | - | Mass Inc | structure less | Friable/Firm | Dense unglaze, coarse sands, |

MB

LIMITING ZONE DEPTH: 24 inches

DETERMINED BY: Maximum Depth Attainable

SLOPE: steep (15-25)

SOIL DRAINAGE CLASS:

WEATHER: Partly Cloudy/Warm/Humid (≈ 75°/90-60% Humid)

ADDITIONAL COMMENTS: Rain within 24 hrs of sampling. Appears to be similar to soil description from USDA Soil Survey

WESTON

# SOIL DESCRIPTION LOG

Project: E G+G Drawing
Location: Shepherd Rd - Miamisburg
Date: 4 Aug 93 Time: 13:55

Test Pit Number: 1022 - MnC3
Described By: Thomas Bimusa

| HORIZON | DEPTH (Inches) Upper | DEPTH (Inches) Lower | DISTINCTNESS OF BOUNDARY | TEXTURE | % COARSE FRAGMENT | COLOR | DRAINAGE MOTTLING ABUNDANCE | DRAINAGE MOTTLING CONTRAST | STRUCTURE TYPE | STRUCTURE GRADE | CONSISTENCE | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ap | 0 | 4 | Clear | silt loam | <5 | 10YR 3/3 | - | - | GRAN | MOD | Friable | |
| Bt1 | 4 | 8 | Abrupt | silty clay loam | 15-20 | 10YR 3/4 | - | - | SBK | MOD | Friable | |
| ~~I~~ IIBt2 | 8 | 12 | Clear | silty clay loam | 5 | 10YR 4/4 | - | - | SBK | STRONG | Friable | |
| IIBt3 | 12 | 16* | Abrupt | Silt loam | 5-10 | 10YR 5/4 Yellow Brown | - | - | SBK | MOD | Friable | |
| IIIBt4 | 16 | 20+ | - | v. gravelly Silt loam | 40-50 | 10YR 5/3 Brown | - | - | SBK | MOD | Friable | Small to med SR-R Cobbles and flakes of rock, more and than clay layers |

LIMITING ZONE DEPTH: 20 inches

DETERMINED BY: maximum depth

SLOPE: 6-12 sloping

SOIL DRAINAGE CLASS: Somewhat poorly

WEATHER: Sunny / Hot / Humid

ADDITIONAL COMMENTS:
Drainage Mottling (Redoximorphic features) found in sample 1022-0002 (≥1.5 feet BGS)

WESTON

# SOIL DESCRIPTION LOG

Project: E G + G Mound Background Soil
Location: Zeck Rd - RFD3
Date: 5 Aug 93 Time: 1200

Soil Series: Ritchey - RFD3
Test Pit Number: ~~1027~~ 1093
Described By: Thomas Benusa
Thomas Benusa

| HORIZON | DEPTH (Inches) Upper | DEPTH (Inches) Lower | DISTINCTNESS OF BOUNDARY | TEXTURE | % COARSE FRAGMENT | COLOR | DRAINAGE MOTTLING ABUNDANCE | DRAINAGE MOTTLING CONTRAST | STRUCTURE TYPE | STRUCTURE GRADE | CONSISTENCE | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | | 3 | A | Chunky Silt loam | 30-40 | 10YR 4/4 | - | - | GRAN | MOD | FRIABLE | Few, fine to med roots. |
| IIBt | | 9 | - | Extremely Flaggy Clay loam | 60-70 | 2.5Y Light Olive 5/3 Brown | - | - | MASSIVE | STRUCTURELESS | Friable | Many coarse flaggy sandstone frags. present |

IMB
5/Aug/93

LIMITING ZONE DEPTH: 6"
DETERMINED BY: High Coarse Fragment Content
SLOPE: 12-25%
SOIL DRAINAGE CLASS: Well

WEATHER: Sunny/Warm
ADDITIONAL COMMENTS: Very shallow to bedrock (≈6")
Very eroded

WESTON
MANAGERS DESIGNERS/CONSULTANTS

# SOIL DESCRIPTION LOG

Project: EG&G Mound - Background Soils
Location: Hastings & Floydd Des. (MoC)
Date: 5 AUG 93 Time: 14:20

Soil Series: Miamian-Urban (MoC)
Test Pit Number: 1028-MoC
Described By: Thomas Benusa
Thomas Benusa

| HORIZON | DEPTH (Inches) Upper | DEPTH (Inches) Lower | DISTINCTNESS OF BOUNDARY | TEXTURE | % COARSE FRAGMENT | COLOR | DRAINAGE MOTTLING ABUNDANCE | DRAINAGE MOTTLING CONTRAST | STRUCTURE TYPE | STRUCTURE GRADE | CONSISTENCE | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ap | 0 | 3 | A | Silt loam | 5-7 | 10YR 3/3 Dark Brown | - | - | Gran | mod | Friable | many fine roots, |
| Bt1 | 3 | 7 | A | Silty Clay Loam | 10-15 | 10YR 5/4 yelw brown | - | - | Gran | weak | Friable | few fine roots |
| IIBt2 | 7 | 11 | A | Heavy Silt loam | 15-20 | 10YR 5/6 yelw brown | - | - | SBK | weak | Friable | |
| IIBt3 | 11 | 15+ | - | Silt loam | 15-20 | 10YR 6/4 Lt. yelw Brown | - | - | SBK | mod | Friable | Dense in place, Coarse SA-SR Sands and gravels. |

5 AUG 93

LIMITING ZONE DEPTH: 15"
DETERMINED BY: No further (TILL) Penetration by spade.
SLOPE: sloping (6-12%)
SOIL DRAINAGE CLASS: Well

WEATHER: Sunny / Warm
ADDITIONAL COMMENTS: Dense till at 12 inches. Soil Very Dry

WESTON

# SOIL DESCRIPTION LOG

Project: EG&G Mound - OU9 - Background Soil Sampling
Location: Linden Ave - MsC2 (Milton)
Date: 6 AUG 93 Time: 1100

Soil Series: - Milton Siltloam - 6-12%
Test Pit Number: 1034 - MsC2 (Milton)
Described By: Thomas Benusa

| HORIZON | DEPTH (Inches) Upper | DEPTH (Inches) Lower | DISTINCTNESS OF BOUNDARY | TEXTURE | % COARSE FRAGMENT | COLOR | DRAINAGE MOTTLING ABUNDANCE | DRAINAGE MOTTLING CONTRAST | STRUCTURE TYPE | STRUCTURE GRADE | CONSISTENCE | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | A | Silt loam | 10-15 | 10YR 3/3 Dk Brwn | - | - | Gran | Strong | Friable | |
| Bt1 | 3 | 8 | A | Silty clay loam | 5-10 | 10YR 4/4 Dark Yelw Brwn | - | - | SBK | mod | Friable | |
| IIBt2 | 8 | 11+ | - | Very Flaggy Siltloam | 60-70 | 10YR 6/6 Brownyelw | - | - | SBK | mod | Friable | |
| | | | | | | | | | | | | |
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TMB

LIMITING ZONE DEPTH: 11 inches
DETERMINED BY: Coarse Fragments
SLOPE: 12-25 C
SOIL DRAINAGE CLASS: Well

WEATHER: Sunny / Warm
ADDITIONAL COMMENTS: Very eroded

# APPENDIX C

# APPENDIX C

## SAMPLE LOG SHEETS

WESTON — MANAGERS DESIGNERS/CONSULTANTS

SHEET ____ of ____

CLIENT/SUBJECT: E6+6 MOUND SHEET (1)

W.O. NO. ____

TASK DESCRIPTION: SAMPLE BATCH DESCRIPTION

TASK NO. ____

PREPARED BY ____ DEPT ____ DATE ____

MATH CHECK BY ____ DEPT ____ DATE ____

METHOD REV. BY ____ DEPT ____ DATE ____

APPROVED BY ____ DEPT ____ DATE ____

| | | | | | |
|---|---|---|---|---|---|
| 1046-01 | 001 | SAMPLES | 1041-0001 | ~~0~~003 | SAMPLES |
| 1046-02 | 001 | | 1041-0002 | 003 | |
| 1047-01 | 001 | | 1042-0001 | 003 | |
| 1047-02 | 001 | | 1042-0002 | 003 | |
| 1048-01 | 001 | | 1037-0001 | 003 | |
| 1048-02 | 001 | | 1037-0002 | 003 | |
| 1004-01 | 001 | | 1038-0001 | 003 | |
| 1004-02 | 001 | | 1038-0002 | 003 | |
| 1005-01 | 001 | | 1039-0001 | 003 | |
| 1005-02 | 001 | | 1039-0002 | 003 | |
| 1006-4001 | 001 | DUP + BLANK | 1038-1002 | 003 | DUP/BLANK |
| 1005-1001 | 001 | | ~~1038-4002~~ 1039-4001 | 003 | |
| 1006-0001 | 002 | SAMPLES | 1019-0001 | 004 | SAMPLES |
| 1006-0002 | 002 | | 1019-0002 | 004 | |
| 1016-0001 | 002 | | 1020-0001 | 004 | |
| 1016-0002 | 002 | | 1020-0002 | 004 | |
| 1017-0001 | 002 | | 1021-0001 | 004 | |
| 1017-0002 | 002 | | 1021-0002 | 004 | |
| 1018-0001 | 002 | | 1031-0001 | 004 | |
| 1018-0002 | 002 | | 1031-0002 | 004 | |
| 1040-0001 | 002 | | 1032-0001 | 004 | |
| 1040-0002 | 002 | | 1032-0002 | 004 | |
| 1040-1001 | 002 | DUP/BLANK/MS/MSD | 1032-1002 | 004 | DUP/BLANK/MS/MSD |
| 1040-4002 | 002 | | 1032-0002 MS/MSD | 004 | |
| 1040-0001 MS/MSD | 002 | | 1032-4002 | 004 | |

4.6

REVISED SITE DWG

WESTON
MANAGERS DESIGNERS/CONSULTANTS

SHEET ____ of ____

CLIENT/SUBJECT _____ W.O. NO. _____

TASK DESCRIPTION _____ TASK NO. _____

PREPARED BY _____ DEPT _____ DATE _____

MATH CHECK BY _____ DEPT _____ DATE _____

METHOD REV. BY _____ DEPT _____ DATE _____

APPROVED BY _____

DEPT _____ DATE _____

| | | |
|---|---|---|
| 1033-0001 | 005 | OK |
| 1033-0002 | 005 | |
| 1025-0001 | 005 | CANCELLED |
| 1025-0002 | 005 | |
| 1026-0001 | 005 | |
| 1026-0002 | 005 | |
| 1027-0001 | 005 | |
| 1027-0002 | 005 | |
| ~~1027~~ | | |
| 0999-0006 | 005 | OK |
| 1027-1001 | 005 | DUP/BLANK - CANCELLED |
| 1027-4001 | 005 | |

END SHEET 1

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 1 OF
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | SAMPLER | FIELD BATCH # | SAMPLE MATRIX | LABORATORY COOLER # | Metals, CN # Bottles | Metals, CN Lot # |
|---|---|---|---|---|---|---|---|---|
| MND28-1046-0001 | 7/14/93 | 1400 | ~~[illegible]~~ DAW | 001 | S | 530 / IT-047 | 1 | L2301030 |
| MND28-1046-0002 | ↓ | 1415 | DAW | 001 | S | ↓ | 1 | ↓ |
| MND28-1047-0001 | ↓ | 1430 | ↓ | 001 | S | ↓ | 1 | ↓ |
| MND28-1047-0002 | ↓ | 1445 | ↓ | 001 | S | ↓ | 1 | ↓ |
| MND28-1048-0001 | ↓ | 1500 | ↓ | 001 | S | ↓ | 1 | ↓ |
| MND28-1048-0002 | ↓ | 1520 | ↓ | 001 | S | ↓ | 1 | ↓ |
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| | | | | | | TOTAL | 0 | |

PREPARED BY/DATE: [illegible] 7/14/93
REVIEWED BY/DATE:



14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 1 OF _
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Pesticides/PCBs | | NO3-NO2, Cl, SO4, F | | NO3-NO2 (water) | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1046-0001 | 7/14/93 | 1400 | 1 | U3012040 | 1 | L2070010 | NA | NA |
| MND28-1046-0002 | ↓ | 1415 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1047-0001 | ↓ | 1430 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1047-0002 | ↓ | 1445 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1048-0001 | ↓ | 1500 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1048-0002 | ↓ | 1520 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
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PREPARED BY/DATE: [illegible] 7/14/93
REVIEWED BY/DATE:



14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 1 OF _
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Cl, SO4, F (water) | | Pu, Th, U, Sr-90, gamma | | H3 | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1046-0001 | 7/14/93 | 1400 | NA | NA | 1 | L4219104O | 1 | L4219104O |
| MND28-1046-0002 | | 1415 | | | 1 | | 1 | |
| MND28-1047-0001 | | 1430 | | | 1 | | 1 | |
| MND28-1047-0002 | | 1445 | | | 1 | | 1 | |
| MND28-1048-0001 | | 1500 | | | 1 | | 1 | |
| MND28-1048-0002 | | 1510 | | | 1 | | 1 | |
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PREPARED BY/DATE: DAW 7/14/93
REVIEWED BY/DATE:



14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 1 OF
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | TOC | | Soil pH | | % Moisture | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1046-0001 | 7/14/93 | 1400 | 1 | Z/22083020 | 1 | 1YA | 1 | B 31240 020 |
| MND28-1046-0002 | | 1415 | 1 | | 1 | | 1 | |
| MND28-1047-0001 | | 1430 | 1 | | 1 | | 1 | |
| MND28-1047-0002 | | 1445 | 1 | | 1 | | 1 | |
| MND28-1048-0001 | | 1500 | 1 | | 1 | | 1 | |
| MND28-1048-0002 | | 1520 | 1 | | 1 | | 1 | |
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PREPARED BY/DATE: DAW 7/14/93
REVIEWED BY/DATE:



14-JL 93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 1 OF _
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Date Shipped | Airbill # |
|---|---|---|---|---|
| MND28-1046-0001 | 7/14/93 | 1400 | 7/14/93 | ITA 6293668846 / RFW 6293668835 |
| MND28-1046-0002 | | 1415 | | |
| MND28-1047-0001 | | 1430 | | |
| MND28-1047-0002 | | 1445 | | |
| MND28-1048-0001 | | 1500 | | |
| MND28-1048-0002 | | 1520 | | |
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SEAL

| ITA | RFW |
|---|---|
| 29007 | 29006 |

SOIL SAMPLES COOLER

| ITA | RS |
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| Ross | RS |

PREPARED BY/DATE: DAW 7/14/93
REVIEWED BY/DATE:



14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 2 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | SAMPLER | FIELD BATCH # | SAMPLE MATRIX | LABORATORY COOLER # | | Metals, CN # Bottles | Metals, CN Lot # |
|---|---|---|---|---|---|---|---|---|---|
| MND28-1004-0001 | 7/15/93 | 1015 | KB | 001 | S | ITA 102 | RIW 128 | 1 | L0d301030 |
| MND28-1004-0002 | | 1115 | DAW | 001 | S | | | 1 | |
| * ~~MND28-1005-0001~~ | | ~~1040~~ | ~~KB~~ | ~~001~~ | ~~S~~ | | | ~~1~~ | |
| ~~MND28-1005-0002~~ | | | | | | | | | |
| * ~~MND28-1006-0001~~ | | ~~1140~~ | DAW | 001 | S | | | 1 | |
| ~~MND28-1006-0002~~ | | | | | | | | | |
| ~~MND28-1005-0001~~ | | ~~1150~~ | ~~KB~~ | ~~001~~ | ~~S~~ | | | ~~1~~ | |
| MND28-1006-4001 | | 1445 | DAW | 001 | W | | | 2 | C3084080 |
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* (ANCELLED)

PREPARED BY/DATE: DAW 7/19/93
REVIEWED BY/DATE:



14-JL 93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 2 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Pesticides/PCBs | | NO3-NO2, Cl, SO4, F | | NO3-NO2 (water) | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1004-0001 | 7/15/93 | 1015 | 1 | U3012040 | 1 | L2070010 | NA | NA |
| MND28-1004-0002 | | 1115 | 1 | Z3125010 | 1 | | | |
| ~~MND28-1005-0001~~ | | ~~1040~~ | ~~1~~ | ~~U3012040~~ | ~~1~~ | | | |
| ~~MND28-1005-0002~~ | | | | | | | | |
| ~~MND28-1006-0001~~ | | ~~1140~~ | ~~1~~ | ~~U3012040~~ | ~~1~~ | | | |
| ~~MND28-1006-0002~~ | | | | | | | | |
| ~~MND28-1005-1001~~ | | ~~1150~~ | ~~1~~ | ~~U3012040~~ | ~~1~~ | | | |
| MND28-1006-4001 | | 1445 | 2 | X2121010 | NA | NA | 1 | L2070010 |
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PREPARED BY/DATE:
REVIEWED BY/DATE:



14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 2 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Cl, SO4, F (water) | | Pu, Th, U, Sr-90, gamma | | H3 | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1004-0001 | 7/15/93 | 1015 | NA | NA | 1 | L42191040 | 1 | L42191040 |
| MND28-1004-0002 | ↓ | 1115 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
| ~~MND28-1005-0001~~ | | ~~1040~~ | | | ~~1~~ | | ~~1~~ | |
| ~~MND28-1005-0002~~ | | | | | | | | |
| ~~MND28-1006-0001~~ | | ~~1140~~ | | | ~~1~~ | | ~~1~~ | |
| ~~MND28-1006-0002~~ | | | | | | | | |
| ~~MND28-1005-1001~~ | | ~~1150~~ | | | ~~1~~ | | ~~1~~ | |
| MND28-1006-4001 | | 1445 | 1 | L2070010 | 2 | M3034040 | 1 | F1142040 |
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PREPARED BY/DATE:
REVIEWED BY/DATE:



14-Jul 93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 2 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | TOC | | Soil pH | | % Moisture | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1004-0001 | 7/15/93 | 1015 | 1 | Z/22083020 | NA | NA | 1 | B3124040 |
| MND28-1004-0002 | ↓ | 1115 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| ~~MND28-1005-0001~~ | | ~~1040~~ | ~~1~~ | | | | ~~1~~ | |
| ~~MND28-1005-0002~~ | | | | | | | | |
| ~~MND28-1006-0001~~ | | ~~1140~~ | ~~1~~ | | | | ~~1~~ | |
| ~~MND28-1006-0002~~ | | | | | | | | |
| ~~MND28-1005-1001~~ | | ~~1150~~ | ~~1~~ | ↓ | | | ~~1~~ | ↓ |
| MND28-1006-4001 | ↓ | 1445 | 1 | Z3050020 | ↓ | ↓ | NA | NA |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 2 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Date Shipped | Airbill # ITA | Airbill # RFN | SEAL NO ITA | SEAL NO RFN | SOIL STATUS |
|---|---|---|---|---|---|---|---|---|
| MND28-1004-0001 | 7/15/93 | 1015 | 7/15/93 | 5186604651 | 518660 4662 | 24008 | 29009 | FAIRMONT FaE2 |
| MND28-1004-0002 | | 1115 | | | | | | |
| ~~MND28-1005-0001~~ | | ~~1040~~ | | | | | | |
| ~~MND28-1005-0002~~ | | | | | | | | |
| ~~MND28-1006-0001~~ | | ~~1140~~ | | | | | | |
| ~~MND28-1006-0002~~ | | | | | | | | |
| ~~MND28-1005-1001~~ | | ~~1150~~ | | | | | | |
| MND28-1006-4001 | | 1445 | | | | | | |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

14-JL 93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 3 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | SAMPLER | FIELD BATCH # | SAMPLE MATRIX | LABORATORY COOLER # | | Metals, CN # Bottles | Metals, CN Lot # |
|---|---|---|---|---|---|---|---|---|---|
| MND28-1016-0001 | 7/17/93 | 1000 | DAW | 002 | S | 070 | 402 | 1 | L/2230 1030 |
| MND28-1016-0002 | | 1025 | DAW | 002 | S | | | 1 | |
| MND28-1017-0001 | | 0950 | KB | 002 | S | | | 1 | |
| MND28-1017-0002 | | 1020 | KB | 002 | S | | | 1 | |
| MND28-1018-0001 | | 1045 | DAW | 002 | S | | | 1 | L/23077040 * |
| MND28-1018-0002 | | 1050 | KB | 002 | S | ~~ITA~~ | PFW | 1 | L/23077040 # |
| MND28-1005-0001 | 7/16/93 | 1440 | TB | 001 | S | IT-103 | 209 | 1 | L/2230 1030 |
| MND28-1005-0002 | | 1455 | TB | 001 | S | | | 1 | L/2230 1030 |
| MND28-1006-0001 | | 1430 | DAW | 002 | S | | | 1 | |
| MND28-1006-0002 | | 1455 | DAW | 002 | S | | | 1 | |
| MND28-1005-1001 | | 1440 | TB | 001 | S | | | 1 | |
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| | | | | | | TOTAL | | 0 | |

7/16/93

PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 3 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Pesticides/PCBs | | NO3-NO2, Cl, SO4, F | | NO3-NO2 (water) | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1016-0001 | 7/17/93 | 1000 | 1 | U3152090 | 1 | L3124040 | NA | NA |
| MND28-1016-0002 | ↓ | 1025 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1017-0001 | ↓ | 0950 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1017-0002 | ↓ | 1020 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1018-0001 | ↓ | 1045 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1018-0002 | ↓ | 1050 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1005-0001 | 7/16/93 | 1440 | 1 | U3152090 | 1 | L3124040 | NA | NA |
| MND28-1005-0002 | ↓ | 1455 | 1 | U3152090 ~~L3124040~~ | 1 | L3124040 | ↓ | ↓ |
| MND28-1006-0001 | ↓ | 1430 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1006-0002 | ↓ | 1455 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1005-1001 | ↓ | 1440 | 1 | Z3125010 | 1 | L2070010 | ↓ | ↓ |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 3 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Cl, SO4, F (water) | | Pu, Th, U, Sr-90, gamma | | H3 | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1016-0001 | 7/17/93 | 1000 | NA | NA | 1 | L/42191040 | 1 | L/42191040 |
| MND28-1016-0002 | ↓ | 1025 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
| MND28-1017-0001 | ↓ | 0950 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
| MND28-1017-0002 | ↓ | 1020 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
| MND28-1018-0001 | ↓ | 1045 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
| MND28-1018-0002 | ↓ | 1050 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
| MND28-1005-0001 | 7/16/93 | 1440 | NA | NA | 1 | L/42191040 | 1 | L/42191040 |
| MND28-1005-0002 | ↓ | 1455 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
| MND28-1006-0001 | ↓ | 1430 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
| MND28-1006-0002 | ↓ | 1455 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
| MND28-1005-1001 | ↓ | 1440 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 3 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | TOC | | Soil pH | | % Moisture | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1016-0001 | 7/17/93 | 1000 | 1 | I2341030 | NA | NA | 1 | B3124020 |
| MND28-1016-0002 | ↓ | 1025 | 1 | I3066030 | ↓ | ↓ | 1 | ↓ |
| MND28-1017-0001 | ↓ | 0950 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| MND28-1017-0002 | ↓ | 1020 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| MND28-1018-0001 | ↓ | 1045 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| MND28-1018-0002 | ↓ | 1050 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| MND28-1005-0001 | 7/16/93 | 1440 | 1 | I3066030 | NA | NA | 1 | B3124020 |
| MND28-1005-0002 | ↓ | 1455 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| MND28-1006-0001 | ↓ | 1430 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| MND28-1006-0002 | ↓ | 1455 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| MND28-1005-1001 | ↓ | 1440 | 1 | Z/22083020 | ↓ | ↓ | 1 | ↓ |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

**LOG OF SAMPLES COLLECTED**
**EG&G MOUND OPERABLE UNIT 9**
**BACKGROUND SOILS INVESTIGATION**
SHEET 3 OF __
WESTON W.O.#: 05376–039–007–0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Date Shipped | Airbill # ITA | Airbill # RFW | SEAL NO ITA | SEAL NO RFW | SOIL SERIES MMDE LAND |
|---|---|---|---|---|---|---|---|---|
| MND28–1016–0001 | 7/17/93 | 1000 | 7/19/93 | 5186604721 | 5186604710 | 29016 | 29017 | Mb |
| MND28–1016–0002 | | 1025 | | | | | | |
| MND28–1017–0001 | | 0950 | | | | | | |
| MND28–1017–0002 | | 1020 | | | | | | |
| MND28–1018–0001 | | 1045 | | | | | | |
| MND28–1018–0002 | | 1050 | | | | | | |
| MND28-1005-0001 | 7/16/93 | 1440 | 7/16/93 | 5186604673 | 5186604684 | 29010 | 29011 | Fairmont FaE2 |
| MND28-1005-0002 | | 1455 | | | | | | |
| MND28-1006-0001 | | 1430 | | | | | | |
| MND28-1006-0002 | | 1455 | | | | | | |
| MND28-1005-1001 | | 1440 | | | | | | |
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**PREPARED BY/DATE:**
**REVIEWED BY/DATE:**

14–Jul–93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 4 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | SAMPLER | FIELD BATCH # | SAMPLE MATRIX | LABORATORY COOLER # | | Metals, CN # Bottles | Metals, CN Lot # |
|---|---|---|---|---|---|---|---|---|---|
| MND28-1040-0001 | 7/18/93 | 1400 | DAW | 002 | S | JFA 064 | KFW 141 | 1 | L/23077070 |
| MND28-1040-0002 | | 1500 | DAW | 002 | S | | | 1 | |
| MND28-1041-0001 | | 1400 | KB | 003 | S | | | 1 | |
| MND28-1041-0002 | | 1440 | KB | 003 | S | | | 1 | |
| MND28-1042-0001 | | 1440 | DAW | 003 | S | | | 1 | |
| MND28-1042-0002 | | 1515 | DAW | 003 | S | | | 1 | |
| MND28-1040-~~1002~~ 1001 | | 1400 | DAW | 002 | S | | | 1 | |
| MND28-1040-4002 | | 1630 | DAW | 002 | W | 100 | 208 | 2 | C30840080 |
| MND28-1040-~~0002~~ 0001 | 7/18/93 | 1400 | DAW | 002 | S | 064 | 141 | 1 | L/23077070 |
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| | | | | | | TOTAL | | 0 | |

PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 4 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Pesticides/PCBs | | NO3-NO2, Cl, SO4, F | | NO3-NO2 (water) | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1040-0001 | 7/18/93 | 1400 | 1 | U3152090 | 1 | L3124040 | NA | NA |
| MND28-1040-0002 | | 1500 | 1 | | 1 | | | |
| MND28-1041-0001 | | 1400 | 1 | | 1 | | | |
| MND28-1041-0002 | | 1440 | 1 | | 1 | | | |
| MND28-1042-0001 | | 1440 | 1 | | 1 | | | |
| MND28-1042-0002 | | 1515 | 1 | | 1 | | | |
| MND28-1040-~~1002~~ 1001 | | 1400 | 1 | | 1 | | | |
| MND28-1040-4002 | | 1630 | 1 | X2121010 | NA | NA | 1 | L2070010 |
| MND28-1040-~~0002~~ 0001 | 7/18/93 | 1400 | 1 | U3152090 | 1 | L3124040 | NA | NA |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 4 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Cl, SO4, F (water) | | Pu, Th, U, Sr-90, gamma | | H3 | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1040-0001 | 7/18/93 | 1400 | NA | NA | 1 | L/42191040 | 1 | L/42191040 |
| MND28-1040-0002 | ↓ | 1500 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
| MND28-1041-0001 | ↓ | 1400 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
| MND28-1041-0002 | ↓ | 1440 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
| MND28-1042-0001 | ↓ | 1440 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
| MND28-1042-0002 | ↓ | 1515 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
| MND28-1040-~~1002~~ 1001 | ↓ | 1400 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
| MND28-1040-4002 | ↓ | 1630 | 1 | L2070010 | 2 | M3034040 | 1 | F1142040 |
| MND28-1040-~~0002~~ 0001 | ↓ | 1400 | NA | NA | 1 | L42191040 | 1 | L/42191040 |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 4 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | TOC | | Soil pH | | % Moisture | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1040-0001 | 7/18/93 | 1400 | 1 | I3066030 | NA | NA | 1 | I3312402O |
| MND28-1040-0002 | | 1500 | 1 | I2341030 | | | 1 | |
| MND28-1041-0001 | | 1400 | 1 | | | | 1 | |
| MND28-1041-0002 | | 1440 | 1 | | | | 1 | |
| MND28-1042-0001 | | 1440 | 1 | | | | 1 | |
| MND28-1042-0002 | | 1515 | 1 | | | | 1 | |
| MND28-1040-~~1001~~ 1001 | | 1400 | 1 | | | | 1 | |
| MND28-1040-4002 | | 1630 | 1 | I3050020 | | | NA | NA |
| MND28-1040-~~0001~~ 0001 ms/msd | | 1400 | 1 | I2341030 | | | 1 | |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 4 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Date Shipped | Airbill # IJA | Airbill # RFW |
|---|---|---|---|---|---|
| MND28-1040-0001 | 7/18/93 | 1400 | 7/19/93 | 5186604743 | 5186604732 |
| MND28-1040-0002 | | 1500 | | | |
| MND28-1041-0001 | | 1400 | | | |
| MND28-1041-0002 | | 1440 | | | |
| MND28-1042-0001 | | 1440 | | | |
| MND28-1042-0002 | | 1515 | | | |
| MND28-1040-~~1002~~ 1001 | | 1400 | | | |
| MND28-1040-4002 | | 1630 | | 6249366872 | 6249368861 |
| MND28-1040-~~0002~~ 0001 MS/MSD | | 1400 | | 5186604743 | 5186604732 |
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SOIL SENITS

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PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 5 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | SAMPLER | FIELD BATCH # | SAMPLE MATRIX | LABORATORY COOLER # | | Metals, CN # Bottles | Metals, CN Lot # |
|---|---|---|---|---|---|---|---|---|---|
| MND28-1037-0001 | 7/18/93 | 1040 | DAW | 003 | S | FTA 064 | NPW 141 | 1 | L/23077040 |
| MND28-1037-0002 | | 1110 ~~1045~~ | DAW | 003 | S | | | 1 | |
| MND28-1038-0001 | | 1045 | KB | 003 | S | | | 1 | |
| MND28-1038-0002 | | 1105 | KB | 003 | S | | | 1 | |
| MND28-1039-0001 | | 1140 | DAW | 003 | S | | | 1 | |
| MND28-1039-0002 | | 1200 | DAW | 003 | S | | | 1 | |
| MND28-~~1039-1002~~ 1038 1002 | | 1105 | DAW | 003 | S | | | 1 | |
| MND28-1039-4001 | | 0800 | DAW | 003 | W | 100 | 208 | 2 | C3084080 |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 5 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Pesticides/PCBs | | NO3-NO2, Cl, SO4, F | | NO3-NO2 (water) | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1037-0001 | 7/18/93 | 1040 | 1 | U3152090 | 1 | L3124020 | NA | NA |
| MND28-1037-0002 | | 1110 | 1 | | 1 | | | |
| MND28-1038-0001 | | 1045 | 1 | | 1 | | | |
| MND28-1038-0002 | | 1105 | 1 | | 1 | | | |
| MND28-1039-0001 | | 1140 | 1 | | 1 | | | |
| MND28-1039-0002 | | 1200 | 1 | | 1 | | | |
| MND28-~~1039~~ 1038-1002 | | 1105 | 1 | | 1 | | | |
| MND28-1039-4001 | 7/18/93 | 0800 | 2 | X212 1010 | NA | NA | 1 | L2070010 |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 5 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Cl, SO4, F (water) | | Pu, Th, U, Sr-90, gamma | | H3 | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1037-0001 | 7/18/93 | 1040 | IVA | IVA | 1 | L/42K1040 | 1 | L/42K1040 |
| MND28-1037-0002 | | 1110 | | | 1 | | 1 | |
| MND28-1038-0001 | | 1045 | | | 1 | | 1 | |
| MND28-1038-0002 | | 1105 | | | 1 | | 1 | |
| MND28-1039-0001 | | 1140 | | | 1 | | 1 | |
| MND28-1039-0002 | | 1200 | | | 1 | | 1 | |
| MND28-~~1039~~ 1038-1002 | | 1105 | | | 1 | | 1 | |
| MND28-1039-4001 | | 0800 | L20 70010 | | 2 | M3034640 | 1 | F1142020 |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 5 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | TOC | | Soil pH | | % Moisture | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1037-0001 | 7/18/93 | 1040 | 1 | IA341030 | NA | NA | 1 | B3124020 |
| MND28-1037-0002 | | 1110 | 1 | | | | 1 | |
| MND28-1038-0001 | | 1045 | 1 | | | | 1 | |
| MND28-1038-0002 | | 1105 | 1 | | | | 1 | |
| MND28-1039-0001 | | 1140 | 1 | | | | 1 | |
| MND28-1039-0002 | | 1200 | 1 | | | | 1 | |
| MND28-~~1037~~ 1038-1002 | | 1105 | 1 | | | | 1 | |
| MND28-1038-4001 | | 0800 | 1 | Z30500020 | | | NA | NA |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

**LOG OF SAMPLES COLLECTED**
**EG&G MOUND OPERABLE UNIT 9**
**BACKGROUND SOILS INVESTIGATION**
SHEET 5 OF __
WESTON W.O.#: 05376–039–007–0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Date Shipped | Airbill # ITA | Airbill # NFW | SEAL NO. ITA | SEAL NO. NFW | SOIL SERIES |
|---|---|---|---|---|---|---|---|---|
| MND28–1037–0001 | 7/18/93 | 1040 | 7/19/93 | 5186604743 | 5186604732 | 29018 | 29019 29020 | MILTON |
| MND28–1037–0002 | | 1110 | | | | | | MD3 |
| MND28–1038–0001 | | 1045 | | | | | | |
| MND28–1038–0002 | | 1105 | | | | | | |
| MND28–1039–0001 | | 1140 | | | | | | |
| MND28–1039–0002 | | 1200 | | | | | | |
| MND28-~~1039~~ 1038-1002 | | 1105 | | | | | | |
| MND28-1039-4001 | | 0800 | | 6436658872 | 6436658861 | 29014 | 29015 | |
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**PREPARED BY/DATE:**
**REVIEWED BY/DATE:**

14–Jul–93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 6 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | SAMPLER | FIELD BATCH # | SAMPLE MATRIX | LABORATORY COOLER # | | Metals, CN # Bottles | Metals, CN Lot # |
|---|---|---|---|---|---|---|---|---|---|
| MND28-1019-0001 | 7/19/93 | 930 | DAW | 004 | S | ZTA IT-041 | RFW 94 | 1 | L123077040 |
| MND28-1019-0002 | | 0950 | DAW | 004 | S | | | 1 | |
| MND28-1020-0001 | | 0930 | KB | 004 | S | | | 1 | |
| MND28-1020-0002 | | 1000 | KB | 004 | S | | | 1 | |
| MND28-1021-0001 | | 1020 | DAW | 004 | S | | | 1 | |
| MND28-1021-0002 | | 1040 | DAW | 004 | S | | | 1 | |
| | | | | | | | TOTAL | 0 | |

PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 6 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Pesticides/PCBs | | NO3-NO2, Cl, SO4, F | | NO3-NO2 (water) | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1019-0001 | 7/19/93 | 0930 | 1 | U3152090 | 1 | L3124040 | NA | NA |
| MND28-1019-0002 | ↓ | 0950 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1020-0001 | ↓ | 0930 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1020-0002 | ↓ | 1000 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1021-0001 | ↓ | 1020 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1021-0002 | ↓ | 1040 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 6 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Cl, SO4, F (water) | | Pu, Th, U, Sr-90, gamma | | H3 | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1019-0001 | 7/19/93 | 0930 | NA | NA | 1 | L4819040 | 1 | L4219040 |
| MND28-1019-0002 | ↓ | 0950 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
| MND28-1020-0001 | ↓ | 0930 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
| MND28-1020-0002 | ↓ | 1000 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
| MND28-1021-0001 | ↓ | 1020 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
| MND28-1021-0002 | ↓ | 1040 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 6 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | TOC | | Soil pH | | % Moisture | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1019-0001 | 7/14/93 | 0930 | 1 | I3066030 | NA | NA | 1 | B3124040 |
| MND28-1019-0002 | ↓ | 0950 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| MND28-1020-0001 | ↓ | 0930 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| MND28-1020-0002 | ↓ | 1000 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| MND28-1021-0001 | ↓ | 1020 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| MND28-1021-0002 | ↓ | 1040 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 6 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Date Shipped | Airbill # ITA | Airbill # RFW | SEAL NO. ITA | SEAL NO. RFW | SOIL SERIES |
|---|---|---|---|---|---|---|---|---|
| MND28-1019-0001 | 7/19/93 | 0930 | 7/19/93 | 5186604685 | 5186604706 | 29012 | 29013 | MIAMIAN MIB |
| MND28-1019-0002 | | 0950 | | | | | | |
| MND28-1020-0001 | | 0930 | | | | | | |
| MND28-1020-0002 | | 1000 | | | | | | |
| MND28-1021-0001 | | 1020 | | | | | | |
| MND28-1021-0002 | | 1040 | | | | | | |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 7 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | SAMPLER | FIELD BATCH # | SAMPLE MATRIX | LABORATORY COOLER # | | Metals, CN # Bottles | Metals, CN Lot # |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | ITA | IEW | | |
| MND28-1031-0001 | 7/20/93 | 1015 | TB | 004 | S | | | 1 | 4A3077040 |
| MND28-1031-0002 | | 1050 | TB | 004 | S | | | 1 | |
| MND28-1032-0001 | | 1020 | DAW | 004 | S | | | 1 | |
| MND28-1032-0002 | | 1045 | DAW | 004 | S | | | 1 | |
| MND28-1033-0001 | | 1110 | DAW | 005 | S | | | 1 | |
| MND28-1033-0002 | | 1130 | DAW | 005 | S | | | 1 | |
| MND28-1032-1002 | | 1045 | DAW | 004 | S | | | 1 | |
| MND28-1032-0002 RB/ISO | | 1045 | DAW | 004 | S | | | 1 | |
| MND28-1032-4002 | | 1330 | DAW | 004 | W | | | 1 | C3084080 |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 7 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Pesticides/PCBs | | NO3-NO2, Cl, SO4, F | | NO3-NO2 (water) | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1031-0001 | 7/20/93 | | 1 | U3157090 | 1 | L3124020 | NA | NA |
| MND28-1031-0002 | | | 1 | | 1 | | | |
| MND28-1032-0001 | | | 1 | | 1 | | | |
| MND28-1032-0002 | | | 1 | | 1 | | | |
| MND28-1033-0001 | | | 1 | | 1 | | | |
| MND28-1033-0002 | | | 1 | | 1 | | | |
| MND28-1032-1002 | | | 1 | | 1 | | | |
| MND28-1032-0002MS | | | 1 | | 1 | | | |
| MND28-1032-4002 | | | 2 | X2121010 | NA | 1X4 L2070010 | 1 | L2070010 |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 7 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Cl, SO4, F (water) | | Pu, Th, U, Sr-90, gamma | | H3 | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1031-0001 | 7/20/93 | | NA | NA | 1 | L/42191040 | 1 | L/42191040 |
| MND28-1031-0002 | | | | | 1 | | 1 | |
| MND28-1032-0001 | | | | | 1 | | 1 | |
| MND28-1032-0002 | | | | | 1 | | 1 | |
| MND28-1033-0001 | | | | | 1 | | 1 | |
| MND28-1033-0002 | | | | | 1 | | 1 | |
| MND28-1032-1002 | | | | | 1 | | 1 | |
| MND28-1032-1002 (rs) | | | | | | | | |
| MND28-1032-4002 | | | 1 | L0070210 | 2 | 173034040 | 1 | F1128020 |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 7 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | TOC | | Soil pH | | % Moisture | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1031-0001 | 7/20/93 | | 1 | I3066030 | NA | NA | 1 | B3124020 |
| MND28-1031-0002 | | | 1 | | | | 1 | |
| MND28-1032-0001 | | | 1 | | | | 1 | |
| MND28-1032-0002 | | | 1 | | | | 1 | |
| MND28-1033-0001 | | | 1 | I2341030 | | | 1 | |
| MND28-1033-0002 | | | 1 | I2341030 | | | 1 | |
| MND28-1032-1002 | | | 1 | I3066030 | | | 1 | |
| MND28-1032-0002 MS/MSD | | | 1 | I3066030 | | | 1 | |
| MND28-1032-4002 | | | 1 | I2305020 | | | NA | NA |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

**LOG OF SAMPLES COLLECTED**
**EG&G MOUND OPERABLE UNIT 9**
**BACKGROUND SOILS INVESTIGATION**
SHEET 7 OF __
**WESTON W.O.#: 05376-039-007-0100**

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Date Shipped | Airbill # ITA | Airbill # RFW | SEAL NO. ITA | SEAL NO. RFW | SOIL SERIES |
|---|---|---|---|---|---|---|---|---|
| MND28-1031-0001 | 7/20/93 | | 7/20/93 | 5186604765 | 5186604754 | 29021 | 29022 | MILTON MSB |
| MND28-1031-0002 | | | | | | | | |
| MND28-1032-0001 | | | | | | | | |
| MND28-1032-0002 | | | | | | | | |
| MND28-1033-0001 | | | | | | 29023 | 29024 | |
| MND28-1033-0002 | | | | | | 29023 | 29024 | |
| MND28-1032-1002 | | | | | | 29021 | 29022 | |
| MND28-1032-0002 MSD | | | | | | | | |
| MND28-1032-4002 | | | | | | | | |
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**PREPARED BY/DATE:**
**REVIEWED BY/DATE:**

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 8 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | SAMPLER | FIELD BATCH # | SAMPLE MATRIX | LABORATORY COOLER # | | Metals, CN # Bottles | Metals, CN Lot # |
|---|---|---|---|---|---|---|---|---|---|
| MND28-1025-0001 | 7/20/93 | 1420 | TB | 005 | S | ~~RFA~~ 083 | RFW 083 | 1 | L/D3072040 |
| MND28-1025-0002 | | 1500 | TB | 005 | S | | | 1 | |
| MND28-1026-0001 | | 1410 | KB | 005 | S | | | 1 | |
| MND28-1026-0002 | | 1445 | KB | 005 | S | | | 1 | |
| MND28-1027-0001 | | 1510 | KB | 005 | S | | | 1 | |
| MND28-1027-0002 | | 1540 | KB | 005 | S | | | 1 | |
| MND28-1027-1001 | | 1510 | KB | 005 | S | | | 1 | |
| MND28-1027-4001 | | 1600 | DAW | 005 | W | | | 1 | C3084080 |
| | | | | | | | | | |
| | | | | | | | | | |
| MND28-0999-0006 | 7/21/93 | 1000 | DAW | 0005 | S | RFW-069-A | | 1 | L/D3077040 |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 8 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Pesticides/PCBs | | NO3-NO2, Cl, SO4, F | | NO3-NO2 (water) | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1025-0001 | 7/20/93 | 1420 | 1 | U3152090 | 1 | L3124020 | NA | NA |
| MND28-1025-0002 | | 1500 | 1 | | 1 | | | |
| MND28-1026-0001 | | 1410 | 1 | | 1 | | | |
| MND28-1026-0002 | | 1445 | 1 | | 1 | | | |
| MND28-1027-0001 | | 1510 | 1 | | 1 | | | |
| MND28-1027-0002 | | 1540 | 1 | | 1 | | | |
| MND28-1027-1001 | | 1510 | 1 | | 1 | | | |
| MND28-1027-4001 | | 1600 | 2 | X2121010 | NA | NA | 1 | L2070010 |
| | | | | | | | | |
| | | | | | | | | |
| MND28-0999-0006 | 7/21/93 | 1000 | 1 | U3152090 | 1 | L3124020 | NA | NA |
| | | | | | | | | |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 8 OF _
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Cl, SO4, F (water) | | Pu, Th, U, Sr-90, gamma | | H3 | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1025-0001 | 7/20/93 | 1420 | NA | NA | 1 | L/42191040 | 1 | L/42191040 |
| MND28-1025-0002 | | 1500 | | | 1 | | 1 | |
| MND28-1026-0001 | | 1410 | | | 1 | | 1 | |
| MND28-1026-0002 | | 1445 | | | 1 | | 1 | |
| MND28-1027-0001 | | 1510 | | | 1 | | 1 | |
| MND28-1027-0002 | | 1540 | | | 1 | | 1 | |
| MND28-1027-1001 | | 1510 | | | 1 | | 1 | |
| MND28-1027-4001 | | 1600 | 1 | LL0700016 | 2 | M3034040 | 1 | F1125020 |
| | | | | | | | | |
| | | | | | | | | |
| MND28-0999-0006 | 7/21/93 | 1000 | NA | NA | NA | NA | NA | NA |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

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LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 8 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | TOC | | Soil pH | | % Moisture | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1025-0001 | 7/20/93 | 1420 | 1 | F2341030 | NA | NA | 1 | B3124020 |
| MND28-1025-0002 | | 1500 | 1 | | | | 1 | |
| MND28-1026-0001 | | 1410 | 1 | | | | 1 | |
| MND28-1026-0002 | | 1445 | 1 | | | | 1 | |
| MND28-1027-0001 | | 1510 | 1 | | | | 1 | |
| MND28-1027-0002 | | 1540 | 1 | | | | 1 | |
| MND28-1027-1001 | | 1510 | 1 | | | | 1 | |
| MND28-1027-4001 | | 1600 | 1 | Z3050020 | NA | NA | NA | NA |
| | | | | | | | | |
| | | | | | | | | |
| MND28-0995-0006 | 7/21/93 | 1000 | NA | NA | NA | NA | NA | NA |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

14-Jul-93

**LOG OF SAMPLES COLLECTED**
**EG&G MOUND OPERABLE UNIT 9**
**BACKGROUND SOILS INVESTIGATION**
**SHEET 8 OF __**
**WESTON W.O.#: 05376-039-007-0100**

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Date Shipped | Airbill # IFA | Airbill # NFW | SEAL NO. IFA | SEAL NO. NFN | SOIL SERIES |
|---|---|---|---|---|---|---|---|---|
| MND28-1025-0001 | 7/20/93 | 1420 | 7/20/93 | 5186604765 | 5186604754 | 29023 | 29024 | MIAMIAN Ma D3 |
| MND28-1025-0002 | | 1500 | | | | | | |
| MND28-1026-0001 | | 1410 | | | | | | |
| MND28-1026-0002 | | 1445 | | | | | | |
| MND28-1027-0001 | | 1510 | | | | | | |
| MND28-1027-0002 | | 1540 | | | | | | |
| MND28-1027-1001 | | 1510 | | | | | | |
| MND28-1027-4001 | | 1600 | | | | | | |
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| MND28-0999-0006 | 7/21/93 | 1000 | 7/21/93 | RFW - 5186604776 | | | 29025 | PERFORMANCE BLANK |
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**PREPARED BY/DATE:**
**REVIEWED BY/DATE:**

14-Jul-93

WESTON
MANAGERS DESIGNERS/CONSULTANTS

SHEET ____ of ____

CLIENT/SUBJECT E6+6 MOVING SHIFT (2) W.O. NO. ____

TASK DESCRIPTION SAMPLE BATCH DESCRIPTION TASK NO. ____

PREPARED BY ____ DEPT ____ DATE ____

MATH CHECK BY ____ DEPT ____ DATE ____

METHOD REV. BY ____ DEPT ____ DATE ____

APPROVED BY ____ DEPT ____ DATE ____

1033-0001
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999.9-0006
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1002-0002
1002-0001
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BATCH 6

1012-0001
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1014-0001
1014-0002
1015-0001
1015-0002
1015-1001 } DUP/BLANK
1015-4001
1025-0001 } 008
1025-0002

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1043-0001
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1010-0002
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BATCH 007

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1026-0002
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1022-0001
1022-0002
1023-0001
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1027-1001
1026-0001 MSD
1024-4002

009

DUP/BLANK/MSD

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1036-0001
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1036-1001
1035-0001 MSD
1034-4001

DUP/BLANK/MSD

1043-0002
1044-0002
1045-0002

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LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 12 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | SAMPLER | FIELD BATCH # | SAMPLE MATRIX | LABORATORY COOLER # | | Metals, CN # Bottles | Metals, CN Lot # |
|---|---|---|---|---|---|---|---|---|---|
| MND28-1001-0001 | 8/1/93 | 1630 | DAW | 006 | S | ITA 5119 | RFW ~~405~~ 499 | 1 | L23077040 |
| MND28-1001-0002 | | 1700 | DAW | 006 | S | | | | |
| MND28-1002-0001 | | 1635 | KB | 006 | S | | | | |
| MND28-1002-0002 | | 1700 | KB | 006 | S | | | | |
| MND28-1003-0001 | | 1720 | DAW | 006 | S | | | | |
| MND28-1003-0002 | | 1730 | KB | 006 | S | | | | |
| MND28-1003-1001 | | 1720 | DAW | 006 | S | | | | |
| MND28-1003-4001 | | 1800 | DAW | 006 | W | 101 | 633 | | L3084080 |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 12 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Pesticides/PCBs | | NO3-NO2, Cl, SO4, F | | NO3-NO2 (water) | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1001-0001 | 8/1/93 | 1630 | 1 | V3152090 | 1 | L3124020 | NA | NA |
| MND28-1001-0002 | | 1700 | | | | | | |
| MND28-1002-0001 | | 1635 | | | | | | |
| MND28-1002-0002 | | 1700 | | | | | | |
| MND28-1003-0001 | | 1720 | | | | | | |
| MND28-1003-0002 | | 1730 | | | | | | |
| MND28-1003-1001 | | 1720 | | | | | | |
| MND28-1003-4001 | | 1800 | 2 | X2121010 | NA | NA | 1 | L2070010 |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 12 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Cl, SO4, F (water) | | Pu, Th, U, Sr-90, gamma | | H3 | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1001-0001 | 8/1/93 | 1630 | NA | NA | 1 | L42191040 | 1 | L42191040 |
| MND28-1001-0002 | | 1700 | | | | | | |
| MND28-1002-0001 | | 1635 | | | | | | |
| MND28-1002-0002 | | 1700 | | | | | | |
| MND28-1003-0001 | | 1720 | | | | | | |
| MND28-1003-0002 | | 1730 | | | | | | |
| MND28-1003-1001 | | 1720 | | | | | | |
| MND28-1003-4001 | | 1800 | 1 | L20700016 | 2 | 143034040 | 1 | F112802 |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 12 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | TOC | | Soil pH | | % Moisture | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1001-0001 | 8/1/93 | 1630 | 1 | I2341030 | NA | NA | 1 | B3124020 |
| MND28-1001-0002 | | 1700 | | | | | | |
| MND28-1002-0001 | | 1635 | | | | | | |
| MND28-1002-0002 | | 1700 | | | | | | |
| MND28-1003-0001 | | 1720 | | | | | | |
| MND28-1003-0002 | | 1730 | | | | | | |
| MND28-1003-1001 | | 1720 | | | | | | |
| MND28-1003-4001 | | 1800 | | 33050020 | | | NA | NA |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 12 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Date Shipped | Airbill # ITA | RFW | SEAL NO. ITA | SEAL NO. RFW | SOIL SENSITIVITY |
|---|---|---|---|---|---|---|---|---|
| MND28-1001-0001 | 8/1/93 | 1630 | 8/2/93 | 6293663445 | 6293663375 | 29026 | 29027 | CoB |
| MND28-1001-0002 | | 1700 | | | | | | |
| MND28-1002-0001 | | 1635 | | | | | | |
| MND28-1002-0002 | | 1700 | | | | | | |
| MND28-1003-0001 | | 1720 | | | | | | |
| MND28-1003-0002 | | 1730 | | | | | | |
| MND28-1003-1001 | | 1720 | | | | | | |
| MND28-1003-4001 | | 1800 | | | | 29028 | ~~29029~~ 29030 | |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 9 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | SAMPLER | FIELD BATCH # | SAMPLE MATRIX | LABORATORY COOLER # | | Metals, CN # Bottles | Metals, CN Lot # |
|---|---|---|---|---|---|---|---|---|---|
| MND28-1007-0001 | 8/2/93 | 1415 | DAW | 007 | S | IFA 070 | RIW 12X | 1 | L/13077040 |
| MND28-1007-0002 | | 1440 | DAW | 007 | S | | | | |
| MND28-1008-0001 | | 1415 | KB | 007 | S | | | | |
| MND28-1008-0002 | | 1435 | KB | 007 | S | | | | |
| MND28-1009-0001 | | 1435 | TB | 007 | S | | | | |
| MND28-1009-0002 | | 1500 | DAW | 007 | S | | | | |
| MND28-1009-1001 | | 1435 | TB | 007 | S | | | | |
| MND28-1009-0002 MSD | | 1500 | DAW | 007 | ~~W~~ S | | | | |
| MND28-1009-4002 | | 1700 | DAW | 007 | W | 101 | 033 ~~070~~ | 1 | L3084080 |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

**LOG OF SAMPLES COLLECTED**
**EG&G MOUND OPERABLE UNIT 9**
**BACKGROUND SOILS INVESTIGATION**
SHEET 9 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Pesticides/PCBs | | NO3-NO2, Cl, SO4, F | | NO3-NO2 (water) | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1007-0001 | 8/2/93 | 1415 | 1 | U3152090 | 1 | L3124040 | NA | NA |
| MND28-1007-0002 | ↓ | 1440 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| MND28-1008-0001 | ↓ | 1415 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| MND28-1008-0002 | ↓ | 1435 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| MND28-1009-0001 | ↓ | 1435 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| MND28-1009-0002 | ↓ | 1500 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| MND28-1009-1001 | ↓ | 1435 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| MND28-1009-0002 (B/RSD) | ↓ | 1500 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| MND28-1009-4002 | ↓ | 1700 | 2 | X2121010 | NA | NA | 1 | L2070010 |
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**PREPARED BY/DATE:**
**REVIEWED BY/DATE:**

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 9 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Cl, SO4, F (water) | | Pu, Th, U, Sr-90, gamma | | H3 | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1007-0001 | 8/2/93 | 1415 | NA | NA | 1 | L/42191040 | 1 | L/42191040 |
| MND28-1007-0002 | | 1440 | | | | | | |
| MND28-1008-0001 | | 1415 | | | | | | |
| MND28-1008-0002 | | 1435 | | | | | | |
| MND28-1009-0001 | | 1435 | | | | | | |
| MND28-1009-0002 | | 1500 | | | | | | |
| MND28-1009-1001 | | 1435 | | | | | | |
| MND28-1009-0002MS/MSD | | 1500 | | | | | | |
| MND28-1009-4002 | | 1700 | 1 | L4070016 | 2 | M3034040 | 1 | F112820 |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 9 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | TOC | | Soil pH | | % Moisture | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1007-0001 | 8/2/93 | 1415 | 1 | I3066030 | NA | NA | 1 | B3124040 |
| MND28-1007-0002 | | 1440 | | | | | | |
| MND28-1008-0001 | | 1415 | | | | | | |
| MND28-1008-0002 | | 1435 | | | | | | |
| MND28-1009-0001 | | 1435 | | | | | | |
| MND28-1009-0002 | | 1500 | 1 | I2341030 | | | | |
| MND28-1009-1001 | | 1435 | 1 | I2341030 | | | | |
| MND28-1009-0002 Replicate | | 1500 | 1 | | | | ~~NA~~ | ~~NA~~ |
| MND28-1009-4001 | | 1700 | 1 | Z3050040 | | | NA | NA |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

**LOG OF SAMPLES COLLECTED**
**EG&G MOUND OPERABLE UNIT 9**
**BACKGROUND SOILS INVESTIGATION**
SHEET 9 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Date Shipped | Airbill # ITA | SEAL NO. RFW | SEAL NO. ITA | SEAL NO. RFW | SEAL NO. SOIL Services Fairmont |
|---|---|---|---|---|---|---|---|---|
| MND28-1007-0001 | 8/2/93 | 1415 | 8/2/93 | 6243663445 | 6243663375 | 29029 | 29031 | FaF2 |
| MND28-1007-0002 | | 1440 | | | | | | |
| MND28-1008-0001 | | 1415 | | | | | | |
| MND28-1008-0002 | | 1435 | | | | | | |
| MND28-1009-0001 | | 1435 ~~1500~~ | | | | | | |
| MND28-1009-0002 | | 1500 ~~1435~~ | | | | | | |
| MND28-1009-1001 | | 1435 ~~1500~~ | | | | | | |
| MND28-1009-0002 MSD | | 1500 | | | | | | |
| MND28-1009-4002 | 8/2/93 | 1700 | 8/2/93 | | | 29028 | 29030 | |
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**PREPARED BY/DATE:**
**REVIEWED BY/DATE:**

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 10 OF
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | SAMPLER | FIELD BATCH # | SAMPLE MATRIX | LABORATORY COOLER # | | Metals, CN # Bottles | Lot # |
|---|---|---|---|---|---|---|---|---|---|
| MND28-1010-0001 | 8/3/93 | 0945 | DAW | 007 ~~008~~ AN | S | ITA 064 | RZN 68 | 1 | 42307704 0 |
| MND28-1010-0002 | | 1030 | DAW | 007 ~~008~~ AN | S | | | | |
| MND28-1011-0001 | | 0940 | KB | 007 ~~008~~ AN | S | | | | |
| MND28-1011-0002 | | 1015 | KB | 007 ~~008~~ AN | S | | | | |
| MND28-1012-0001 | | 0940 | TB | 008 | S | 083 | 286 | | |
| MND28-1012-0002 | | 1045 | TB | 008 | S | 083 | 286 | | |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 10 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Pesticides/PCBs | | NO3-NO2, Cl, SO4, F | | NO3-NO2 (water) | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1010-0001 | 8/3/93 | 0945 | 1 | U3154040 | 1 | L3124040 | NA | NA |
| MND28-1010-0002 | ↓ | 1030 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1011-0001 | ↓ | 0940 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1011-0002 | ↓ | 1015 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1012-0001 | ↓ | 0940 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1012-0002 | ↓ | 1045 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

**LOG OF SAMPLES COLLECTED**
**EG&G MOUND OPERABLE UNIT 9**
**BACKGROUND SOILS INVESTIGATION**
SHEET 10 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Cl, SO4, F (water) | | Pu, Th, U, Sr-90, gamma | | H3 | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1010-0001 | 8/3/93 | 0945 | NA | NA | ~~1~~ 1 | L/4219 1040 | 1 | L/4219 1040 |
| MND28-1010-0002 | ↓ | 1030 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
| MND28-1011-0001 | ↓ | 0940 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
| MND28-1011-0002 | ↓ | 1015 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
| MND28-1012-0001 | ↓ | 0940 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
| MND28-1012-0002 | ↓ | 1045 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
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**PREPARED BY/DATE:**
**REVIEWED BY/DATE:**

28-Jul-93

**LOG OF SAMPLES COLLECTED**
**EG&G MOUND OPERABLE UNIT 9**
**BACKGROUND SOILS INVESTIGATION**
SHEET 10 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | TOC | | Soil pH | | % Moisture | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1010-0001 | 8/3/93 | 0945 | 1 | I2341030 | NA | NA | 1 | B3124010 |
| MND28-1010-0002 | ↓ | 1030 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| MND28-1011-0001 | ↓ | 0940 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| MND28-1011-0002 | ↓ | 1015 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| MND28-1012-0001 | ↓ | 0940 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| MND28-1012-0002 | ↓ | 1045 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
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**PREPARED BY/DATE:**
**REVIEWED BY/DATE:**

28-Jul-93

**LOG OF SAMPLES COLLECTED**
**EG&G MOUND OPERABLE UNIT 9**
**BACKGROUND SOILS INVESTIGATION**
SHEET 10 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Date Shipped | Airbill # IFA | RFW | SEAL NO. IFA | SEAL NO. RFW | SOIL SERIES |
|---|---|---|---|---|---|---|---|---|
| MND28-1010-0001 | 8/3/93 | 0945 | 8/3/93 | 6293662434 | 6293663316 | 29032 | 29033 | HENNEPIN HeFd |
| MND28-1010-0002 | | 1030 | | | | | | |
| MND28-1011-0001 | | 0940 | | | | | | |
| MND28-1011-0002 | | 1015 | | | | | | |
| MND28-1012-0001 | | 0940 | | | | 29034 | 29035 | |
| MND28-1012-0002 | | 1045 | | | | | | |
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**PREPARED BY/DATE:**
**REVIEWED BY/DATE:**

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 11 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | SAMPLER | FIELD BATCH # | SAMPLE MATRIX | LABORATORY COOLER # | | Metals, CN # Bottles | Metals, CN Lot # |
|---|---|---|---|---|---|---|---|---|---|
| MND28-1013-0001 | 8/3/93 | 1245 | DAW | 008 | S | ITA 083 | AFW 286 | 1 | L23077010 |
| MND28-1013-0002 | | 1330 | DAW | 008 | S | | | 1 | |
| MND28-1014-0001 | | 1300 | TB | 008 | S | | | 1 | |
| MND28-1014-0002 | | 1325 | TB | 008 | S | | | 1 | |
| MND28-1015-0001 | | 1300 | KB | 008 | S | | | 1 | |
| MND28-1015-0002 | | 1340 | KB | 008 | S | | | 1 | |
| MND28-1015-1001 | | 1300 | KB | 008 | S | | | 1 | |
| MND28-1015-4001 | | 1500 | DAW | 008 | W | 100 | 103 | 1 | L3084080 |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 11 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Pesticides/PCBs | | NO3-NO2, Cl, SO4, F | | NO3-NO2 (water) | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1013-0001 | 8/3/93 | 1245 | 1 | U5152040 | 1 | L3124040 | NA | NA |
| MND28-1013-0002 | | 1330 | | | | | | |
| MND28-1014-0001 | | 1300 | | | | | | |
| MND28-1014-0002 | | 1325 | | | | | | |
| MND28-1015-0001 | | 1300 | | | | | | |
| MND28-1015-0002 | | 1340 | | | | | | |
| MND28-1015-1001 | | 1300 | | | | | | |
| MND28-1015-4001 | | 1500 | 2 | X2121010 | NA | NA | 1 | L2070010 |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 11 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Cl, SO4, F (water) | | Pu, Th, U, Sr-90, gamma | | H3 | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1013-0001 | 8/3/93 | 1245 | NA | NA | 1 | L/4A191040 | 1 | L/4A191040 |
| MND28-1013-0002 | | 1330 | | | | | | |
| MND28-1014-0001 | | 1300 | | | | | | |
| MND28-1014-0002 | | 1325 | | | | | | |
| MND28-1015-0001 | | 1300 | | | | | | |
| MND28-1015-0002 | | 1340 | | | | | | |
| MND28-1015-1001 | | 1300 | | | | | | |
| MND28-1015-4001 | | 1500 | 1 | L2070016 | 2 | M3034040 | | F1282.0 |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 11 OF _
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | TOC | | Soil pH | | % Moisture | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1013-0001 | 8/3/93 | 1245 | 1 | I1341030 | NA | NA | 1 | 3312401.0 |
| MND28-1013-0002 | | 1330 | | | | | | |
| MND28-1014-0001 | | 1300 | | | | | | |
| MND28-1014-0002 | | 1315 | | | | | | |
| MND28-1015-0001 | | 1300 | | | | | | |
| MND28-1015-0002 | | 1340 | | | | | | |
| MND28-1015-1001 | | 1300 | | | | | | |
| MND28-1015-4001 | | 1500 | | 2305 0020 | | | | |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 11 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Date Shipped | Airbill # ITA | RFW | SEAL NO. ITA | SEAL NO. RFW | SOIL SAMPLES |
|---|---|---|---|---|---|---|---|---|
| MND28-1013-0001 | 8/3/93 | 1245 | 8/3/93 | 6243663434 | 6243663316 | 24034 | 24035 | HENNEPIN HmF3 |
| MND28-1013-0002 | | 1330 | | | | | | |
| MND28-1014-0001 | | 1300 | | | | | | |
| MND28-1014-0002 | | 1325 | | | | | | |
| MND28-1015-0001 | | 1300 | | | | | | |
| MND28-1015-0002 | | 1340 | | | | | | |
| MND28-1015-1001 | | 1300 | | | | | | |
| MND28-1015-4001 | | 1500 | | | | 24036 | 24037 | |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 17 OF _
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | SAMPLER | FIELD BATCH # | SAMPLE MATRIX | LABORATORY COOLER # | | Metals, CN | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | # Bottles | Lot # |
| MND28-1025-0001 | 8/4/93 | 1040 | DAW | 008 | S | STA 037 | RFW 447 | 1 | 42307 7040 |
| MND28-1025-0002 | ↓ | 1110 | DAW | 008 | S | ↓ | ↓ | 1 | ↓ |
| MND28-1026-0001 | ↓ | 1040 | KB | 009 | S | ↓ | ↓ | 1 | ↓ |
| MND28-1026-0002 | ↓ | 1120 | KB | 009 | S | ↓ | ↓ | 1 | ↓ |
| MND28-1027-0001 | ↓ | 1130 | DAW | 009 | S | ↓ | ↓ | 1 | ↓ |
| MND28-1027-0002 | ↓ | 1145 | DAW | 009 | S | ↓ | ↓ | 1 | ↓ |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 17 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Pesticides/PCBs | | NO3-NO2, Cl, SO4, F | | NO3-NO2 (water) | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1025-0001 | 8/4/93 | 1040 | 1 | U3152040 | 1 | L3124040 | NA | NA |
| MND28-1025-0002 | ↓ | 1110 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1026-0001 | ↓ | 1040 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1026-0002 | ↓ | 1120 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1027-0001 | ↓ | 1130 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1027-0002 | ↓ | 1145 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 17 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Cl, SO4, F (water) | | Pu, Th, U, Sr-90, gamma | | H3 | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1025-0001 | 8/4/93 | 1040 | NA | NA | 1 | L/4219 1040 | 1 | L/4219 1040 |
| MND28-1025-0002 | | 1110 | | | 1 | | 1 | |
| MND28-1026-0001 | | 1040 | | | 1 | | 1 | |
| MND28-1026-0002 | | 1120 | | | 1 | | 1 | |
| MND28-1027-0001 | | 1130 | | | 1 | | 1 | |
| MND28-1027-0002 | | 1145 | | | 1 | | 1 | |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 17 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | TOC | | Soil pH | | % Moisture | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1025-0001 | 8/4/93 | 1040 | 1 | I234103C | NA | NA | 1 | B3124020 |
| MND28-1025-0002 | ↓ | 1110 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| MND28-1026-0001 | ↓ | 1040 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| MND28-1026-0002 | ↓ | 1120 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| MND28-1027-0001 | ↓ | 1130 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| MND28-1027-0002 | ↓ | 1145 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 17 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Date Shipped | Airbill # ITA | RFW | SEAL ITA | RFW | SOIL SENTRY |
|---|---|---|---|---|---|---|---|---|
| MND28-1025-0001 | 8/4/93 | 1040 | 8/4/93 | 6243663423 | 6243663364 | 30893 | 30894 | 19203 |
| MND28-1025-0002 | | 1110 | | | | | | |
| MND28-1026-0001 | | 1040 | | | | | | |
| MND28-1026-0002 | | 1120 | | | | | | |
| MND28-1027-0001 | | 1130 | | | | | | |
| MND28-1027-0002 | | 1145 | | | | | | |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 13 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | SAMPLER | FIELD BATCH # | SAMPLE MATRIX | LABORATORY COOLER # | | Metals, CN # Bottles | Metals, CN Lot # |
|---|---|---|---|---|---|---|---|---|---|
| MND28-1022-0001 | 8/4/93 | 1400 | DAW | 009 | S | FFA 087 | NEW 46 | 1 | L/23077040 |
| MND28-1022-0002 | | 1410 | DAW | 009 | S | | | 1 | |
| MND28-1023-0001 | | 1415 | TB | 009 | S | | | 1 | |
| MND28-1023-0002 | | 1455 | TD | 009 | S | | | 1 | |
| MND28-1024-0001 | | 1430 | DAW | 009 | S | | | 1 | |
| MND28-1024-0002 | | 1445 | DAW | 009 | S | | | 1 | |
| MND28-1027-1001 | | 1130 | DAW | 009 | S | | | 1 | |
| MND28-1026-0001 MS/D | | 1040 | KB | 009 | S | | | 1 | |
| MND28-1024-4001 | | 1545 | DAW | 009 | W | 102 | | 1 | 30840 80 |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 13 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Pesticides/PCBs | | NO3-NO2, Cl, SO4, F | | NO3-NO2 (water) | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1022-0001 | 8/4/93 | 1400 | 1 | U3.52090 | 1 | L3124040 | NA | NA |
| MND28-1022-0002 | | 1410 | 1 | | 1 | | | |
| MND28-1023-0001 | | 1415 | 1 | | 1 | | | |
| MND28-1023-0002 | | 1455 | 1 | | 1 | | | |
| MND28-1024-0001 | | 1430 | 1 | | 1 | | | |
| MND28-1024-0002 | | 1445 | 1 | | 1 | | | |
| MND28-1027-1001 | | 1130 | 1 | | 1 | | | |
| MND28-1026-0001 rsp | | 1040 | 1 | | 1 | | | |
| MND28-1024-4002 | | 1545 | 2 | X2121010 | NA | NA | 1 | L2070010 |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 13 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Cl, SO4, F (water) | | Pu, Th, U, Sr-90, gamma | | H3 | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1022-0001 | 8/4/93 | 1400 | NA | NA | 1 | L/42191040 | 1 | L/42191040 |
| MND28-1022-0002 | | 1410 | | | 1 | | 1 | |
| MND28-1023-0001 | | 1415 | | | 1 | | 1 | |
| MND28-1023-0002 | | 1455 | | | 1 | | 1 | |
| MND28-1024-0001 | | 1430 | | | 1 | | 1 | |
| MND28-1024-0002 | | 1445 | | | 1 | | 1 | |
| MND28-1027-1001 | | 1130 | | | 1 | | 1 | |
| MND28-1026-0001 MS | | 1040 | | | 1 | | 1 | |
| MND28-1024-4002 | | 1545 | 1 | L2070016 | 2 | M3034040 | 1 | F112820 |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 13 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | TOC | | Soil pH | | % Moisture | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1022-0001 | 8/4/93 | 1400 | 1 | J2341030 | NA | NA | 1 | B3124010 |
| MND28-1022-0002 | | 1410 | 1 | J3C66030 | | | 1 | |
| MND28-1023-0001 | | 1415 | 1 | | | | 1 | |
| MND28-1023-0002 | | 1455 | 1 | | | | 1 | |
| MND28-1024-0001 | | 1430 | 1 | | | | 1 | |
| MND28-1024-0002 | | 1445 | 1 | | | | 1 | |
| MND28-1027-1001 | | 1130 | 1 | | | | 1 | |
| MND28-1026-0001 (BD) | | 1040 | 1 | | | | 1 | |
| MND28-1024-4002 | | 1545 | 1 | 23050010 | | | NA | NA |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 13 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Date Shipped | Airbill # ITA | RFW | SFAL 140 ITA | SFAL 140 RFW | SOIL SERIES |
|---|---|---|---|---|---|---|---|---|
| MND28-1022-0001 | 8/4/93 | 1400 | 8/4/93 | 6249366342 | 6249366364 | 30893 | 30889 | MIAMITY NaC3 |
| MND28-1022-0002 | | 1410 | | | | | | |
| MND28-1023-0001 | | 1415 | | | | | | |
| MND28-1023-0002 | | 1455 | | | | | | |
| MND28-1024-0001 | | 1430 | | | | | | |
| MND28-1024-0002 | | 1445 | | | | | | |
| MND28-1027-1001 | | 1130 | | | | | | |
| MND28-1026-0001 ISO | | 1040 | | | | | | |
| MND28-1024-4002 | | 1545 | | | | 30888 | | |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 16 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | SAMPLER | FIELD BATCH # | SAMPLE MATRIX | LABORATORY COOLER # | | Metals, CN # Bottles | Metals, CN Lot # |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | STA | NIW | | |
| MND28-1043-0001 | 8/5/93 | 1130 | DAW | 010 | S | 041 | 447 | 1 | L/A3077040 |
| ~~MND28-1043-0002~~ | | — | | | | | | 1 | |
| MND28-1044-0001 | | 1200 | DAW | | | 041 | 447 | 1 | |
| ~~MND28-1044-0002~~ | | — | | | | | | 1 | |
| MND28-1045-0001 | | 1145 | KB | | | 041 | 477 | 1 | |
| ~~MND28-1045-0002~~ | | — | | | | | | 1 | |
| | | | | | | | TOTAL | 0 | |

PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 16 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Pesticides/PCBs | | NO3-NO2, Cl, SO4, F | | NO3-NO2 (water) | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1043-0001 | 8/5/93 | 1130 | 1 | L3152050 | 1 | L3124040 | NA | NA |
| ~~MND28-1043-0002~~ | | | 1 | | 1 | | | |
| MND28-1044-0001 | | 1200 | 1 | | 1 | | | |
| ~~MND28-1044-0002~~ | | | 1 | | 1 | | | |
| MND28-1045-0001 | | 1145 | 1 | | 1 | | | |
| ~~MND28-1045-0002~~ | | | 1 | | 1 | | | |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 16 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Cl, SO4, F (water) | | Pu, Th, U, Sr-90, gamma | | H3 | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1043-0001 | 8/5/93 | 1130 | NA | NA | 1 | L/42191040 | 1 | L/42191010 |
| ~~MND28-1043-0002~~ | | | | | 1 | | 1 | |
| MND28-1044-0001 | | 1200 | | | 1 | | 1 | |
| ~~MND28-1044-0002~~ | | | | | 1 | | 1 | |
| MND28-1045-0001 | | 1145 | | | 1 | | 1 | |
| ~~MND28-1045-0002~~ | | | | | 1 | | 1 | |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 16 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | TOC | | Soil pH | | % Moisture | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1043-0001 | 8/5/93 | 1130 | 1 | 5306603 0 | NA | NA | 1 | 5312402 0 |
| ~~MND28-1043-0002~~ | | | 1 | | | | 1 | |
| MND28-1044-0001 | | 1200 | 1 | | | | 1 | |
| ~~MND28-1044-0002~~ | | | 1 | | | | 1 | |
| MND28-1045-0001 | | 1145 | 1 | | | | 1 | |
| ~~MND28-1045-0002~~ | | | 1 | | | | 1 | |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 16 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Date Shipped | Airbill # ITA | RFW | SEAL NO ITA | SEAL NO RFW | SOIL SAMPLES |
|---|---|---|---|---|---|---|---|---|
| MND28-1043-0001 | 8/5/93 | 1130 | 8/5/93 | 6243663386 | 6243662320 | ~~30842~~ 30890 | 30842 | RITCHEY RFD3 |
| ~~MND28-1043-0002~~ | | | | | | | | |
| MND28-1044-0001 | | 1200 | | | | | | |
| ~~MND28-1044-0002~~ | | | | | | | | |
| MND28-1045-0001 | | 1145 | | | | | | |
| ~~MND28-1045-0002~~ | | | | | | | | |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 15 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | SAMPLER | FIELD BATCH # | SAMPLE MATRIX | LABORATORY COOLER # | | Metals, CN # Bottles | Metals, CN Lot # |
|---|---|---|---|---|---|---|---|---|---|
| MND28-1028-0001 | 8/5/93 | 1420 | DAW | 010 | S | 041 | 447 | 1 | L3077040 |
| MND28-1028-0002 | ↓ | 1500 | DAW | ↓ | S | ↓ | ↓ | 1 | ↓ |
| MND28-1029-0001 | ↓ | 1420 | KB | ↓ | S | ↓ | ↓ | 1 | ↓ |
| MND28-1029-0002 | ↓ | 1500 | KB | ↓ | S | ↓ | ↓ | 1 | ↓ |
| MND28-1030-0001 | ↓ | 1500 | TB | ↓ | S | ↓ | ↓ | 1 | ↓ |
| MND28-1030-0002 | ↓ | 1530 | TB | ↓ | S | ↓ | ↓ | 1 | ↓ |
| MND28-1028-~~000~~1002 | ↓ | 1500 | DAW | ↓ | S | ↓ | ↓ | 1 | ↓ |
| MND28-~~40~~ 1028 - 4002 | ↓ | 1630 | DAW | ↓ | W | 047 | 023 | 1 | L3084080 |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 15 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Pesticides/PCBs | | NO3-NO2, Cl, SO4, F | | NO3-NO2 (water) | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1028-0001 | 8/5/93 | 1420 | 1 | U315 2050 | 1 | L3124040 | NA | NA |
| MND28-1028-0002 | | 1500 | 1 | | 1 | | | |
| MND28-1029-0001 | | 1420 | 1 | | 1 | | | |
| MND28-1029-0002 | | 1500 | 1 | | 1 | | | |
| MND28-1030-0001 | | 1500 | 1 | | 1 | | | |
| MND28-1030-0002 | | 1530 | 1 | | 1 | | | |
| MND28-1028-~~000~~ 1002 | | 1500 | 1 | | 1 | | | |
| MND28-~~40~~ 1028 -~~000~~ 4002 | | 1630 | 2 | XX121010 | NA | NA | 1 | L2070010 |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 15 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Cl, SO4, F (water) | | Pu, Th, U, Sr-90, gamma | | H3 | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1028-0001 | 8/5/93 | 1420 | NA | NA | 1 | L/42191040 ~~L/42191~~ | 1 | L/42191040 |
| MND28-1028-0002 | ↓ | 1500 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
| MND28-1029-0001 | | 1420 | | | 1 | | 1 | |
| MND28-1029-0002 | | 1500 | | | 1 | | 1 | |
| MND28-1030-0001 | | 1500 | | | 1 | | 1 | |
| MND28-1030-0002 | | 1530 | | | 1 | | 1 | |
| MND28-1025-~~000~~ 1002 | | 1500 | ↓ | ↓ | 1 | ↓ | 1 | ↓ |
| MND28-4E-~~000~~ 1002-4002 | ↓ | 1630 | 1 | L/070016 | 2 | M3034040 | 1 | F11220 |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 15 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | TOC | | Soil pH | | % Moisture | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1028-0001 | 8/5/93 | 1420 | 1 | I3066030 | NA | NA | 1 | B3124020 |
| MND28-1028-0002 | | 1500 | 1 | | | | 1 | |
| MND28-1029-0001 | | 1420 | 1 | | | | 1 | |
| MND28-1029-0002 | | 1500 | 1 | | | | 1 | |
| MND28-1030-0001 | | 1500 | 1 | | | | 1 | |
| MND28-1030-0002 | | 1530 | 1 | | | | 1 | |
| MND28-1028-~~000~~ 1002 | | 1500 | 1 | | | | 1 | |
| MND28-~~40~~ 1021 -~~000~~ 4002 | | 1630 | 1 | Z3050020 | | | NA | NA |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 15 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Date Shipped | Airbill # IFA | AFW | SEAL IFA | SEAL AFW | SOIL SERIES |
|---|---|---|---|---|---|---|---|---|
| MND28-1028-0001 | 8/5/93 | 1420 | 8/5/93 | 6A9366 3286 | 6A9366 3320 | 30890 | 30892 | MIAMIAN |
| MND28-1028-0002 | | 1500 | | | | | | M/oC |
| MND28-1029-0001 | | 1420 ~~1530~~ | | | | | | |
| MND28-1029-0002 | | 1500 | | | | | | |
| MND28-1030-0001 | | 1500 | | | | | | |
| MND28-1030-0002 | | 1500 | | | | | | |
| MND28-1028-1001 ~~0002~~ | | 1500 | | | | | | |
| MND28-1028-4001 ~~0002~~ | | 1630 | | | | 30891 | 30883 | |
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PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 14 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | SAMPLER | FIELD BATCH # | SAMPLE MATRIX | LABORATORY COOLER # | | Metals, CN # Bottles | Metals, CN Lot # |
|---|---|---|---|---|---|---|---|---|---|
| MND28-1034-0001 | 8/6/93 | 1115 | DAW | 011 | S | JFA 068 | NFW 141 | 1 | L23077040 |
| MND28-1034-0002 | | 1140 | DAW | 011 | S | | | 1 | |
| MND28-1035-0001 | | 1110 | KB | 011 | S | | | 1 | |
| MND28-1035-0002 | | 1155 | KB | 011 | S | | | 1 | |
| MND28-1036-0001 | | 1115 | TB | 011 | S | | | 1 | |
| MND28-1036-0002 | | 1200 | TB | 011 | S | | | 1 | |
| MND28-1036-1001 | | 1115 | TB | 011 | S | | | 1 | |
| MND28-1035-0001 MSD | | 1110 | KB | 011 | S | | | 1 | |
| MND28-~~10~~ 1036-4001 | | 1400 | DAW | 011 | W | 103 | 497 | 1 | L30840050 |
| MND28-~~1044~~ 1043-0002 | | 1450 | KB | 011 | S | 068 | 141 | 1 | L23077040 |
| MND28-~~1045~~ 1044-0002 | | 1500 | TB | 011 | S | | | 1 | |
| MND28-~~1046~~ 1045-0002 | | 1525 | KB | 011 | S | | | 1 | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | TOTAL | | 0 | |

PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 14 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Pesticides/PCBs | | NO3-NO2, Cl, SO4, F | | NO3-NO2 (water) | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1034-0001 | 8/6/93 | 1115 | 1 | V3152040 | 1 | L3124040 | NA | NA |
| MND28-1034-0002 | ↓ | 1140 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1035-0001 | ↓ | 1110 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1035-0002 | ↓ | 1155 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1036-0001 | ↓ | 1115 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1036-0002 | ↓ | 1200 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1036-1001 | ↓ | 1115 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1035-0001 MS | ↓ | 1110 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1036-4001 | ↓ | 1400 | 2 | X3148040 | NA | NA | 1 | L3069010 ~~L3070010~~ |
| MND28-1043-0002 | ↓ | 1450 | 1 | V3152040 | 1 | L3124040 | NA | NA |
| MND28-1044-0002 | ↓ | 1500 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| MND28-1045-0002 | ↓ | 1525 | 1 | ↓ | 1 | ↓ | ↓ | ↓ |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | 0 | | 0 | | 0 | |

PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 14 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Cl, SO4, F (water) | | Pu, Th, U, Sr-90, gamma | | H3 | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1034-0001 | 8/6/93 | 1115 | NA | NA | 1 | L/42191040 | 1 | L/42191040 |
| MND28-1034-0002 | | 1140 | | | 1 | | 1 | |
| MND28-1035-0001 | | 1110 | | | 1 | | 1 | |
| MND28-1035-0002 | | 1155 | | | 1 | | 1 | |
| MND28-1036-0001 | | 1115 | | | 1 | | 1 | |
| MND28-1036-0002 | | 1200 | | | 1 | | 1 | |
| MND28-1036-1001 | | 1115 | | | 1 | | 1 | |
| MND28-1035-0001 MSD | | 1110 | | | 1 | | 1 | |
| MND28-1036-4001 | | 1400 | 1 | L3069010 ~~L3670016~~ | 2 | M3034040 | 1 | F112820 |
| MND28-1043-0002 | | 1450 | NA | NA | 1 | L/42191040 | 1 | L/42191040 |
| MND28-1044-0002 | | 1500 | | | 1 | | 1 | |
| MND28-1045-0002 | | 1525 | | | 1 | | 1 | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | 0 | | 0 | | 0 | |

PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 14 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | TOC | | Soil pH | | % Moisture | |
|---|---|---|---|---|---|---|---|---|
| | | | # Bottles | Lot # | # Bottles | Lot # | # Bottles | Lot # |
| MND28-1034-0001 | 8/6/93 | 1115 | 1 | I2341030 | NA | NA | 1 | B3124020 |
| MND28-1034-0002 | ↓ | 1140 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| MND28-1035-0001 | ↓ | 1110 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| MND28-1035-0002 | ↓ | 1155 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| MND28-1036-0001 | ↓ | 1115 | 1 | I3066030 | ↓ | ↓ | 1 | ↓ |
| MND28-1036-0002 | ↓ | 1200 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| MND28-1036-1001 | ↓ | 1115 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| MND28-1035-0001 MSD | ↓ | 1110 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| MND28-1036-4001 | ↓ | 1400 | 1 | Z3125010 ~~I3054020~~ | NA | NA | NA | NA |
| MND28-1043-0002 | ↓ | 1450 | 1 | I3066030 | ↓ | ↓ | 1 | B3124020 |
| MND28-1044-0002 | ↓ | 1500 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| MND28-1045-0002 | ↓ | 1525 | 1 | ↓ | ↓ | ↓ | 1 | ↓ |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | 0 | | 0 | | 0 | |

PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

LOG OF SAMPLES COLLECTED
EG&G MOUND OPERABLE UNIT 9
BACKGROUND SOILS INVESTIGATION
SHEET 14 OF __
WESTON W.O.#: 05376-039-007-0100

| SAMPLE IDENTIFICATION | DATE COLLECTED | TIME | Date Shipped | Airbill # ITA | RFW | SEAL NO. ITA | SEAL NO. RFW | SOIL SERIES |
|---|---|---|---|---|---|---|---|---|
| MND28-1034-0001 | 8/6/93 | 1115 | 8/6/93 | 6293663390 | 6293663353 | 30886 | 30884 | MILTON MSC2 |
| MND28-1034-0002 | | 1140 | | | | | | |
| MND28-1035-0001 | | 1110 | | | | | | |
| MND28-1035-0002 | | 1155 | | | | | | |
| MND28-1036-0001 | | 1115 | | | | | | |
| MND28-1036-0002 | | 1200 | | | | | | |
| MND28-1036-1001 | | 1115 | | | | | | |
| MND28-1035-0001 RED | | 1110 | | | | | | |
| MND28-1036-4001 | | 1400 | | | | 30887 | 30885 | |
| MND28-1043-0002 | | 1450 | | | | 30886 | 30884 | RITCHEY RFD3 |
| MND28-1044-0002 | | 1500 | | | | | | |
| MND28-1045-0002 | | 1525 | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

PREPARED BY/DATE:
REVIEWED BY/DATE:

28-Jul-93

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EG+G-29-01-10-07-01
#9506050037

# APPENDIX D

APPENDIX D

# APPENDIX D

## CHAIN OF CUSTODY

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client: EG&G Mound
Est. Final Proj. Sampling Date
Work Order # 05376-039-007-0200-99
Project Contact/Phone # Craig Stoll (513)825-3440
AD Project Manager Jon Olander (708)918-4000
QC Del TAT
Date Rec'd Date Due
Account #

| Refrigerator # | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #/Type Container | Liquid | | | 1-G | | | | | | | | | | | | | |
| | Solid | | | 1-G | | 1G | 1P | | | 1P | | | | | | | |
| Volume ml | Liquid | | | | | | | | | | | | | | | | |
| | Solid | | | 250 | | 125 | 500 | | | 250 | | | | | | | |
| Preservatives | | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | | INORG | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | TOC | | | | Metal | CN | | | | | | |
| | | | | 11 | | 15 | 23 24 25 27 | | | 26 27 | | | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) | Matrix | Date Collected | VOA | BNA | Pest/PCB | Herb | TOC | | | Metal | CN | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MN028-1046-0001 | | S | 7/14/93 | | | 1 | | 1 | 1 | | 1 | | | | | |
| | MN028-1046-0002 | | S | | | | 1 | | 1 | 1 | | 1 | | | | | |
| | MN028-1047-0001 | | S | | | | 1 | | 1 | 1 | | 1 | | | | | |
| | MN028-1047-0002 | | S | | | | 1 | | 1 | 1 | | 1 | | | | | |
| | MN028-1048-0001 | | S | | | | 1 | | 1 | 1 | | 1 | | | | | |
| | MN028-1048-0002 | | S | | | | 1 | | 1 | 1 | | 1 | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

Special Instructions:
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90
~~11-Pests/PCBs-CLP SOW OLM01.8~~
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

DATE/REVISIONS:
1. NCO (D) KB 7/14/93
2.
3. WESTON ANALYTICS
4.
5. SEAL NO. 29006
6.

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| DAW | FEDEX | 7/14/93 | 1800 |
| | | | |

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| | | | |
| | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

**WESTON Analytics Use Only**

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # _____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec'd Y or N

WESTON Analytics Use Only

BATCH NO. 001 AIRBILL 52936688

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client: [illegible]
Est. Final Proj. Sampling Date: [illegible]
Work Order #: [illegible]
Project Contact/Phone #: [illegible]
AD Project Manager: [illegible]
QC: _____ Del _____ TAT _____
Date Rec'd _____ Date Due _____
Account # _____

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator # | | | | | | | | | | | | | | | | | |
| #/Type Container | Liquid | | | | | | | | | | | | | | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Volume | Liquid | | | | | | | | | | | | | | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Preservatives | | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | | INORG | | | | | | | |
| | | VOA | BNA | Pest/ PCB | Herb | | | | | Metal | CN | RAD | H3 | Tritium | | | |
| | | | | | | | | | | | | 125 | 125 | 40 | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
XS - Other
FI - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) | Matrix | Date Collected | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MN028-1046-0001 | | S | 7/14/93 | | | | | | | | | | 1 | 1 | 1 | | |
| | MN028-1046-0002 | | S | ↓ | | | | | | | | | | 1 | 1 | 1 | | |
| | MN028-1047-0001 | | S | ↓ | | | | | | | | | | 1 | 1 | 1 | | |
| | MN028-1047-0002 | | S | ↓ | | | | | | | | | | 1 | 1 | 1 | | |
| | MN028-1048-0001 | | S | ↓ | | | | | | | | | | 1 | 1 | 1 | | |
| | MN028-1048-0002 | | S | ↓ | | | | | | | | | | 1 | 1 | 1 | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

Special Instructions:

DATE/REVISIONS:
1. _____
2. _____
3. IT
4. _____
5. _____
6. _____

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # _____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec'd Y or N

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| DAW | FEDEX | 7/14/ | 1800 |
| | | | |

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| | | | |
| | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

REW 21-21-001/A 8/90 1372 1373 1375 1377 1378 Ref# Cooler# G77 596

FIELD BATCH # CW1 IRDILL # S18OCL7002

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client: EG&G Rocky Flats
Est. Final Prep Sampling Date:
Work Order #: 05376-039-007-0200-93
Project Contact/Phone #: Craig Stoll (314) 825-2440
Alt. Project Manager: Jon Olander (708) 918-4000
COC #: Del TAT

Date Rec'd Date Due
Account #

| Refrigerator # | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #/Type Container | Liquid | | | 2-G | | 1-G | | 1-G | 1-G | 1-G | 1-G | | | | | | |
| | Solid | | | 1-G | | 1-G | 1-P | | | 1-G | | | | | | | |
| Volume | Liquid | | | 1000 | | 250 | | 500 | 500 | 1000 | 1000 | | | | | | |
| | Solid | | | 250 | | 125 | 500 | | | 250 | | | | | | | |
| Preservatives | Liquid | | | — | | $H_2SO_4$ | | $H_2SO_4$ | — | $HNO_3$ | $H_2SO_4$ | | | | | | |

ANALYSES REQUESTED →

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) | Matrix | Date Collected | ORGANIC VOA | BNA | Pest/PCB | Herb | | | | | INORG Metal | CN | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 11 | | 15 | 23 24 25 27 | 24 | 23 25 27 | 20 22 | 22 | | | | | |
| | MN028-1004-0001 | | S | 7/15/93 | | | 1 | | 1 | 1 | | | 1 | | | | | | |
| | MN028-1004-0002 | | S | | | | 1 | | 1 | 1 | | | 1 | | | | | | |
| | MN028-1005-0001 | | S | | | | 1 | | 1 | 1 | | | 1 | | | | | | |
| | MN028-1006-0001 | | S | | | | 1 | | 1 | 1 | | | 1 | | | | | | |
| | MN028-1005-1001 | | S | | | | 1 | | 1 | 1 | | | 1 | | | | | | |
| | MN028 1006-4001 | | W | | | | 2 | | 1 | | 1 | 1 | 1 | 1 | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SD - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

1-U
~~11-Pests/PCBs OLM SOW OLM01.0~~
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

Special Instructions:
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90

DATE/REVISIONS: KB 7/15/93
1.
2.
3. SEAL NO. 29009
4.
5. WESTON ANALYTICS
6.

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [illegible] | FEDEX | 7/15/93 | 1800 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # _____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec't Y or N

WESTON Analytics Use Only

FIELD BATCH 001 AIRBILL 5186604631

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client: BCG Mound
Est. Final Prog. Sampling Date:
Work Order: 05376-039-007-0200-99
Project Contact/Phone #: Carl Stelzel (513)825-3440
AD Project Manager: Jon Olander (708)918-4000
QC: Del: TAT:

Date Rec'd: Date Due:
Account #:

Refrigerator #

| #/Type Container | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Liquid | | | | | | | | | | | | | | | |
| | Solid | | | | | | | | | | | | | | | |
| Volume (ml) | Liquid | | | | | | | | | | | | | | | |
| | Solid | | | | | | | | | | | | | | | |
| Preservatives | Liquid | | | | | | | | | | | | | | | |

ANALYSES REQUESTED →

MATRIX CODES: S - Soil; SE - Sediment; SO - Solid; SL - Sludge; W - Water; O - Oil; A - Air; DS - Drum Solids; DL - Drum Liquids; L - EP/TCLP Leachate; WI - Wipe; X - Other; F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) | Matrix | Date Collected | ORGANIC VOA | ORGANIC BNA | ORGANIC Pest/PCB | ORGANIC Herb | INORG Metal | INORG CN | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | 1 Am 2 3 4 7 8 5 | 7/21/93 6 | | | |
| | MN028-1004-0001 | | S | 7/15/93 | | | | | | | 1 | 1 | 1 | | |
| | MN028-1004-0002 | | S | | | | | | | | 1 | 1 | 1 | | |
| | MN028-1005-0001 | | S | | | | | | | | 1 | 1 | 1 | | |
| | MN028-1006-0001 | | S | | | | | | | | 1 | 1 | 1 | | |
| | MN028-1005-1001 | | S | | | | | | | | 1 | 1 | 1 | | |
| | MN028-1006-4001 | | W | | | | | | | | 2 | 1 | | | |

1-U ~~11-Pests/PCBs CLP SOW OLM01.0~~
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

Special Instructions:
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90

ADDED TO BE RUN ON WATER ANALYSIS ONLY

DATE/REVISIONS: 143 7/15/93

1.
2.
3. SEAL NO. 27008
4.
5. ITA LABS
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # _____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| [illegible] | FEDEX | 7/15/93 | 1800 |
| | | | |

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| | | | |
| | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

WESTON Ar cs Use Only

DATE: 7-16-93 AIRBILL # 5106 04613

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client: EG&G Mound
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4000
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

| Refrigerator # | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #/Type Container | Liquid | | | | | | | | | | | | | | | | |
| | Solid | | | | | | | | | | | | 1-P | 1-P | 1-G | | |
| Volume (ml) | Liquid | | | | | | | | | | | | | | | | |
| | Solid | | | | | | | | | | | | 125 | 125 | 40 | | |
| Preservatives | | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | | INORG | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | | | | | Metal | CN | | RAD | H3 | % moist | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) | Matrix | Date Collected | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | 1 2 3 7 8 | 6 | | | | |
| | MN028-1005-0001 | | S | 7/16/93 | | | | | | | | | 1 | 1 | 1 | | | |
| | MN028-1005-0002 | | S | ↓ | | | | | | | | | 1 | 1 | 1 | | | |
| | MN028-1005-1001 | | S | | | | | | | | | | 1 | 1 | 1 | | | |
| | MN028-1006-0001 | | S | | | | | | | | | | 1 | 1 | 1 | | | |
| | MN028-1006-0002 | | S | ↓ | | | | | | | | | 1 | 1 | 1 | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

Special Instructions:
1-U
3-Ra
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90
11-Pests/PCBs-CLP SOW OLM01.0
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW ILM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

DATE/REVISIONS: KB 7/16/93

1
2 IT ANALYTICS
3
4 SEAL NO. 29010
5
6

WESTON Analytics Use Only

Samples were
1) Shipped or Hand Delivered
Airbill #
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec't Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [illegible] | FEDEX | 7/16/93 | 1730 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON



Client: EG&G Mound
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4000
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator # | | | | | | | | | | | | | | | | |
| # Type Container | Liquid | | | | | | | | | | | | | | | |
| | Solid | | | 1-G | | 1-G | 1-P | | | 1-P | | | | | | |
| Volume (ml) | Liquid | | | | | | | | | | | | | | | |
| | Solid | | | 250 | | 125 | 500 | | | 250 | | | | | | |
| Preservatives | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | | INORG | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | TOC | | | | Metal CN | CN | | | | | |

| MATRIX CODES: | Lab ID | Client ID/Description | Matrix QC Chosen (✓) | Matrix | Date Collected | VOA | BNA | Pest/PCB | Herb | TOC | | | | Metal CN | CN | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 11 | | 15 | 23 24 25 27 | | | 20 21 | | | | | | |
| S - Soil | | MIN028-1005-0001 | | S | 7/16/93 | | | 1 | | 1 | 1 | | | 1 | | | | | | |
| SE - Sediment | | MIN028-1005-0002 | | S | | | | 1 | | 1 | 1 | | | 1 | | | | | | |
| SO - Solid | | MIN028-1005-1001 | | S | | | | 1 | | 1 | 1 | | | 1 | | | | | | |
| SL - Sludge | | MIN028-1006-0001 | | S | | | | 1 | | 1 | 1 | | | 1 | | | | | | |
| W - Water | | MIN028-1006-0002 | | S | | | | 1 | | 1 | 1 | | | 1 | | | | | | |
| O - Oil | | | | | | | | | | | | | | | | | | | | |
| A - Air | | | | | | | | | | | | | | | | | | | | |
| DS - Drum Solids | | | | | | | | | | | | | | | | | | | | |
| DL - Drum Liquids | | | | | | | | | | | | | | | | | | | | |
| L - EP/TCLP Leachate | | | | | | | | | | | | | | | | | | | | |
| WI - Wipe | | | | | | | | | | | | | | | | | | | | |
| X - Other | | | | | | | | | | | | | | | | | | | | |
| F - Fish | | | | | | | | | | | | | | | | | | | | |

Special Instructions:
1-U
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90
11-Pests/PCBs-CLP SOW OLM01.8
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0, Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

DATE/REVISIONS: KB 7/16/93
1
2
3. WESTON ANALYTICAL
4
5. SEAL NO. 29011
6.

WESTON Analytics Use Only

Samples were
1) Shipped ___ or Hand Delivered
Airbill #
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec't Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [illegible] | FEDEX | 7/16/93 | 1730 | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

WESTON Analytics Use Only

BATCH NO 002 CSILL 518660472 1

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client: PGAG Mound
Est. Final/Prior Sampling Date:
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Joe Olander (708)918-4000
QC: Del: TAT:

Date Rec'd: Date Due:
Account #:

Refrigerator #

| #/Type Container | Liquid | Solid | Liquid | Solid |
|---|---|---|---|---|
| Volume (ml) | | | | |
| Preservatives | | | | |

ANALYSES REQUESTED →

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) | Matrix | Date Collected | VOA | BNA | Pest/PCB | Herb | | | | | Metal | CN | 1 2 3 7 8 | 6 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MN028-1016-0001 | | S | 7/17/93 | | | | | | | | | | | 1 | 1 | 1 | 1 | 1 |
| | MN028-1016-0002 | | S | | | | | | | | | | | | 1 | 1 | 1 | 1 | 1 |
| | MN028-1017-0001 | | S | | | | | | | | | | | | 1 | 1 | 1 | 1 | 1 |
| | MN028-1017-0002 | | S | | | | | | | | | | | | 1 | 1 | 1 | 1 | 1 |
| | MN028-1018-0001 | | S | | | | | | | | | | | | 1 | 1 | 1 | 1 | 1 |
| | MN028-1018-0002 | | S | | | | | | | | | | | | 1 | 1 | 1 | 1 | 1 |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

1-II 11-Pesta/PCBs-CLP SOW OLM01.8

Special Instructions:
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90

15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

DATE/REVISIONS:
1.
2.
3. ITA
4. SEAL NO 09016
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # _____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec'd Y or N

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| Tim Clark | FEDEX | 7/19/93 | 1800 |
| | | | |

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| | | | |
| | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

WESTON Analytics Use Only

BATCH IXC 002 — HTRBELL 3186604710

# Custody Transfer Record/Lab Work Request

WESTON MANAGERS DESIGNERS CONSULTANTS



Client: BG&G Mound
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0200-
Project Contact/Phone #: Carla Sco (513)825-3440
AD Project Manager: Jon Olander (708)918-4000
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator # | | | | | | | | | | | | | | | | | | |
| #/Type Container | Liquid | | | | | | | | | | | | | | | | | |
| | Solid | | | 1-G | | 1-6 | 1-P | | | 1-P | | | | | | | | |
| Volume (ml) | Liquid | | | | | | | | | | | | | | | | | |
| | Solid | | | 250 | | 125 | 500 | | | 250 | | | | | | | | |
| Preservatives | | | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | | INORG | | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | TOC | | | | Metal | CN | | | | | | | |
| | | | | 11 | | 15 | 23 24 25 27 | | | 20 22 | | | | | | | | |

MATRIX CODES: S - Soil; SE - Sediment; SD - Solid; SL - Sludge; W - Water; O - Oil; A - Air; DS - Drum Solids; DL - Drum Liquids; L - EP/TCLP Leachate; WI - Wipe; X - Other; F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) | Matrix | Date Collected | VOA | BNA | Pest/PCB | Herb | TOC | | | | Metal | CN | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MN028-1016-0001 | | S | 7/17/93 | | | 1 | | 1 | 1 | | | 1 | | | | | | |
| | MN028-1016-0002 | | S | ↓ | | | 1 | | 1 | 1 | | | 1 | | | | | | |
| | MN028-1017-0001 | | S | | | | 1 | | 1 | 1 | | | 1 | | | | | | |
| | MN028-1017-0002 | | S | | | | 1 | | 1 | 1 | | | 1 | | | | | | |
| | MN028-1018-0001 | | S | | | | 1 | | 1 | 1 | | | 1 | | | | | | |
| | MN028-1018-0002 | | S | ↓ | | | 1 | | 1 | 1 | | | 1 | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

Special Instructions:
1-U
~~11-Pests/PCBs CLP SOW OLM01.0~~
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

DATE/REVISIONS:
1.
2.
3. RFW
4. SEAL NO. 29017
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # _____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec't Y or N

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| [illegible] | FEDEX | 7/19/93 | 1800 |
| | | | |

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| | | | |
| | | | |

D-8

WESTON Analytics Use Only

BATCH NO. 002+003 SEE LOW AIRBILL 6293668872

# Custody Transfer Record/Lab Work Request

WESTON MANAGERS DESIGNERS/CONSULTANTS

Page 1 of 1

Client: BC&G Hounds
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4000
QC: Del TAT
Date Rec'd: Date Due:
Account #:

| Refrigerator # | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #/Type Container | Liquid | | | | | | | | | | | | 2P | 1G | | |
| | Solid | | | | | | | | | | | | | | | |
| Volume (ml) | Liquid | | | | | | | | | | | | 1000 | 250 | | |
| | Solid | | | | | | | | | | | | | | | |
| Preservatives | | | | | | | | | | | | | HNO3 | — | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | | | INORG | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | | | | | | Metal | CN | 7470 | 7470 | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) | Matrix | Date Collected | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MN028-1039-4001 | | W | 7/18/93 | | | | | | | | | 2 | 1 | | |
| | MN028-1040-4002 | | W | 7/18/93 | | | | | | | | | 2 | 1 | | |

1 2 3 7 8 DAW 7/21/93 (4) (5) 6

1-U
2-Pb
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90
11-Pests/PCBs-CLP SOW OLM01.8
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

Special Instructions:
ADDED TO BE RUN ON WATER ANALYSIS ONLY

DATE/REVISIONS: KB 7-19-93
1
2
3 ITA
4 SEAL NO 29014
5
6

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| [illegible] | FEDEX | 7/19/93 | 1800 |

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

**WESTON Analytics Use Only**

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ___
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec't Y or N

WESTON Analytics Use Only

BATCH NO. 002 AIRBILL 6293668861

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client: [illegible] BG&C Hound [illegible]
Est. Final Proj. Sampling Date: [illegible]
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4000
QC: _____ Del _____ TAT _____
Date Rec'd _____ Date Due _____
Account # _____

| Refrigerator # | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #/Type Container | Liquid | | | 2 | 2 | 1 | 1 | 1 | | 1-P | 1-P | | | | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Volume (ml) | Liquid | | | 1000 | | 250 | 500 | 500 | | 1000 | 1000 | | | | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Preservatives | | | | — | | $H_2SO_4$ | — | $H_2SO_4$ | | $HNO_3$ | NaOH | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | | INORG | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | TOC | Fluoride | $NO_2$ $NO_3$ | | Metal | CN | | | | | | |
| | | | | 11 | | 15 | 23 25 27 | 24 | | 20 | 22 | | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) | Matrix | Date Collected | VOA | BNA | Pest/PCB | Herb | TOC | Fluoride | $NO_2$ $NO_3$ | | Metal | CN | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MN028-1040-4002 | | W | 7/18/93 | | | 2 | | 1 | 1 | 1 | | 1 | 1 | | | | |

Special Instructions:
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90
~~11-Pests/PCBs-CLP SOW OLM01.0~~
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

DATE/REVISIONS: KB 7-19-93
1. _____
2. _____
3. RFW
4. SEAL NO. 29015
5. _____
6. _____

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # _____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec't Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [illegible] | FEDEX | 7/19/93 | 1800 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

REW 21-21-[illegible] 4-8/90 1372 1373 [illegible]5 1377 1378 Ref# Cooler# 2 [illegible] G37 [illegible]

WESTON Analytics Use Only

BATCH NO. 003 AIRBILL 6293668861

# Custody Transfer Record/Lab Work Request

WESTON



Client: [illegible]
Est. Final Proj. Sampling Date: [illegible]
Work Order #: 05376L039-D07-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4000
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

| Refrigerator # | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #/Type Container | Liquid | | | 2-G | | 1-G | 1-P | 1-P | | 1-P | 1-P | | | | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Volume (ml) | Liquid | | | 1000 | | 250 | 500 | 500 | | 1000 | 1000 | | | | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Preservatives | | | | | | $H_2SO_4$ | | $H_2SO_4$ | | $HNO_3$ | $NaOH$ | | | | | | |
| ANALYSES REQUESTED | | ORGANIC | | | | | | | | INORG | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | TOC | Fluoride | $NO_2/NO_3$ | | Metal | CN | | | | | | |
| | | | | 11 | | 15 | 23 25 27 | 24 | | 20 | 22 | | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) | Matrix | Date Collected | VOA | BNA | Pest/PCB | Herb | TOC | Fluoride | $NO_2/NO_3$ | | Metal | CN | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | KW028-1039-4001 | | W | 7/18/93 | | | 2 | | 1 | 1 | 1 | | 1 | 1 | | | | |
| | ~~KW028-1040-4002~~ | | ~~W~~ | ~~7/18/93~~ | | | ~~2~~ | | ~~1~~ | ~~1~~ | ~~1~~ | | ~~1~~ | ~~1~~ | | ~~RW~~ | ~~7/19/93~~ | |

11-Pesticides/PCBs-CLP SOW OLM01.8

Special Instructions:
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

DATE/REVISIONS: 7-19-93

1.
2.
3. RFW
4. SEAL NO. 29015
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # _____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec'd Y or N

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| [signature] | FedEx | 7/19/93 | 1800 |
| | | | |

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| | | | |
| | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

# Custody Transfer Record/Lab Work Request

WESTON



Client: EG&G Mound
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4000
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator # | | | | | | | | | | | | | | | | |
| #/Type Container | Liquid | | | | | | | | | | | | | | | |
| | Solid | | | 1-8 | | 1-8 | 1-P | | | 1-P | | | | | | |
| Volume (ml) | Liquid | | | | | | | | | | | | | | | |
| | Solid | | | 250 | | 125 | 500 | | | 250 | | | | | | |
| Preservatives | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | | INORG | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | TOC | | | | Metal | CN | | | | | |
| | | | | 11 | | 15 | 23 24 25 27 | | | 20 22 | | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) | Matrix | Date Collected | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MN028-1041-0001 | | S | 7/18/93 | | | 1 | | 1 | 1 | | | 1 | | | | |
| | MN028-1041-0002 | | S | | | | 1 | | 1 | 1 | | | 1 | | | | |
| | MN028-1042-0001 | | S | | | | 1 | | 1 | 1 | | | 1 | | | | |
| | MN028-1042-0002 | | S | | | | 1 | | 1 | 1 | | | 1 | | | | |
| | MN028-1037-0001 | | S | | | | 1 | | 1 | 1 | | | 1 | | | | |
| | MN028-1037-0002 | | S | | | | 1 | | 1 | 1 | | | 1 | | | | |
| | MN028-1038-0001 | | S | | | | 1 | | 1 | 1 | | | 1 | | | | |
| | MN028-1038-0002 | | S | | | | 1 | | 1 | 1 | | | 1 | | | | |
| | MN028-1039-0001 | | S | | | | 1 | | 1 | 1 | | | 1 | | | | |
| | MN028-1039-0002 | | S | | | | 1 | | 1 | 1 | | | 1 | | | | |

11-Pesticide/PCBs-CLP SOW OLM01.8

Special Instructions:
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

DATE/REVISIONS: 7-19-93
1.
2.
3. RFW
4. SEAL NO. 29019
5. 29020
6.

**WESTON Analytics Use Only**

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ___
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec't Y or N

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| [signature] | FEDEX | 7/19/93 | 1800 |
| | | | |

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| | | | |
| | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:



RFW 21.21.001/A 8/90 1372 1373 1375 1377 1378 Ref# Cooler# 1/1 C77 5962

# Custody Transfer Record/Lab Work Request



Client: BG&G Mound
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4000
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

Refrigerator #

| #/Type Container | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Liquid | | | | | | | | | | | | | | | | |
| Solid | | | 1-6 | | 1-6 | 1-P | | | 1-P | | | | | | | |
| Volume (ml) Liquid | | | | | | | | | | | | | | | | |
| Volume (ml) Solid | | | 250 | | 125 | 500 | | | 250 | | | | | | | |
| Preservatives | | | | | | | | | | | | | | | | |

ANALYSES REQUESTED →

| MATRIX CODES: | Lab ID | Client ID/Description | Matrix QC Chosen (✓) | Matrix | Date Collected | ORGANIC VOA | ORGANIC BNA | ORGANIC Pest/PCB | ORGANIC Herb | TOC | | | | INORG Metal CN | INORG CN | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 11 | | 15 | 23 24 25 27 | | | 20 22 | | | | | | |
| | | MN028-1040-0001 | | S | 7/18/93 | | | 1 | | 1 | 1 | | | 1 | | | | | | |
| | | MN028-1040-0002 | | S | ↓ | | | 1 | | 1 | 1 | | | 1 | | | | | | |
| | | MN028-1040-1001 | | S | | | | 1 | | 1 | 1 | | | 1 | | | | | | |
| | | MN028-1040-0001 MS/MSD | ✓ | S | | | | 1 | | 1 | 1 | | | 1 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

Special Instructions:
1-U
2-Pu
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90
11-Pests/PCBs-CLP SOW OLM01.8
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

DATE/REVISIONS: KB 7-19-93
1.
2. RFW
3. 29019 SEAL NO
4. 29020
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ___
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec't Y or N

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| [signature] | FEDEX | 7/19/93 | 1800 |
| | | | |

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| | | | |
| | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

# Custody Transfer Record/Lab Work Request



Client: EG&G Mound
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4000
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

| Refrigerator # | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #/Type Container | Liquid | | | | | | | | | | | | | | | |
| | Solid | | | 1-G | | 1-G | 1-P | | | 1-P | | | | | | |
| Volume (ml) | Liquid | | | | | | | | | | | | | | | |
| | Solid | | | 250 | | 125 | 500 | | | 250 | | | | | | |
| Preservatives | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | | INORG | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | TOC | | | | Metal | CN | | | | | |
| | | | | 11 | | 15 | 23 24 25 27 | | | 20 22 | | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
W - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) | Matrix | Date Collected | VOA | BNA | Pest/PCB | Herb | TOC | | | | Metal | CN | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MW22X-~~1038~~-~~1002~~ PAW 7/22/93 | | S | 7/18/93 | | | 1 | | 1 | 1 | | | 1 | | | | | |
| | 1038-1002 | | | | | | | | | | | | | | | | | |

Special Instructions:
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90
~~11-Pests/PCBs-CLP SOW OLM01.0~~
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

DATE/REVISIONS: KB 7-19-93

1.
2. RFW
3.
4. SEAL NO. 29019
5. 29020
6.

**WESTON Analytics Use Only**

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # _____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec't Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [illegible] | FEDEX | 7/19/93 | 1800 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21 [illegible]/A 8/90 1372 1373 1375 1377 1378 Ref# Cooler# G77 596

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON MANAGERS DESIGNERS CONSULTANTS

Page 1 of 1

Client
Est. Final Proj. Sampling Date
Work Order #
Project Contact/Phone #
AD Project Manager
QC ____ Del ____ TAT ____
Date Rec'd ____ Date Due ____
Account #

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator # | | | | | | | | | | | | | | | | |
| #/Type Container | Liquid | | | | | | | | | | | | | | | |
| | Solid | | | | | | | | | | | | | | | |
| Volume | Liquid | | | | | | | | | | | | | | | |
| | Solid | | | | | | | | | | | | | | | |
| Preservatives | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | | INORG | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | | | | | Metal | CN | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) | Matrix | Date Collected | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [illegible] | | S | [illegible] | | | 1 | | 1 | 1 | | 1 | | | | | | |
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Special Instructions:

DATE/REVISIONS:
1.
2.
3.
4.
5.
6.

**WESTON Analytics Use Only**

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # _____
2) Ambient or Chilled
3) Received In Good Condition Y or N
4) Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-8/90 L372 L373 L375 L377 L378 Ref# Cooler# G77 5263

ISATCH 003 AIRBILL NO. 51866047B

| WESTON Analytics Use Only |
|---|
| |

# Custody Transfer Record/Lab Work Request

WESTON



Client: EG&G Mound
Est. Final Proj. Sampling Date
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4000
QC ____ Del ____ TAT ____
Date Rec'd ____ Date Due ____
Account #

| Refrigerator # | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #/Type Container | Liquid | | | | | | | | | | | | | | | |
| | Solid | | | | | | | | | | 1-P | 1-P | 1-G | | | |
| Volume (ml) | Liquid | | | | | | | | | | | | | | | |
| | Solid | | | | | | | | | | 125 | 125 | 40 | | | |
| Preservatives | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | | | | Metal | CN | RAD | A3 | Pb, Hg, Cd | | | |
| | | WESTON Analytics Use Only | | | | | | | | | | | | | | |
| | | | | | | | | | | | 1 2 3 7 8 | 6 | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MN028-1040-0001 | | | S | 7/13/93 | 1400 | | | | | | | | 1 | 1 | 1 | | | | |
| | MN028-1040-0002 | | | S | | 1500 | | | | | | | | 1 | 1 | 1 | | | | |
| | MN028-1040-1001 | | | S | | 1400 | | | | | | | | 1 | 1 | 1 | | | | |
| | MN028-1040-0001 | ✓ | ✓ | S | | 1400 | | | | | | | | 1 | 1 | 1 | | | | |
| | MN028-1041-0001 | | | S | | 1400 | | | | | | | | 1 | 1 | 1 | | | | |
| | MN028-1041-0002 | | | S | | 1440 | | | | | | | | 1 | 1 | 1 | | | | |
| | MN028-1042-0001 | | | S | | 1440 | | | | | | | | 1 | 1 | 1 | | | | |
| | MN028-1042-0002 | | | S | | 1515 | | | | | | | | 1 | 1 | 1 | | | | |
| | MN028-1037-0001 | | | S | | 1040 | | | | | | | | 1 | 1 | 1 | | | | |
| | MN028-1037-0002 | | | S | ↓ | 1110 | | | | | | | | 1 | 1 | 1 | | | | |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

1-U
2-Pu
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90
11-Pests/PCBs-CLP SOW OLM01.8
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

DATE/REVISIONS:
1.
2.
3. ITA
4. SEAL NO. 25018
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [signature] | FEDEX | 7/15/93 | 1800 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-001/A-7/91 ____ L372 ____ L373 ____ 5 ____ L377 ____ L378 Ref# ____ Cooler# 064 381-596a

BATCH 003 AIRBILL 5186604743

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 2

Client: E646.1 MOUND
Est. Final Proj. Sampling Date
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: CRAIG STOLL (513) 825-3440
AD Project Manager: JON OLANDER (708) 918-4000
QC ____ Del ____ TAT ____
Date Rec'd ____ Date Due ____
Account # ____

Refrigerator #
#/Type Container: Liquid / Solid
Volume (ml): Liquid / Solid
Preservatives

ANALYSES REQUESTED →

| | ORGANIC | | | | | | | INORG | |
|---|---|---|---|---|---|---|---|---|---|
| | VOA | BNA | Pest/PCB | Herb | [illegible] | [illegible] | [illegible] | Metal | CN |
| #/Type Container Liquid | | | | | | | | | |
| #/Type Container Solid | | | | | | | | | |
| Volume (ml) Liquid | | | | | | | | | |
| Volume (ml) Solid | | | | | | | | | |
| Preservatives | | | | | | | | | |
| WESTON Analytics Use Only | | | | | | | | | |
| 1 2 3 7 8 | | | | | | | | | |
| 6 | | | | | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | 1 | 2 | 3 | 7 | 8 | 6 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MN028-1038-0001 | | | S | 7/18/93 | 1045 | | | | | | | | | | |
| | MN028-1039-0002 | | | S | | 1105 | | | | | | | | | | |
| | MN028-1039-0001 | | | S | | 1140 | | | | | | | | | | |
| | MN028-1039-0002 | | | S | | 1200 | | | | | | | | | | |
| | MN028-1038-1002 | | | S | | 1105 | | | | | | | | | | |
| | ~~MN028-10~~ | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

1-U
2-Pu
3-Th
7-GAMMA RAD
8-Sr-90
6-H3-906.0

DATE/REVISIONS:
1.
2.
3. ITA
4. SEAL # 29018
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec'd Y or N

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| [signature] | FEDEX | 7/19/93 | 1800 |
| | | | |

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| | | | |
| | | | |

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# ____ Cooler# 064 381-596a

WESTON Analytics Use Only

BATCH NO. 004 AIRBILL 5186604615

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client: EG&G-Mound
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4000
QC ____ Del ____ TAT ____
Date Rec'd ____ Date Due ____
Account # ____

Refrigerator #

| #/Type Container | | VOA | BNA | Pest/PCB | Herb | | | | | Metal | CN | RAD | H2S | % moist | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Liquid | | | | | | | | | | | 1-8 | 1-8 | 1-6 | | |
| | Solid | | | | | | | | | | | | | | | |
| Volume (ml) | Liquid | | | | | | | | | | | 125 | 125 | 40 | | |
| | Solid | | | | | | | | | | | | | | | |
| Preservatives | | | | | | | | | | | | | | | | |

ANALYSES REQUESTED → ORGANIC: VOA, BNA, Pest/PCB, Herb; INORG: Metal, CN

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) | Matrix | Date Collected | RAD | H2S | % moist |
|---|---|---|---|---|---|---|---|
| | | | | | 1 2 3 7 8 | 6 | |
| | MN028-1019-0001 | | S | 7/19/93 | 1 | 1 | |
| | MN028-1019-0002 | | S | | 1 | 1 | |
| | MN028-1020-0001 | | S | | 1 | 1 | |
| | MN028-1020-0002 | | S | | 1 | 1 | |
| | MN028-1021-0001 | | S | | 1 | 1 | |
| | MN028-1021-0002 | | S | | 1 | 1 | |

1-U
2-Pu
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90
11-Pests/PCBs-CLP SOW OLM01.8
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

Special Instructions:

DATE/REVISIONS:
1.
2.
3. ITA
4. SEAL NO. 29012
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec't Y or N

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| [signature] | FEDEX | 7/19/93 | 1800 |
| | | | |

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| | | | |
| | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21.21.0[illegible]A 8/90 1372 1373 1375 1377 1378 Ref# Cooler# [illegible]

WESTON Analytics Use Only

BATCH NO. 004 AJ TL 5186604645

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client: EG&G Mound
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4000
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator # | | | | | | | | | | | | | | | | |
| #/Type Container | Liquid | | | | | | | | | | | | | | | |
| | Solid | | | 1-G | | 1-G | 1-P | | | 1-P | | 1-P | | | | |
| Volume (ml) | Liquid | | | | | | | | | | | | | | | |
| | Solid | | | 250 | | 125 | 500 | | | 250 | | 250 mw | | | | |
| Preservatives | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | | INORG | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | TOC | | | | CN Metal | CN | | | | | |
| | | | | 11 | | 15 | 23 24 25 27 | | | 20 22 | | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) | Matrix | Date Collected | VOA | BNA | Pest/PCB | Herb | TOC | 23 24 25 27 | | | CN Metal | CN | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 14N028-1019-0001 | | S | 7/19/93 | | | 1 | | 1 | 1 | | | 1 | | | | | |
| | 14N028-1019-0002 | | S | ↓ | | | 1 | | 1 | 1 | | | 1 | | | | | |
| | 14N028-1020-0001 | | S | | | | 1 | | 1 | 1 | | | 1 | | | | | |
| | 14N028-1020-0002 | | S | | | | 1 | | 1 | 1 | | | 1 | | | | | |
| | 14N028-1021-0001 | | S | | | | 1 | | 1 | 1 | | | 1 | | | | | |
| | 14N028-1021-0002 | | S | | | | 1 | | 1 | 1 | | | 1 | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

7/19/93

Special Instructions:
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90
11-Pests/PCBs CLP SOW OLM01.0
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

DATE/REVISIONS: 7/19/93

1.
2.
3. RFW
4. SEAL NO. 29013
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ___
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec'd Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [illegible] | FEDEX | 7/19/93 | 1800 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES

RFW 21-21-001/A-8/90 1372 1373 1375 1377 1378 Ref# Cooler# 9 11 G33 6W

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client EG+G
Est. Final Proj. Sampling Date
Work Order # 05376-039-007-0200-99
Project Contact/Phone # Craig Stoll (513)825-3440
AD Project Manager Jon Olander (708)918-4800
QC ____ Del ____ TAT ____
Date Rec'd ____ Date Due ____
Account # ____

| Refrigerator # | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #/Type Container | Liquid | 1-P | | 2-G | | 1-G | | 1-P | | 1-P | 1-P | | | | | | |
| | Solid | | | 1-G | | 1-G | 1-P | | 1-P | | | | | | | | |
| Volume (ml) | Liquid | 500 | | 1000 | | 250 | | 500 | | 1000 | 1000 | | | | | | |
| | Solid | | | 250 | | 125 | 500 | | 250 | | | | | | | | |
| Preservatives | | $H_2SO_4$ | | — | | $H_2SO_4$ | | — | | NaOH | NaOH | | | | | | |
| ANALYSES REQUESTED | | ORGANIC | | | | | | | INORG | | | | | | | | |
| | | Non-Pest VOA | BNA | Pest/PCB | Herb | TOC | | F/Cl/Sulf | Metal | CN | Metals | | | | | | |

| MATRIX CODES: | Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | WESTON Analytics Use Only | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 24 | | 11 | | 15 | 23 24 25 27 | 23 25 27 | 26 22 | 22 | 20 | | | | | |
| S - Soil | | MN028-1031-0001 | | | S | 7/20/93 | 1015 | | | 1 | | 1 | 1 | | 1 | | | | | | | |
| SE - Sediment | | MN028-1031-0002 | | | S | | 1050 | | | 1 | | 1 | 1 | | 1 | | | | | | | |
| SO - Solid | | MN028-1032-0001 | | | S | | 1020 | | | 1 | | 1 | 1 | | 1 | | | | | | | |
| SL - Sludge | | MN028-1032-0002 | | | S | | 1045 | | | 1 | | 1 | 1 | | 1 | | | | | | | |
| W - Water | | MN028-1032-0002MS/MSD | ✓ | ✓ | S | | 1045 | | | 1 | | 1 | 1 | | 1 | | | | | | | |
| O - Oil | | MN028-1032-1002 | | | S | | 1045 | | | 1 | | 1 | 1 | | 1 | | | | | | | |
| A - Air | | MN028-1032-4002 | | | W | | 1330 | 1 | | 2 | | 1 | — | 1 | — | 1 | 1 | | | | | |
| DS - Drum Solids | | | | | | | | | | | | | | | | | | | | | | |
| DL - Drum Liquids | | | | | | | | | | | | | | | | | | | | | | |
| L - EP/TCLP Leachate | | | | | | | | | | | | | | | | | | | | | | |
| WI - Wipe | | | | | | | | | | | | | | | | | | | | | | |
| X - Other | | | | | | | | | | | | | | | | | | | | | | |
| F - Fish | | | | | | | | | | | | | | | | | | | | | | |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

1-U
2-Pu
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90

11-Pests/PCBs-CLP SOW OLM01.0
15 TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

DATE/REVISIONS:
1.
2.
3. Mod A RFW
4. SEAL NO. 29022
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec't Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [signature] | FEDEX | 7/20/93 | 1900 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# ____ Cooler# 574 381-596a

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client: EG+G
Est. Final Proj. Sampling Date: 05376-039-007-0200-99
Work Order #: Craig Stoll (513)825-3440
Project Contact/Phone #: Jon Olander (708)918-4800
AD Project Manager:
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

Refrigerator #

| #/Type Container | | VOA | BNA | Pest/PCB | Herb | TOC | | F/Cl/SO4 | Metal | CN | METAL | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Liquid | 1-P | | 2-G | | 1-G | | 1-P | | 1-P | 1-P | | | | | |
| | Solid | | | 1-G | | 1-G | 1-P | | 1-P | | | | | | | |
| Volume | Liquid | 500 | | 1000 | | 250 | | 500 | | 1000 | 1000 | | | | | |
| | Solid | | | 250 | | 125 | 500 | | 250 | | | | | | | |
| Preservatives | | $H_2SO_4$ | | — | | $H_2SO_4$ | - | — | | $NaOH$ | $HNO_3$ | | | | | |
| ANALYSES REQUESTED | | ORGANIC | | | | | | | INORG | | | | | | | |
| WESTON Analytics Use Only | | 24 | | 11 | | 15 | 23 24 25 27 | 23 25 27 | 20 22 | 22 | 20 | | | | | |

| MATRIX CODES: | Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | VOA | BNA | Pest/PCB | Herb | TOC | | F/Cl/SO4 | Metal | CN | METAL | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S - Soil, SE - Sediment, SO - Solid, SL - Sludge, W - Water, O - Oil, A - Air, DS - Drum Solids, DL - Drum Liquids, L - EP/TCLP Leachate, WI - Wipe, X - Other, F - Fish | | MN028-1033-0001 | | | S | 7/20/93 | 1110 | | | 1 | | 1 | 1 | | 1 | | | | | | | |
| | | MN028-1033-0002 | | | S | ↓ | 1130 | | | 1 | | 1 | 1 | | 1 | | | | | | | |
| | | MN028-1025-0001 | | | S | | 1420 | | | 1 | | 1 | 1 | | 1 | | | | | | | |
| | | MN028-1025-0002 | | | S | | 1500 | | | 1 | | 1 | 1 | | 1 | | | | | | | |
| | | MN028-1026-0001 | | | S | | 1410 | | | 1 | | 1 | 1 | | 1 | | | | | | | |
| | | MN028-1026-0002 | | | S | | 1445 | | | 1 | | 1 | 1 | | 1 | | | | | | | |
| | | MN028-1027-0001 | | | S | | 1510 | | | 1 | | 1 | 1 | | 1 | | | | | | | |
| | | MN028-1027-0002 | | | S | | 1540 | | | 1 | | 1 | 1 | | 1 | | | | | | | |
| | | MN028-1027-1001 | | | S | | 1510 | | | 1 | | 1 | 1 | | 1 | | | | | | | |
| | | MN028-1027-4001 | | | W | ↓ | 1600 | 1 | | 2 | | 1 | — | 1 | — | 1 | 1 | | | | | |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS: KB 7-20-93

Special Instructions:

1-U
2-Pu
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90

11-Pests/PCBs-CLP SOW OLM01.0
15 TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0, Mod A RFN
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

1.
2.
4. SEAL NO. 29024
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # _____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec'd Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [illegible] | FedEx | 7/20/93 | 1500 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# _____ Cooler# ~~479~~ 645 KB 381 596a

BATCH ~~0604~~ 004 AIRBILL 5186604765

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client EG+G IPOUND
Est. Final Proj. Sampling Date
Work Order # 05376-039-007-0200-99
Project Contact/Phone # Craig Stoll (513)825-3440
AD Project Manager Jon Olander (708)918-4800
QC ____ Del ____ TAT ____
Date Rec'd ____ Date Due ____
Account # ____

Refrigerator #

| #/Type Container | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Liquid | | | | | | | | | | | 2-P | 1-G | | | | |
| | Solid | | | | | | | | | | | 1-P | 1-P | 1-G | | | |
| Volume ml | Liquid | | | | | | | | | | | 4000 | 250 | | | | |
| | Solid | | | | | | | | | | | 125 | 125 | 40 | | | |
| Preservatives | | | | | | | | | | | | HNO3 | — | | | | |
| ANALYSES REQUESTED | | ORGANIC | | | | | | | INORG | | | RAD | H3 | Gamma | | | |
| | | VOA | BNA | Pest/PCB | Herb | | | | Metal | CN | | | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
Wi - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | WESTON Analytics Use Only | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | 1 2 3 7 8 | 4 5 | 6 | | | | | | | |
| | MN028-1031-0001 | | | S | 7/14/93 | 1015 | | | | | | 1 | 1 | 1 | | | | | | | |
| | MN028-1031-0002 | | | S | | 1050 | | | | | | 1 | 1 | 1 | | | | | | | |
| | MN028-1032-0001 | | | S | | 1020 | | | | | | 1 | 1 | 1 | | | | | | | |
| | MN028-1032-0002 | | | S | | 1045 | | | | | | 1 | 1 | 1 | | | | | | | |
| | MN028-1032-0002 MS/MSD | ✓ | ✓ | S | | 1045 | | | | | | 1 | 1 | 1 | | | | | | | |
| | MN028-1032-1002 | | | S | | 1045 | | | | | | 1 | 1 | 1 | | | | | | | |
| | MN028-1032-4002 | | | W | | 1330 | | | | | | 2 | 1 | — | | | | | | | |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS: VG 7-20-93

Special Instructions:
1-U
2-Pu
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90

11-Pests/PCBs-CLP SOW OLM01.0
15 TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0, Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

1. ____
2. ITA
3. ____
4. SEAL NO. 29021
5. ____
6. ____

WESTON Analytics Use Only

Samples were
1) Shipped ____ or Hand Delivered ____
Airbill # ____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec'd Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [illegible] | FEDEX | 7/14/93 | 1700 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# ____ Cooler# 101 381-596a

BATCH 005 AS SILL 5186604765

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client E6+G
Est. Final Proj. Sampling Date
Work Order # 05376-039-007-0200-99
Project Contact/Phone # Craig Stoll (513)825-3440
AD Project Manager Jon Olander (708)918-4800
QC ____ Del ____ TAT ____
Date Rec'd ____ Date Due ____
Account # ____

Refrigerator #

| #/Type Container | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Liquid | | | | | | | | | | | 2-P | 1-G | | | | |
| | Solid | | | | | | | | | | | 1-P | 1-P | 1-G | | | |
| Volume (ml) | Liquid | | | | | | | | | | | 1000 | 250 | | | | |
| | Solid | | | | | | | | | | | 125 | 125 | 40 | | | |
| Preservatives | | | | | | | | | | | | $HNO_3$ | — | | | | |
| ANALYSES REQUESTED | | ORGANIC | | | | | | | INORG | | | RAD | H3 | Gamma Spect | | | |
| | | VOA | BNA | Pest/PCB | Herb | | | | Metal | CN | | | | | | | |

| MATRIX CODES: | Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | WESTON Analytics Use Only 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S - Soil<br>SE - Sediment<br>SO - Solid<br>SL - Sludge<br>W - Water<br>O - Oil<br>A - Air<br>DS - Drum Solids<br>DL - Drum Liquids<br>L - EP/TCLP Leachate<br>WI - Wipe<br>X - Other<br>F - Fish | | MN028-1033-0001 | | | S | 7/20/93 | 1110 | | | | | | | | | 1 | 1 | 1 |
| | | MN028-1033-0002 | | | S | ↓ | 1130 | | | | | | | | | 1 | 1 | 1 |
| | | MN028-1025-0001 | | | S | | 1420 | | | | | | | | | 1 | 1 | 1 |
| | | MN028-1025-0002 | | | S | | 1500 | | | | | | | | | 1 | 1 | 1 |
| | | MN028-1026-0001 | | | S | | 1410 | | | | | | | | | 1 | 1 | 1 |
| | | MN028-1026-0002 | | | S | | 1445 | | | | | | | | | 1 | 1 | 1 |
| | | MN028-1027-0001 | | | S | | 1510 | | | | | | | | | 1 | 1 | 1 |
| | | MN028-1027-0002 | | | S | | 1540 | | | | | | | | | 1 | 1 | 1 |
| | | MN028-1027-1001 | | | S | | 1510 | | | | | | | | | 1 | 1 | 1 |
| | | MN028-1027-4001 | | | W | ↓ | 1600 | | | | | | | | | 2 | 1 | — |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS: KB 7-20-93

Special Instructions:

1-U
2-Pu
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90

11-Pests/PCBs-CLP SOW OLM01.0
15 TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0, Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

1. ____
2. ____
3. ITA
4. ____
5. SEAL No. 29023
6. ____

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec'd Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [illegible] | FEDEx | 7/20/93 | 1900 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# ____ Cooler# 083 381-596a

BATCH 005 AIRBILL 5186604776

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client: EG+G
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4800
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

Refrigerator #

| #/Type Container | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Liquid | | | | | | | | | | | | | | | | | |
| Solid | | | 1-6 | | 1-P | | | 1-P | | | | | | | | | |
| Volume (ml) Liquid | | | | | | | | | | | | | | | | | |
| Solid | | | 250 | | 500 | | | 250 | | | | | | | | | |
| Preservatives | | | | | | | | | | | | | | | | | |

ANALYSES REQUESTED →

| ORGANIC | | | | | INORG | |
|---|---|---|---|---|---|---|
| VOA | BNA | Pest/PCB | Herb | | Metal | CN |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | WESTON Analytics Use Only | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 11 | | 23 24 25 27 | | | 20 22 | | | | | | | |
| | MN048-0999-0006 | | | S | 7/21/93 | 1000 | | | 1 | | 1 | | | 1 | | | | | | | |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS: KB 7-21-93

Special Instructions:

1-U
2-Pu
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90

11-Pests/PCBs-CLP SOW OLM01.0
15 TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0 Mod A RFW
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

1
2
3
4 SEAL NO. 29025
5
6

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # _____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec'd Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [illegible] | FEDEX | 7/21/93 | 1200 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ___ L372 ___ L373 ___ L375 ___ L377 ___ L378 Ref# ___ Cooler# 69-A 381 596a

WESTON Analytics Use Only

BATCH 008 AIRBILL 6493663434

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client EG&G Mound
Est. Final Proj. Sampling Date
Work Order # 05376-039-007-0200-99
Project Contact/Phone # Craig Stoll (513)825-3440
AD Project Manager Jon Olander (708)918-4000
QC Del TAT
Date Rec'd Date Due
Account #

Refrigerator #
#/Type Container: Liquid / Solid — 1-P, 1-P, 1-G
Volume (ml): Liquid / Solid — 125, 125, 40
Preservatives

ANALYSES REQUESTED → ORGANIC: VOA, BNA, Pest/PCB, Herb; INORG: Metal, CN — RAD, H3, Gamma Rad

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
Wi - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | WESTON Analytics Use Only | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 1 2 3 7 8 | 6 | |
| | ✓MN028-1012-0001 | | | S | 8/3/93 | 0940 | 1 | 1 | 1 |
| | ✓MN028-1012-0002 | | | S | 8/3/93 | 1045 | 1 | 1 | 1 |
| | ✓MN028-1013-0001 | | | | | 1245 | 1 | 1 | 1 |
| | ✓MN028-1013-0002 | | | | | 1330 | 1 | 1 | 1 |
| | ✓MN028-1014-0001 | | | | | 1300 | 1 | 1 | 1 |
| | ✓MN028-1014-0002 | | | | | 1345 | 1 | 1 | 1 |
| | ✓MN028-1015-0001 | | | | | 1300 | 1 | 1 | 1 |
| | ✓MN028-1015-0002 | | | | | 1340 | 1 | 1 | 1 |
| | ✓MN028-1015-1001 | | | | | 1300 | 1 | 1 | 1 |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS: KB 8/3/93

Special Instructions:
1-U
2-PU
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8Sr-90

11-Pests/PCBs-CLP SOW OLM01.8
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F340.2

1.
2. ITA
3. SEAL NO. ~~[illegible]~~ 25034
4.
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ___
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec'd Y or N

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| [signature] | FedEx | 8/3/93 | 1800 |
| | | | |

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| | | | |
| | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# ____ Cooler# 053 381 596a

BATCH 006 AIRBILL 6293663375

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 2

Client EG&G Mound
Est. Final Proj. Sampling Date
Work Order # 05376-039-007-0200-99
Project Contact/Phone # Craig Stoll (513)825-3440
AD Project Manager Jon Olander (708)918-4000
QC ____ Del ____ TAT ____
Date Rec'd ____ Date Due ____
Account # ____

| Refrigerator # | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #/Type Container | Liquid | | | 2-G | | 1-G | 1-P | 1-P | 1-P | 1-P | | | | | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Volume (~1) | Liquid | | | 1000 | | 250 | 500 | 500 | 1000 | 1000 | | | | | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Preservatives | | | | — | | $H_2SO_4$ | — | $H_2SO_4$ | $HNO_3$ | NaOH | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | [illegible] | [illegible] | [illegible] | Metal | CN | | | | | | | |
| WESTON Analytics Use Only | | | | 11 | | 15 | 23 25 27 | 24 | 20 | 22 | | | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ~~MN028-1004~~ | | | | | | | | | | | | | | | | | | | |
| | MN028-1003-40011 | | | W | 8/1/93 | 1800 | | | 2 | | 1 | 1 | 1 | 1 | 1 | | | | | |
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J D Olander
2 August 1993

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:
1-U
2-PU
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8Sr-90
11-Pests/PCBs-CLP SOW OLM01.8
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F340.2

DATE/REVISIONS:
1.
2. RFW
3. SEAL NO. 29030
4.
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec'd Y or N

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [illegible] | FEDEX | 8/2/93 | 2000 | | | | |
| | | | | | | | |

RFW 21-2 'A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# ____ Cooler# 673 381-596a

BATCH 007 AFRIBILL 629663375

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON



Client: EG&G Mound
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4000
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

| Refrigerator # | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #/Type Container | Liquid | | | 2-G | | 1-G | 1-P | 1-P | 1-P | 1-P | | | | | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Volume (ml) | Liquid | | | 1000 | | 250 | 500 | 500 | 1000 | 1000 | | | | | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Preservatives | | | | — | | $H_2SO_4$ | — | $H_2SO_4$ | $HNO_3$ | $H_2O$ | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | [illegible] | [illegible] | Nerve Agent | Metal | CN | | | | | | | |
| WESTON Analytics Use Only | | | | 11 | | 15 | 23 25 27 | 24 | 20 | 22 | | | | | | | |

MATRIX CODES: S - Soil; SE - Sediment; SO - Solid; SL - Sludge; W - Water; O - Oil; A - Air; DS - Drum Solids; DL - Drum Liquids; L - EP/TCLP Leachate; Wi - Wipe; X - Other; F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MN028-1009-4002 | | | W | 8/2/93 | 1700 | | | 2 | | 1 | 1 | 1 | 1 | 1 | | | | | |
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| | | | | | | | | | | | | | | | | | | | | |

J. Olander 2 August 1993

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

1-U
2-PU
3-Th
4-Am-241-DOE EML--Am1-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8Sr-90

11-Pests/PCBs-CLP SOW OLM01.8
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F340.2

DATE/REVISIONS:

1.
2.
3. RFW
4. SEAL NO. 29030
5.
6.

WESTON Analytics Use Only

Samples were: 1) Shipped ___ or Hand Delivered ___ Airbill # ___ 2) Ambient or Chilled 3) Received in Good Condition Y or N 4) Labels Indicate Properly Preserved Y or N 5) Received Within Holding Times Y or N

COC Tape was: 1) Present on Outer Package Y or N 2) Unbroken on Outer Package Y or N 3) Present on Sample Y or N 4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [illegible] | FEDEX | 8/2/93 | 2000 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ___ L372 ___ L373 ___ L375 ___ L377 ___ L378 Ref# ___ Cooler# 033 381-596a

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 2

Client: EG&G Mound
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4000
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

| Refrigerator # | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #/Type Container | Liquid | | | 2-G | | 1-G | 1-P | 1-P | 1-P | 1-P | | | | | | |
| | Solid | | | | | | | | | | | | | | | |
| Volume | Liquid | | | 1000 | | 250 | 500 | 500 | 1000 | 1000 | | | | | | |
| | Solid | | | | | | | | | | | | | | | |
| Preservatives | | | | — | | H2SO4 | — | HNO3 | HNO3 | NaOH | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | TOC | | Pb-Se | Metal | CN | | | | | | |
| WESTON Analytics Use Only | | | | 11 | | 15 | 23 25 27 | 21 | 40 | 42 | | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected |
|---|---|---|---|---|---|---|
| | ~~MN01K-1004~~ | | | | | |
| | MN01K8-1003-4001 | | | W | 8/1/93 | 1800 |

J. D. Olander
2 August 1993

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:
1-U
2-PU
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8Sr-90

11-Pests/PCBs-CLP SOW OLM01.8
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-Cl-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F340.2

DATE/REVISIONS:
1.
2. RFW
3. SEAL NO. 290320
4.
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # _____
2) Ambient or Chilled
3) Received In Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec't Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [illegible] | [illegible] | 8/2/93 | 2000 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# _____ Cooler# _____ 381-596a

WESTON Analytics Use Only

BATCH 007 AIRBI 629366 3375

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client: EG&G Mound
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4000
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator # | | | | | | | | | | | | | | | | | |
| #/Type Container | Liquid | | | | | | | | | | | | | | | | |
| | Solid | | | 1-6 | | 1-6 | 1-P | | | 1-P | | | | | | | |
| Volume | Liquid | | | | | | | | | | | | | | | | |
| | Solid | | | 250 | | 125 | 500 | | | 250 | | | | | | | |
| Preservatives | | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | | INORG | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | TOC | | | | CN Metal | CN | | | | | | |
| | | | | 11 | | 15 | 23 24 25 27 | | | 20 22 | | | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) | Matrix | Date Collected | VOA | BNA | Pest/PCB | Herb | TOC | | | CN Metal | CN | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MN028-1007-0001 | | S | 8/2/93 | | | 1 | | 1 | | 1 | 1 | | | | | | |
| | MN028-1007-0002 | | | | | | 1 | | 1 | | 1 | 1 | | | | | | |
| | MN028-1008-0001 | | | | | | 1 | | 1 | | 1 | 1 | | | | | | |
| | MN028-1008-0002 | | | | | | 1 | | 1 | | 1 | 1 | | | | | | |
| | MN028-1009-0001 | | | | | | 1 | | 1 | | 1 | 1 | | | | | | |
| | MN028-1009-0002 | | | | | | 1 | | 1 | | 1 | 1 | | | | | | |
| | MN028-1009-1001 | | | | | | 1 | | 1 | | 1 | 1 | | | | | | |
| | MN028-1009-0002 MS/MSD | ✓ | | | | | 1 | | 1 | | 1 | 1 | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

1-11 11-Pests/PCBs-CLP SOW OLM01.8 JD Olander 2 Aug 1993

Special Instructions:
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

DATE/REVISIONS:
1.
2. RFW
3. SEAL INTO. 29031
4.
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ___
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec'd Y or N

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| [illegible] | FEDEX | 8/2/93 | 2000 |
| | | | |

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| | | | |
| | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

BATCH 007 AIRBILL 6295663445

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client: EG&G Mound
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4000
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator # | | | | | | | | | | | | | | | | | | |
| #/Type Container | Liquid | | | | | | | | | | | | | | | | | |
| | Solid | | | | | | | | | | | | | 1-P | 1-P | 1-G | | |
| Volume | Liquid | | | | | | | | | | | | | | | | | |
| | Solid | | | | | | | | | | | | | 125 | 125 | 40 | | |
| Preservatives | | | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | | INORG | | | | RAD | H3 | Gamma Rad | | |
| | | VOA | BNA | Pest/PCB | Herb | | | | | Metal | CN | | | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
Wi - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | WESTON Analytics Use Only 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MN028-1007-0001 | | | S | 8/2/93 | 1415 | | | | | | 1 | 1 | 1 |
| | MN028-1007-0002 | | | | | 1440 | | | | | | 1 | 1 | 1 |
| | MN028-1008-0001 | | | | | 1415 | | | | | | 1 | 1 | 1 |
| | MN028-1008-0002 | | | | | 1435 | | | | | | 1 | 1 | 1 |
| | MN028-1009-0001 | | | | | 1435 | | | | | | 1 | 1 | 1 |
| | MN028-1009-0002 | | | | | 1500 | | | | | | 1 | 1 | 1 |
| | MN028-1009-1001 | | | | | 1435 | | | | | | 1 | 1 | 1 |
| | MN028-1009-0002-MS/MSD | ✓ | ✓ | | | 1500 | | | | | | 1 | 1 | 1 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

J. Olander 2 August 1993

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:
1-U
2-PU
3-Th
4-Am-241-DOE EML--AH-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8Sr-90
11-Pests/PCBs-CLP SOW OLM01.8
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F340.2

DATE/REVISIONS:
1.
2. ITA
3. SEAL NO. 29029
4.
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # _____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [signature] | FEDEX | 8/2/93 | 2000 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ___ L372 ___ L373 ___ L375 ___ L377 ___ L378 Ref# _____ Cooler# C70 381-596a

BATCH 006 AIRBILL 6293663375

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client EG&G Mound
Est. Final Proj. Sampling Date
Work Order # 05376-039-007-0200-99
Project Contact/Phone # Craig Stoll (513)825-3440
AD Project Manager Jon Olander (708)918-4000
QC Del TAT
Date Rec'd Date Due
Account #

| Refrigerator # | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #/Type Container | Liquid | | | | | | | | | | | | | | | |
| | Solid | | | 1-6 | | 1-6 | 1-P | | 1-P | | | | | | | |
| Volume (ml) | Liquid | | | | | | | | | | | | | | | |
| | Solid | | | 250 | | 125 | 500 | | 250 | | | | | | | |
| Preservatives | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | TPH | | | Metal | CN | | | | | | |
| WESTON Analytics Use Only | | | | 11 | | 15 | 23 24 25 27 | | 20 22 | | | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | VOA | BNA | Pest/PCB | Herb | TPH | | | Metal | CN | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MN028-1001-0001 | | | S | 8/1/93 | 1630 | | | 1 | | 1 | 1 | | 1 | | | | | | | |
| | MN028-1001-0002 | | | | | 1700 | | | 1 | | 1 | 1 | | 1 | | | | | | | |
| | MN028-1002-0001 | | | | | 1635 | | | 1 | | 1 | 1 | | 1 | | | | | | | |
| | MN028-1002-0002 | | | | | 1700 | | | 1 | | 1 | 1 | | 1 | | | | | | | |
| | MN028-1003-0001 | | | | | 1720 | | | 1 | | 1 | 1 | | 1 | | | | | | | |
| | MN028-1003-0002 | | | | | 1730 | | | 1 | | 1 | 1 | | 1 | | | | | | | |
| | MN028-1003-1001 | | | | | 1720 | | | 1 | | 1 | 1 | | 1 | | | | | | | |

J Olander 2 August 1993

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

1-U
2-PU
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8Sr-90

11-Pests/PCBs-CLP SOW OLM01.8
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F340.2

DATE/REVISIONS:

1.
2. RFW
3. SEAL NO. 29027
4.
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # _____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec'd Y or N

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| [signature] | FEDEX | 8/2/93 | 2000 |
| | | | |

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| | | | |
| | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# _____ Cooler# ~~208~~ 8/2/93 495 381-596a

BATCH NO. 006 AIRBILL 629366345

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 7

Client: EG&G Mound
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4000
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

| Refrigerator # | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #/Type Container | Liquid | | | | | | | | | | | | | | | | |
| | Solid | | | | | | | | | | | 1-P | 1-P | 1-G | | | |
| Volume (ml) | Liquid | | | | | | | | | | | | | | | | |
| | Solid | | | | | | | | | | | 125 | 125 | 40 | | | |
| Preservatives | | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | | | | Metal | CN | | | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | WESTON Analytics Use Only | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | 1 2 3 4 | 6 | | | | | | |
| | MN028-1001-0001 | | | S | 8/1/93 | 1630 | | | | | | | | 1 | 1 | 1 | | | | | |
| | MN028-1001-0002 | | | | | 1700 | | | | | | | | 1 | 1 | 1 | | | | | |
| | MN028-1002-0001 | | | | | 1635 | | | | | | | | 1 | 1 | 1 | | | | | ✓✓ |
| | MN028-1002-0002 | | | | | 1700 | | | | | | | | 1 | 1 | 1 | | | | | |
| | MN028-1003-0001 | | | | | 1720 | | | | | | | | 1 | 1 | 1 | | | | | ✓✓✓ |
| | MN028-1003-0002 | | | | | 1730 | | | | | | | | 1 | 1 | 1 | | | | | |
| | MN028-1003-1001 | | | | | 1720 | | | | | | | | 1 | 1 | 1 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

JD Olander 2 August 1993

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

1-U
2-PU
3-Th
4-Am-241-DOE EML--AM-0123-C1-325.1/9251
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8Sr-90

11-Pests/PCBs-CLP SOW OLM01.8
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
24-NO2-NO3-353.2
25-SO4-375.2
27-F340.2

DATE/REVISIONS:

1.
2. ITA
3. SEAL NO. 29026
4.
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # _____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec'd Y or N

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| [illegible] | FEDEX | 8/2/93 | 2000 |
| | | | |

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| | | | |
| | | | |

RFW 21 1/A-7/91 ____ L372 ____ L373 ____ L37[illegible] ____ L377 ____ L378 Ref# _____ Cooler# 5119 381 596a

BATCH 006 AIRBILL 6293663445

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 2

Client: EG&G Mound
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4000
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

| Refrigerator # | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #/Type Container | Liquid | | | | | | | | | | | 2-P | 1-G | | | |
| | Solid | | | | | | | | | | | | | | | |
| Volume (ml) | Liquid | | | | | | | | | | | 4-L | 250 | | | |
| | Solid | | | | | | | | | | | | | | | |
| Preservatives | | | | | | | | | | | | HNO3 | — | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | | EP | 23 | | | |
| | | VOA | BNA | Pest/PCB | Herb | | | | Metal | CN | | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | WESTON Analytics Use Only | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | 1 2 3 4 5 | 7 8 | 6 | | | |
| | MN028-1003-4001 | | | W | 8/1/93 | 1800 | | | | | | | | | | 2 | 1 | | | | |

J D Olander
2 August 1993

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:
1-U
2-PU
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8Sr-90
11-Pests/PCBs-CLP SOW OLM01.8
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW ILM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F340.2

DATE/REVISIONS:
1.
2. ITA
3. SEAL NO. 29028
4.
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___ Airbill # _____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec'd Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [signature] | FEDEX | 8/2/93 | 2000 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# _____ Cooler# 101 381-596a

BATCH 007 AIRBILL 629366344 5

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 2 of 2

Client: EG&G Mound
Est. Final Proj. Sampling Date
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4000
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

| Refrigerator # | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #/Type Container | Liquid | | | | | | | | | | 2-P | 1-G | | | | |
| | Solid | | | | | | | | | | | | | | | |
| Volume (ml) | Liquid | | | | | | | | | | 1000 | 250 | | | | |
| | Solid | | | | | | | | | | | | | | | |
| Preservatives | | | | | | | | | | | HNO3 | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | | | | Metal | CN | PP | PP | | | | |

MATRIX CODES: S - Soil; SE - Sediment; SO - Solid; SL - Sludge; W - Water; O - Oil; A - Air; DS - Drum Solids; DL - Drum Liquids; L - EP/TCLP Leachate; WI - Wipe; X - Other; F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | WESTON Analytics Use Only | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | 7 | | | | | | |
| | | | | | | | | | | | | | | 3 | | | | | | |
| | | | | | | | | | | | | | | 4 | | | | | | |
| | | | | | | | | | | | | | | 5 | | | | | | |
| | MN028-1009-4002 | | | W | 8/2/93 | 1700 | | | | | | | | 2 | 1 | | | | | |

J. Olander 2 August 1993

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:
1-U
2-PU
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8Sr-90
11-Pests/PCBs-CLP SOW OLM01.8
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F340.2

DATE/REVISIONS:
1.
2. ITA
3. SEAL NO 29028
4.
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # _____
2) Ambient or Chilled
3) Received In Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec'd Y or N

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| Jim T. Lull | FEDEX | 8/2/93 | 2000 |
| | | | |

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| | | | |
| | | | |

RFW 21-7 A-7/91 ___ L372 ___ L373 ___ L375 ___ L377 ___ L378 Ref# _____ Cooler# 101 381-596a

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 2

Client: EG&G Mound
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)910-4000
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

| Refrigerator # | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #/Type Container | Liquid | | | | | | | | | | | | 2-P | 1-G | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Volume | Liquid | | | | | | | | | | | | 4-L | 250 | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Preservatives | | | | | | | | | | | | | HNO3 | — | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | | | RAD | P3 | | | |
| | | VOA | BNA | Pest/PCB | Herb | | | | Metal | CN | | | | | | | |
| WESTON Analytics Use Only | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 1-4-7 8 | 6 | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MW036-1003-4001 | | | W | 8/1/93 | 1800 | | | | | | | | | | | | 2 | 1 | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

J D Olander
2 August 1993

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:
1-U
2-Pu
3-Th
4-Am-241-DOE HEL--AH-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8Sr-90

11-Pests/PCBs-CLP SOW OLM01.8
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F340.2

DATE/REVISIONS:
1.
2. ITA
3. Call No 25028
4.
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ___
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec't Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [illegible] | [illegible] | 8/2/93 | 0000 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ___ L372 ___ L373 ___ L375 ___ L377 ___ L378 Ref# ___ Cooler# 101 381-596a

BATCH CC7 AIRBILL 6293663434

# Custody Transfer Record/Lab Work Request

WESTON Analytics Use Only

Page 1 of 1

Client EG&G Mound
Est. Final Proj. Sampling Date
Work Order # 05376-039-007-0200-99
Project Contact/Phone # Craig Stoll (513)825-3440
AD Project Manager Jon Olander (708)918-4000
QC Del TAT
Date Rec'd Date Due
Account #

Refrigerator #
#/Type Container: Liquid / Solid
Volume (2 l): Liquid / Solid
Preservatives

ANALYSES REQUESTED → ORGANIC: VOA, BNA, Pest/PCB, Herb; INORG: Metal, CN; RAD; H3; Th

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | VOA | BNA | Pest/PCB | Herb | Metal | CN | RAD | H3 | Th | WESTON Analytics Use Only |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | 1-P | 1-P | 1-6 | |
| | | | | | | | | | | | | | 125 | 125 | 40 | |
| | | | | | | | | | | | | | 1 2 3 7 8 | 6 | | |
| | MN028-1010-0001 | | | S | 8/3/93 | 0945 | | | | | | | 1 | 1 | 1 | |
| | MN028-1010-0002 | | | S | ↓ | 1030 | | | | | | | 1 | 1 | 1 | |
| | MN028-1011-0001 | | | S | ↓ | 0940 | | | | | | | 1 | 1 | 1 | |
| | MN028-1011-0002 | | | S | ↓ | 1015 | | | | | | | 1 | 1 | 1 | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS: KB 8/3/93
1.
2. ITA
3. SEAL NO. 29032
4.
5.
6.

Special Instructions:
1-U
2-PU
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8Sr-90

11-Pests/PCBs-CLP SOW OLM01.8
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW ILM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F340.2

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| [signature] | FEDEX | 8/3/93 | 1800 |
| | | | |

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| | | | |
| | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ___
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec't Y or N

RFW 21-21-001/A-7/91 ___ L372 ___ L373 ___ L375 ___ L377 ___ L378 Ref# ___ Cooler# 064 381-596a

BATCH 008 AFI-ILL 6243663316

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client: EG&G Mound
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4000
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator # | | | | | | | | | | | | | | | | | |
| #/Type Container | Liquid | | | 2-G | | 1-G | 1-P | 1-P | 1-P | 1-P | | | | | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Volume (ml) | Liquid | | | 1000 | | 250 | 500 | 500 | 1000 | 1000 | | | | | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Preservatives | | | | — | | $H_2SO_4$ | — | $H_2SO_4$ | $HNO_3$ | NaOH | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | TOC | | $NO_2$ $NO_3$ | Metal | CN | | | | | | | |
| | | WESTON Analytics Use Only | | | | | | | | | | | | | | | |
| | | | | 11 | | 15 | 23 25 27 | 24 | 26 | 22 | | | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MN0088-1015-4001 | | | W | 8/2/93 | 1500 | | | 2 | | 1 | 1 | 1 | 1 | 1 | | | | | | |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

1-U
2-PU
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8Sr-90

11-Pests/PCBs-CLP SOW OLM01.8
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F340.2

DATE/REVISIONS:
1. KB 8/3/93
2. RFW
3. SEAL NO. 25037.
4.
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # _____
2) Ambient or Chilled
3) Received In Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec'd Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [illegible] | FEDEX | 8/3/93 | 1800 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# _____ Cooler# 103 381 596a

BATCH 008 AIRBILL 6293663434

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client EG&G Mound
Est. Final Proj. Sampling Date
Work Order # 05376-039-007-0200-99
Project Contact/Phone # Craig Stoll (513)825-3440
AD Project Manager Jon Olander (708)918-4000
QC ____ Del ____ TAT ____
Date Rec'd ____ Date Due ____
Account # ____

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator # | | | | | | | | | | | | | | | | | |
| #/Type Container | Liquid | | | | | | | | | | | 2-P | 1-G | | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Volume (ml) | Liquid | | | | | | | | | | | 4000 | 250 | | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Preservatives | | | | | | | | | | | | $HNO_3$ | — | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | | RAD | H3 | | | | |
| | | VOA | BNA | Pest/PCB | Herb | | | | Metal | CN | | | | | | | |
| WESTON Analytics Use Only | | | | | | | | | | | | 1 2 3 7 3 | 6 | | | | |

| MATRIX CODES: | Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S - Soil | | | | | | | | | | | | | | | | | | | | | |
| SE - Sediment | | | | | | | | | | | | | | | | | | | | | |
| SO - Solid | | | | | | | | | | | | | | | | | | | | | |
| SL - Sludge | | | | | | | | | | | | | | | | | | | | | |
| W - Water | | MNOD8-1015-4001 | | | W | 8/3/93 | ~~1500~~ | | | | | | | | | | 2 | 1 | | | |
| O - Oil | | | | | | | | | | | | | | | | | | | | | |
| A - Air | | | | | | | | | | | | | | | | | | | | | |
| DS - Drum Solids | | | | | | | | | | | | | | | | | | | | | |
| DL - Drum Liquids | | | | | | | | | | | | | | | | | | | | | |
| L - EP/TCLP Leachate | | | | | | | | | | | | | | | | | | | | | |
| WI - Wipe | | | | | | | | | | | | | | | | | | | | | |
| X - Other | | | | | | | | | | | | | | | | | | | | | |
| F - Fish | | | | | | | | | | | | | | | | | | | | | |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

1-U
2-PU
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8Sr-90

11-Pests/PCBs-CLP SOW OLM01.8
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F340.2

DATE/REVISIONS:
1. KB 8/3/93
2. ITA
3. SEAL 29036.
4.
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___ Airbill # ____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [illegible] | [illegible] | 8/3/93 | 1800 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# ____ Cooler# 100 381-596a

BATCH C07 AIRBILL 6243663316

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client EG&G Mound
Est. Final Proj. Sampling Date
Work Order # 05376-039-007-0200-99
Project Contact/Phone # Craig Stoll (513)825-3440
AD Project Manager Jon Olander (708)918-4000
QC ____ Del ____ TAT ____
Date Rec'd ____ Date Due ____
Account # ____

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator # | | | | | | | | | | | | | | | | | |
| #/Type Container | Liquid | | | | | | | | | | | | | | | | |
| | Solid | | | 1-G | | 1-G | 1-P | | 1-P | | | | | | | | |
| Volume (ml) | Liquid | | | | | | | | | | | | | | | | |
| | Solid | | | 250 | | 125 | 500 | | 250 | | | | | | | | |
| Preservatives | | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | VOA | BNA | Pest/PCB | Herb | TOC | | | Metal | CN | | | | | | | |
| | | ORGANIC | | | | | | | INORG | | | | | | | | |
| | | WESTON Analytics Use Only | | | | | | | | | | | | | | | |
| | | | | 11 | | 15 | 23 24 25 27 | | 20 22 | | | | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ✓ | MN028-1010-0001 | | | S | 8/3/93 | 0945 | | | 1 | | 1 | 1 | | 1 | | | | | | | |
| ✓ | MN028-1010-0002 | | | S | ↓ | 1030 | | | 1 | | 1 | 1 | | 1 | | | | | | | |
| ✓ | MN028-1011-0001 | | | S | ↓ | 0940 | | | 1 | | 1 | 1 | | 1 | | | | | | | |
| ✓ | MN028-1011-0002 | | | S | ↓ | 1015 | | | 1 | | 1 | 1 | | 1 | | | | | | | |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:
1-U
2-PU
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8Sr-90

11-Pests/PCBs-CLP SOW OLM01.8
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW ILM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F340.2

DATE/REVISIONS:
1. JB 8/3/93
2. RTW
3. SEAL NO. 29033
4.
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [illegible] | FEDEX | 8/3/93 | 1800 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# ____ Cooler# 68 381-596a

BATCH 008 AIRBILL 6293663316

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client EG&G Mound
Est. Final Proj. Sampling Date
Work Order # 05376-039-007-0200-99
Project Contact/Phone # Craig Stoll (513)825-3440
AD Project Manager Jon Olander (708)918-4000
QC Del TAT
Date Rec'd Date Due
Account #

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator # | | | | | | | | | | | | | | | | | |
| #/Type Container | Liquid | | | | | | | | | | | | | | | | |
| | Solid | | | 1-G | | 1-G | 1-P | | 1-P | | | | | | | | |
| Volume | Liquid | | | | | | | | | | | | | | | | |
| | Solid | | | 250 | | 125 | 500 | | 250 | | | | | | | | |
| Preservatives | | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | TOC | | | Metal | CN | | | | | | | |
| WESTON Analytics Use Only | | | | 11 | | 15 | #3 #4 #5 #7 | | #2 #3 | | | | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
Wi - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ✓ | MN028-1012-0001 | | | S | 8/3/93 | 0940 | | | 1 | | 1 | 1 | | 1 | | | | | |
| ✓ | MN028-1012-0002 | | | ↓ | ↓ | 1045 | | | 1 | | 1 | 1 | | 1 | | | | | |
| ✓ | MN028-1013-0001 | | | | | 1245 | | | 1 | | 1 | 1 | | 1 | | | | | |
| ✓ | MN028-1013-0002 | | | | | 1330 | | | 1 | | 1 | 1 | | 1 | | | | | |
| ✓ | MN028-1014-0001 | | | | | 1300 | | | 1 | | 1 | 1 | | 1 | | | | | |
| ✓ | MN028-1014-0002 | | | | | 1325 | | | 1 | | 1 | 1 | | 1 | | | | | |
| ✓ | MN028-1015-0001 | | | | | 1300 | | | 1 | | 1 | 1 | | 1 | | | | | |
| ✓ | MN028-1015-0002 | | | | | 1340 | | | 1 | | 1 | 1 | | 1 | | | | | |
| ✓ | MN028-1015-0001 | | | ↓ | ↓ | 1300 | | | 1 | | 1 | 1 | | 1 | | | | | |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS: KB 8/3/93

Special Instructions:
1-U
2-PU
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8Sr-90

11-Pests/PCBs-CLP SOW OLM01.8
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW ILM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F340.2

1.
2.
3. RFW
4. SEAL NO. 29035
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___ Airbill # ___
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [signature] | FEDEX | 8/3/93 | 1800 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ___ L372 ___ L373 ___ L375 ___ L377 ___ L378 Ref# ___ Cooler# 256 381 596a

Batch 001 Air Bill 629366 3423

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON



Client: E&G
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-~~4800~~ 4000
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

Refrigerator #

| #/Type Container | Liquid | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Solid | | | | | | | | | | 1-P | 1-P | 1-G | | | |
| Volume (ml) | Liquid | | | | | | | | | | | | | | | |
| | Solid | | | | | | | | | | 125 | 125 | 40 | | | |
| Preservatives | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | RAD | H3 | gamma | | | |
| | | VOA | BNA | Pest/PCB | Herb | | | | Metal | CN | | | | | | |

| MATRIX CODES: | Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | WESTON Analytics Use Only | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | 1 2 3 7 8 | 6 | % MOIST | | | | |
| S - Soil | | MN028-1022-0001 | | | S | 8/4/93 | 1400 | | | | | | | | | 1 | 1 | 1 | | | | |
| SE - Sediment | | MN028-1022-0002 | | | ↓ | ↓ | 1410 | | | | | | | | | 1 | 1 | 1 | | | | |
| SO - Solid | | MN028-1023-0001 | | | | | 1415 | | | | | | | | | 1 | 1 | 1 | | | | |
| SL - Sludge | | MN028-1023-0002 | | | | | 1455 | | | | | | | | | 1 | 1 | 1 | | | | |
| W - Water | | MN028-1024-0001 | | | | | 1430 | | | | | | | | | 1 | 1 | 1 | | | | |
| O - Oil | | MN028-1024-0002 | | | | | 1445 | | | | | | | | | 1 | 1 | 1 | | | | |
| A - Air | | MN028-1027-1001 | | | | | 1130 | | | | | | | | | 1 | 1 | 1 | | | | |
| DS - Drum Solids | | MN028-1026-0001 | ✓ | ✓ | ↓ | ↓ | 1040 | | | | | | | | | 1 | 1 | 1 | | 3 | | |
| DL - Drum Liquids | | | | | | | | | | | | | | | | | | | | | | |
| L - EP/TCLP Leachate | | | | | | | | | | | | | | | | | | | | | | |
| WI - Wipe | | | | | | | | | | | | | | | | | | | | | | |
| X - Other | | | | | | | | | | | | | | | | | | | | | | |
| F - Fish | | | | | | | | | | | | | | | | | | | | | | |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS: KB 8/4/93

Special Instructions:

1-U
2-Pu
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90

11-Pests/PCBs-CLP SOW OLM01.0
15 TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0, Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

1.
2. FTA
3. SEAL NO. 30843
4.
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___ Airbill # ___
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [illegible] | FedEx | 8/4/93 | 1900 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ___ L372 ___ L373 ___ L375 ___ L377 ___ L378 Ref# ___ Cooler# 087 381-596a

BATCH 008 + 009 SEE BELOW AIRBILL 6293663423

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 2

Client: EG&G
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0200-991
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4800
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

| Refrigerator # | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #/Type Container | Liquid | | | | | | | | | | | | | | | |
| | Solid | | | | | | | | | | 1-P | 1-P | 1-G | | | |
| Volume (ml) | Liquid | | | | | | | | | | | | | | | |
| | Solid | | | | | | | | | | 125 | 125 | 40 | | | |
| Preservatives | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | | | | Metal | CN | PAH | HS | % moist | | | |

| MATRIX CODES: | Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | WESTON Analytics Use Only 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S - Soil | | MN028-1025-0001 | | | S | 8/4/93 | 1040 | | | | | | | | | 1 | 1 | 1 | | |
| SE - Sediment | | MN028-1025-0002 | | | S | | 1110 | | | | | | | | | 1 | 1 | 1 | | |
| SO - Solid BATCH | | MN028-1026-0001 | | | S | | 1040 | | | | | | | | | 1 | 1 | 1 | | |
| SL - Sludge | | MN028-1026-0002 | | | S | | 1120 | | | | | | | | | 1 | 1 | 1 | | |
| W - Water 008 | | MN028-1027-0001 | | | S | | 1130 | | | | | | | | | 1 | 1 | 1 | | |
| O - Oil | | MN028-1027-0002 | | | S | | 1145 | | | | | | | | | 1 | 1 | 1 | | |
| A - Air 008 | | | | | | | | | | | | | | | | | | | | |
| DS - Drum Solids 009 | | | | | | | | | | | | | | | | | | | | |
| DL - Drum Liquids 009 | | | | | | | | | | | | | | | | | | | | |
| L - EP/TCLP Leachate 008 | | | | | | | | | | | | | | | | | | | | |
| WI - Wipe | | | | | | | | | | | | | | | | | | | | |
| X - Other 009 | | | | | | | | | | | | | | | | | | | | |
| F - Fish | | | | | | | | | | | | | | | | | | | | |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS: AB 8/4/93

Special Instructions:

1-U
2-Pu
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90

11-Pests/PCBs-CLP SOW OLM01.0
15 TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0, Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

1.
2. ITA
3. SEAL NO. 30893
4.
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # _____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec'd Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [signature] | FEDEX | 8/4/93 | 1900 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ___ L372 ___ L373 ___ L375 ___ L377 ___ L378 Ref# _____ Cooler# 087 381-596a

BATCH 009 A. BILL 629363423

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON



Client: E&G
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4800
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator # | | | | | | | | | | | | | | | | | |
| #/Type Container | Liquid | | | | | | | | | | | 2P | 1-G | | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Volume (ml) | Liquid | | | | | | | | | | | 400C | 250 | | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Preservatives | | | | | | | | | | | | HNO3 | — | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | | RAD | H3 | | | | |
| | | VOA | BNA | Pest/PCB | Herb | | | | Metal | CN | | | | | | | |
| | | WESTON Analytics Use Only | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 1 2 3 7 5 8 | 6 | | | | |

| MATRIX CODES: | Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S - Soil<br>SE - Sediment<br>SO - Solid<br>SL - Sludge<br>W - Water<br>O - Oil<br>A - Air<br>DS - Drum Solids<br>DL - Drum Liquids<br>L - EP/TCLP Leachate<br>WI - Wipe<br>X - Other<br>F - Fish | | MN028-1024-4002 | | | W | 8/4/93 | 1545 | | | | | | | | | | | 2 | 1 | | | | |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS: 8/4/93

Special Instructions:

1-U
2-Pu
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90

11-Pests/PCBs-CLP SOW OLM01.0
15 TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0, Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

1.
2.
3. ITA
4. SEAL NO. 30888
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ___
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| J. Bill | FEDEX | 8/4/93 | 1900 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ___ L372 ___ L373 ___ L375 ___ L377 ___ L378 Ref# ___ Cooler# 102 381-596a

BATCH 009 AIRBILL 6293663364

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON



Client
Est. Final Proj. Sampling Date
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4800
QC ____ Del ____ TAT ____
Date Rec'd ____ Date Due ____
Account # ____

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator # | | | | | | | | | | | | | | | | |
| #/Type Container | Liquid | | | | | | | | | | | | | | | |
| | Solid | | | 1-6 | | 1-6 | 1-6 | | 1-6 | | | | | | | |
| Volume (ml) | Liquid | | | | | | | | | | | | | | | |
| | Solid | | | 250 | | 125 | 500 | | 250 | | | | | | | |
| Preservatives | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | TOC | | | Metal | CN | | | | | | |
| | | | | | | | | | | | | | | | | |
| WESTON Analytics Use Only | | | | 11 | | 15 | 23 24 25 27 | | 20 22 | | | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ✓ | MN028-1026-0001 | | | S | 8/4/93 | 1040 | | | 1 | | 1 | 1 | | 1 | | | | | |
| ✓ | MN028-1026-0002 | | | S | ↓ | 1120 | | | 1 | | 1 | 1 | | 1 | | | | | |
| ✓ | MN028-1027-0001 | | | S | ↓ | 1130 | | | 1 | | 1 | 1 | | 1 | | | | | |
| ✓ | MN028-1027-0002 | | | S | ↓ | 1145 | | | 1 | | 1 | 1 | | 1 | | | | | |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS: KB 8/4/93

Special Instructions:

1-U
2-Pu
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90

11-Pests/PCBs-CLP SOW OLM01.0
15 TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0, Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

1. ____
2. RFW
3. STAL NO. 30874
4. ____
5. ____
6. ____

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [illegible] | Fedex | 8/4/93 | 1900 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered
Airbill # ____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec't Y or N

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# ____ Cooler# 447 381-596a

BATCH 008 HIRELL 6293663364

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 2

Client: EG+G
Est. Final Proj. Sampling Date
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4800
QC ____ Del ____ TAT ____
Date Rec'd ____ Date Due ____
Account # ____

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator # | | | | | | | | | | | | | | | | |
| #/Type Container | Liquid | | | | | | | | | | | | | | | |
| | Solid | 1 | | 1-6 | | 1-6 | 1-6 | 1 | 1-6 | | | | | | | |
| Volume (ml) | Liquid | 2 | | | | | | | | | | | | | | |
| | Solid | | | 250 | | 125 | 500 | | 250 | | | | | | | |
| Preservatives | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED | | ORGANIC | | | | | | | INORG | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | TOC | | | Metal | CN | | | | | | |
| WESTON Analytics Use Only | | | | 11 | | 15 | 23 24 25 27 | | 20 22 | | | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | 11 | 15 | 23 24 25 27 | 20 22 |
|---|---|---|---|---|---|---|---|---|---|---|
| ✓ | MN028-1025-0001 | | | S | 8/4/93 | 1040 | 1 | 1 | 1 | 1 |
| ✓ | MN028-1025-0002 | | | S | 8/4/93 | 1110 | 1 | 1 | 1 | 1 |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS: KB 8/4/93

Special Instructions:

1-U
2-Pu
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90

11-Pests/PCBs-CLP SOW OLM01.0
15 TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0, Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

1. ____
2. RFW
3. SEAL NO ~~30894~~
4. 30894
5. ____
6. ____

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec't Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [signature] | FEDEX | 8/4/93 | 1900 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# ____ Cooler# 447 381-596a

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON



Client
Est. Final Proj. Sampling Date
Work Order # 05376-039-007-0200-99
Project Contact/Phone # Craig Stoll (513)825-3440
AD Project Manager Jon Olander (708)918-4800
QC ____ Del ____ TAT ____
Date Rec'd ____ Date Due ____
Account #

| Refrigerator # | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #/Type Container | Liquid | | | 2-G | | 1-G | 1-P | 1-P | 1-P | 1-P | | | | | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Volume (ml) | Liquid | | | 1000 | | 250 | 500 | 500 | 1000 | 1000 | | | | | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Preservatives | | | | — | | $H_2SO_4$ | — | $H_2SO_4$ | $HNO_3$ | NaOH | | | | | | | |
| ANALYSES REQUESTED → | | VOA | BNA | Pest/PCB | Herb | Fol | | Nos-NO2 | Metal | CN | | | | | | | |
| | | ORGANIC | | | | | | | INORG | | | | | | | | |
| WESTON Analytics Use Only | | | | 11 | | 15 | 23 25 27 | 24 | 20 | 22 | | | | | | | |

| MATRIX CODES: | Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Time Collected | Date Collected | VOA | BNA | Pest/PCB | Herb | Fol | | Nos-NO2 | Metal | CN | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S - Soil<br>SE - Sediment<br>SO - Solid<br>SL - Sludge<br>W - Water<br>O - Oil<br>A - Air<br>DS - Drum Solids<br>DL - Drum Liquids<br>L - EP/TCLP Leachate<br>Wi - Wipe<br>X - Other<br>F - Fish | | MW028-1024-4002 | | | W | 1545 | 8/4/93 | | | 2 | | 1 | 1 | 1 | 1 | 1 | | | | | | |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS: AB 8/4/93

Special Instructions:

1-U
2-Pu
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90

11-Pests/PCBs-CLP SOW OLM01.0
15 TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0, Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

1.
2. RFW
3. SEAL NO 30889
4.
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec'd Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [illegible] | FEDEX | 8/4/93 | 1900 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# ____ Cooler# 46 381-596a

BATCH 009 AIRBILL 6293663364

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 2

Client: E&G
Est. Final Prof. Sampling Date
Work Order # 05376-039-007-0200-99
Project Contact/Phone # Craig Stoll (513)825-3440
AD Project Manager Jon Olander (708)918-4800
QC ____ Del ____ TAT ____
Date Rec'd ____ Date Due ____
Account # ____

| Refrigerator # | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #/Type Container | Liquid | | | | | | | | | | | | | | | | |
| | Solid | | | 1-G | | 1-G | 1-P | | 1-P | | | | | | | | |
| Volume (ml) | Liquid | | | | | | | | | | | | | | | | |
| | Solid | | | 250 | | 125 | 500 | | 250 | | | | | | | | |
| Preservatives | | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | TOC | | | Metal | CN | | | | | | | |
| WESTON Analytics Use Only | | | | 11 | | 15 | 23 24 25 27 | | 20 22 | | | | | | | | |

| MATRIX CODES: | Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S - Soil | | MN028-1022-0001 | | | S | 8/4/93 | 1400 | | | 1 | | 1 | 1 | | 1 | | | | | | |
| SE - Sediment | | MN028-1022-0002 | | | | | 1410 | | | 1 | | 1 | 1 | | 1 | | | | | | |
| SO - Solid | | MN028-1023-0001 | | | | | 1415 | | | 1 | | 1 | 1 | | 1 | | | | | | |
| SL - Sludge | | MN028-1023-0002 | | | | | 1455 | | | 1 | | 1 | 1 | | 1 | | | | | | |
| W - Water | | MN028-1024-0001 | | | | | 1430 | | | 1 | | 1 | 1 | | 1 | | | | | | |
| O - Oil | | MN028-1024-0002 | | | | | 1445 | | | 1 | | 1 | 1 | | 1 | | | | | | |
| A - Air | | MN028-1027-1001 | | | | | 1130 | | | 1 | | 1 | 1 | | 1 | | | | | | |
| DS - Drum Solids | | MN028-1026-0001/MS/MSD | ✓ | ✓ | | | 1040 | | | 1 | | 1 | 1 | | 1 | | | | | | |
| DL - Drum Liquids | | | | | | | | | | | | | | | | | | | | | |
| L - EP/TCLP Leachate | | | | | | | | | | | | | | | | | | | | | |
| WI - Wipe | | | | | | | | | | | | | | | | | | | | | |
| X - Other | | | | | | | | | | | | | | | | | | | | | |
| F - Fish | | | | | | | | | | | | | | | | | | | | | |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS: KB 8/4/93

Special Instructions:

| | |
|---|---|
| 1-U | 11-Pests/PCBs-CLP SOW OLM01.0 |
| 2-Pu | 15 TOC-415.1/415.2 |
| 3-Th | 20-Metals-CLP SOW ILM3.0, Mod A |
| 4-Am-241-DOE EML--AM-01 | 22-CN-CLP SOW IM3.0 |
| 5-Ra-226-ASTM D2460-70 | 23-Cl-325.1/9251 |
| 6-H3-906.0 | 24-NO2-NO3-353.2 |
| 7-Gamma Rad. | 25-SO4-375.2 |
| 8-Sr-90 | 27-F-340.2 |

1. ____
2. ____
3. RFW
4. SEAL NO 30889
5. ____
6. ____

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [signature] | FEDEX | 8/4/93 | 1900 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# ____ Cooler# 46 381-596a

BATCH CIC 0295005386

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client: EG+G
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: ~~Jon Olander (708)918-4800~~
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

| Refrigerator # | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #/Type Container | Liquid | | | | | | | | | | | 2-P | 1-G | | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Volume (ml) | Liquid | | | | | | | | | | | 4000 | 250 | | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Preservatives | | | | | | | | | | | | HNO3 | — | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | | | | Metal | CN | | PB | Hg | | | | |

| MATRIX CODES: | Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | WESTON Analytics Use Only | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S - Soil | | | | | | | | | | | | | | | | 1 | | | | | |
| SE - Sediment | | | | | | | | | | | | | | | | 2 | | | | | |
| SO - Solid | | | | | | | | | | | | | | | | 3 | | | | | |
| SL - Sludge | | | | | | | | | | | | | | | | 7 | | | | | |
| W - Water | | | | | | | | | | | | | | | | 4 | | | | | |
| O - Oil | | | | | | | | | | | | | | | | 5 | 8 | 6 | | | |
| A - Air | | MN028-1028-4001 | | | W | 8/5/93 | 1630 | | | | | | | | | 2 | 1 | | | | |
| DS - Drum Solids | | | | | | | | | | | | | | | | | | | | | |
| DL - Drum Liquids | | | | | | | | | | | | | | | | | | | | | |
| L - EP/TCLP Leachate | | | | | | | | | | | | | | | | | | | | | |
| WI - Wipe | | | | | | | | | | | | | | | | | | | | | |
| X - Other | | | | | | | | | | | | | | | | | | | | | |
| F - Fish | | | | | | | | | | | | | | | | | | | | | |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS: 1. KB 8/5/93 2. ~~EEG~~ ITA 3. SEAL NO. 30891 4. 5. 6.

Special Instructions:

1-U
2-Pu
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90

11-Pests/PCBs-CLP SOW OLM01.0
15 TOC-415.1/415.2
20-Metals-CLP SOW ~~ILM3.0, Mod A~~
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
~~27-P-340.2~~

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [illegible] | FEDEX | 8/5/93 | 1900 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___ Airbill # _____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

RFW 21-21-001/A-7/91 ___ L372 ___ L373 ___ L375 ___ L377 ___ L378 Ref# _____ Cooler# 047 381-596a

BATCH 010 AIRBILL 6249663320

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client
Est. Final Proj. Sampling Date
Work Order # 05376-039-007-0200-99
Project Contact/Phone # Craig Stoll (513)825-3440
AD Project Manager Jon Olander (708)918-4800
QC ____ Del ____ TAT ____
Date Rec'd ____ Date Due ____
Account #

| Refrigerator # | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #/Type Container | Liquid | | | 2-6 | | 1-6 | 1-P | 1-P | 1-P | 1-P | | | | | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Volume (ml) | Liquid | | | 1000 | | 250 | 500 | 500 | 1000 | 1000 | | | | | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Preservatives | | | | — | | $H_2SO_4$ | | $H_2SO_4$ | $HNO_3$ | NaOH | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | KIC | | $NO_3$-$NO_2$ | Metal | CN | | | | | | | |
| WESTON Analytics Use Only | | | | | | | 23 25 27 | | | | | | | | | | |
| | | | | 11 | | 15 | | 24 | 20 | 22 | | | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | VOA | BNA | Pest/PCB | Herb | KIC | | $NO_3$-$NO_2$ | Metal | CN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MND28-1028-4002 | | | W | 8/5/93 | 1630 | | | 2 | | 1 | 1 | 1 | 1 | 1 |

KB

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS: KB 8/5/93

Special Instructions:

1-U
2-Pu
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90

11-Pests/PCBs-CLP SOW OLM01.0
15 TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0, Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

1. ____
2. RFW
3. SEAL NO 30883
4. ____
5. ____
6. ____

WESTON Analytics Use Only

Samples were
1) Shipped ___ or Hand Delivered ___
Airbill # ___
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec'd Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [illegible] | FEDEX | 8/5/93 | 1800 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# ____ Cooler# 023 381 596a

BATCH 010 AIRBILL 6293663386

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client: EG&G Mound
Est. Final Proj. Sampling Date
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4000
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

| Refrigerator # | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #/Type Container | Liquid | | | | | | | | | | | | | | | |
| | Solid | | | | | | | | | | 1-P | 1-P | 1-P | | | |
| Volume (ml) | Liquid | | | | | | | | | | | | | | | |
| | Solid | | | | | | | | | | 125 | 125 | 40 | | | |
| Preservatives | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | | | | Metal | CN | RAD | Hg | 2,3,7,8-TCDD | | | |
| WESTON Analytics Use Only | | | | | | | | | | | 1 2 3 7 8 | 6 | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MN028-1043-0001 | | | S | 8/5/93 | 1130 | | | | | | | | | | 1 | 1 | 1 | | |
| | MN028-1044-0001 | | | S | ↓ | 1200 | | | | | | | | | | 1 | 1 | 1 | | |
| | MN028-1045-0001 | | | S | ↓ | 1145 | | | | | | | | | | 1 | 1 | 1 | | |
| | MN028-1028-0001 | | | S | ↓ | 1420 | | | | | | | | | | 1 | 1 | 1 | | |
| | MN028-1028-0002 | | | S | ↓ | 1500 | | | | | | | | | | 1 | 1 | 1 | | |
| | MN028-1029-0001 | | | S | ↓ | 1420 | | | | | | | | | | 1 | 1 | 1 | | |
| | MN028-1029-0002 | | | S | ↓ | 1500 | | | | | | | | | | 1 | 1 | 1 | | |
| | MN028-1030-0001 | | | S | ↓ | 1500 | | | | | | | | | | 1 | 1 | 1 | | |
| | MN028-1030-0002 | | | S | ↓ | 1530 | | | | | | | | | | 1 | 1 | 1 | | |
| | MN028-1028-1002 | | | S | ↓ | 1500 | | | | | | | | | | 1 | 1 | 1 | | |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:
1-U
2-PU
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8Sr-90

11-Pests/PCBs-CLP SOW OLM01.8
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F340.2

DATE/REVISIONS:
1. Check - JD Olander 5 Aug 1993
2.
3. ITA
4. SEAL NO. 30890
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # _____
2) Ambient or Chilled
3) Received In Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec'd Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [signature] | FEDEX | 8/5/93 | 1900 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-2' '1/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# _____ Cooler# 041 381-596a

BATCH 010 B H 6245663520

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client: EG&G
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4800
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

Refrigerator #

| #/Type Container | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Liquid | | | | | | | | | | | | | | | | |
| | Solid | | | 1-G | | 1-G | 1-P | | 1-P | | | | | | | | |
| Volume (ml) | Liquid | | | | | | | | | | | | | | | | |
| | Solid | | 250 | | | 125 | 500 | | 250 | | | | | | | | |
| Preservatives | | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | TOC | | | CN Metal | CN | | | | | | | |
| WESTON Analytics Use Only | | | | 11 | | 15 | 23 24 25 27 | | 20 22 | | | | | | | | |

| MATRIX CODES: | Lab ID | Client ID/Description | Matrix - QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S - Soil | | MN022-1043-0001 | | | S | 8/5/93 | 1130 | | | 1 | | 1 | 1 | | 1 | | | | | | |
| SE - Sediment | | MN022-1044-0001 | | | | | 1200 | | | 1 | | 1 | 1 | | 1 | | | | | | |
| SO - Solid | | MN022-1045-0001 | | | | | 1145 | | | 1 | | 1 | 1 | | 1 | | | | | | |
| SL - Sludge | | MN022-1026-0001 | | | | | 1420 | | | 1 | | 1 | 1 | | 1 | | | | | | |
| W - Water | | MN022-1028-0002 | | | | | 1500 | | | 1 | | 1 | 1 | | 1 | | | | | | |
| O - Oil | | MN022-1029-0001 | | | | | 1420 | | | 1 | | 1 | 1 | | 1 | | | | | | |
| A - Air | | MN022-1029-0002 | | | | | 1500 | | | 1 | | 1 | 1 | | 1 | | | | | | |
| DS - Drum Solids | | MN022-1030-0001 | | | | | 1500 | | | 1 | | 1 | 1 | | 1 | | | | | | |
| DL - Drum Liquids | | MN022-1030-0002 | | | | | 1530 | | | 1 | | 1 | 1 | | 1 | | | | | | |
| L - EP/TCLP Leachate | | MN022-1022-1002 | | | | | 1500 | | | 1 | | 1 | 1 | | 1 | | | | | | |
| WI - Wipe | | | | | | | | | | | | | | | | | | | | | |
| X - Other | | | | | | | | | | | | | | | | | | | | | |
| F - Fish | | | | | | | | | | | | | | | | | | | | | |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS: Checked JDOlander 5 Aug 1993

Special Instructions:
1-U
2-Pu
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90

11-Pests/PCBs-CLP SOW OLM01.0
15 TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0, Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

1
2
3 RFW
4 SEAL NO. 30892
5
6

WESTON Analytics Use Only

Samples were
1) Shipped or Hand Delivered Airbill #
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec'd Y or N

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| [signature] | FEDEX | 8/5/93 | 1900 |
| | | | |

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| | | | |
| | | | |

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# ____ Cooler# 471

381 596a

BATCH 011 AIRBILL 6293663390

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client: E&G
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0100-99
Project Contact/Phone #: GARY STOLL (573) 825-3440
AD Project Manager: JON OLAVSON (708) 918-4000
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator # | | | | | | | | | | | | | | | | |
| #/Type Container | Liquid | | | | | | | | | | | KP | 1-6 | | | |
| | Solid | | | | | | | | | | | | | | | |
| Volume | Liquid | | | | | | | | | | | 4000 | 250 | | | |
| | Solid | | | | | | | | | | | | | | | |
| Preservatives | | | | | | | | | | | | $HNO_3$ | — | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | | GAP | H3 | | | |
| | | VOA | BNA | Pest/PCB | Herb | | | | Metal | CN | | | | | | |
| WESTON Analytics Use Only | | | | | | | | | | | | 1 2 3 4 5 | 6 | | | |

MATRIX CODES: S - Soil; SE - Sediment; SO - Solid; SL - Sludge; W - Water; O - Oil; A - Air; DS - Drum Solids; DL - Drum Liquids; L - EP/TCLP Leachate; WI - Wipe; X - Other; F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MNDS-1036-4001 | | | W | 8/6/93 | 1400 | | | | | | | | | | | 2 | 1 | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS: KB 8/6/93

Special Instructions:

1 - U
2 - Pu
3 - Th
4 - Am-241-DOE EML-AM-01
5 - Ra-226-ASTM D2460-70
6 - H3-906.0
7 - GAMMA RAD
8 - Sr-90

1. 
2. ITA
3. SHAL NO. 3088.7
4. 
5. 
6. 

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [signature] | FEDEX | 8/6/93 | 1800 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___ Airbill # _____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

RFW 21-21-001/A-7/91 ___ L372 ___ L373 ___ L375 ___ L377 ___ L378 Ref# _____ Cooler# 103 381-596a

BATCH 011 AIRBILL 6249663353

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client: EG+G
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4800
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator # | | | | | | | | | | | | | | | | | | |
| #/Type Container | Liquid | | | 2-G | | 1-G | 1-P | 1-P | 1-P | 1-P | | | | | | | | |
| | Solid | | | | | | | | | | | | | | | | | |
| Volume (ml) | Liquid | | | 1000 | | 250 | 500 | 500 | 1000 | 1000 | | | | | | | | |
| | Solid | | | | | | | | | | | | | | | | | |
| Preservatives | | — | | — | | $H_2SO_4$ | | $H_2SO_4$ | $HNO_3$ | NaOH | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | TOC | | Anions | Metal | CN | | | | | | | | |
| | | WESTON Analytics Use Only | | | | | | | | | | | | | | | | |
| | | | | 11 | | 15 | 23 25 27 | 24 | 20 | 22 | | | | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MNOLL-1036-4001 | | | W | 8/6/93 | 1400 | | | 2 | | 1 | 1 | 1 | 1 | 1 | | | | | |

AR

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS: KB 8/6/93

Special Instructions:

| | |
|---|---|
| 1-U | 11-Pests/PCBs-CLP SOW OLM01.0 |
| 2-Pu | 15 TOC-415.1/415.2 |
| 3-Th | 20-Metals-CLP SOW ILM3.0, Mod A |
| 4-Am-241-DOE EML--AM-01 | 22-CN-CLP SOW IM3.0 |
| 5-Ra-226-ASTM D2460-70 | 23-Cl-325.1/9251 |
| 6-H3-906.0 | 24-NO2-NO3-353.2 |
| 7-Gamma Rad. | 25-SO4-375.2 |
| 8-Sr-90 | 27-F-340.2 |

1. 
2. RFW
3. SEAL NO. 30885
4. 
5. 
6. 

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___ Airbill # _____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [signature] | FEDEX | 8/6/93 | 1800 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# _____ Cooler# 497 381-596a

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client EG+G
Est. Final Proj. Sampling Date
Work Order # 05376-039-007-0200-99
Project Contact/Phone # Craig Stoll (513)825-3440
AD Project Manager Jon Olander (708)918-4800
QC ____ Del ____ TAT ____
Date Rec'd ____ Date Due ____
Account # ____

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator # | | | | | | | | | | | | | | | | | |
| #/Type Container | Liquid | | | 1-G | | 1-G | 1-P | 1-P | 1-P | 1-P | | | | | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Volume (ml) | Liquid | | | 1000 | | 150 | 500 | 500 | 1000 | 1000 | | | | | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Preservatives | | | | - | | NaOH | | HNO3 | HNO3 | NaOH | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | TOC | | [illegible] | Metal | CN | | | | | | | |
| WESTON Analytics Use Only | | | | 11 | | 15 | 32 33 37 | 34 | 40 | 32 | | | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11N218-1016-4001 | | | W | 5/6/93 | 1400 | | | 2 | | 1 | 1 | 1 | 1 | 1 | | | | | | |

KB

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS: KB 8/1/93

Special Instructions:

| | |
|---|---|
| 1-U | 11-Pests/PCBs-CLP SOW OLM01.0 |
| 2-Pu | 15 TOC-415.1/415.2 |
| 3-Th | 20-Metals-CLP SOW ILM3.0, Mod A |
| 4-Am-241-DOE EML--AM-01 | 22-CN-CLP SOW IM3.0 |
| 5-Ra-226-ASTM D2460-70 | 23-Cl-325.1/9251 |
| 6-H3-906.0 | 24-NO2-NO3-353.2 |
| 7-Gamma Rad. | 25-SO4-375.2 |
| 8-Sr-90 | 27-F-340.2 |

1. ____
2. RTN
3. Seal No. 30885
4. ____
5. ____
6. ____

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ____
2) Ambient or Chilled
3) Received In Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [illegible] | [illegible] | 5/6/93 | 1900 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# ____ Cooler# 497 381-596a

D-56

BATCH - 011 AIRBILL 6293663390

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON



Client EG&G Mound
Est. Final Proj. Sampling Date
Work Order # 05376-039-007-0200-99
Project Contact/Phone # Craig Stoll (513)825-3440
AD Project Manager Jon Olander (708)918-4000
QC Del TAT
Date Rec'd Date Due
Account #

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator # | | | | | | | | | | | | | | | | | |
| #/Type Container | Liquid | | | | | | | | | | | | | | | | |
| | Solid | | | | | | | | | | | 1-P | 1-P | 1-G | | | |
| Volume (ml) | Liquid | | | | | | | | | | | | | | | | |
| | Solid | | | | | | | | | | | 125 | 125 | 40 | | | |
| Preservatives | | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | | | | Metal | CN | | RAD | H3 | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | WESTON Analytics Use Only 1 | 2 | 3 | 7 | 8 | 6 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HNOLB-1045-0002 | | | S | 8/6/93 | 1525 | | | | | 1 | 1 | 1 | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS:
1. KB 8/6/93
2. ITA
3. SEAL NO. 30886
4.
5.
6.

Special Instructions:

1-U
2-PU
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8Sr-90

11-Pests/PCBs-CLP SOW OLM01.8
15-TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0,Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F340.2

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [signature] | FEDEX | 8/6/93 | 1800 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ___
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

RFW 21-21-001/A-7/91 ___ L372 ___ L373 ___ L375 ___ L377 ___ L378 Ref# ___ Cooler# 068 381-596a

BATCH -011 AIRBILL 6293663390

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 2

Client: E&G
Est. Final Proj. Sampling Date
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-4800
QC ____ Del ____ TAT ____
Date Rec'd ____ Date Due ____
Account #

Refrigerator #
#/Type Container: Liquid / Solid
Volume (Gal): Liquid / Solid
Preservatives

ANALYSES REQUESTED →

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | VOA | BNA | Pest/PCB | Herb | | | | Metal | CN | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ORGANIC | | | | | | | INORG | | | | | | | |
| | | | | | | | WESTON Analytics Use Only | | | | | | | | | 1 2 3 7 8 | 6 | | | | |
| | MNO28-1034-0001 | | | S | 8/6/93 | 1115 | | | | | | | | | | 1 | 1 | 1 | | | |
| | MNO28-1034-0002 | | | | | 1140 | | | | | | | | | | 1 | 1 | 1 | | | |
| | MNO28-1035-0001 | | | | | 1110 | | | | | | | | | | 1 | 1 | 1 | | | |
| | MNO28-1035-0002 | | | | | 1155 | | | | | | | | | | 1 | 1 | 1 | | | |
| | MNO28-1036-0001 | | | | | 1115 | | | | | | | | | | 1 | 1 | 1 | | | |
| | MNO28-1036-0002 | | | | | 1200 | | | | | | | | | | 1 | 1 | 1 | | | |
| | MNO28-1036-1001 | | | | | 1115 | | | | | | | | | | 1 | 1 | 1 | | | |
| | MNO28-1035-0001 MS/MSD | ✓ | ✓ | | | 1110 | | | | | | | | | | 1 | 1 | 1 | | | |
| | MNO28-1043-0002 | | | | | 1450 | | | | | | | | | | 1 | 1 | 1 | | | |
| | MNO28-1044-0002 | | | | | 1500 | | | | | | | | | | 1 | 1 | 1 | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS: 1. 8/6/93

Special Instructions:
1-U
2-Pu
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90

11-Pests/PCBs-CLP SOW OLM01.0
15 TOC-415.1/415.2
20-Metals-CLP SOW ILM3.0, Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

1. ____
2. ITA
3. SEAL NO. 30886
4. ____
5. ____
6. ____

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [signature] | FEDEX | 8/6/93 | 1800 | | | | |
| | | | | | | | |

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# ____ Cooler# 068 381-596a

BATCH 011 AI BILL 6293663390 53

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON



Client: EG+G
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-~~4800~~ 4080
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator # | | | | | | | | | | | | | | | | |
| #/Type Container | Liquid | | | | | | | | | | | | | | | |
| | Solid | | | 1-6 | | 1-6 | 1-P | | 1-P | | | | | | | |
| Volume (ml) | Liquid | | | | | | | | | | | | | | | |
| | Solid | | | 250 | | 125 | 500 | | 250 | | | | | | | |
| Preservatives | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | TOC | | | CN Metal | CN | | | | | | |
| | | WESTON Analytics Use Only | | | | | | | | | | | | | | |
| | | | | 11 | | 15 | 23 24 25 27 | | 20 22 | | | | | | | |

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected |
|---|---|---|---|---|---|---|
| | MN028-1034-0001 | | | S | 8/6/93 | 1115 |
| | MN028-1034-0002 | | | | | 1140 |
| | MN028-1035-0001 | | | | | 1110 |
| | MN028-1035-0002 | | | | | 1155 |
| | MN028-1036-0001 | | | | | 1115 |
| | MN028-1036-0002 | | | | | 1200 |
| | MN028-1036-1001 | | | | | 1115 |
| | MN028-1035-0001 MS/MSD | ✓ | ✓ | | | 1110 |
| | MN028-1043-0002 | | | | | 1450 |
| | MN028-1044-0002 | | | | | 1500 |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS: KB 8/6/93

Special Instructions:
1-Pu
2-Th
3-Th
4-Am-241-DOE EML--AM-01
5-Ra-226-ASTM D2460-70
6-H3-906.0
7-Gamma Rad.
8-Sr-90

11-Pests/PCBs-CLP SOW OLM01.0 MOD (D)
15 TOC-415.1/415.2
20-Metals-CLP SOW ~~ILM3.0~~, Mod A
22-CN-CLP SOW IM3.0
23-Cl-325.1/9251
24-NO2-NO3-353.2
25-SO4-375.2
27-F-340.2

1. ~~BTA~~ RFW
2.
3.
4. SEAL NO. 30884
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___ Airbill # _____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| [signature] | FEDEX | 8/6/93 | 1800 |
| | | | |

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| | | | |
| | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# _____ Cooler# 141 381-596a

BATCH 011 AIRBILL 6013663353

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

WESTON



Client: E6+6
Est. Final Proj. Sampling Date:
Work Order #: 05376-039-007-0200-99
Project Contact/Phone #: Craig Stoll (513)825-3440
AD Project Manager: Jon Olander (708)918-~~4000~~ 4000
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

| Refrigerator # | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #/Type Container | Liquid | | | | | | | | | | | | | | | | |
| | Solid | | | 1-6 | | 1-6 | 1-8 | | 1-8 | | | | | | | | |
| Volume (ml) | Liquid | | | | | | | | | | | | | | | | |
| | Solid | | | 250 | | 125 | 500 | | 250 | | | | | | | | |
| Preservatives | | | | | | | | | | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | | | | INORG | | | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | KOU | | | Metal | CN | | | | | | | |

| MATRIX CODES: | Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | WESTON Analytics Use Only | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S - Soil<br>SE - Sediment<br>SO - Solid<br>SL - Sludge<br>W - Water<br>O - Oil<br>A - Air<br>DS - Drum Solids<br>DL - Drum Liquids<br>L - EP/TCLP Leachate<br>WI - Wipe<br>X - Other<br>F - Fish | | | | | | | | | | 11 | | 15 | 23 24 25 27 | | 20 22 | | | | | | |
| | ✓ | INORG-1045-0002 | | | S | 8/6/93 | 1545 | | | 1 | | 1 | 1 | | 1 | | | | | | |

KP

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS: KB 8/6/93

1.
2.
3. RFW
4. SEAL NO. 30884
5.
6.

Special Instructions:

| | |
|---|---|
| 1-U | 11-Pests/PCBs-CLP SOW OLM01.0 mod (0) |
| 2-Pu | 15 TOC-415.1/415.2 |
| 3-Th | 20-Metals-CLP SOW ILM3.0, Mod A |
| 4-Am-241-DOE EML--AM-01 | 22-CN-CLP SOW IM3.0 |
| 5-Ra-226-ASTM D2460-70 | 23-Cl-325.1/9251 |
| 6-H3-906.0 | 24-NO2-NO3-353.2 |
| 7-Gamma Rad. | 25-SO4-375.2 |
| 8-S-2-00 | 27-F-340.2 |

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # _____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| [signature] | FEDEX | 8/6/93 | 1800 | | | | |
| | | | | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# _____ Cooler# 141 381-596a

# APPENDIX E

APPENDIX E

# APPENDIX E

## pH MEASUREMENTS

## APPENDIX E

## pH MEASUREMENTS

| Sample Identification | Soil Series | Date Collected | Date Analyzed | pH Meter Result | pH Paper Result |
|---|---|---|---|---|---|
| MND28-1001-0001 | Corwin | 8-1-93 | 8-3-93 | 6.2 | 6.7 |
| MND28-1001-0002 | | 8-1-93 | 8-3-93 | 7.1 | 7.8 |
| MND28-1002-0001 | | 8-1-93 | 8-3-93 | 6.6 | 6.7 |
| MND28-1002-0002 | | 8-1-93 | 8-3-93 | 7.2 | 7.8 |
| MND28-1003-0001 | | 8-1-93 | 8-3-93 | 6.6 | 6.7 |
| MND28-1003-0002 | | 8-1-93 | 8-3-93 | 7.0 | 7.8 |
| MND28-1004-0001 | Fairmont | 7-15-93 | 7-16-93 | 7.0 | 6.7 |
| MND28-1004-0002 | | 7-15-93 | 7-16-93 | 7.1 | 7.8 |
| MND28-1005-0001 | | 7-16-93 | 7-17-93 | 6.7 | 6.4 |
| MND28-1005-0002 | | 7-16-93 | 7-17-93 | 6.7 | 7.0 |
| MND28-1006-0001 | | 7-16-93 | 7-17-93 | 7.0 | 7.1 |
| MND28-1006-0002 | | 7-16-93 | 7-17-93 | 7.0 | 6.8 |
| MND28-1007-0001 | | 8-2-93 | 7-17-93 | 6.6 | 6.7 |
| MND28-1007-0002 | | 8-2-93 | 7-17-93 | 7.2 | 7.8 |
| MND28-1008-0001 | | 8-2-93 | 8-4-93 | 6.6 | 6.7 |
| MND28-1008-0002 | | 8-2-93 | 8-4-93 | 6.8 | 6.7 |
| MND28-1009-0001 | | 8-2-93 | 8-4-93 | 6.4 | 6.7 |
| MND28-1009-0002 | | 8-2-93 | 8-4-93 | 6.6 | 6.8 |
| MND28-1010-0001 | Hennepin | 8-3-93 | 8-4-93 | 6.7 | 6.5 |
| MND28-1010-0002 | | 8-3-93 | 8-4-93 | 6.7 | 6.5 |
| MND28-1011-0001 | | 8-3-93 | 8-4-93 | 6.7 | 6.8 |
| MND28-1011-0002 | | 8-3-93 | 8-4-93 | 7.8 | 6.8 |
| MND28-1012-0001 | | 8-3-93 | 8-4-93 | 5.6 | 6.5 |
| MND28-1012-0002 | | 8-3-93 | 8-4-93 | 6.7 | 7.0 |
| MND28-1013-0001 | | 8-3-93 | 8-4-93 | 6.7 | 7.1 |
| MND28-1013-0002 | | 8-3-93 | 8-4-93 | 7.8 | 7.4 |
| MND28-1014-0001 | | 8-3-93 | 8-4-93 | 6.7 | 7.0 |
| MND28-1014-0002 | | 8-3-93 | 8-4-93 | 7.8 | 7.4 |
| MND28-1015-0001 | | 8-3-93 | 8-4-93 | 6.7 | 7.2 |
| MND28-1015-0002 | | 8-3-93 | 8-4-93 | 7.8 | 7.3 |
| MND28-1016-0001 | Made Land | 7-17-93 | 7-17-93 | 7.8 | 7.4 |
| MND28-1016-0002 | | 7-17-93 | 7-17-93 | 7.8 | 7.4 |
| MND28-1017-0001 | | 7-17-93 | 7-17-93 | 7.8 | 7.4 |
| MND28-1017-0002 | | 7-17-93 | 7-17-93 | 7.8 | 7.4 |
| MND28-1018-0001 | | 7-17-93 | 7-17-93 | 7.0 | 7.0 |
| MND28-1018-0002 | | 7-17-93 | 7-17-93 | 7.8 | 7.4 |

## APPENDIX E

## pH MEASUREMENTS
(Continued)

| Sample Identification | Soil Series | Date Collected | Date Analyzed | pH Meter Result | pH Paper Result |
|---|---|---|---|---|---|
| MND28-1019-0001 | Miamian | 7-19-93 | 7-18-93 | 4.2 | 4.5 |
| MND28-1019-0002 | | 7-19-93 | 7-18-93 | 5.4 | 5.6 |
| MND28-1020-0001 | | 7-19-93 | 7-18-93 | 5.6 | 5.6 |
| MND28-1020-0002 | | 7-19-93 | 7-18-93 | 6.4 | 6.7 |
| MND28-1021-0001 | | 7-19-93 | 7-18-93 | 4.8 | 4.5 |
| MND28-1021-0002 | | 7-19-93 | 7-18-93 | 5.6 | 5.6 |
| MND28-1022-0001 | | 7-19-93 | 8-6-93 | 6.7 | 6.6 |
| MND28-1022-0002 | | 7-19-93 | 8-6-93 | 6.7 | 6.9 |
| MND28-1023-0001 | | 7-19-93 | 8-6-93 | 6.7 | 7.0 |
| MND28-1023-0002 | | 7-19-93 | 8-6-93 | 6.7 | 7.2 |
| MND28-1024-0001 | | 7-19-93 | 8-6-93 | 7.8 | 7.0 |
| MND28-1024-0002 | | 7-19-93 | 8-6-93 | 7.8 | 7.2 |
| MND28-1025-0001 | | 7-20-93 | 8-6-93 | 6.7 | 7.0 |
| MND28-1025-0002 | | 7-20-93 | 8-6-93 | 6.7 | 7.2 |
| MND28-1026-0001 | | 7-20-93 | 8-6-93 | 7.8 | 7.1 |
| MND28-1026-0002 | | 7-20-93 | 8-6-93 | 6.7 | 6.8 |
| MND28-1027-0001 | | 7-20-93 | 8-6-93 | 7.8 | 7.2 |
| MND28-1027-0002 | | 7-20-93 | 8-6-93 | 7.8 | 7.4 |
| MND28-1028-0001 | | 8-5-93 | 8-6-93 | 7.8 | 7.2 |
| MND28-1028-0002 | | 8-5-93 | 8-6-93 | 7.8 | 7.2 |
| MND28-1029-0001 | | 8-5-93 | 8-6-93 | 7.8 | 7.2 |
| MND28-1029-0002 | | 8-5-93 | 8-6-93 | 7.8 | 7.4 |
| MND28-1030-0001 | | 8-5-93 | 8-6-93 | 7.8 | 7.4 |
| MND28-1030-0002 | | 8-5-93 | 8-6-93 | 7.8 | 7.6 |
| MND28-1031-0001 | Milton | 7-20-93 | 7-21-93 | 7.8 | 7.2 |
| MND28-1031-0002 | | 7-20-93 | 7-21-93 | 7.8 | 7.4 |
| MND28-1032-0001 | | 7-20-93 | 7-21-93 | 7.8 | 7.2 |
| MND28-1032-0002 | | 7-20-93 | 7-21-93 | 7.8 | 7.4 |
| MND28-1033-0001 | | 7-20-93 | 7-21-93 | 6.7 | 7.2 |
| MND28-1033-0002 | | 7-20-93 | 7-21-93 | 7.8 | 7.2 |
| MND28-1034-0001 | | 8-6-93 | 8-6-93 | 7.8 | 7.2 |
| MND28-1034-0002 | | 8-6-93 | 8-6-93 | 7.8 | 7.0 |
| MND28-1035-0001 | | 8-6-93 | 8-6-93 | 7.8 | 7.2 |
| MND28-1035-0002 | | 8-6-93 | 8-6-93 | 7.8 | 7.2 |
| MND28-1036-0001 | | 8-6-93 | 8-6-93 | 7.8 | 7.2 |
| MND28-1036-0002 | | 8-6-93 | 8-6-93 | 7.8 | 7.2 |

## APPENDIX E

## pH MEASUREMENTS
(Continued)

| Sample Identification | Soil Series | Date Collected | Date Analyzed | pH Meter Result | pH Paper Result |
|---|---|---|---|---|---|
| MND28-1037-0001 | Milton (cont.) | 7-18-93 | 7-18-93 | 6.4 | 6.7 |
| MND28-1037-0002 | | 7-18-93 | 7-18-93 | 6.6 | 6.7 |
| MND28-1038-0001 | | 7-18-93 | 7-18-93 | 6.2 | 6.7 |
| MND28-1038-0002 | | 7-18-93 | 7-18-93 | 6.6 | 6.7 |
| MND28-1039-0001 | | 7-18-93 | 7-18-93 | 7.0 | 6.7 |
| MND28-1039-0002 | | 7-18-93 | 7-18-93 | 6.4 | 6.7 |
| MND28-1040-0001 | Ritchey | 7-18-93 | 7-18-93 | 7.2 | 6.7 |
| MND28-1040-0002 | | 7-18-93 | 7-18-93 | 7.2 | 7.3 |
| MND28-1041-0001 | | 7-18-93 | 7-18-93 | 6.6 | 6.7 |
| MND28-1041-0002 | | 7-18-93 | 7-18-93 | 7.4 | 7.8 |
| MND28-1042-0001 | | 7-18-93 | 7-18-93 | 7.0 | 6.7 |
| MND28-1042-0002 | | 7-18-93 | 7-18-93 | 7.2 | 6.7 |
| MND28-1043-0001 | | 8-6-93 | 8-6-93 | 6.7 | 6.4 |
| MND28-1043-0002 | | 8-6-93 | 8-6-93 | 7.8 | 7.3 |
| MND28-1044-0001 | | 8-6-93 | 8-6-93 | 6.7 | 6.8 |
| MND28-1044-0002 | | 8-6-93 | 8-6-93 | 7.8 | 7.4 |
| MND28-1045-0001 | | 8-6-93 | 8-6-93 | 8.0 | 7.0 |
| MND28-1045-0002 | | 8-6-93 | 8-6-93 | 7.8 | 7.2 |
| MND28-1046-0001 | Ross | 7-14-93 | 7-15-93 | 7.1 | 7.0 |
| MND28-1046-0002 | | 7-14-93 | 7-15-93 | 6.2 | 6.0 |
| MND28-1047-0001 | | 7-14-93 | 7-15-93 | 6.1 | 6.0 |
| MND28-1047-0002 | | 7-14-93 | 7-15-93 | 6.2 | 6.0 |
| MND28-1048-0001 | | 7-14-93 | 7-15-93 | 6.8 | 7.0 |
| MND28-1048-0002 | | 7-14-93 | 7-15-93 | 6.2 | 6.0 |

# APPENDIX F

APPENDIX F

# APPENDIX F

## FIELD DEVIATIONS AND NONCONFORMANCES

## APPENDIX F

## FIELD DEVIATIONS AND NONCONFORMANCES

1. On 15 July 1993, samples MND28-1005-0001, MND28-1005-1001 and MND28-1006-1001 were collected then cancelled for analysis, because a lower interval was not sampled at the same location. Samples were received at IT and WESTON Analytics on 16 July 1993. A memo stating that the samples would be recollected and resubmitted at a later date was sent.

2. On 15 July 1993, WESTON Analytics received cooler #530 at 13.2° C. Ideal cooler temperature was 4° C.

3. On 16 July 1993, WESTON Analytics received cooler #128 at 7.2° C. Ideal cooler temperature was 4° C.

4. On 16 July 1993, WESTON Analytics received two containers with no COC/security tape on them (MND28-1004-0001 for Pesticide/PCBs and NO3/NO2). Also, the COC for the samples had no Field Batch Number listed on it. L. Korobka (WESTON Laboratory Liaison) told the lab to analyze the samples missing the COC tape because the cooler was sealed upon arrival and to assign the samples to Field Batch 002.

5. On 19 July 1993, WESTON Analytics received one COC with two Field Batches on it. WESTON Analytics cannot break a single COC into two lab batches. Therefore, Dave Wardwell (WESTON SDCA) sent a copy of the original COC to the lab with the samples MND28-1006-0001 and MND28-1006-0002 only on it, designated to their proper batches.

6. On 19 July 1993, IT stated that the Background Soil Investigation radiological sample shipments received to date did not contain the letter from WESTON stating the nature of the samples. This letter was to explicitly state that the samples enclosed were environmental samples collected in locations outside the Mound Site. Dave Wardwell (WESTON SDCA) attested that he sent the letter with all shipments to IT; however, he did fail to sign the letter for the first few shipments.

7. On 20 July 1993, WESTON Analytics received sample MND28-1038-1002. However, the COC stated the sample as MND28-1039-1001. The lab logged the sample in as MND28-1038-1002.

8. On 21 July 1993, WESTON Analytics received cooler #645 at 12° C. Ideal cooler temperature was 4° C. Sample MND28-1027-4001 Pes/PCB bottle had its COC tape torn. L. Korobka (WESTON Laboratory Liaison) told the lab to analyze the sample since the cooler was sealed upon receipt.

9. On 21 July 1993, Kevin Bate (WESTON) told L. Korobka (WESTON Laboratory Liaison) to call the labs and put samples MND28-1025-0001, MND28-1025-0002, MND28-1026-0001, MND28-1026-0002, MND28-1027-0001, MND28-1027-0002, MND28-1027-1001 and MND28-1027-4001 on hold due to a possible sampling error. These samples were collected by WESTON on 20 July 1993, and received by the labs on 21 July 1993. L. Korobka (WESTON Laboratory Liaison) told the labs to put these samples on hold. These samples were cancelled for analysis, then new samples were collected from a proximal location.

10. On 22 July 1993, Kevin Bate (WESTON) told L. Korobka (WESTON Laboratory Liaison) to inform IT and WESTON Analytics to cancel analyses on samples MND28-1025-0001, MND28-1025-0002, MND28-1026-0001, MND28-1026-0002, MND28-1027-0001, MND28-1027-0002, MND28-1027-1001 and MND28-1027-4001. L. Korobka (WESTON Laboratory Liaison) phoned the labs and cancelled analyses on these samples. A memo regarding the cancellation was written and sent to the labs. It was suspected that the previous samples were not taken within the MoC soil series.

11. On 3 August 1993, IT received sample MND28-1009-0002. The COC stated that the sample was collected on 2 August 1993. The label stated that the sample was collected on 3 August 1993. L. Korobka (WESTON Laboratory Liaison) told Dr. Todd Hardt (IT) to change the bottle label to read 2 August 1993.

12. On 3 August 1993, IT received samples with the HNO3/4C box checked on the COC. However, according to the QAPP, HNO3 is the required preservative for radiological samples. Temperature is not necessary for preservation of radiological samples.

13. The tritium container for sample MND28-1009-0002 (received at IT Labs) says that the sample was collected on 3 August 1993 at 1500 hours. However, the COC says that the sample was collected on 2 August 1993 at 1500 hours. Since the phone call noting the discrepancy came in on 3 August 1993 at 1500 hours, the lab was told to change the label to match the COC information, which coincided with the field notebook record.

14. On 6 August 1993, WESTON Analytics received cooler #23 at 8° C. Ideal cooler temperature was 4° C.

15. WESTON Analytics received cooler #447 of Field Batch 010 on 6 August 1993 at 0° centigrade and cooler #23 of Field Batch 010 on 6 August 1993 at 8° centigrade. Ideal cooler temperature was 4° C.

16. WESTON Analytics received cooler #141 of Field Batch 011 on 6 August 1993 at 1° centigrade. Ideal cooler temperature was 4° C.

17. Two water blank samples were not listed on WESTON Analytics EG&G Mound OU9 BG Weekly Summary of 16 August 1993. Sample MND28-1024-4002 from Field Batch 009 and sample MND28-1036-4001 from Field Batch 011 were not on the summary form. Ms. Geiger (WESTON Analytics) corrected the 16 August 1993 Weekly Summary Report and sent a corrected copy via facsimile machine to L. Korobka (WESTON Laboratory Liaison) on 17 August 1993.

18. Ms. Jackie Van Audenhove (IT) informed L. Korobka (WESTON Laboratory Liaison) that the COCs for samples MND28-1006-4001, MND28-1039-4001 and MND28-1040-4002 did not request americium and radium. However, the COCs for samples MND28-1033-0001, MND28-1033-0002, MND28-1025-0001, MND28-1025-0002, MND28-1026-0001, MND28-1027-0001, MND28-1027-0002, MND28-1027-1001, and MND28-1027-4001 requested americium and radium for all samples. It was IT's understanding that americium and radium are to be analyzed on waters only. All COCs were corrected to include americium and radium parameters for water samples.

19. The description MOD D should have been listed on all OU9 Background Soil sample COCs as part of the Pesticide/PCB request description. However, the COC containing samples MND28-1046-0001, MND28-1046-0002, MND28-1047-0001, MND28-1047-0002, MND28-1048-0001 and MND28-1048-0002 was the only COC from Field Batches 001 through 005 that contained the description. L. Korobka (WESTON Laboratory Liaison) has documented the problem.

20. IT noted that for samples MND28-1003-4001 and MND28-1009-4002 the sample container labels were marked HNO3/4° while the COC information for these samples stated HNO3 only. HNO3 is the only preservative required for radioactive water samples. Therefore, the COC was correct but the container labels for MND28-1003-4001 and MND28-1009-4002 for radioactive and tritium analyses were incorrect.

# APPENDIX G

APPENDIX G

# APPENDIX G

## SUMMARY OF DATA QUALIFICATIONS


| | |
|---|---|
| Table G.1 | Inorganics |
| Table G.2 | Pesticides/PCBs |
| Table G.3 | Radionuclides |
| Table G.4 | Anions |

# APPENDIX G

## GLOSSARY OF DATA QUALIFIER CODES

### ORGANICS AND INORGANICS

| | | |
|---|---|---|
| U | - | The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation limit. |
| J | - | The associated numerical value is an estimated quantity. |
| R | - | The data are unusable (compound may or may not be present). Resampling and reanalysis is necessary for verification. |
| N | - | Presumptive evidence of presence of material. |
| NJ | - | Presumptive evidence of the presence of the material at an estimated quantity. |
| UJ | - | The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity. |

### Sub-Qualifier Codes

### ORGANICS

| | | |
|---|---|---|
| D | - | Duplicates |
| B | - | Qualified due to blank |
| C | - | Qualified due to calibration |
| H | - | Holding time exceeded |
| K | - | Qualified due to surrogate recovery |
| L | - | Qualified due to Laboratory Control Sample |
| S | - | Qualified due to matrix spike recovery |
| I | - | Qualified due to internal standard |
| N | - | Tentative identification (only for TICs) |
| P | - | Pest/PCB results have >25 percent difference on two different columns |
| (+) | - | Positive bias (added after subqualifier) |
| (-) | - | Negative bias (added after subqualifier) |

### INORGANICS

| | | |
|---|---|---|
| D | - | Duplicates |
| B | - | Qualified due to blank |
| C | - | Qualified due to calibration |
| H | - | Holding time exceeded |
| L | - | Qualified due to Laboratory Control Sample |
| S | - | Qualified due to matrix spike recovery |
| I | - | Qualified due to interference |
| (+) | - | Positive bias (added after subqualifier) |
| (-) | - | Negative bias (added after subqualifier) |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 001 | 9307L200 | MND28-1046-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Sb = R-S | Matrix spike recovery = 0% | Result is unusable |
| | | | Mn = J-S(-) | Matrix spike recovery < 75% (60.4%) | Possible low bias (by 1.7 X) |
| | | | Se = J-B(-) | Negative CCB value (-1.1 µg/L) | Possible low bias |
| | | | Li = UJ-B(+) | PB contamination (2.06 mg/kg) | Possible high bias |
| | | MND28-1046-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Pb = J-I(-) | Post-digestion spike recovery < 85% (84.5%) | Potential inaccuracy |
| | | | Se = UJ-B(-) | Negative CCB value (-1.1 µg/L) | Potential false negative |
| | | | Li = UJ-B(+) | PB contamination (2.06 mg/kg) | Possible high bias |
| | | MND28-1047-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Se = UJ-B(-) | Negative CCB value (-1.1 µg/L) | Potential false negative |
| | | MND28-1047-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Pb = J-I(-) | Post-digestion spike recovery < 85% (81.1%) | Potential inaccuracy |
| | | | Se = UJ-B(-) | Negative CCB value (-1.1 µg/L) | Potential false negative |
| | | MND28-1048-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Se = UJ-B(-) | Negative CCB value (-1.1 µg/L) | Potential false negative |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (84%) | Potential inaccuracy |
| | | MND28-1048-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Se = UJ-B(-) | Negative CCB value (-1.1 µg/L) | Potential false negative |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 001 (Continued) | 9307L214 | MND28-1004-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Sb = R-S | Matrix spike recovery = 0% | Result is unusable |
| | | | As = J-S(-) | Matrix spike recovery < 75% (64%) | Possible low bias (by 1.6 X) |
| | | | Cd = UJ-S(-) | Matrix spike recovery < 75% (72%) | Possible low bias (by 1.4 X) |
| | | | Cr = J-S(-) | Matrix spike recovery < 75% (73.4%) | Possible low bias (by 1.4 X) |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | Se = UJ-B(-) | Negative CCB value (-1.1 µg/L) | Possible low bias |
| | | | Se = UJ-S(-) | Matrix spike recovery < 75% (50%) | Possible low bias (by 2 X) |
| | | | Se = UJ-I(+) | Post-digestion spike recovery > 115% (131%) | Potential inaccuracy |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.24 mg/kg) | Potential false negative |
| | | | Li = UJ-B(+) | PB contamination (6.1 mg/kg) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | | Bi = UJ-I(+) | ICS interference | Possible high bias |
| | | | Sn = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 001 (Continued) | 9307L214 (Continued) | MND28-1004-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-I(-) | ICS interference | Potential false negative |
| | | | Cr = J-I(-) | ICS interference | Possible low bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Cu = J-I(-) | ICS interference | Possible low bias |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | Se = UJ-B(-) | Negative CCB value (-1.1 μg/L) | Potential false negative |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (49%) | Potential inaccuracy |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.24 mg/kg) | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (80%) | Potential inaccuracy |
| | | | Li = UJ-B(+) | PB contamination (6.1 mg/kg) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | | Bi = J-I(+) | ICS interference | Potential false positive |
| | | | Sn = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 001 (Continued) | 9307L214 (Continued) | MND28-1004-4001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Ca = UJ-B(+) | PB contamination (55.2 µg/L) | Possible high bias |
| | | | Fe = UJ-B(+) | PB contamination (26.4 µg/L) | Possible high bias |
| | | | Pb = UJ-B(-) | Negative CCB value (-2.4 µg/L) | Potential false negative |
| | | | Pb = UJ-I(+) | Post-digestion spike recovery > 115% (122%) | Potential inaccuracy |
| | | | Hg = UJ-B(-) | Negative PB value (-0.16 µg/L) | Potential false negative |
| | | | K = UJ-B(+) | CCB contamination (166 µg/L) | Possible high bias |
| | | | Se = UJ-I(+) | Post-digestion spike recovery > 115% (122%) | Potential inaccuracy |
| | | | Tl = UJ-B(-) | Negative PB value (-1.3 µg/L) | Potential false negative |
| | | | Li = UJ-B(+) | PB (24.2 µg/L) and ICB (24.2 µg/L) contamination | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 001 (Continued) | 9307L224 | MND28-1005-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | Se = UJ-B(-) | Negative CCB value (-1.1 µg/L) | Potential false negative |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.24 mg/kg) | Potential false negative |
| | | | Li = UJ-B(+) | PB contamination (6.12 mg/kg) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | | Sn = J-I(+) | ICS interference | Potential false positive |
| | | MND28-1005-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | Se = UJ-B(-) | Negative CCB value (-1.1 µg/L) | Potential false negative |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.24 mg/kg) | Potential false negative |
| | | | Li = UJ-B(+) | PB contamination (6.12 mg/kg) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | | Bi = J-I(+) | ICS interference | Possible high bias |
| | | | Sn = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 001 (Continued) | 9307L224 (Continued) | MND28-1005-1001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | Se = UJ-B(-) | Negative CCB value (-1.1 μg/L) | Potential false negative |
| | | | Se = UJ-I(+) | Post-digestion spike recovery > 115% (123%) | Potential inaccuracy |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.24 mg/kg) | Potential false negative |
| | | | Li = UJ-B(+) | PB contamination (6.12 mg/kg) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | | Sn = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 002 | 9307L226 | MND28-1006-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Ni = J-I(-) | ICS interference | Possible high bias |
| | | | Se = UJ-B(-) | Negative CCB value (-1.1 µg/L) | Potential false negative |
| | | | Se = UJ-I(+) | Post-digestion spike recovery > 115% (117%) | Potential inaccuracy |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.24 mg/kg) | Potential false negative |
| | | | Li = UJ-B(+) | PB contamination (6.1 mg/kg) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | | Sn = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 002 (Continued) | 9307L226 (Continued) | MND28-1006-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Se = UJ-B(-) | Negative CCB value (-1.1 µg/L) | Potential false negative |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (63%) | Potential inaccuracy |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.24 mg/kg) | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (83.5%) | Potential inaccuracy |
| | | | Li = UJ-B(+) | PB contamination (6.1 mg/kg) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | | Sn = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 002 (Continued) | 9307L234 | MND28-1016-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-B(-) | Negative CCB value (-2.7 µg/L) | Potential false negative |
| | | | Cd = UJ-I(-) | ICS interference | Potential false negative |
| | | | Co = UJ-B(+) | RB contamination (8.6 µg/L) | Possible high bias |
| | | | Pb = J-I(-) | Post-digestion spike recovery < 85% (79.1%) | Potential inaccuracy |
| | | | K = UJ-B(+) | PB contamination (279.8 mg/kg) | Possible high bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (74.3%) | Potential inaccuracy |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = J-I(-) | Post-digestion spike recovery < 85% (80.8%) | Potential inaccuracy |
| | | | Li = UJ-B(+) | ICB (24.2 µg/L) and CCB (47.4 µg/L) contamination | Possible high bias |
| | | | Mo = UJ-B(+) | ICB (8.0 µg/L) and CCB (16.3 µg/L) contamination | Possible high bias |
| | | | Mo = UJ-I(+) | ICS interference | Possible high bias |
| | | | Sn = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 002 (Continued) | 9307L234 (Continued) | MND28-1016-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = J-I(-) | ICS interference | Possible low bias |
| | | | Co = UJ-B(+) | RB contamination (8.6 μg/L) | Possible high bias |
| | | | Pb = J-I(-) | Post-digestion spike recovery < 85% (78.1%) | Potential inaccuracy |
| | | | K = UJ-B(+) | PB (279.8 mg/kg), ICB (1321 μg/L), and CCB (1321 μg/L) contamination | Possible high bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (75.2%) | Potential inaccuracy |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = J-I(-) | Post-digestion spike recovery < 85% (80.6%) | Potential inaccuracy |
| | | | Li = UJ-B(+) | ICB (24.2 μg/L) and CCB (47.4 μg/L) contamination | Possible high bias |
| | | | Mo = UJ-B(+) | CCB contamination (16.3 μg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | | Sn = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 002 (Continued) | 9307L234 (Continued) | MND28-1017-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-B(-) | Negative CCB value (-2.7 µg/L) | Potential false negative |
| | | | Cd = UJ-I(-) | ICS interference | Potential false negative |
| | | | Co = UJ-B(+) | RB contamination (8.6 µg/L) | Possible high bias |
| | | | K = UJ-B(+) | PB (279.8 mg/kg), ICB (1321 µg/L), and CCB (1321 µg/L) contamination | Possible high bias |
| | | | Se = UJ-B(+) | PB contamination (0.42 mg/kg) | Possible high bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Li = UJ-B(+) | ICB (24.2 µg/L) and CCB (47.4 µg/L) contamination | Possible high bias |
| | | | Mo = UJ-B(+) | ICB (8.0 µg/L) and CCB (16.3 µg/L) contamination | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | | Sn = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 002 (Continued) | 9307L234 (Continued) | MND28-1017-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-B(-) | Negative CCB value (-2.7 µg/L) | Potential false negative |
| | | | Cd = UJ-I(-) | ICS interference | Potential false negative |
| | | | Co = UJ-B(+) | RB contamination (8.6 µg/L) | Possible high bias |
| | | | K = UJ-B(+) | PB (279.8 mg/kg), ICB (1321 µg/L), and CCB (1321 µg/L) contamination | Possible high bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (83.2%) | Potential inaccuracy |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Li = UJ-B(+) | ICB (24.2 µg/L) and CCB (47.4 µg/L) contamination | Possible high bias |
| | | | Mo = UJ-B(+) | ICB (8.0 µg/L) and CCB (16.3 µg/L) contamination | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | | Sn = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 002 (Continued) | 9307L234 (Continued) | MND28-1018-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-B(-) | Negative CCB value (-2.7 µg/L) | Potential false negative |
| | | | Cd = UJ-I(-) | ICS interference | Potential false negative |
| | | | Co = UJ-B(+) | RB contamination (8.6 µg/L) | Possible high bias |
| | | | K = UJ-B(+) | PB (279.8 mg/kg), ICB (1321 µg/L), and CCB (1321 µg/L) contamination | Possible high bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (65.4%) | Potential inaccuracy |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Li = UJ-B(+) | ICB (24.2 µg/L) and CCB (47.4 µg/L) contamination | Possible high bias |
| | | | Mo = UJ-B(+) | ICB (8.0 µg/L) and CCB (16.3 µg/L) contamination | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | | Sn = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 002 (Continued) | 9307L234 (Continued) | MND28-1018-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-B(-) | Negative CCB value (-2.7 µg/L) | Potential false negative |
| | | | Cd = UJ-I(-) | ICS interference | Potential false negative |
| | | | Co = UJ-B(+) | RB contamination (8.6 µg/L) | Possible high bias |
| | | | K = UJ-B(+) | PB (279.8 mg/kg), ICB (1321 µg/L), and CCB (1321 µg/L) contamination | Possible high bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (58.5%) | Potential inaccuracy |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Li = UJ-B(+) | ICB (24.2 µg/L) and CCB (47.4 µg/L) contamination | Possible high bias |
| | | | Mo = UJ-B(+) | ICB (8.0 µg/L) and CCB (16.3 µg/L) contamination | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | | Sn = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 002 (Continued) | 9307L234 (Continued) | MND28-1040-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | As = J-D | Field duplicate RPD > 50% (61.5%) | Potential inaccuracy |
| | | | As = J-S(-) | Matrix spike recovery < 75% (13%) | Probable low bias - significant |
| | | | Cd = J-B(-) | Negative CCB value (-2.7 µg/L) | Possible low bias |
| | | | Cd = J-I(-) | ICS interference | Possible low bias |
| | | | Pb = J-D | Lab duplicate RPD > 35% (48.3%) | Potential inaccuracy |
| | | | K = UJ-B(+) | PB (279.8 mg/kg), ICB (1321 µg/L), and CCB (1321 µg/L) contamination | Possible high bias |
| | | | Se = UJ-B(+) | PB contamination (0.42 mg/kg) | Possible high bias |
| | | | Se = J-S(-) | Matrix spike recovery < 75% (48.1%) | Probable low bias (by 2 X) |
| | | | Se = J-I(-) | Post-digestion spike recovery < 85% (78.9%) | Potential inaccuracy |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Li = UJ-B(+) | ICB (24.2 µg/L) and CCB (47.4 µg/L) contamination | Possible high bias |
| | | | Mo = UJ-B(+) | ICB (8.0 µg/L) and CCB (16.3 µg/L) contamination | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | | Mo = J-D | Field duplicate RPD > 50% (54%) | Potential inaccuracy |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 002 (Continued) | 9307L234 (Continued) | MND28-1040-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-B(-) | Negative CCB value (-2.7 µg/L) | Potential false negative |
| | | | Cd = UJ-I(-) | ICS interference | Potential false negative |
| | | | K = UJ-B(+) | PB (279.8 mg/kg), ICB (1321 µg/L), and CCB (1321 µg/L) contamination | Possible high bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Li = UJ-B(+) | ICB (24.2 µg/L) and CCB (47.4 µg/L) contamination | Possible high bias |
| | | | Mo = UJ-B(+) | ICB (8.0 µg/L) and CCB (16.3 µg/L) contamination | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 002 (Continued) | 9307L234 (Continued) | MND28-1040-1001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | As = J-D | Field duplicate RPD > 50% (65.6%) | Potential inaccuracy |
| | | | Cd = J-B(-) | Negative CCB value (-2.7 µg/L) | Possible low bias |
| | | | Cd = J-I(-) | ICS interference | Possible low bias |
| | | | K = UJ-B(+) | PB (279.8 mg/kg), ICB (1321 µg/L), and CCB (1321 µg/L) contamination | Possible high bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (78.4%) | Potential inaccuracy |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Li = UJ-B(+) | ICB (24.2 µg/L) and CCB (47.4 µg/L) contamination | Possible high bias |
| | | | Mo = UJ-B(+) | ICB (8.0 µg/L) and CCB (16.3 µg/L) contamination | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | | Mo = J-D | Field duplicate RPD > 50% (54%) | Potential inaccuracy |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 002 (Continued) | 9307L234 (Continued) | MND28-1040-4002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Ca = UJ-B(+) | PB (55.2 µg/L), ICB (35.4 µg/L), and CCB (23.5 µg/L) contamination | Possible high bias |
| | | | Fe = UJ-B(+) | PB contamination (26.4 µg/L) | Possible high bias |
| | | | Pb = J-I(+) | Post-digestion spike recovery > 115% (116%) | Potential inaccuracy |
| | | | K = UJ-B(+) | PB (166 µg/L) and CCB (91.5 µg/L) contamination | Possible high bias |
| | | | Se = UJ-I(+) | Post-digestion spike recovery > 115% (118%) | Potential inaccuracy |
| | | | Tl = UJ-B(-) | Negative PB value (-1.3 µg/L) | Potential false negative |
| | | | Li = UJ-B(+) | PB (24.2 µg/L), ICB (24.2 µg/L), and CCB (47.4 µg/L) contamination | Possible high bias |
| 003 | 9307L233 | MND28-1037-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-B(+) | PB contamination (0.61 mg/kg) | Possible high bias |
| | | | Co = UJ-B(+) | RB contamination (9.6 µg/L) | Possible high bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.62 mg/kg) | Potential false negative |
| | | | Li = UJ-B(+) | RB contamintion (47.4 µg/L) | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 003 (Continued) | 9307L233 (Continued) | MND28-1037-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-B(+) | PB contamination (0.61 mg/kg) | Possible high bias |
| | | | Cr = J-I(-) | ICS interference | Possible low bias |
| | | | Co = UJ-B(+) | RB contamination (9.6 μg/L) | Possible high bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Cu = J-I(-) | ICS interference | Possible low bias |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | K = UJ-B(+) | PB contamination (213 mg/kg) | Possible high bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (59%) | Potential inaccuracy |
| | | | Na = J-I(+) | ICS interference | Potential false positive |
| | | | Tl = UJ-B(-) | Negative PB value (-0.62 mg/kg) | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (78.5%) | Potential inaccuracy |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Li = UJ-B(+) | RB contamination (47.4 μg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 003 (Continued) | 9307L233 (Continued) | MND28-1038-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-B(+) | PB contamination (0.61 mg/kg) | Possible high bias |
| | | | K = UJ-B(+) | PB contamination (213 mg/kg) | Possible high bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (81%) | Potential inaccuracy |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.62 mg/kg) | Potential false negative |
| | | | Li = UJ-B(+) | RB contamintion (47.4 µg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 003 (Continued) | 9307L233 (Continued) | MND28-1038-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | As = J-D | Field duplicate RPD > 50% (62%) | Potential inaccuracy |
| | | | Cd = UJ-B(+) | PB contamination (0.61 mg/kg) | Possible high bias |
| | | | Co = UJ-B(+) | RB contamination (9.6 µg/L) | Possible high bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Cu = J-I(-) | ICS interference | Possible low bias |
| | | | K = UJ-B(+) | PB contamination (213 mg/kg) | Possible high bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (59%) | Potential inaccuracy |
| | | | Tl = UJ-B(-) | Negative PB value (-0.62 mg/kg) | Potential false negative |
| | | | Li = UJ-B(+) | RB contamintion (47.4 µg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| 003 (Continued) | 9307L233 (Continued) | MND28-1039-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-B(+) | PB contamination (0.61 mg/kg) | Possible high bias |
| | | | Co = UJ-B(+) | RB contamination (9.6 µg/L) | Possible high bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (83%) | Potential inaccuracy |
| | | | Tl = UJ-B(-) | Negative PB value (-0.62 mg/kg) | Potential false negative |
| | | | Li = UJ-B(+) | RB contamintion (47.4 µg/L) | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 003 (Continued) | 9307L233 (Continued) | MND28-1039-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-B(+) | PB contamination (0.61 mg/kg) | Possible high bias |
| | | | Co = UJ-B(+) | RB contamination (9.6 µg/L) | Possible high bias |
| | | | K = UJ-B(+) | PB contamination (213 mg/kg) | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.62 mg/kg) | Potential false negative |
| | | | Li = UJ-B(+) | RB contamintion (47.4 µg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |
| 003 (Continued) | 9307L233 (Continued) | MND28-1041-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Sb = R-S | MS recovery = 0 | Result is unusable |
| | | | Cd = UJ-B(+) | PB contamination (0.61 mg/kg) | Possible high bias |
| | | | K = UJ-B(+) | PB contamination (213 mg/kg) | Possible high bias |
| | | | Se = UJ-S(-) | MS recovery < 75% (58.1%) | Possible low bias (by 1.7 X) |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.62 mg/kg) | Potential false negative |
| | | | Tl = UJ-S(-) | MS recovery < 75% (72.6%) | Possible low bias (by 1.4 X) |
| | | | Li = UJ-B(+) | RB contamintion (47.4 µg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 003 (Continued) | 9307L233 (Continued) | MND28-1041-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-B(+) | PB contamination (0.61 mg/kg) | Possible high bias |
| | | | K = UJ-B(+) | PB contamination (213 mg/kg) | Possible high bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.62 mg/kg) | Potential false negative |
| | | | Li = UJ-B(+) | RB contamintion (47.4 µg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |
| 003 (Continued) | 9307L233 (Continued) | MND28-1042-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-B(+) | PB contamination (0.61 mg/kg) | Possible high bias |
| | | | K = UJ-B(+) | PB contamination (213 mg/kg) | Possible high bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.62 mg/kg) | Potential false negative |
| | | | Li = UJ-B(+) | RB contamintion (47.4 µg/L) | Possible high bias |
| 003 (Continued) | 9307L233 (Continued) | MND28-1042-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-B(+) | PB contamination (0.61 mg/kg) | Possible high bias |
| | | | K = UJ-B(+) | PB contamination (213 mg/kg) | Possible high bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.62 mg/kg) | Potential false negative |
| | | | Li = UJ-B(+) | RB contamintion (47.4 µg/L) | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 003 (Continued) | 9307L233 (Continued) | MND28-1038-1002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | As = J-D | Field duplicate RPD > 50% (62%) | Potential inaccuracy |
| | | | Cd = UJ-B(+) | PB contamination (0.61 mg/kg) | Possible high bias |
| | | | Co = UJ-B(+) | RB contamination (9.6 µg/L) | Possible high bias |
| | | | Pb = J-I(-) | Post-digestion spike recovery < 85% (84.6%) | Potential inaccuracy |
| | | | K = UJ-B(+) | PB contamination (213 mg/kg) | Possible high bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (47%) | Potential inaccuracy |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.62 mg/kg) | Potential false negative |
| | | | Tl = J-I(-) | Post-digestion spike recovery < 85% (84%) | Potential inaccuracy |
| | | | Li = UJ-B(+) | RB contamintion (47.4 µg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 003 (Continued) | 9307L233 (Continued) | MND28-1039-4001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Ca = UJ-B(+) | PB contamination (55.2 µg/L) | Possible high bais |
| | | | Fe = UJ-B(+) | PB contamination (26.4 µg/L) | Possible high bias |
| | | | K = UJ-B(+) | PB contamination (166 µg/L) | Possible high bais |
| | | | Se = UJ-I(+) | Post-digestion spike recovery > 115% (120%) | Potential inaccuracy |
| | | | Tl = UJ-B(-) | Negative PB value (-1.3 µg/L) | Potential false negative |
| | | | Zn = UJ-B(+) | PB contamination (22.4 µg/L) | Possible high bias |
| | | | Li = UJ-B(+) | PB contamination (47.4 µg/L) | Possible high bias |
| 004 | 9307L232 | MND28-1019-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-B(-) | Negative CCB value (-2.7 µg/L) | Potential false negative |
| | | | K = UJ-B(+) | PB (280 mg/kg), ICB (1321 µg/L), and CCB (1321 µg/L) contamination | Possible high bias |
| | | | Se = UJ-B(+) | PB contamination (0.42 mg/kg) | Possible high bias |
| | | | Se = J-I(+) | Post-digestion spike recovery > 115% (119%) | Potential inaccuracy |
| | | | Li = UJ-B(+) | ICB (24.2 µg/L) and CCB (47.4 µg/L) contamination | Possible high bias |
| | | | Mo = UJ-B(+) | ICB (8.0 µg/L) and CCB (16.3 µg/L) contamination | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 004 (Continued) | 9307L232 (Continued) | MND28-1019-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-B(-) | Negative CCB value (-2.7 µg/L) | Potential false negative |
| | | | Cd = UJ-I(-) | ICS interference | Potential false negative |
| | | | K = UJ-B(+) | PB (280 mg/kg), ICB (1321 µg/L), and CCB (1321 µg/L) contamination | Possible high bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Li = UJ-B(+) | ICB (24.2 µg/L) and CCB (47.4 µg/L) contamination | Possible high bias |
| | | | Mo = UJ-B(+) | ICB (8.0 µg/L) and CCB (16.3 µg/L) contamination | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | MND28-1020-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-B(-) | Negative CCB value (-2.7 µg/L) | Potential false negative |
| | | | K = UJ-B(+) | PB (280 mg/kg), ICB (1321 µg/L), and CCB (1321 µg/L) contamination | Possible high bias |
| | | | Se = UJ-B(+) | PB contamination (0.42 mg/kg) | Possible high bias |
| | | | Li = UJ-B(+) | ICB (24.2 µg/L) and CCB (47.4 µg/L) contamination | Possible high bias |
| | | | Mo = UJ-B(+) | ICB (8.0 µg/L) and CCB (16.3 µg/L) contamination | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 004 (Continued) | 9307L232 (Continued) | MND28-1020-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-B(-) | Negative CCB value (-2.7 µg/L) | Potential false negative |
| | | | Cd = UJ-I(-) | ICS interference | Potential false negative |
| | | | K = UJ-B(+) | PB (280 mg/kg), ICB (1321 µg/L), and CCB (1321 µg/L) contamination | Possible high bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (80%) | Potential inaccuracy |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Li = UJ-B(+) | ICB (24.2 µg/L) and CCB (47.4 µg/L) contamination | Possible high bias |
| | | | Mo = UJ-B(+) | ICB (8.0 µg/L) and CCB (16.3 µg/L) contamination | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | MND28-1021-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-B(-) | Negative CCB value (-2.7 µg/L) | Potential false negative |
| | | | K = UJ-B(+) | PB (280 mg/kg), ICB (1321 µg/L), and CCB (1321 µg/L) contamination | Possible high bias |
| | | | Li = UJ-B(+) | ICB (24.2 µg/L) and CCB (47.4 µg/L) contamination | Possible high bias |
| | | | Mo = UJ-B(+) | ICB (8.0 µg/L) and CCB (16.3 µg/L) contamination | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 004 (Continued) | 9307L232 (Continued) | MND28-1021-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-B(-) | Negative CCB value (-2.7 µg/L) | Potential false negative |
| | | | K = UJ-B(+) | PB (280 mg/kg), ICB (1321 µg/L), and CCB (1321 µg/L) contamination | Possible high bias |
| | | | Li = UJ-B(+) | ICB (24.2 µg/L) and CCB (47.4 µg/L) contamination | Possible high bias |
| | | | Mo = UJ-B(+) | ICB (8.0 µg/L) and CCB (16.3 µg/L) contamination | Possible high bias |
| | 9307L252 | MND28-1031-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Se = J-B(-) | Negative CCB value (-1.0 µg/L) | Possible low bias |
| | | | Se = J-I(+) | Post-digestion spike recovery > 115% (117%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | RB contamination (376 µg/L) | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.26 mg/kg) | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (84.5%) | Potential inaccuracy |
| | | | Li = UJ-B(+) | CCB contamination (32 µg/L) | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 004 (Continued) | 9307L252 (Continued) | MND28-1031-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Se = UJ-B(-) | Negative CCB value (-1.0 µg/L) | Potential false negative |
| | | | Na = UJ-B(+) | RB contamination (376 µg/L) | Possible high bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.26 mg/kg) | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (84.5%) | Potential inaccuracy |
| | | | Li = UJ-B(+) | CCB contamination (32 µg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |
| | | MND28-1032-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Se = J-B(-) | Negative CCB value (-1.0 µg/L) | Possible low bias |
| | | | Na = UJ-B(+) | RB contamination (376 µg/L) | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.26 mg/kg) | Potential false negative |
| | | | Li = UJ-B(+) | CCB contamination (32 µg/L) | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 004 (Continued) | 9307L252 (Continued) | MND28-1032-0002 | Al = J-D | Lab duplicate RPD > 35% (37.6%) | Potential inaccuracy |
| | | | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Sb = R-S | MS recovery < 75% (12%) | Result is unusable |
| | | | As = J-S(-) | MS recovery < 75% (22.7%) | Possible low bias (by 4.4 X) |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Pb = J-D | Lab duplicate RPD > 35% (57.3%) | Potential inaccuracy |
| | | | Mn = J-D | Lab duplicate RPD > 35% (49.7%) | Potential inaccuracy |
| | | | Hg = UJ-S(-) | MS recovery < 75% (66.3%) | Possible low bias (by 1.5 X) |
| | | | Se = R-S(-) | MS recovery < 75% (14%) | Result is unusable |
| | | | Na = UJ-B(+) | RB contamination (376 µg/L) | Possible high bias |
| | | | Na = UJ-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.26 mg/kg) | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (78.5%) | Potential inaccuracy |
| | | | Tl = UJ-S(-) | MS recovery < 75% (63.6%) | Possible low bias (by 1.6 X) |
| | | | Li = UJ-B(+) | CCB contamination (32 µg/L) | Possible high bias |
| | | | Li = UJ-D | Field duplicate RPD > 50% (54%) | Potential inaccuracy |
| | | | Mo = J-D | Lab duplicate RPD > 2X CRDL = 5.0 mg/kg (5.5 mg/kg) | Potential inaccuracy |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | | Sn = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 004 (Continued) | 9307L252 (Continued) | MND28-1032-1002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-B(+) | CCB contamination (2.6 µg/L) | Possible high bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Se = UJ-B(-) | Negative CCB value (-1.0 µg/L) | Potential false negative |
| | | | Na = UJ-B(+) | RB contamination (376 µg/L) | Possible high bias |
| | | | Na = UJ-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.26 mg/kg) | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (82.5%) | Potential inaccuracy |
| | | | Li = UJ-B(+) | CCB contamination (32 µg/L) | Possible high bias |
| | | | Li = J-D | Field duplicate RPD > 50% (54%) | Potential inaccuracy |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |
| | | MND28-1032-4002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-B(-) | Negative CCB value (-2.1 µg/L) | Potential false negative |
| | | | Ca = UJ-B(+) | PB contamination (55.2 µg/L) | Possible high bias |
| | | | K = UJ-B(+) | PB contamination (166 µg/L) | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-1.3 µg/L) | Potential false negative |
| | | | Zn = R-B(+) | PB contamination (22.4 µg/L) | Result is unusable |
| | | | Li = UJ-B(+) | PB contamination (24.2 µg/L) | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 005 | 9307L248 | MND28-1033-0001 | Al = J-I(+) | ICP serial dilution %D > 10% (14.9%) | Potential inaccuracy |
| | | | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Sb = R-S | MS recovery < 75% (12%) | Result is unusable |
| | | | Ba = J-I(+) | ICP serial dilution %D > 10% (16.6%) | Potential inaccuracy |
| | | | Ca = J-D | Lab duplicate RPD > 35% (56.3%) | Potential inaccuracy |
| | | | Ca = J-I(+) | ICP serial dilution %D > 10% (14.5%) | Potential inaccuracy |
| | | | Fe = J-I(+) | ICP serial dilution %D > 10% (14.0%) | Potential inaccuracy |
| | | | Pb = J-I(+) | Post-digestion spike recovery > 115% (117.5%) | Potential inaccuracy |
| | | | Mg = J-D | Lab duplicate difference > 2X CRDL = 2000 mg/kg (2942 mg/kg) | Potential inaccuracy |
| | | | Mg = J-I(+) | ICP serial dilution %D > 10% (11.5%) | Potential inaccuracy |
| | | | Mn = J-D | Lab duplicate RPD > 35% (48.9%) | Potential inaccuracy |
| | | | Mn = J-I(+) | ICP serial dilution %D > 10% (14.4%) | Potential inaccuracy |
| | | | Ni = UJ-B(+) | CCB contamination (8.1 μg/L) | Possible high bias |
| | | | K = UJ-B(+/-) | ICB (74 μg/L) and CCB (-152 μg/L) contamination | Possible high/low bias |
| | | | Se = J-S(-) | MS recovery < 75% (74%) | Possible low bias (by 1.4 X) |
| | | | Se = J-I(+) | Post-digestion spike recovery > 115% (121%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | CCB contamination (131.5 μg/L) | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 005 (Continued) | 9307L248 (Continued) | MND28-1033-0001 (Continued) | Tl = UJ-B(-) | Negative ICB value (-2.5 µg/L) | Possible low bias |
| | | | Tl = UJ-S(-) | MS recovery < 75% (71.8%) | Possible low bias (by 1.4 X) |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (74.5%) | Potential inaccuracy |
| | | | Li = UJ-B(+) | CCB contamination (30.6 µg/L) | Possible high bias |
| | | MND28-1033-0002 | Al = J-I(+) | ICP serial dilution %D > 10% (14.9%) | Potential inaccuracy |
| | | | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Ba = J-I(+) | ICP serial dilution %D > 10% (16.6%) | Potential inaccuracy |
| | | | Ca = J-I(+) | ICP serial dilution %D > 10% (14.5%) | Potential inaccuracy |
| | | | Fe = J-I(+) | ICP serial dilution %D > 10% (14.0%) | Potential inaccuracy |
| | | | Mg = J-I(+) | ICP serial dilution %D > 10% (11.5%) | Potential inaccuracy |
| | | | Mn = J-I(+) | ICP serial dilution %D > 10% (14.4%) | Potential inaccuracy |
| | | | K = UJ-B(+/-) | ICB (74 µg/L) and CCB (-302.7 µg/L) contamination | Possible high/low bias |
| | | | Se = UJ-I(+) | Post-digestion spike recovery > 115% (120%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | CCB contamination (131.5 µg/L) | Possible high bias |
| | | | Tl = UJ-B(-) | Negative ICB value (-2.5 µg/L) | Potential false negative |
| | | | Li = UJ-B(+) | CCB contamination (30.6 µg/L) | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 005 (Continued) | 9307L288 | MND28-0999-0006 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | As = UJ-B(-) | Negative PB value (-0.54 mg/kg) | Potential false negative |
| | | | As = UJ-I(+) | Post-digestion spike recovery > 115% (120.5%) | Potential inaccuracy |
| | | | Se = UJ-B(-) | Negative CCB value (-1.0 µg/L) | Potential false negative |
| | | | Na = J-B(-) | Negative PB value (-11.04 mg/kg) | Possible low bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.26 mg/kg) | Potential false negative |
| | | | V = J-B(-) | Negative PB value (-1.85 mg/kg) | Possible low bias |
| 006 | 9308L432 | MND28-1001-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Al = J-I(-) | ICP serial dilution %D > 10 (18.0%) | Potential inaccuracy |
| | | | Se = J-B(-) | Negative ICB (-1.0 µg/L) and CCB (-1.1 µg/L) values | Possible low bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.26 mg/kg) | Potential false negative |
| | | | Li = UJ-B(+) | RB (14.6 µg/L), ICB (10.9 µg/L), and CCB (10.9 µg/L) contamination | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 006 (Continued) | 9308L432 (Continued) | MND28-1001-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Al = J-I(-) | ICP serial dilution %D > 10 (18.0%) | Potential inaccuracy |
| | | | Se = UJ-B(-) | Negative ICB (-1.0 μg/L) and CCB (-1.1 μg/L) values | Possible low bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.26 mg/kg) | Possible low bias |
| | | | Li = UJ-B(+) | RB (14.6 μg/L), ICB (10.9 μg/L), and CCB (10.9 μg/L) contamination | Possible high bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |
| | | | Sn = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 006 (Continued) | 9308L432 (Continued) | MND28-1002-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Al = J-I(-) | ICP serial dilution %D > 10 (18.0%) | Potential inaccuracy |
| | | | Se = J-B(-) | Negative ICB (-1.0 µg/L) and CCB (-1.1 µg/L) values | Possible low bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.26 mg/kg) | Potential false negative |
| | | | Li = UJ-B(+) | RB (14.6 µg/L), ICB (10.9 µg/L), and CCB (10.9 µg/L) contamination | Possible high bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |
| | | MND28-1002-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Al = J-I(-) | ICP serial dilution %D > 10 (18.0%) | Potential inaccuracy |
| | | | Se = UJ-B(-) | Negative ICB (-1.0 µg/L) and CCB (-1.1 µg/L) values | Potential false negative |
| | | | Tl = UJ-B(-) | Negative PB value (-0.26 mg/kg) | Potential false negative |
| | | | Li = UJ-B(+) | RB (14.6 µg/L), ICB (10.9 µg/L), and CCB (10.9 µg/L) contamination | Possible high bias |
| | | | Bi = UJ-B(+) | ICB contamination (143.3 µg/L) | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 006 (Continued) | 9308L432 (Continued) | MND28-1003-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Al = J-I(-) | ICP serial dilution %D > 10 (18.0%) | Potential inaccuracy |
| | | | Se = UJ-B(-) | Negative ICB (-1.0 µg/L) and CCB (-1.1 µg/L) values | Potential false negative |
| | | | Tl = UJ-B(-) | Negative PB value (-0.26 mg/kg) | Potential false negative |
| | | | Li = UJ-B(+) | RB (14.6 µg/L), ICB (10.9 µg/L), and CCB (10.9 µg/L) contamination | Possible high bias |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |
| | | MND28-1003-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Al = J-I(-) | ICP serial dilution %D > 10 (18.0%) | Potential inaccuracy |
| | | | Se = UJ-B(-) | Negative ICB (-1.0 µg/L) and CCB (-1.1 µg/L) values | Potential false negative |
| | | | Tl = UJ-B(-) | Negative PB value (-0.26 mg/kg) | Potential false negative |
| | | | Li = UJ-B(+) | RB (14.6 µg/L), ICB (10.9 µg/L), and CCB (10.9 µg/L) contamination | Possible high bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |
| | | | Bi = UJ-B(+) | ICB contamination (143.3 µg/L) | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 006 (Continued) | 9308L432 (Continued) | MND28-1003-1001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Al = J-I(-) | ICP serial dilution %D > 10 (18.0%) | Potential inaccuracy |
| | | | Se = UJ-B(-) | Negative ICB (-1.0 µg/L) and CCB (-1.1 µg/L) values | Potential false negative |
| | | | Tl = UJ-B(-) | Negative PB value (-0.26 mg/kg) | Potential false negative |
| | | | Li = UJ-B(+) | RB (14.6 µg/L), ICB (10.9 µg/L), and CCB (10.9 µg/L) contamination | Possible high bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |
| | | | Sn = J-I(+) | ICS interference | Potential false positive |
| | | MND28-1003-4001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Ca = UJ-B(+) | ICB contamination (25.0 µg/L) | Possible high bias |
| | | | Pb = UJ-I(+) | Post-digestion spike recovery > 115% (150%) | Potential inaccuracy |
| | | | Se = UJ-I(+) | Post-digestion spike recovery > 115% (130%) | Potential inaccuracy |
| | | | Tl = UJ-B(-) | Negative PB (-2.2 µg/L), ICB (-2.3 µg/L), and CCB (-1.9 µg/L) values | Potential false negative |
| | | | Li = UJ-B(+) | PB (14.6 µg/L), ICB (14.6 µg/L), and CCB (14.6 µg/L) contamination | Possible high bias |
| | | | Bi = UJ-B(-) | Negative ICB value (-139.2 µg/L) | Potential false negative |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 007 | 9308L433 | MND28-1007-0001 | Al = J-I(-) | ICP serial dilution %D > 10% (18%) | Potential inaccuracy |
| | | | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-B(-) | Negative CCB value (-2.3 µg/L) | Potential false negative |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | Se = UJ-B(-) | Negative CCB value (-1.0 µg/L) | Potential false negative |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative ICB (-1.8 µg/L) and CCB (-1.8 µg/L) values | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (80%) | Potential inaccuracy |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 007 (Continued) | 9308L433 (Continued) | MND28-1007-0002 | Al = J-I(-) | ICP serial dilution %D > 10% (18%) | Potential inaccuracy |
| | | | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-B(-) | Negative CCB value (-2.3 µg/L) | Potential false negative |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | Se = UJ-B(-) | Negative CCB value (-1.0 µg/L) | Potential false negative |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative ICB (-1.8 µg/L) and CCB (-1.8 µg/L) values | Potential false negative |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 007 (Continued) | 9308L433 (Continued) | MND28-1008-0001 | Al = J-I(-) | ICP serial dilution %D > 10% (18%) | Potential inaccuracy |
| | | | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = J-B(-) | Negative CCB value (-2.3 µg/L) | Possible low bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Se = UJ-B(-) | Negative CCB value (-1.0 µg/L) | Potential false negative |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative ICB (-1.8 µg/L) and CCB (-1.8 µg/L) values | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (83.5%) | Potential inaccuracy |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 007 (Continued) | 9308L433 (Continued) | MND28-1008-0002 | Al = J-I(-) | ICP serial dilution %D > 10% (18%) | Potential inaccuracy |
| | | | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = J-B(-) | Negative CCB value (-2.3 µg/L) | Possible low bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | Se = UJ-B(-) | Negative CCB value (-1.0 µg/L) | Potential false negative |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative ICB (-1.8 µg/L) and CCB (-1.8 µg/L) values | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (81.5%) | Potential inaccuracy |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |
| | | | Sn = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 007 (Continued) | 9308L433 (Continued) | MND28-1009-0001 | Al = J-I(-) | ICP serial dilution %D > 10% (18%) | Potential inaccuracy |
| | | | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-B(-) | Negative CCB value (-2.3 µg/L) | Potential false negative |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Cu = J-I(-) | ICS interference | Possible low bias |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | Se = UJ-B(-) | Negative CCB value (-1.0 µg/L) | Potential false negative |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative ICB (-1.8 µg/L) and CCB (-1.8 µg/L) values | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (78%) | Potential inaccuracy |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 007 (Continued) | 9308L433 (Continued) | MND28-1009-0002 | Al = J-I(-) | ICP serial dilution %D > 10% (18%) | Potential inaccuracy |
| | | | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Sb = R-S | MS recovery < 75% (6.7%) | Result is unusable |
| | | | As = J-S(-) | MS recovery < 75% (52.2%) | Possible low bias (by 1.9 X) |
| | | | Cd = UJ-B(-) | Negative CCB value (-2.3 µg/L) | Potential false negative |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Se = UJ-B(-) | Negative CCB value (-1.0 µg/L) | Potential false negative |
| | | | Se = UJ-S(-) | MS recovery < 75% (67.1%) | Possible low bias (by 1.5 X) |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (83%) | Potential inaccuracy |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative ICB (-1.8 µg/L) and CCB (-1.8 µg/L) values | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (77.5%) | Potential inaccuracy |
| | | | Tl = UJ-S(-) | MS recovery < 75% (66.8%) | Possible low bias (by 1.5 X) |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 007 (Continued) | 9308L433 (Continued) | MND28-1009-1001 | Al = J-I(-) | ICP serial dilution %D > 10% (18%) | Potential inaccuracy |
| | | | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Se = UJ-B(-) | Negative CCB value (-1.0 µg/L) | Potential false negative |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative ICB (-1.8 µg/L) and CCB (-1.8 µg/L) values | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (68%) | Potential inaccuracy |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 007 (Continued) | 9308L433 (Continued) | MND28-1009-4002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Ca = UJ-B(+) | ICB contamination (25 µg/L) | Possible high bias |
| | | | Pb = UJ-I(+) | Post-digestion spike recovery > 115% (144%) | Potential inaccuracy |
| | | | Se = UJ-B(-) | Negative CCB value (-1.0 µg/L) | Potential false negative |
| | | | Se = UJ-I(+) | Post-digestion spike recovery > 115% (121%) | Potential inaccuracy |
| | | | Tl = UJ-B(-) | Negative ICB value (-2.3 µg/L) | Potential false negative |
| | | | Li = UJ-B(+) | PB, ICB, and CCB contamination (14.6 µg/L) | Possible high bias |
| | | | Bi = UJ-B(-) | Negative ICB value (-139 µg/L) | Potential false negative |
| | | | Bi = UJ-I(+) | ICS interference | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 007 (Continued) | 9308L455 | MND28-1010-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | As = J-B(-) | Negative CCB value (-2.4 µg/L) | Possible low bias |
| | | | Ca = J-I(-) | ICP serial dilution %D > 10% (12.2%) | Potential inaccuracy |
| | | | Fe = J-I(-) | ICP serial dilution %D > 10% (10.9%) | Potential inaccuracy |
| | | | Mg = J-I(-) | ICP serial dilution %D > 10% (14.1%) | Potential inaccuracy |
| | | | Mn = J-I(-) | ICP serial dilution %D > 10% (10.3%) | Potential inaccuracy |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative ICB value (-3.0 µg/L) | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (73.5%) | Potential inaccuracy |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Li = UJ-B(+) | CCB contamination (12.2 µg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 007 (Continued) | 9308L455 (Continued) | MND28-1010-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Ca = J-I(-) | ICP serial dilution %D > 10% (12.2%) | Potential inaccuracy |
| | | | Fe = J-I(-) | ICP serial dilution %D > 10% (10.9%) | Potential inaccuracy |
| | | | Mg = J-I(-) | ICP serial dilution %D > 10% (14.1%) | Potential inaccuracy |
| | | | Mn = J-I(-) | ICP serial dilution %D > 10% (10.3%) | Potential inaccuracy |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative ICB value (-3 µg/L) | Potential false negative |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |
| | | MND28-1011-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | As = J-B(-) | Negative CCB value (-2.5 µg/L) | Possible low bias |
| | | | Ca = J-I(-) | ICP serial dilution %D > 10% (12.2%) | Potential inaccuracy |
| | | | Fe = J-I(-) | ICP serial dilution %D > 10% (10.9%) | Potential inaccuracy |
| | | | Pb = J-I(+) | Post-digestion spike recovery > 115% (116.5%) | Potential inaccuracy |
| | | | Mg = J-I(-) | ICP serial dilution %D > 10% (14.1%) | Potential inaccuracy |
| | | | Mn = J-I(-) | ICP serial dilution %D > 10% (10.3%) | Potential inaccuracy |
| | | | Tl = UJ-B(-) | Negative ICB value (-3.0 µg/L) | Potential false negative |
| | | | Li = UJ-B(+) | CCB contamination (12.2 µg/L) | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 007 (Continued) | 9308L455 (Continued) | MND28-1011-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Ca = J-I(-) | ICP serial dilution %D > 10% (12.2%) | Potential inaccuracy |
| | | | Fe = J-I(-) | ICP serial dilution %D > 10% (10.9%) | Potential inaccuracy |
| | | | Mg = J-I(-) | ICP serial dilution %D > 10% (14.1%) | Potential inaccuracy |
| | | | Mn = J-I(-) | ICP serial dilution %D > 10% (10.3%) | Potential inaccuracy |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative ICB value (-3 µg/L) | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (82.5%) | Potential inaccuracy |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 008 | 9308L454 | MND28-1012-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Sb = R-S | MS recovery < 75% (12.3%) | Result is unusable |
| | | | As = J-S(-) | MS recovery < 75% (67.2%) | Possible low bias (by 1.5 X) |
| | | | Ca = J-I(-) | ICP serial dilution %D > 10% (12.2%) | Potential inaccuracy |
| | | | Fe = J-I(-) | ICP serial dilution %D > 10% (10.9%) | Potential inaccuracy |
| | | | Pb = J-S(+) | MS recovery > 125% (234.9%) | Probable high bias (by 2.3 X) |
| | | | Mg = J-I(-) | ICP serial dilution %D > 10% (14.1%) | Potential inaccuracy |
| | | | Mn = J-I(-) | ICP serial dilution %D > 10% (10.3%) | Potential inaccuracy |
| | | | Se = UJ-S(-) | MS recovery < 75% (63.1%) | Possible low bias (by 1.6 X) |
| | | | Na = UJ-B(+) | RB contamination (134 μg/L) | Possible high bias |
| | | | Tl = UJ-B(-) | Negative ICB value (-3 μg/L) | Potential false negative |
| | | | Tl = J-S(-) | MS recovery < 75% (62.8%) | Possible low bias (by 1.6 X) |
| | | | Tl = J-I(-) | Post-digestion spike recovery < 85% (83%) | Potential inaccuracy |
| | | | Zn = UJ-B(+) | RB contamination (51.7 μg/L) | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 008 (Continued) | 9308L454 (Continued) | MND28-1012-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-I(-) | ICS interference | Potential false negative |
| | | | Ca = J-I(-) | ICP serial dilution %D > 10% (12.2%) | Potential inaccuracy |
| | | | Fe = J-I(-) | ICP serial dilution %D > 10% (10.9%) | Potential inaccuracy |
| | | | Pb = J-I(+) | Post-digestion spike recovery > 115% (122%) | Potential inaccuracy |
| | | | Mg = J-I(-) | ICP serial dilution %D > 10% (14.1%) | Potential inaccuracy |
| | | | Mn = J-I(-) | ICP serial dilution %D > 10% (10.3%) | Potential inaccuracy |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (84%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | RB contamination (134 µg/L) | Possible high bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative ICB value (-3 µg/L) | Potential false negative |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 008 (Continued) | 9308L454 (Continued) | MND28-1013-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-I(-) | ICS interference | Potential false negative |
| | | | Ca = J-I(-) | ICP serial dilution %D > 10% (12.2%) | Potential inaccuracy |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Fe = J-I(-) | ICP serial dilution %D > 10% (10.9%) | Potential inaccuracy |
| | | | Mg = J-I(-) | ICP serial dilution %D > 10% (14.1%) | Potential inaccuracy |
| | | | Mn = J-I(-) | ICP serial dilution %D > 10% (10.3%) | Potential inaccuracy |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | Na = UJ-B(+) | RB contamination (134 µg/L) | Possible high bias |
| | | | Na = UJ-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative ICB value (-3 µg/L) | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (69%) | Potential inaccuracy |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | | Sn = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 008 (Continued) | 9308L454 (Continued) | MND28-1013-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-I(-) | ICS interference | Potential false negative |
| | | | Ca = J-I(-) | ICP serial dilution %D > 10% (12.2%) | Potential inaccuracy |
| | | | Cr = J-I(-) | ICS interference | Possible low bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Cu = J-I(-) | ICS interference | Possible low bias |
| | | | Fe = J-I(-) | ICP serial dilution %D > 10% (10.9%) | Potential inaccuracy |
| | | | Pb = J-I | MSA correlation coefficient < 0.995 (0.9807/0.9793) | Potential inaccuracy |
| | | | Mg = J-I(-) | ICP serial dilution %D > 10% (14.1%) | Potential inaccuracy |
| | | | Mn = J-I(-) | ICP serial dilution %D > 10% (10.3%) | Potential inaccuracy |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative ICB value (-3 µg/L) | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (81.5%) | Potential inaccuracy |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | | Sn = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 008 (Continued) | 9308L454 (Continued) | MND28-1014-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-I(-) | ICS interference | Potential false negative |
| | | | Ca = J-I(-) | ICP serial dilution %D > 10% (12.2%) | Potential inaccuracy |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Fe = J-I(-) | ICP serial dilution %D > 10% (10.9%) | Potential inaccuracy |
| | | | Mg = J-I(-) | ICP serial dilution %D > 10% (14.1%) | Potential inaccuracy |
| | | | Mn = J-I(-) | ICP serial dilution %D > 10% (10.3%) | Potential inaccuracy |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | Na = UJ-B(+) | RB contamination (134 µg/L) | Possible high bias |
| | | | Na = UJ-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative ICB value (-3 µg/L) | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (80.5%) | Potential inaccuracy |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Zn = UJ-B(+) | RB contamination (51.7 µg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 008 (Continued) | 9308L454 (Continued) | MND28-1014-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-I(-) | ICS interference | Potential false negative |
| | | | Ca = J-I(-) | ICP serial dilution %D > 10% (12.2%) | Potential inaccuracy |
| | | | Cr = J-I(-) | ICS interference | Possible low bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Cu = J-I(-) | ICS interference | Possible low bias |
| | | | Fe = J-I(-) | ICP serial dilution %D > 10% (10.9%) | Potential inaccuracy |
| | | | Mg = J-I(-) | ICP serial dilution %D > 10% (14.1%) | Potential inaccuracy |
| | | | Mn = J-I(-) | ICP serial dilution %D > 10% (10.3%) | Potential inaccuracy |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | Na = UJ-B(+) | RB contamination (134 µg/L) | Possible high bias |
| | | | Na = UJ-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative ICB value (-3 µg/L) | Potential false negative |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Zn = UJ-B(+) | RB contamination (51.7 µg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | | Sn = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 008 (Continued) | 9308L454 (Continued) | MND28-1015-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-I(-) | ICS interference | Potential false negative |
| | | | Ca = J-I(-) | ICP serial dilution %D > 10% (12.2%) | Potential inaccuracy |
| | | | Cr = J-I(-) | ICS interference | Possible low bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Fe = J-I(-) | ICP serial dilution %D > 10% (10.9%) | Potential inaccuracy |
| | | | Mg = J-I(-) | ICP serial dilution %D > 10% (14.1%) | Potential inaccuracy |
| | | | Mn = J-I(-) | ICP serial dilution %D > 10% (10.3%) | Potential inaccuracy |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | Na = UJ-B(+) | RB contamination (134 µg/L) | Possible high bias |
| | | | Na = UJ-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative ICB value (-3 µg/L) | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (81%) | Potential inaccuracy |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Zn = UJ-B(+) | RB contamination (51.7 µg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 008 (Continued) | 9308L454 (Continued) | MND28-1015-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-I(-) | ICS interference | Potential false negative |
| | | | Ca = J-I(-) | ICP serial dilution %D > 10% (12.2%) | Potential inaccuracy |
| | | | Cr = J-I(-) | ICS interference | Possible low bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Cu = J-I(-) | ICS interference | Possible low bias |
| | | | Fe = J-I(-) | ICP serial dilution %D > 10% (10.9%) | Potential inaccuracy |
| | | | Mg = J-I(-) | ICP serial dilution %D > 10% (14.1%) | Potential inaccuracy |
| | | | Mn = J-I(-) | ICP serial dilution %D > 10% (10.3%) | Potential inaccuracy |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | Na = UJ-B(+) | RB contamination (134 µg/L) | Possible high bias |
| | | | Na = UJ-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative ICB value (-3 µg/L) | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (67%) | Potential inaccuracy |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Zn = UJ-B(+) | RB contamination (51.7 µg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | | Sn = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 008 (Continued) | 9308L454 (Continued) | MND28-1015-1001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cd = UJ-B(+) | RB contamination (56 µg/L) | Possible high bias |
| | | | Cd = UJ-I(-) | ICS interference | Possible low bias |
| | | | Ca = J-I(-) | ICP serial dilution %D > 10% (12.2%) | Potential inaccuracy |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Fe = J-I(-) | ICP serial dilution %D > 10% (10.9%) | Potential inaccuracy |
| | | | Mg = J-I(-) | ICP serial dilution %D > 10% (14.1%) | Potential inaccuracy |
| | | | Mn = J-I(-) | ICP serial dilution %D > 10% (10.3%) | Potential inaccuracy |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | Na = UJ-B(+) | RB contamination (134 µg/L) | Possible high bias |
| | | | Na = UJ-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative ICB value (-3 µg/L) | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (82%) | Potential inaccuracy |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Zn = UJ-B(+) | RB contamination (51.7 µg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | | Sn = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 008 (Continued) | 9308L454 (Continued) | MND28-1015-4001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | K = UJ-B(-) | Negative CCB value (-457.8 µg/L) | Potential false negative |
| | | | Tl = UJ-B(-) | Negative ICB value (-2.6 µg/L) | Potential false negative |
| | | | Li = UJ-B(-) | Negative ICB and CCB values (-10.7 µg/L) | Potential false negative |
| | 9308L467 | MND28-1025-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Ba = J-I(-) | ICP serial dilution %D > 10% (17.6%) | Potential inaccuracy |
| | | | Ca = J-I(+) | ICP serial dilution %D > 10% (12.1%) | Potential inaccuracy |
| | | | Fe = J-I(-) | ICP serial dilution %D > 10% (16.9%) | Potential inaccuracy |
| | | | Mg = J-I(+) | ICP serial dilution %D > 10% (13.4%) | Potential inaccuracy |
| | | | Mn = J-I(-) | ICP serial dilution %D > 10% (33.8%) | Potential inaccuracy |
| | | | K = J-B(-) | Negative CCB value (-560.9 µg/L) | Possible low bias |
| | | | Se = UJ-B(+) | PB contamination (0.7 mg/kg) | Possible high bias |
| | | | Tl = UJ-B(-) | Negative ICB value (-3.1 µg/L) | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (83.5%) | Potential inaccuracy |
| | | | Li = UJ-B(+) | CCB contamination (45.7 µg/L) | Possible high bias |
| | | | Li = J-C(+) | CCV standard %R > 110% (111.8%) | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 008 (Continued) | 9308L467 (Continued) | MND28-1025-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Ba = J-I(-) | ICP serial dilution %D > 10% (17.6%) | Potential inaccuracy |
| | | | Cd = J-I(-) | ICS interference | Possible low bias |
| | | | Ca = J-I(+) | ICP serial dilution %D > 10% (12.1%) | Potential inaccuracy |
| | | | Cr = J-I(-) | ICS interference | Possible low bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Cu = J-I(-) | ICS interference | Possible low bias |
| | | | Fe = J-I(-) | ICP serial dilution %D > 10% (16.9%) | Potential inaccuracy |
| | | | Mg = J-I(+) | ICP serial dilution %D > 10% (13.4%) | Potential inaccuracy |
| | | | Mn = J-I(-) | ICP serial dilution %D > 10% (33.8%) | Potential inaccuracy |
| | | | K = J-B(-) | Negative CCB value (-560.9 µg/L) | Possible low bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative ICB value (-3.1 µg/L) | Potential false negative |
| | | | Li = UJ-B(+) | CCB contamination (45.7 µg/L) | Possible high bias |
| | | | Li = J-C(+) | CCV standard %R > 110% (111.8%) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 009 | 9308L468 | MND28-1022-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Ba = J-I(-) | ICP serial dilution %D > 10% (17.6%) | Potential inaccuracy |
| | | | Ca = J-I(+) | ICP serial dilution %D > 10% (12.1%) | Potential inaccuracy |
| | | | Cr = J-I(-) | ICS interference | Possible low bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Fe = J-I(-) | ICP serial dilution %D > 10% (16.9%) | Potential inaccuracy |
| | | | Mg = J-I(+) | ICP serial dilution %D > 10% (13.4%) | Potential inaccuracy |
| | | | Mn = J-I(-) | ICP serial dilution %D > 10% (33.8%) | Potential inaccuracy |
| | | | K = J-B(-) | Negative CCB value (-560 µg/L) | Possible low bias |
| | | | Na = UJ-B(+) | RB contamination (335 µg/L) | Possible high bias |
| | | | Na = UJ-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.62 mg/kg) | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (79.5%) | Potential inaccuracy |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Zn = UJ-B(+) | RB contamination (117 µg/L) | Possible high bias |
| | | | Li = UJ-B(+) | PB contamination (4.58 mg/kg) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |
| | | | Sn = J-I(-) | ICS interference | Possible low bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 009 (Continued) | 9308L468 (Continued) | MND28-1022-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Ba = J-I(-) | ICP serial dilution %D > 10% (17.6%) | Potential inaccuracy |
| | | | Cd = UJ-I(-) | ICS interference | Potential false negative |
| | | | Ca = J-I(+) | ICP serial dilution %D > 10% (12.1%) | Potential inaccuracy |
| | | | Cr = J-I(-) | ICS interference | Possible low bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Cu = J-I(+) | ICS interference | Possible high bias |
| | | | Fe = J-I(-) | ICP serial dilution %D > 10% (16.9%) | Potential inaccuracy |
| | | | Mg = J-I(+) | ICP serial dilution %D > 10% (13.4%) | Potential inaccuracy |
| | | | Mn = J-I(-) | ICP serial dilution %D > 10% (33.8%) | Potential inaccuracy |
| | | | K = J-B(-) | Negative CCB value (-560 µg/L) | Possible low bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (77%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | RB contamination (335 µg/L) | Possible high bias |
| | | | Na = UJ-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.62 mg/kg) | Potential false negative |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Zn = UJ-B(+) | RB contamination (117 µg/L) | Possible high bias |
| | | | Zn = J-I(+) | ICS interference | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 009 (Continued) | 9308L468 (Continued) | MND28-1022-0002 (Continued) | Li = UJ-B(+) | PB contamination (4.58 mg/kg) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |
| | | | Sn = J-I(-) | ICS interference | Possible low bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 009 (Continued) | 9308L468 (Continued) | MND28-1023-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Ba = J-I(-) | ICP serial dilution %D > 10% (17.6%) | Potential inaccuracy |
| | | | Cd = UJ-B(+) | CCB contamination (2.4 µg/L) | Possible high bias |
| | | | Ca = J-I(+) | ICP serial dilution %D > 10% (12.1%) | Potential inaccuracy |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Fe = J-I(-) | ICP serial dilution %D > 10% (16.9%) | Potential inaccuracy |
| | | | Mg = J-I(+) | ICP serial dilution %D > 10% (13.4%) | Potential inaccuracy |
| | | | Mn = J-I(-) | ICP serial dilution %D > 10% (33.8%) | Potential inaccuracy |
| | | | K = J-B(-) | Negative CCB value (-560 µg/L) | Possible low bias |
| | | | Na = UJ-B(+) | RB contamination (335 µg/L) | Possible high bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.62 mg/kg) | Potential false negative |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Zn = UJ-B(+) | RB contamination (117 µg/L) | Possible high bias |
| | | | Li = UJ-B(+) | PB contamination (4.58 mg/kg) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |
| | | | Sn = UJ-I(-) | ICS interference | Potential false negative |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 009 (Continued) | 9308L468 (Continued) | MND28-1023-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Ba = J-I(-) | ICP serial dilution %D > 10% (17.6%) | Potential inaccuracy |
| | | | Ca = J-I(+) | ICP serial dilution %D > 10% (12.1%) | Potential inaccuracy |
| | | | Cr = J-I(-) | ICS interference | Possible low bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Cu = UJ-B(+) | RB contamination (12 µg/L) | Possible high bias |
| | | | Cu = J-I(+) | ICS interference | Possible high bias |
| | | | Fe = J-I(-) | ICP serial dilution %D > 10% (16.9%) | Potential inaccuracy |
| | | | Mg = J-I(+) | ICP serial dilution %D > 10% (13.4%) | Potential inaccuracy |
| | | | Mn = J-I(-) | ICP serial dilution %D > 10% (33.8%) | Potential inaccuracy |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | K = J-B(-) | Negative CCB value (-560 µg/L) | Possible low bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (69%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | RB contamination (335 µg/L) | Possible high bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.62 mg/kg) | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (82%) | Potential inaccuracy |
| | | | V = J-I(+) | ICS interference | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 009 (Continued) | 9308L468 (Continued) | MND28-1023-0002 (Continued) | Zn = UJ-B(+) | RB contamination (117 µg/L) | Possible high bias |
| | | | Li = UJ-B(+) | PB contamination (4.58 mg/kg) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | | Sn = J-I(-) | ICS interference | Possible low bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 009 (Continued) | 9308L468 (Continued) | MND28-1024-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | As = J-I | MSA correlation coefficient < 0.995 | Potential inaccuracy |
| | | | Ba = J-I(-) | ICP serial dilution %D > 10% (17.6%) | Potential inaccuracy |
| | | | Ca = J-I(+) | ICP serial dilution %D > 10% (12.1%) | Potential inaccuracy |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Fe = J-I(-) | ICP serial dilution %D > 10% (16.9%) | Potential inaccuracy |
| | | | Mg = J-I(+) | ICP serial dilution %D > 10% (13.4%) | Potential inaccuracy |
| | | | Mn = J-I(-) | ICP serial dilution %D > 10% (33.8%) | Potential inaccuracy |
| | | | K = J-B(-) | Negative CCB value (-560 µg/L) | Possible low bias |
| | | | Na = UJ-B(+) | RB contamination (335 µg/L) | Possible high bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.62 mg/kg) | Potential false negative |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Zn = UJ-B(+) | RB contamination (117 µg/L) | Possible high bias |
| | | | Li = UJ-B(+) | PB contamination (4.58 mg/kg) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |
| | | | Sn = UJ-I(-) | ICS interference | Potential false negative |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 009 (Continued) | 9308L468 (Continued) | MND28-1024-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Ba = J-I(-) | ICP serial dilution %D > 10% (17.6%) | Potential inaccuracy |
| | | | Ca = J-I(+) | ICP serial dilution %D > 10% (12.1%) | Potential inaccuracy |
| | | | Cr = J-I(-) | ICS interference | Possible low bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Cu = J-I(+) | ICS interference | Possible high bias |
| | | | Fe = J-I(-) | ICP serial dilution %D > 10% (16.9%) | Potential inaccuracy |
| | | | Mg = J-I(+) | ICP serial dilution %D > 10% (13.4%) | Potential inaccuracy |
| | | | Mn = J-I(-) | ICP serial dilution %D > 10% (33.8%) | Potential inaccuracy |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | K = J-B(-) | Negative CCB value (-560 µg/L) | Possible low bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (79%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | RB contamination (335 µg/L) | Possible high bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.62 mg/kg) | Potential false negative |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Zn = UJ-B(+) | RB contamination (117 µg/L) | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 009 (Continued) | 9308L468 (Continued) | MND28-1024-0002 (Continued) | Li = UJ-B(+) | PB contamination (4.58 mg/kg) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | | Sn = J-I(-) | ICS interference | Possible low bias |
| | | MND28-1024-4002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Pb = UJ-I(+) | Post-digestion spike recovery > 115% (117%) | Potential inaccuracy |
| | | | K = UJ-B(-) | Negative CCB value (-457.8 µg/L) | Potential false negative |
| | | | Tl = UJ-B(-) | Negative PB value (-1.1 µg/L) | Potential false negative |
| | | | Li = UJ-B(-) | Negative PB, ICB, and CCB values (-10.7 µg/L) | Potential false negative |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 009 (Continued) | 9308L468 (Continued) | MND28-1026-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | As = J-S(-) | MS recovery < 75% (72.2%) | Possible low bias (by 1.4 X) |
| | | | Ba = J-I(-) | ICP serial dilution %D > 10% (17.6%) | Potential inaccuracy |
| | | | Ca = J-I(+) | ICP serial dilution %D > 10% (12.1%) | Potential inaccuracy |
| | | | Fe = J-I(-) | ICP serial dilution %D > 10% (16.9%) | Potential inaccuracy |
| | | | Pb = R-S(-) | Negative MS recovery (-12.6%) | Result is unusable |
| | | | Mg = J-I(+) | ICP serial dilution %D > 10% (13.4%) | Potential inaccuracy |
| | | | Mn = J-I(-) | ICP serial dilution %D > 10% (33.8%) | Potential inaccuracy |
| | | | Se = UJ-S(-) | MS recovery < 75% (47%) | Possible low bias (by 2.1 X) |
| | | | Na = UJ-B(+) | RB contamination (335 µg/L) | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.62 mg/kg) | Potential false negative |
| | | | Zn = UJ-B(+) | RB contamination (117 µg/L) | Possible high bias |
| | | | Li = UJ-B(+) | PB contamination (4.58 mg/kg) | Possible high bias |
| | | | Bi = UJ-Q | Significant difference between initial spike recovery and redigest/rerun spike recovery | Potential inaccuracy |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 009 (Continued) | 9308L468 (Continued) | MND28-1026-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Ba = J-I(-) | ICP serial dilution %D > 10% (17.6%) | Potential inaccuracy |
| | | | Ca = J-I(+) | ICP serial dilution %D > 10% (12.1%) | Potential inaccuracy |
| | | | Cr = J-I(-) | ICS interference | Possible low bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Cu = J-I(+) | ICS interference | Possible high bias |
| | | | Fe = J-I(-) | ICP serial dilution %D > 10% (16.9%) | Potential inaccuracy |
| | | | Mg = J-I(+) | ICP serial dilution %D > 10% (13.4%) | Potential inaccuracy |
| | | | Mn = J-I(-) | ICP serial dilution %D > 10% (33.8%) | Potential inaccuracy |
| | | | K = J-B(-) | Negative CCB value (-560 µg/L) | Possible low bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (66%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | RB contamination (335 µg/L) | Possible high bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.62 mg/kg) | Potential false negative |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Zn = UJ-B(+) | RB contamination (117 µg/L) | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 009 (Continued) | 9308L468 (Continued) | MND28-1026-0002 (Continued) | Li = UJ-B(+) | PB contamination (4.58 mg/kg) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |
| | | | Sn = J-I(-) | ICS interference | Possible low bias |
| | | MND28-1027-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Ba = J-I(-) | ICP serial dilution %D > 10% (17.6%) | Potential inaccuracy |
| | | | Cd = UJ-B(+) | RB contamination (178 µg/L) | Possible high bias |
| | | | Ca = J-I(+) | ICP serial dilution %D > 10% (12.1%) | Potential inaccuracy |
| | | | Fe = J-I(-) | ICP serial dilution %D > 10% (16.9%) | Potential inaccuracy |
| | | | Pb = J-D | Field duplicate RPD > 35% (52%) | Potential inaccuracy |
| | | | Mg = J-I(+) | ICP serial dilution %D > 10% (13.4%) | Potential inaccuracy |
| | | | Mn = J-I(-) | ICP serial dilution %D > 10% (33.8%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | RB contamination (335 µg/L) | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.62 mg/kg) | Potential false negative |
| | | | Zn = UJ-B(+) | RB contamination (117 µg/L) | Possible high bias |
| | | | Li = UJ-B(+) | PB contamination (4.58 mg/kg) | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 009 (Continued) | 9308L468 (Continued) | MND28-1027-1001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Ba = J-I(-) | ICP serial dilution %D > 10% (17.6%) | Potential inaccuracy |
| | | | Ca = J-I(+) | ICP serial dilution %D > 10% (12.1%) | Potential inaccuracy |
| | | | Fe = J-I(-) | ICP serial dilution %D > 10% (16.9%) | Potential inaccuracy |
| | | | Pb = J-D | Field duplicate RPD > 35% (52%) | Potential inaccuracy |
| | | | Mg = J-I(+) | ICP serial dilution %D > 10% (13.4%) | Potential inaccuracy |
| | | | Mn = J-I(-) | ICP serial dilution %D > 10% (33.8%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | RB contamination (335 µg/L) | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.62 mg/kg) | Potential false negative |
| | | | Zn = UJ-B(+) | RB contamination (117 µg/L) | Possible high bias |
| | | | Li = UJ-B(+) | PB contamination (4.58 mg/kg) | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 009 (Continued) | 9308L468 (Continued) | MND28-1027-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Ba = J-I(-) | ICP serial dilution %D > 10% (17.6%) | Potential inaccuracy |
| | | | Cd = UJ-B(+) | RB contamination (178 µg/L) | Possible high bias |
| | | | Ca = J-I(+) | ICP serial dilution %D > 10% (12.1%) | Potential inaccuracy |
| | | | Cr = J-I(-) | ICS interference | Possible low bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Cu = J-I(+) | ICS interference | Possible high bias |
| | | | Fe = J-I(-) | ICP serial dilution %D > 10% (16.9%) | Potential inaccuracy |
| | | | Mg = J-I(+) | ICP serial dilution %D > 10% (13.4%) | Potential inaccuracy |
| | | | Mn = J-I(-) | ICP serial dilution %D > 10% (33.8%) | Potential inaccuracy |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (84%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | RB contamination (335 µg/L) | Possible high bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative PB value (-0.62 mg/kg) | Potential false negative |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Zn = UJ-B(+) | RB contamination (117 µg/L) | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 009 (Continued) | 9308L468 (Continued) | MND28-1027-0002 (Continued) | Li = UJ-B(+) | PB contamination (4.58 mg/kg) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | | Sn = J-I(-) | ICS interference | Possible low bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 010 | 9308L489 | MND28-1043-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Sb = R-S | MS recovery < 75% (12%) | Result is unusable |
| | | | As = J-S(-) | MS recovery < 75% (69.3%) | Possible low bias (by 1.4 X) |
| | | | Cr = J-I(-) | ICS interference | Possible low bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Cu = J-I(-) | ICS interference | Possible low bias |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | Se = UJ-B(+) | PB (0.48 mg/kg) and RB (1.9 µg/L) contamination | Possible high bias |
| | | | Se = J-S(-) | MS recovery < 75% (50%) | Possible low bias (by 2 X) |
| | | | Se = J-I(-) | Post-digestion spike recovery < 85% (73%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | PB (40.096 mg/kg) and RB (191 µg/L) contamination | Possible high bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative CCB value (-2.5 µg/L) | Potential false negative |
| | | | Tl = UJ-S(-) | MS recovery < 75% (67.8%) | Possible low bias (by 1.5 X) |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (72%) | Potential inaccuracy |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | V = J-D | Lab duplicate RPD > 35% (51.4%) | Potential inaccuracy |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 010 (Continued) | 9308L489 (Continued) | MND28-1043-0001 (Continued) | Zn = J-D | Lab duplicate RPD > 35% (45.7%) | Potential inaccuracy |
| | | | Li = J-L(+) | Amount detected in LCS > 1200 µg/L (2116 & 2162 µg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | | Sn = UJ-B(+) | PB contamination (4.3 mg/kg) | Possible high bias |
| | | | Sn = UJ-I(-) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 010 (Continued) | 9308L489 (Continued) | MND28-1044-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cr = J-I(-) | ICS interference | Possible low bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Cu = J-I(-) | ICS interference | Possible low bias |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | Se = UJ-B(+) | PB (0.48 mg/kg) and RB (1.9 µg/L) contamination | Possible high bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (73%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | PB (40.096 mg/kg) and RB (191 µg/L) contamination | Possible high bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative CCB value (-2.5 µg/L) | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (72%) | Potential inaccuracy |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Li = J-L(+) | Amount detected in LCS > 1200 µg/L (2116 & 2162 µg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |
| | | | Sn = UJ-B(+) | PB (4.3 mg/kg) and RB (32.9 µg/L) contamination | Possible high bias |
| | | | Sn = J-I(+) | ICS interference | Potential false positive |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 010 (Continued) | 9308L489 (Continued) | MND28-1045-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cr = J-I(-) | ICS interference | Possible low bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Cu = J-I(-) | ICS interference | Possible low bias |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (79%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | PB (40.096 mg/kg) and RB (191 µg/L) contamination | Possible high bias |
| | | | Na = UJ-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative CCB value (-2.5 µg/L) | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (56.5%) | Potential inaccuracy |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Li = J-L(+) | Amount detected in LCS > 1200 µg/L (2116 & 2162 µg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Potential false positive |
| | | | Sn = UJ-B(+) | PB (4.3 mg/kg) and RB (32.9 µg/L) contamination | Possible high bias |
| | | | Sn = J-I(+) | ICS interference | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 010 (Continued) | 9308L489 (Continued) | MND28-1028-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cr = J-I(-) | ICS interference | Possible low bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Cu = J-I(-) | ICS interference | Possible low bias |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | Na = UJ-B(+) | PB (40.096 mg/kg) and RB (191 µg/L) contamination | Possible high bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = J-B(-) | Negative CCB value (-2.5 µg/L) | Possible low bias |
| | | | Tl = J-I(-) | Post-digestion spike recovery < 85% (70%) | Potential inaccuracy |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Li = J-B(-) | Negative CCB value (-12.0 µg/L) | Possible low bias |
| | | | Li = J-L(+) | Amount detected in LCS > 1200 µg/L (2116 & 2162 µg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |
| | | | Sn = UJ-B(+) | PB (4.3 mg/kg) and RB (32.9 µg/L) contamination | Possible high bias |
| | | | Sn = J-I(+) | ICS interference | Potential false negative |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 010 (Continued) | 9308L489 (Continued) | MND28-1028-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cr = J-I(-) | ICS interference | Possible low bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Cu = J-I(-) | ICS interference | Possible low bias |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (54%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | PB (40.096 mg/kg) and RB (191 µg/L) contamination | Possible high bias |
| | | | Na = UJ-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative CCB value (-2.8 µg/L) | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (77.5%) | Potential inaccuracy |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Li = J-B(-) | Negative CCB value (-12.0 µg/L) | Possible low bias |
| | | | Li = J-L(+) | Amount detected in LCS > 1200 µg/L (2116 & 2162 µg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |
| | | | Sn = UJ-B(+) | PB (4.3 mg/kg) and RB (32.9 µg/L) contamination | Possible high bias |
| | | | Sn = J-I(+) | ICS interference | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 010 (Continued) | 9308L489 (Continued) | MND28-1029-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Se = UJ-B(+) | PB contamination (0.48 mg/kg) | Possible high bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (71%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | PB (40.096 mg/kg) and RB (191 µg/L) contamination | Possible high bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative CCB value (-2.2 µg/L) | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (81.5%) | Potential inaccuracy |
| | | | Li = J-B(-) | Negative CCB value (-12.0 µg/L) | Possible low bias |
| | | | Li = J-L(+) | Amount detected in LCS > 1200 µg/L (2116 &2162 µg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |
| | | | Sn = UJ-B(+) | PB (4.3 mg/kg) and RB (32.9 µg/L) contamination | Possible high bias |
| | | | Sn = J-I(+) | ICS interference | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 010 (Continued) | 9308L489 (Continued) | MND28-1029-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cr = J-I(-) | ICS interference | Possible low bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Cu = J-I(-) | ICS interference | Possible low bias |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (46%) | Potential inaccuracy |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative CCB value (-2.8 µg/L) | Potential false negative |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Li = J-B(-) | Negative CCB value (-12.0 µg/L) | Possible low bias |
| | | | Li = J-L(+) | Amount detected in LCS > 1200 µg/L (2116 & 2162 µg/L) | Possible high bias |
| | | | Mo = UJ-B(+) | RB contamination (12.2 µg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |
| | | | Sn = UJ-B(+) | PB (4.3 mg/kg) and RB (32.9 µg/L) contamination | Possible high bias |
| | | | Sn = UJ-I(+) | ICS interference | Possible high bias |
| | | | Zn = UJ-B(+) | RB contamination (32.7 µg/L) | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 010 (Continued) | 9308L489 (Continued) | MND28-1030-0001 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (82%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | PB (40.096 mg/kg) and RB (191 µg/L) contamination | Possible high bias |
| | | | Tl = UJ-B(-) | Negative CCB value (-2.8 µg/L) | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (78.5%) | Potential inaccuracy |
| | | | Li = J-B(-) | Negative CCB value (-12.0 µg/L) | Possible low bias |
| | | | Li = J-L(+) | Amount detected in LCS > 1200 µg/L (2116 & 2162 µg/L) | Possible high bias |
| | | | Sn = UJ-B(+) | PB (4.3 mg/kg) and RB (32.9 µg/L) contamination | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 010 (Continued) | 9308L489 (Continued) | MND28-1030-0002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cr = J-I(-) | ICS interference | Possible low bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Cu = J-I(-) | ICS interference | Possible low bias |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (50%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | PB (40.096 mg/kg) and RB (191 µg/L) contamination | Possible high bias |
| | | | Na = UJ-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative CCB value (-2.8 µg/L) | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (75%) | Potential inaccuracy |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Li = J-B(-) | Negative CCB value (-12 µg/L) | Possible low bias |
| | | | Li = J-L(+) | Amount detected in LCS > 1200 µg/L (2116 & 2162 µg/L) | Possible high bias |
| | | | Mo = UJ-B(+) | RB contamination (12.2 µg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |
| | | | Sn = UJ-B(+) | PB (4.3 mg/kg) and RB (32.9 µg/L) contamination | Possible high bias |
| | | | Sn = J-I(+) | ICS interference | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 010 (Continued) | 9308L489 (Continued) | MND28-1028-1002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Cr = J-I(-) | ICS interference | Possible low bias |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Cu = J-I(-) | ICS interference | Possible low bias |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (48%) | Potential inaccuracy |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Tl = UJ-B(-) | Negative CCB value (-2.8 µg/L) | Potential false negative |
| | | | Tl = UJ-I(-) | Post-digestion spike recovery < 85% (79%) | Potential inaccuracy |
| | | | V = J-I(+) | ICS interference | Possible high bias |
| | | | Li = J-B(-) | Negative CCB value (-12 µg/L) | Possible low bias |
| | | | Li = J-L(+) | Amount detected in LCS > 1200 µg/L (2116 & 2162 µg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |
| | | | Sn = UJ-B(+) | PB (4.3 mg/kg) and RB (32.9 µg/L) contamination | Possible high bias |
| | | | Sn = J-I(+) | ICS interference | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 010 (Continued) | 9308L489 (Continued) | MND28-1028-4002 | Sb = R-Q | Wrong digestate analyzed | Result is unusable |
| | | | Ba = UJ-B(+) | CCB contamination (11.7 µg/L) | Possible high bias |
| | | | Fe = UJ-B(+) | CCB contamination (33.3 µg/L) | Possible high bias |
| | | | Mg = UJ-B(+) | PB contamination (152 µg/L) | Possible high bias |
| | | | Mn = UJ-B(+) | CCB contamination (3.9 µg/L) | Possible high bias |
| | | | K = UJ-B(-) | Negative CCB value (-287.3 µg/L) | Potential false negative |
| | | | Se = J-I(-) | Post-digestion spike recovery < 85% (77%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | PB contamination (204 µg/L) | Possible high bias |
| | | | Tl = UJ-B(-) | Negative ICB value (-3.8 µg/L) | Potential false negative |
| | | | V = UJ-B(-) | Negative PB value (-9.17 µg/L) | Potential false negative |
| | | | Zn = UJ-B(+) | PB contamination (15.96 µg/L) | Possible high bias |
| | | | Mo = UJ-B(+) | CCB contamination (12.6 µg/L) | Possible high bias |
| | | | Sn = UJ-B(+) | PB contamination (32 µg/L) | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 011 | 9308L508 | MND28-1034-0001 | Sb = UJ-Q | Wrong digestate analyzed (LCS analyzed by ICP) | Probable low bias - significant |
| | | | Be = UJ-B(+) | RB contamination (1.5 µg/L) | Possible high bias |
| | | | Ca = J-I(+) | ICP serial dilution %D > 10% (12.7%) | Potential inaccuracy |
| | | | Mg = J-I(+) | ICP serial dilution %D > 10% (17.6%) | Potential inaccuracy |
| | | | Mn = J-I(+) | ICP serial dilution %D > 10% (10.4%) | Potential inaccuracy |
| | | | K = J-B(-) | Negative CCB value (-360.5 µg/L) | Possible low bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (78%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | RB contamination (212 µg/L) | Possible high bias |
| | | | Na = UJ-I(+) | ICS interference | Possible high bias |
| | | | Mo = UJ-B(+) | RB contamination (22 µg/L) | Possible high bias |
| | | | Mo = UJ-I(+) | ICS interference | Possible high bias |
| | | | Bi = UJ-B(-) | Negative CCB value (-137.8 µg/L) | Potential false negative |
| | | | Sn = UJ-B(+) | RB contamination (69 µg/L) | Possible high bias |
| | | | Sn = UJ-I(-) | ICS interference | Possible low bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 011 (Continued) | 9308L508 (Continued) | MND28-1034-0002 | Sb = UJ-Q | Wrong digestate analyzed (LCS analyzed by ICP) | Probable low bias - significant |
| | | | Be = UJ-B(+) | RB contamination (1.5 µg/L) | Possible high bias |
| | | | Cd = J-I(+) | ICS interference | Possible high bias |
| | | | Ca = J-I(+) | ICP serial dilution %D > 10% (12.7%) | Potential inaccuracy |
| | | | Mg = J-I(+) | ICP serial dilution %D > 10% (17.6%) | Potential inaccuracy |
| | | | Mn = J-I(+) | ICP serial dilution %D > 10% (10.4%) | Potential inaccuracy |
| | | | K = J-B(-) | Negative CCB value (-360.5 µg/L) | Possible low bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (62%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | RB contamination (212 µg/L) | Possible high bias |
| | | | Na = UJ-I(+) | ICS interference | Possible high bias |
| | | | Mo = UJ-B(+) | RB contamination (22 µg/L) | Possible high bias |
| | | | Mo = UJ-I(+) | ICS interference | Possible high bias |
| | | | Bi = UJ-B(-) | Negative CCB value (-137.8 µg/L) | Potential false negative |
| | | | Sn = UJ-I(-) | ICS interference | Potential false negative |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 011 (Continued) | 9308L508 (Continued) | MND28-1035-0001 | Sb = UJ-Q | Wrong digestate analyzed (LCS analyzed by ICP) | Probable low bias - significant |
| | | | Sb = UJ-S(-) | MS recovery < 75% (47.2%) | Probable low bias (by 2.1 X) |
| | | | As = J-S(-) | MS recovery < 75% (51.7%) | Possible low bias (by 1.9 X) |
| | | | Be = UJ-B(+) | RB contamination (1.5 µg/L) | Possible high bias |
| | | | Ca = J-I(+) | ICP serial dilution %D > 10% (12.7%) | Potential inaccuracy |
| | | | Mg = J-I(+) | ICP serial dilution %D > 10% (17.6%) | Potential inaccuracy |
| | | | Mn = J-I(+) | ICP serial dilution %D > 10% (10.4%) | Potential inaccuracy |
| | | | K = J-B(-) | Negative CCB value (-360.5 µg/L) | Possible low bias |
| | | | Se = UJ-S(-) | MS recovery < 75% (46.9%) | Possible low bias (by 2.1 X) |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (66%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | RB contamination (212 µg/L) | Possible high bias |
| | | | Na = UJ-I(+) | ICS interference | Possible high bias |
| | | | Mo = UJ-B(+) | RB contamination (22 µg/L) | Possible high bias |
| | | | Mo = UJ-I(+) | ICS interference | Possible high bias |
| | | | Bi = UJ-B(-) | Negative CCB value (-137.8 µg/L) | Potential false negative |
| | | | Sn = UJ-I(-) | ICS interference | Potential false negative |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 011 (Continued) | 9308L508 (Continued) | MND28-1035-0002 | Sb = UJ-Q | Wrong digestate analyzed (LCS analyzed by ICP) | Probable low bias - significant |
| | | | Be = UJ-B(+) | RB contamination (1.5 µg/L) | Possible high bias |
| | | | Ca = J-I(+) | ICP serial dilution %D > 10% (12.7%) | Potential inaccuracy |
| | | | Pb = J-I(-) | Post-digestion spike recovery < 85% (73.6%) | Potential inaccuracy |
| | | | Mg = J-I(+) | ICP serial dilution %D > 10% (17.6%) | Potential inaccuracy |
| | | | Mn = J-I(+) | ICP serial dilution %D > 10% (10.4%) | Potential inaccuracy |
| | | | K = J-B(-) | Negative CCB value (-360.5 µg/L) | Possible low bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (58%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | RB contamination (212 µg/L) | Possible high bias |
| | | | Na = UJ-I(+) | ICS interference | Possible high bias |
| | | | Mo = UJ-B(+) | RB contamination (22 µg/L) | Possible high bias |
| | | | Mo = UJ-I(+) | ICS interference | Possible high bias |
| | | | Bi = UJ-B(-) | Negative CCB value (-137.8 µg/L) | Potential false negative |
| | | | Sn = UJ-I(-) | ICS interference | Potential false negative |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 011 (Continued) | 9308L508 (Continued) | MND28-1036-0001 | Sb = UJ-Q | Wrong digestate analyzed (LCS analyzed by ICP) | Probable low bias - significant |
| | | | Sb = UJ-I(-) | Post-digestion spike recovery < 85% (75.3%) | Potential inaccuracy |
| | | | Be = UJ-B(+) | RB contamination (1.5 µg/L) | Possible high bias |
| | | | Ca = J-I(+) | ICP serial dilution %D > 10% (12.7%) | Potential inaccuracy |
| | | | Mg = J-I(+) | ICP serial dilution %D > 10% (17.6%) | Potential inaccuracy |
| | | | Mn = J-I(+) | ICP serial dilution %D > 10% (10.4%) | Potential inaccuracy |
| | | | K = J-B(-) | Negative CCB value (-360.5 µg/L) | Possible low bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (63%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | RB contamination (212 µg/L) | Possible high bias |
| | | | Mo = UJ-B(+) | RB contamination (22 µg/L) | Possible high bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 011 (Continued) | 9308L508 (Continued) | MND28-1036-0002 | Sb = UJ-Q | Wrong digestate analyzed (LCS analyzed by ICP) | Probable low bias - significant |
| | | | Be = UJ-B(+) | RB contamination (1.5 µg/L) | Possible high bias |
| | | | Be = UJ-I(+) | ICS interference | Possible high bias |
| | | | Ca = J-I(+) | ICP serial dilution %D > 10% (12.7%) | Potential inaccuracy |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Mg = J-I(+) | ICP serial dilution %D > 10% (17.6%) | Potential inaccuracy |
| | | | Mn = J-I(+) | ICP serial dilution %D > 10% (10.4%) | Potential inaccuracy |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | K = J-B(-) | Negative CCB value (-360.5 µg/L) | Possible low bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (81%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | RB contamination (212 µg/L) | Possible high bias |
| | | | Na = UJ-I(+) | ICS interference | Possible high bias |
| | | | Zn = J-I(-) | ICS interference | Possible low bias |
| | | | Mo = UJ-B(+) | RB contamination (22 µg/L) | Possible high bias |
| | | | Mo = UJ-I(+) | ICS interference | Possible high bias |
| | | | Sn = UJ-I(-) | ICS interference | Possible low bias |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 011 (Continued) | 9308L508 (Continued) | MND28-1036-1001 | Sb = UJ-Q | Wrong digestate analyzed (LCS analyzed by ICP) | Probable low bias - significant |
| | | | Be = UJ-B(+) | RB contamination (1.5 µg/L) | Possible high bias |
| | | | Ca = J-I(+) | ICP serial dilution %D > 10% (12.7%) | Potential inaccuracy |
| | | | Mg = J-I(+) | ICP serial dilution %D > 10% (17.6%) | Potential inaccuracy |
| | | | Mn = J-I(+) | ICP serial dilution %D > 10% (10.4%) | Potential inaccuracy |
| | | | K = J-B(-) | Negative CCB value (-360.5 µg/L) | Possible low bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (63%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | RB contamination (212 µg/L) | Possible high bias |
| | | | Na = UJ-I(+) | ICS interference | Possible high bias |
| | | | Mo = UJ-B(+) | RB contamination (22 µg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |
| | | | Sn = UJ-I(-) | ICS interference | Potential false negative |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 011 (Continued) | 9308L508 (Continued) | MND28-1043-0002 | Sb = UJ-Q | Wrong digestate analyzed (LCS analyzed by ICP) | Probable low bias - significant |
| | | | Be = UJ-B(+) | RB contamination (1.5 µg/L) | Possible high bias |
| | | | Cd = J-I(+) | ICS interference | Possible high bias |
| | | | Ca = J-I(+) | ICP serial dilution %D > 10% (12.7%) | Potential inaccuracy |
| | | | Pb = J-I(-) | Post-digestion spike recovery < 85% (70.5%) | Potential inaccuracy |
| | | | Mg = J-I(+) | ICP serial dilution %D > 10% (17.6%) | Potential inaccuracy |
| | | | Mn = J-I(+) | ICP serial dilution %D > 10% (10.4%) | Potential inaccuracy |
| | | | K = J-B(-) | Negative CCB value (-360.5 µg/L) | Possible low bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (79%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | RB contamination (212 µg/L) | Possible high bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Mo = UJ-B(+) | RB contamination (22 µg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |
| | | | Sn = UJ-I(-) | ICS interference | Potential false negative |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 011 (Continued) | 9308L508 (Continued) | MND28-1044-0002 | Sb = UJ-Q | Wrong digestate analyzed (LCS analyzed by ICP) | Probable low bias - significant |
| | | | Sb = UJ-I(-) | Post-digestion spike recovery < 85% (75%) | Potential inaccuracy |
| | | | Be = UJ-B(+) | RB contamination (1.5 µg/L) | Possible high bias |
| | | | Cd = J-I(+) | ICS interference | Possible high bias |
| | | | Ca = J-I(+) | ICP serial dilution %D > 10% (12.7%) | Potential inaccuracy |
| | | | Mg = J-I(+) | ICP serial dilution %D > 10% (17.6%) | Potential inaccuracy |
| | | | Mn = J-I(+) | ICP serial dilution %D > 10% (10.4%) | Potential inaccuracy |
| | | | K = J-B(-) | Negative CCB value (-360.5 µg/L) | Possible low bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (47%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | RB contamination (212 µg/L) | Possible high bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Mo = UJ-B(+) | RB contamination (22 µg/L) | Possible high bias |
| | | | Mo = J-I(+) | ICS interference | Possible high bias |
| | | | Sn = UJ-I(-) | ICS interference | Potential false negative |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 011 (Continued) | 9308L508 (Continued) | MND28-1045-0002 | Be = UJ-B(+) | RB contamination (1.5 µg/L) | Possible high bias |
| | | | Be = J-I(+) | ICS interference | Possible high bias |
| | | | Cd = J-I(+) | ICS interference | Possible high bias |
| | | | Ca = J-I(+) | ICP serial dilution %D > 10% (12.7%) | Potential inaccuracy |
| | | | Co = J-I(+) | ICS interference | Possible high bias |
| | | | Pb = J-I(-) | Post-digestion spike recovery < 85% (83.3%) | Potential inaccuracy |
| | | | Mg = J-I(+) | ICP serial dilution %D > 10% (17.6%) | Potential inaccuracy |
| | | | Mn = J-I(+) | ICP serial dilution %D > 10% (10.4%) | Potential inaccuracy |
| | | | Ni = J-I(-) | ICS interference | Possible low bias |
| | | | K = J-B(-) | Negative CCB value (-360.5 µg/L) | Possible low bias |
| | | | Se = UJ-I(-) | Post-digestion spike recovery < 85% (42%) | Potential inaccuracy |
| | | | Na = UJ-B(+) | RB contamination (212 µg/L) | Possible high bias |
| | | | Na = J-I(+) | ICS interference | Possible high bias |
| | | | Mo = UJ-B(+) | RB contamination (22 µg/L) | Possible high bias |
| | | | Mo = UJ-I(+) | ICS interference | Possible high bias |
| | | | Sn = UJ-I(-) | ICS interference | Potential false negative |

## Table G.1

## Summary of Data Validation Qualifiers for Total Metals Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 011 (Continued) | 9308L508 (Continued) | MND28-1036-4001 | Al = J-D | Lab duplicate RPD > 35% (200%) | Potential inaccuracy |
| | | | Ca = J-B(-) | Negative PB value (-53.02 µg/L) | Possible low bias |
| | | | Cr = UJ-B(-) | Negative PB value (-4.3 µg/L) | Potential false negative |
| | | | Fe = UJ-B(+) | PB contamination (19.17 µg/L) | Possible high bias |
| | | | Mn = UJ-B(+) | PB contamination (2.8 µg/L) | Possible high bias |
| | | | K = UJ-B(+) | PB contamination (258.7 µg/L) | Possible high bias |
| | | | Na = UJ-B(+) | PB contamination (84.6 µg/L) | Possible high bias |
| | | | Sn = UJ-B(+) | PB contamination (28.7 µg/L) | Possible high bias |
| | | | Sn = J-D | Lab duplicate RPD > 35% (200%) | Potential inaccuracy |

Validation Qualifiers:
J/UJ - Concentration/reporting limit is estimated.
R - Result is unusable.
Q - Special qualifier (reviewer-defined).
I - Analytical interference.
S - Matrix spike recovery outside control limits.
D - Duplicate RPD outside control limits.
B - Blank contamination.
C - CCV standard recovery outside control limits.
L - Laboratory control sample result outside control limits.
(+) - Positive bias.
(-) - Negative bias.

## Table G.2

### Summary of Data Validation Qualifiers for Pesticide/PCB Analyses

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 001 | 9307L200 | MND28-1046-0001 | All cpds except Aroclor-1254 = UJ-K(-)<br>4,4'-DDT = UJ-C<br>Aroclor-1254 = J-K(-) | Low surrogate recovery (TCMX = 55%/50%)<br>Initial calibration RSD > 20% (21.07%)<br>Low surrogate recovery (TCMX = 55%/50%) | Possible false negative<br>Slight inaccuracy possible<br>Possible low bias |
| | | MND28-1046-0002 | All cpds = UJ-K(-)<br>4,4'-DDT = UJ-C | Low surrogate recovery (TCMX = 50%/42%)<br>Initial calibration RSD > 20% (21.07%) | Possible false negative<br>Slight inaccuracy possible |
| | | MND28-1047-0001 | All cpds except Aroclor-1254 = UJ-K(-)<br>4,4'-DDT = UJ-C<br>Aroclor-1254 = J-K(-) | Low surrogate recovery (TCMX = 55%/45%)<br>Initial calibration RSD > 20% (21.07%)<br>Low surrogate recovery (TCMX = 55%/45%) | Possible false negative<br>Slight inaccuracy possible<br>Possible low bias |

## Table G.2

## Summary of Data Validation Qualifiers for Pesticide/PCB Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 001 (Continued) | 9307L200 (Continued) | MND28-1047-0002 | All cpds except Aroclor-1254 = UJ-K(-) | Low surrogate recovery (TCMX = 50%/42%) | Possible false negative |
| | | | 4,4'-DDT = UJ-C | Initial calibration RSD > 20% (21.07%) | Slight inaccuracy possible |
| | | | Aroclor-1254 = J-K(-) | Low surrogate recovery (TCMX = 50%/42%) | Possible low bias |
| | | | Aroclor-1254 = J-P | Results from two columns differ by > 25% (38%) | Analytical interference - inaccuracy possible |
| | | MND28-1048-0001 | All cpds except Aroclor-1254 = UJ-K(-) | Low surrogate recovery (TCMX = 55%/45%) | Possible false negative |
| | | | 4,4'-DDT = UJ-C | Initial calibration RSD > 20% (21.07%) | Slight inaccuracy possible |
| | | | Aroclor-1254 = J-K(-) | Low surrogate recovery (TCMX = 55%/45%) | Possible low bias |
| | | MND28-1048-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 58%/50%) | Possible false negative |
| | | | 4,4'-DDT = UJ-C | Initial calibration RSD > 20% (21.07%) | Slight inaccuracy possible |
| | 9307L214 | MND28-1004-0001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 42%/45%) | Possible false negative |

## Table G.2

## Summary of Data Validation Qualifiers for Pesticide/PCB Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 001 (Continued) | 9307L214 (Continued) | MND28-1004-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 52%/45%) | Possible false negative |
| | | MND28-1006-4001 | All cpds = UJ-K(-) | Low surrogate recovery (DCB = 45%/40%) | Possible false negative |
| | 9307L224 | MND28-1005-0001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 55%/45%) | Possible false negative |
| | | MND28-1005-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 55%/48%) | Possible false negative |
| | | MND28-1005-1001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 58%/50%) | Possible false negative |
| 002 | 9307L226 | MND28-1006-0001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 55%/55%) | Possible false negative |
| | | MND28-1006-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 55%/55%) | Possible false negative |
| | 9307L234 | MND28-1016-0001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 38%/40%) | Possible false negative |
| | | MND28-1016-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 38%/40%) | Possible false negative |

## Table G.2

## Summary of Data Validation Qualifiers for Pesticide/PCB Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 002 (Continued) | 9307L234 (Continued) | MND28-1017-0001 | All cpds except 4,4'-DDT = UJ-K(-)<br>4,4'-DDT = J-P | Low surrogate recovery (TCMX = 38%/42%)<br>Results from two columns differ by > 25% (140%) | Possible false negative<br>Analytical interference - inaccuracy possible |
| | | MND28-1017-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 40%/42%) | Possible false negative |
| | | MND28-1018-0001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 38%/42%) | Possible false negative |
| | | MND28-1018-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 45%/50%) | Possible false negative |
| | | MND28-1040-0001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 42%/48%) | Possible false negative |
| | | MND28-1040-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 40%/42%) | Possible false negative |
| | | MND28-1040-1001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 40%/45%) | Possible false negative |
| | | MND28-1040-4002 | All cpds = UJ-K(-) | Low surrogate recovery (DCB = 55%/50%) | Possible false negative |
| 003 | 9307L233 | MND28-1041-0001 | None | | |
| | | MND28-1041-0002 | None | | |

## Table G.2

## Summary of Data Validation Qualifiers for Pesticide/PCB Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 003 (Continued) | 9307L233 (Continued) | MND28-1042-0001 | None | | |
| | | MND28-1042-0002 | None | | |
| | | MND28-1037-0001 | None | | |
| | | MND28-1037-0002 | None | | |
| | | MND28-1038-0001 | None | | |
| | | MND28-1038-0002 | None | | |
| | | MND28-1039-0001 | None | | |
| | | MND28-1039-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 52%/48%) | Possible false negative |
| | | MND28-1038-1002 | None | | |
| | | MND28-1039-4001 | None | | |
| 004 | 9307L232 | MND28-1019-0001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 32%/38%) | Possible false negative |
| | | MND28-1019-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 25%/28%) | Possible false negative |
| | | MND28-1020-0001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 38%/42%) | Possible false negative |
| | | MND28-1020-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 38%/42%) | Possible false negative |

## Table G.2

## Summary of Data Validation Qualifiers for Pesticide/PCB Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 004 (Continued) | 9307L232 (Continued) | MND28-1021-0001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 30%/32%) | Possible false negative |
| | | MND28-1021-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 28%/30%) | Possible false negative |
| | 9307L252 | MND28-1031-0001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 58%/58%) | Possible false negative |
| | | MND28-1031-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 50%/45%) | Possible false negative |
| | | MND28-1032-0001 | Endosulfan II and methoxychlor = J-P | Results from two columns differ by > 25% (242%/ 129%) | Analytical interference - inaccuracy possible |
| | | MND28-1032-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 42%/42%) | Possible false negative |
| | | MND28-1032-1002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 42%/--) | Possible false negative |
| | | MND28-1032-4002 | None | | |
| 005 | 9307L248 | MND28-1033-0001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 55%/58%) | Possible false negative |
| | | MND28-1033-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 58%/--) | Possible false negative |

## Table G.2

## Summary of Data Validation Qualifiers for Pesticide/PCB Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 005 (Continued) | 9311L729 | MND28-0999-0006 (RE) | All cpds = J/UJ-H | Extraction past holding time (121 days)** | Unpredictable bias |
| | | | All nondetect cpds = UJ-K(-) | Low surrogate recovery (TCMX = 58%/--) | Possible false negative |
| | | | Methoxychlor = UJ-C | Initial calibration RSD > 20% (24.43%) | Slight inaccuracy possible |
| | | | All detect cpds = J-K(-) | Low surrogate recovery (TCMX = 58%/--) | Possible low bias |
| | | MND28-0999-0006DL (RE) | All cpds = J-H | Extraction past holding time (121 days) | Slight inaccuracy possible |
| | | | All cpds = J-K(-) | Surrogates diluted out | None |

## Table G.2

## Summary of Data Validation Qualifiers for Pesticide/PCB Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 006 | 9308L432 | MND28-1001-0001 | All cpds except 4,4'-DDD, 4,4'-DDT, and methoxychlor = UJ-K(-) | Low surrogate recovery (TCMX = 58%/--) | Possible false negative |
| | | | 4,4'-DDD, 4,4'-DDT, and methoxychlor = J-K(-) | Low surrogate recovery (TCMX = 58%/--) | Possible low bias |
| | | | 4,4'-DDT and methoxychlor = J-P | Results from two columns differ by > 25% (68%/ 40%) | Analytical interference - possible inaccuracy |
| | | | 4,4'-DDT = J-C | Initial calibration RSD > 20% (21.07%) | Slight inaccuracy possible |
| | | MND28-1001-0002 | All cpds except 4,4'-DDD = UJ-K(-) | Low surrogate recovery (TCMX = 42%/50%) | Possible false negative |
| | | | 4,4'-DDD = J-K(-) | Low surrogate recovery (TCMX = 42%/50%) | Possible low bias |
| | | MND28-1002-0001 | All cpds except methoxychlor = UJ-K(-) | Low surrogate recovery (TCMX = 38%/45%) | Possible false negative |
| | | | methoxychlor = J-K(-) | Low surrogate recovery (TCMX = 38%/45%) | Possible low bias |
| | | MND28-1002-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 48%/52%) | Possible false negative |

## Table G.2

## Summary of Data Validation Qualifiers for Pesticide/PCB Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 006 (Continued) | 9308L432 (Continued) | MND28-1003-0001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 38%/42%) | Possible false negative |
| | | MND28-1003-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 42%/48%) | Possible false negative |
| | | MND28-1003-1001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 45%/50%) | Possible false negative |
| | | MND28-1003-4001 | All cpds = UJ-K(-) | Low surrogate recovery (DCB = 55%/55%) | Possible false negative |
| 007 | 9308L433 | MND28-1007-0001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 48%/55%) | Possible false negative |
| | | MND28-1007-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 45%/50%) | Possible false negative |
| | | MND28-1008-0001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 38%/42%) | Possible false negative |
| | | MND28-1008-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 40%/45%) | Possible false negative |
| | | MND28-1009-0001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 38%/45%) | Possible false negative |
| | | MND28-1009-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 40%/45%) | Possible false negative |
| | | MND28-1009-1001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 50%/55%) | Possible false negative |

## Table G.2

## Summary of Data Validation Qualifiers for Pesticide/PCB Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 007 (Continued) | 9308L433 (Continued) | MND28-1009-4002 | All cpds = UJ-K(-) | Low surrogate recovery (DCB = 50%/50%) | Possible false negative |
| | 9308L455 | MND28-1010-0001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 43%/53%); also, retention time shift for surrogate DCB (1.52 minutes) | Possible false negative |
| | | MND28-1010-0002 | All cpds except methoxychlor = UJ-K(-)<br>Methoxychlor = J-K(-) | Low surrogate recovery (TCMX = 45%/55%); also, retention time shift for surrogate DCB (1.52 minutes)<br>Low surrogate recovery (TCMX = 45%/55%) | Possible false negative<br>Possible low bias |
| | | MND28-1011-0001 | All cpds except methoxychlor = UJ-K(-)<br>Methoxychlor = J-K(-) | Low surrogate recovery (TCMX = 50%/--)<br>Low surrogate recovery (TCMX = 50%/--) | Possible false negative<br>Possible low bias |
| | | MND28-1011-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 55%/--) | Possible false negative |

## Table G.2

## Summary of Data Validation Qualifiers for Pesticide/PCB Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 008 | 9308L454 | MND28-1012-0001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 58%/--) | Possible false negative |
| | | | α-BHC = UJ-C(-) | Initial calibration RSD > 20% (22.9%) | Slight inaccuracy possible |
| | | | 4,4'-DDT = UJ-C(-) | Continuing calibration RPD > 25% (26.0%) | Slight inaccuracy possible |
| | | MND28-1012-0002 | All cpds except methoxychlor = UJ-K(-) | Low surrogate recovery (TCMX = 48%/50%) | Possible false negative |
| | | | α-BHC = UJ-C(-) | Initial calibration RSD > 20% (22.9%) | Slight inaccuracy possible |
| | | | 4,4'-DDT = UJ-C(-) | Continuing calibration RPD > 25% (26.0%) | Slight inaccuracy possible |
| | | | Methoxychlor = J-P | Results from two columns differ by > 25% (37%) | Analytical interference - inaccuracy possible |
| | | MND28-1013-0001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 55%/58%) | Possible false negative |
| | | | α-BHC = UJ-C(-) | Initial calibration RSD > 20% (22.9%) | Slight inaccuracy possible |
| | | | 4,4'-DDT = UJ-C(-) | Continuing calibration RPD > 25% (26.0%) | Slight inaccuracy possible |

## Table G.2

## Summary of Data Validation Qualifiers for Pesticide/PCB Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 008 (Continued) | 9308L454 (Continued) | MND28-1013-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 43%/45%) | Possible false negative |
| | | | α-BHC = UJ-C(-) | Initial calibration RSD > 20% (22.9%) | Slight inaccuracy possible |
| | | | 4,4'-DDT = UJ-C(-) | Continuing calibration RPD > 25% (26.0%) | Slight inaccuracy possible |
| | | MND28-1014-0001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 53%/55%) | Possible false negative |
| | | | α-BHC = UJ-C(-) | Initial calibration RSD > 20% (22.9%) | Slight inaccuracy possible |
| | | | 4,4'-DDT = UJ-C(-) | Continuing calibration RPD > 25% (26.0%) | Slight inaccuracy possible |
| | | MND28-1014-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 50%/53%) | Possible false negative |
| | | | α-BHC = UJ-C(-) | Initial calibration RSD > 20% (22.9%) | Slight inaccuracy possible |
| | | | 4,4'-DDT = UJ-C(-) | Continuing calibration RPD > 25% (26.0%) | Slight inaccuracy possible |

## Table G.2

## Summary of Data Validation Qualifiers for Pesticide/PCB Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 008 (Continued) | 9308L454 (Continued) | MND28-1015-0001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 53%/55%) | Possible false negative |
| | | | α-BHC = UJ-C(-) | Initial calibration RSD > 20% (22.9%) | Slight inaccuracy possible |
| | | | 4,4'-DDT = UJ-C(-) | Continuing calibration RPD > 25% (26.0%) | Slight inaccuracy possible |
| | | MND28-1015-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 50%/--) | Possible false negative |
| | | MND28-1015-1001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 48%/--) | Possible false negative |
| | | MND28-1015-4001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 55%/55%; DCB = 45%/45%) | Possible false negative |
| | | | 4,4'-DDT = UJ-C(-) | Initial calibration RSD > 20% (21.07%) | Slight inaccuracy possible |
| | | MND28-1015-4001RE* | All cpds = UJ-K(-) | Low surrogate recovery (DCB = 50%/45%) | Possible false negative |
| | | | 4,4'-DDT = UJ-C(-) | Initial calibration RSD > 20% (26.45) | Slight inaccuracy possible |

## Table G.2

## Summary of Data Validation Qualifiers for Pesticide/PCB Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 008 (Continued) | 9308L467 | MND28-1025-0001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 45%/55%); also, low LCS recovery for γ-BHC (40%) and aldrin (32%) | Possible false negative |
| | | MND28-1025-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 38%/45%); also, low LCS recovery for γ-BHC (40%) and aldrin (32%) | Possible false negative |
| 009 | 9308L468 | MND28-1022-0001 | All cpds except 4,4'-DDE and 4,4'-DDT = UJ-K(-)<br>4,4'-DDE and 4,4'-DDT = J-K(-) | Low surrogate recovery (TCMX = 35%/48%)<br>Low surrogate recovery (TCMX = 35%/48%) | Possible false negative<br>Possible low bias |
| | | MND28-1022-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 38%/42%) | Possible false negative |
| | | MND28-1023-0001 | All cpds except 4,4'-DDT and methoxychlor = UJ-K(-)<br>4,4'-DDT and methoxychlor = J-K(-) | Low surrogate recovery (TCMX = 45%/52%)<br>Low surrogate recovery (TCMX = 45%/52%) | Possible false negative<br>Possible low bias |
| | | MND28-1023-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 30%/38%) | Possible false negative |

## Table G.2

## Summary of Data Validation Qualifiers for Pesticide/PCB Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 009 (Continued) | 9308L468 (Continued) | MND28-1024-0001 | All cpds except 4,4'-DDE and 4,4'-DDT = UJ-K(-)<br>4,4'-DDE and 4,4'-DDT = J-K(-) | Low surrogate recovery (TCMX = 40%/52%)<br>Low surrogate recovery (TCMX = 40%/52%) | Possible false negative<br>Possible low bias |
| | | MND28-1024-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 35%/40%) | Possible false negative |
| | | MND28-1026-0001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 32%/45%) | Possible false negative |
| | | MND28-1027-1001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 38%/45%) | Possible false negative |
| | | MND28-1026-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 35%/48%) | Possible false negative |
| | | MND28-1027-0001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 30%/40%) | Possible false negative |
| | | MND28-1027-0002 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 35%/48%) | Possible false negative |
| | | MND28-1024-4002 | All cpds = UJ-K(-)<br>4,4'-DDT = UJ-C | Low surrogate recovery (DCB = 40%/35%)<br>Initial calibration RSD > 20% (26.45%) | Possible false negative<br>Slight inaccuracy possible |

## Table G.2

## Summary of Data Validation Qualifiers for Pesticide/PCB Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 010 | 9308L489 | MND28-1043-0001 | All cpds except 4,4'-DDE, 4,4'-DDD, and 4,4'-DDT = UJ-K | Surrogate interference (DCB = I/I) | Analytical interference - inaccuracy possible |
| | | | 4,4'-DDE, 4,4'-DDD, and 4,4'-DDT = J-K | Surrogate interference (DCB = I/I) | Analytical interference - inaccuracy possible |
| | | | $\alpha$-BHC = UJ-C | Initial calibration RSD > 20% (22.9%) | Slight inaccuracy possible |
| | | | 4,4'-DDD = J-P | Results from two columns differ by > 25% (38%) | Analytical interference - inaccuracy possible |
| | | MND28-1043-0001DL | 4,4'-DDT = J-K(-) | Surrogates diluted out | None |
| | | MND28-1044-0001 | All cpds except 4,4'-DDE and 4,4'-DDT = UJ-K(-) | Low surrogate recovery (TCMX = 48%/48%) | Possible false negative |
| | | | 4,4'-DDE and 4,4'-DDT = J-K(-) | Low surrogate recovery (TCMX = 48%/48%) | Possible low bias |
| | | | $\alpha$-BHC = UJ-C | Initial calibration RSD > 20% (22.9%) | Slight inaccuracy possible |

## Table G.2

## Summary of Data Validation Qualifiers for Pesticide/PCB Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 010 (Continued) | 9308L489 (Continued) | MND28-1045-0001 | All cpds = UJ-K(-)<br>α-BHC = UJ-C | Low surrogate recovery (TCMX = 55%/58%)<br>Initial calibration RSD > 20% (22.9%) | Possible false negative<br>Slight inaccuracy possible |
| | | MND28-1028-0001 | All cpds = UJ-K(-)<br>α-BHC = UJ-C | Low surrogate recovery (TCMX = 52%/55%)<br>Initial calibration RSD > 20% (22.9%) | Possible false negative<br>Slight inaccuracy possible |
| | | MND28-1028-0002 | All cpds = UJ-K(-)<br>α-BHC = UJ-C | Low surrogate recovery (TCMX = 58%/--)<br>Initial calibration RSD > 20% (22.9%) | Possible false negative<br>Slight inaccuracy possible |
| | | MND28-1029-0001 | All cpds = UJ-K(-)<br>α-BHC = UJ-C | Low surrogate recovery (TCMX = 55%/58%)<br>Initial calibration RSD > 20% (22.9%) | Possible false negative<br>Slight inaccuracy possible |
| | | MND28-1029-0002 | All cpds = UJ-K(-)<br>α-BHC = UJ-C | Low surrogate recovery (TCMX = 50%/52%)<br>Initial calibration RSD > 20% (22.9%) | Possible false negative<br>Slight inaccuracy possible |

## Table G.2

## Summary of Data Validation Qualifiers for Pesticide/PCB Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 010 (Continued) | 9308L489 (Continued) | MND28-1030-0001 | All cpds except 4,4'-DDT = UJ-K(-)<br>4,4'-DDT = J-K(-)<br>α-BHC = UJ-C | Low surrogate recovery (TCMX = 50%/52%)<br>Low surrogate recovery (TCMX = 50%/52%)<br>Initial calibration RSD > 20% (22.9%) | Possible false negative<br>Possible low bias<br>Slight inaccuracy possible |
| | | MND28-1030-0002 | All cpds = UJ-K(-)<br>α-BHC = UJ-C | Low surrogate recovery (TCMX = 58%/58%)<br>Initial calibration RSD > 20% (22.9%) | Possible false negative<br>Slight inaccuracy possible |
| | | MND28-1028-1002 | All cpds = UJ-K(-)<br>α-BHC = UJ-C | Low surrogate recovery (TCMX = 48%/50%)<br>Initial calibration RSD > 20% (22.9%) | Possible false negative<br>Slight inaccuracy possible |
| | | MND28-1028-4002 | All cpds = UJ-K(-)<br>4,4'-DDT = UJ-C | Low surrogate recovery (DCB = 55%/50%)<br>Initial calibration RSD > 20% (26.45%) | Possible false negative<br>Slight inaccuracy possible |

## Table G.2

## Summary of Data Validation Qualifiers for Pesticide/PCB Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 011 | 9308L508 | MND28-1034-0001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 38%/38%; DCB = 50%/48%) | Possible false negative |
| | | | α-BHC = UJ-C | Initial calibration RSD > 20% (23.27%) | Slight inaccuracy possible |
| | | | δ-BHC = UJ-C | Initial calibration RSD > 20% (20.09%) | Slight inaccuracy possible |
| | | | 4,4'-DDT = UJ-C | Continuing calibration RPD > 25% (26.0%) | Slight inaccuracy possible |
| | | MND28-1034-0001RE | All cpds = R-H | Extraction past holding time (54 days) | Sample results are unusable |
| | | MND28-1034-0002 | α-BHC = UJ-C | Initial calibration RSD > 20% (23.27%) | Slight inaccuracy possible |
| | | | δ-BHC = UJ-C | Initial calibration RSD > 20% (20.09%) | Slight inaccuracy possible |
| | | | 4,4'-DDT = UJ-C | Continuing calibration RPD > 25% (26.0%) | Slight inaccuracy possible |

## Table G.2

## Summary of Data Validation Qualifiers for Pesticide/PCB Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 011 (Continued) | 9308L508 (Continued) | MND28-1035-0001 | α-BHC = UJ-C | Initial calibration RSD > 20% (23.27%) | Slight inaccuracy possible |
| | | | δ-BHC = UJ-C | Initial calibration RSD > 20% (20.09%) | Slight inaccuracy possible |
| | | | 4,4'-DDT = UJ-C | Continuing calibration RPD > 25% (26.0%) | Slight inaccuracy possible |
| | | MND28-1035-0002 | α-BHC = UJ-C | Initial calibration RSD > 20% (23.27%) | Slight inaccuracy possible |
| | | | δ-BHC = UJ-C | Initial calibration RSD > 20% (20.09%) | Slight inaccuracy possible |
| | | | 4,4'-DDT = UJ-C | Continuing calibration RPD > 25% (26.0%) | Slight inaccuracy possible |
| | | MND28-1036-0001 | α-BHC = UJ-C | Initial calibration RSD > 20% (23.27%) | Slight inaccuracy possible |
| | | | δ-BHC = UJ-C | Initial calibration RSD > 20% (20.09%) | Slight inaccuracy possible |
| | | | 4,4'-DDT = UJ-C | Continuing calibration RPD > 25% (26.0%) | Slight inaccuracy possible |

## Table G.2

## Summary of Data Validation Qualifiers for Pesticide/PCB Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 011 (Continued) | 9308L508 (Continued) | MND28-1036-0002 | α-BHC = UJ-C | Initial calibration RSD > 20% (23.27%) | Slight inaccuracy possible |
| | | | δ-BHC = UJ-C | Initial calibration RSD > 20% (20.09%) | Slight inaccuracy possible |
| | | | 4,4'-DDT = UJ-C | Continuing calibration RPD > 25% (26.0%) | Slight inaccuracy possible |
| | | MND28-1036-1001 | α-BHC = UJ-C | Initial calibration RSD > 20% (23.27%) | Slight inaccuracy possible |
| | | | δ-BHC = UJ-C | Initial calibration RSD > 20% (20.09%) | Slight inaccuracy possible |
| | | | 4,4'-DDT = UJ-C | Continuing calibration RPD > 25% (26.0%) | Slight inaccuracy possible |

## Table G.2

## Summary of Data Validation Qualifiers for Pesticide/PCB Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 011 (Continued) | 9308L508 (Continued) | MND28-1043-0002 | α-BHC = UJ-C | Initial calibration RSD > 20% (23.27%) | Slight inaccuracy possible |
| | | | δ-BHC = UJ-C | Initial calibration RSD > 20% (20.09%) | Slight inaccuracy possible |
| | | | 4,4'-DDT = J-C | Continuing calibration RPD > 25% (26.0%) | Slight inaccuracy possible |
| | | | 4,4'-DDD = J-P | Results from two columns differ by > 25% (160%) | Analytical interference - inaccuracy possible |
| | | MND28-1044-0002 | α-BHC = UJ-C | Initial calibration RSD > 20% (23.27%) | Slight inaccuracy possible |
| | | | δ-BHC = UJ-C | Initial calibration RSD > 20% (20.09%) | Slight inaccuracy possible |
| | | | 4,4'-DDT = J-C | Continuing calibration RPD > 25% (26.0%) | Slight inaccuracy possible |
| | | | 4,4'-DDT = J-P | Results from two columns differ by > 25% (32%) | Analytical interference - inaccuracy possible |

## Table G.2

## Summary of Data Validation Qualifiers for Pesticide/PCB Analyses (Continued)

| Field Batch | Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|---|
| 011 (Continued) | 9308L508 (Continued) | MND28-1045-0002 | α-BHC = UJ-C | Initial calibration RSD > 20% (23.27%) | Slight inaccuracy possible |
| | | | δ-BHC = UJ-C | Initial calibration RSD > 20% (20.09%) | Slight inaccuracy possible |
| | | | 4,4'-DDT = UJ-C | Continuing calibration RPD > 25% (26.0%) | Slight inaccuracy possible |
| | | MND28-1036-4001 | All cpds = UJ-K(-) | Low surrogate recovery (TCMX = 55%/--; DCB = 50%/55%) | Possible false negative |

* Florisil cleanup not performed on this sample.
** All reanalysis results are acceptable.

Validation Qualifiers:

J/UJ-K - Estimated value/reporting limit due to surrogate recovery outside control limits.
J/UJ-C - Estimated value/reporting limit due to initial or continuing calibration outside control limits.
J/UJ-H - Estimated value/reporting limit due to extraction past holding time.
J-P - Estimated value/reporting limit due to results from two GC columns differing by > 25%.
(+) - Positive bias.
(-) - Negative bias.

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## Table G.3

## Summary of Data Validation Qualifiers for Radiological Analyses

| Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|
| S3-08-007 | MND28-1007-0001 | None | | |
| | MND28-1007-0002 | None | | |
| | MND28-1008-0001 | None | | |
| | MND28-1008-0002 | None | | |
| | MND28-1009-0001 | None | | |
| | MND28-1009-0002 | None | | |
| | MND28-1009-1001 | None | | |
| S3-08-008 | MND28-1009-4002 | None | | |
| | MND28-1003-4001 | None | | |
| S3-08-009 | MND28-1001-0001 | None | | |
| | MND28-1001-0002 | None | | |
| | MND28-1002-0001 | None | | |
| | MND28-1002-0002 | None | | |
| | MND28-1003-0001 | None | | |
| | MND28-1003-0002 | None | | |
| | MND28-1003-1001 | None | | |
| S3-08-012 | MND28-1028-4002 | None | | |
| S3-08-013 | MND28-1043-0001 | None | | |
| | MND28-1044-0001 | None | | |

## Table G.3

## Summary of Data Validation Qualifiers for Radiological Analyses (Continued)

| Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|
| S3-08-013 (Continued) | MND28-1045-0001 | None | | |
| | MND28-1028-0001 | None | | |
| | MND28-1028-0002 | None | | |
| | MND28-1029-0001 | None | | |
| | MND28-1029-0002 | None | | |
| | MND28-1030-0001 | None | | |
| | MND28-1030-0002 | None | | |
| | MND28-1028-1002 | None | | |
| S3-08-014 | MND28-1015-4001 | None | | |
| S3-08-015 | MND28-1010-0001 | None | | |
| | MND28-1010-0002 | None | | |
| | MND28-1011-0001 | None | | |
| | MND28-1011-0002 | None | | |
| | MND28-1012-0001 | None | | |
| | MND28-1012-0002 | None | | |
| | MND28-1013-0001 | $H_3$ = J-IC | Inconsistent counts | Inaccuracy possible |
| | MND28-1013-0002 | None | | |
| | MND28-1014-0001 | $H_3$ = J-IC | Inconsistent counts | Inaccuracy possible |

## Table G.3

## Summary of Data Validation Qualifiers for Radiological Analyses (Continued)

| Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|
| S3-08-015 (Continued) | MND28-1014-0002 | None | | |
| | MND28-1015-0001 | None | | |
| | MND28-1015-0002 | None | | |
| | MND28-1015-1001 | None | | |
| S3-08-016 | MND28-1024-4002 | None | | |
| S3-08-017 | MND28-1022-0001 | $H_3$ = J-IC | Inconsistent counts | Inaccuracy possible |
| | MND28-1022-0002 | None | | |
| | MND28-1023-0001 | None | | |
| | MND28-1023-0002 | None | | |
| | MND28-1024-0001 | $H_3$ = J-IC | Inconsistent counts | Inaccuracy possible |
| | MND28-1024-0002 | None | | |
| | MND28-1027-1001 | None | | |
| | MND28-1026-0001 | None | | |
| | MND28-1025-0001 | $H_3$ = J-IC | Inconsistent counts | Inaccuracy possible |
| | MND28-1025-0002 | None | | |
| | MND28-1026-0002 | None | | |
| S3-08-019 | MND28-1036-4001 | None | | |
| S3-08-020 | MND28-1027-0001 | None | | |

## Table G.3

### Summary of Data Validation Qualifiers for Radiological Analyses (Continued)

| Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|
| S3-08-020 (Continued) | MND28-1027-0002 | None | | |
| S3-08-021 | MND28-1034-0001 | None | | |
| | MND28-1034-0002 | None | | |
| | MND28-1035-0001 | $H_3$ = J-IC(+) | Inconsistent and increasing counts | Inaccuracy possible |
| | MND28-1035-0002 | None | | |
| | MND28-1036-0001 | $H_3$ = J-IC(+) | Inconsistent and increasing counts | Inaccuracy possible |
| | MND28-1036-0002 | None | | |
| | MND28-1036-1001 | None | | |
| | MND28-1043-0002 | None | | |
| | MND28-1044-0002 | $H_3$ = J-IC(+) | Inconsistent and increasing counts | Inaccuracy possible |
| | MND28-1045-0002 | None | | |
| S3-07-038 | MND28-1046-0001 | None | | |
| | MND28-1046-0002 | None | | |
| | MND28-1047-0001 | None | | |
| | MND28-1047-0002 | None | | |
| | MND28-1048-0001 | None | | |

## Table G.3

## Summary of Data Validation Qualifiers for Radiological Analyses (Continued)

| Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|
| S3-08-038 (Continued) | MND28-1048-0002 | None | | |
| S3-07-041 | MND28-1005-0001 | None | | |
| | MND28-1005-0002 | None | | |
| | MND28-1005-1001 | None | | |
| | MND28-1006-0001 | None | | |
| | MND28-1006-0002 | None | | |
| S3-07-050 | MND28-1004-0001 | None | | |
| | MND28-1004-0002 | None | | |
| S3-07-051 | MND28-1006-4001 | None | | |
| S3-07-053 | MND28-1016-0001 | None | | |
| | MND28-1016-0002 | None | | |
| | MND28-1017-0001 | None | | |
| | MND28-1017-0002 | None | | |
| | MND28-1018-0001 | None | | |
| | MND28-1018-0002 | None | | |
| S3-07-054 | MND28-1039-4001 | None | | |
| | MND28-1040-4002 | None | | |
| S3-07-055 | MND28-1038-0001 | None | | |

## Table G.3

## Summary of Data Validation Qualifiers for Radiological Analyses (Continued)

| Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|
| S3-07-055 (Continued) | MND28-1038-0002 | None | | |
| | MND28-1039-0001 | None | | |
| | MND28-1039-0002 | None | | |
| | MND28-1038-1002 | None | | |
| | MND28-1040-0001 | None | | |
| | MND28-1040-0002 | None | | |
| | MND28-1040-1001 | None | | |
| | MND28-1041-0001 | None | | |
| | MND28-1041-0002 | None | | |
| | MND28-1042-0001 | None | | |
| S3-07-056 | MND28-1042-0002 | None | | |
| | MND28-1037-0001 | None | | |
| | MND28-1037-0002 | None | | |
| S3-07-057 | MND28-1019-0001 | None | | |
| | MND28-1019-0002 | None | | |
| | MND28-1020-0001 | None | | |
| | MND28-1020-0002 | None | | |
| | MND28-1021-0001 | $H_3$ = J-IC | Inconsistent counts | Inaccuracy possible |

## Table G.3

## Summary of Data Validation Qualifiers for Radiological Analyses (Continued)

| Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|
| S3-07-057 (Continued) | MND28-1021-0002 | None | | |
| S3-07-061 | MND28-1031-0001 | None | | |
| | MND28-1031-0002 | None | | |
| | MND28-1032-0001 | $H_3$ = J-IC | Inconsistent counts | Inaccuracy possible |
| | MND28-1032-0002 | None | | |
| | MND28-1032-1002 | None | | |
| S3-07-062 | MND28-1032-4002 | None | | |
| S3-07-063 | MND28-1033-0001 | $H_3$ = J-IC | Inconsistent counts | Inaccuracy possible |
| | MND28-1033-0002 | None | | |

Validation Qualifiers:
J-IC - Estimated value due to inconsistent counts.
J-IC(+) - Estimated value due to inconsistent and increasing counts.

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## Table G.4

## Summary of Data Validation Qualifiers for Anion/TOC Analyses

| Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|
| All | All | $Cl^-$ = J/UJ-H(-) | Analysis past holding time | Significant bias unlikely |
| | | $F^-$ = J/UJ-H(-) | Analysis past holding time | Significant bias unlikely |
| | | $NO_3^-/NO_2^-$ = J/UJ-H(-) | Analysis past holding time | Significant bias unlikely |
| | | TOC = J/UJ-H(-) | Analysis past holding time | Significant bias unlikely |
| | | $SO_4^{2-}$ = J/UJ-H(-) | Analysis past holding time | Significant bias unlikely |
| 9311L726 | MND28-1040-0001 | $Cl^-$ = J-D | Field duplicate RPD > 50% (155%) | Potential inaccuracy |
| | | $F^-$ = J-S(-) | MS recovery < 75% (66.6% & 70.4%) | Possible low bias |
| | MND28-1040-1001 | $Cl^-$ = J-D | Field duplicate RPD > 50% (155%) | Potential inaccuracy |
| 9311L727 | MND28-1039-0001 | $NO_3^-/NO_2^-$ = J-D | Field duplicate RPD > 50% (94%) | Potential inaccuracy |
| | | TOC = J-D | Field duplicate RPD > 50% (123%) | Potential inaccuracy |
| | MND28-1039-1001 | $NO_3^-/NO_2^-$ = J-D | Field duplicate RPD > 50% (94%) | Potential inaccuracy |
| | | TOC = J-D | Field duplicate RPD > 50% (123%) | Potential inaccuracy |
| 9311L728 | MND28-1019-0002 | $NO_3^-/NO_2^-$ = UJ-B(+) | Equipment blank contamination (0.21 mg/L) | Negligible bias likely |
| | MND28-1020-0002 | $NO_3^-/NO_2^-$ = UJ-B(+) | Equipment blank contamination (0.21 mg/L) | Negligible bias likely |
| | MND28-1021-0002 | $NO_3^-/NO_2^-$ = UJ-B(+) | Equipment blank contamination (0.21 mg/L) | Negligible bias likely |

## Table G.4

## Summary of Data Validation Qualifiers for Anion/TOC Analyses (Continued)

| Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|
| 9311L728 (Continued) | MND28-1031-0001 | $NO_3^-/NO_2^-$ = UJ-B(+) | Equipment blank contamination (0.21 mg/L) | Negligible bias likely |
| | MND28-1031-0002 | $NO_3^-/NO_2^-$ = UJ-B(+) | Equipment blank contamination (0.21 mg/L) | Negligible bias likely |
| | MND28-1032-0001 | $NO_3^-/NO_2^-$ = UJ-B(+) | Equipment blank contamination (0.21 mg/L) | Negligible bias likely |
| | MND28-1032-0002 | $NO_3^-/NO_2^-$ = UJ-B(+)<br>TOC = J-D | Equipment blank contamination (0.21 mg/L)<br>Field duplicate RPD > 50% (144%) | Negligible bias likely<br>Potential inaccuracy |
| | MND28-1032-1002 | $NO_3^-/NO_2^-$ = UJ-B(+)<br>TOC = J-D | Equipment blank contamination (0.21 mg/L)<br>Field duplicate RPD > 50% (144%) | Negligible bias likely<br>Potential inaccuracy |
| 9311L730 | MND28-1002-0001 | $NO_3^-/NO_2^-$ = J-S(+) | MS recovery > 125% (138%) | Possible high bias |
| | MND28-1003-0001 | $SO_4^{2-}$ = J-D | Field duplicate RPD > 50% (65%) | Potential inaccuracy |
| | MND28-1003-1001 | TOC = J-D<br>$SO_4^{2-}$ = J-D | Lab duplicate RPD > 35% (37.1%)<br>Field duplicate RPD > 50% (65%) | Potential inaccuracy<br>Potential inaccuracy |
| 9311L731 | MND28-1009-0001 | $NO_3^-/NO_2^-$ = J-D | Field duplicate RPD > 50% (81%) | Potential inaccuracy |
| | MND28-1009-1001 | $NO_3^-/NO_2^-$ = J-D | Field duplicate RPD > 50% (81%) | Potential inaccuracy |
| 9311L732 | MND28-1015-0001 | TOC = J-D | Field duplicate RPD > 50% (55%) | Potential inaccuracy |

## Table G.4

## Summary of Data Validation Qualifiers for Anion/TOC Analyses (Continued)

| Laboratory Batch | Sample Identification | Validation Qualifier | Reason Qualified | Impact |
|---|---|---|---|---|
| 9311L732 (Continued) | MND28-1015-1001 | TOC = J-D | Field duplicate RPD > 50% (55%) | Potential inaccuracy |
| 9311L733 (Continued) | MND28-1027-1001 | TOC = J-D | Field duplicate RPD > 50% (102%) | Potential inaccuracy |
| | MND28-1027-0001 | TOC = J-D | Field duplicate RPD > 50% (102%) | Potential inaccuracy |
| 9311L735 | MND28-1036-0001 | $Cl^-$ = J-D | Field duplicate RPD > 50% (96%) | Potential inaccuracy |
| | MND28-1036-1001 | $Cl^-$ = J-D | Field duplicate RPD > 50% (96%) | Potential inaccuracy |

Validation Qualifiers:
J/UJ-H - Estimated value/reporting limit due to analysis past holding time.
J-D - Estimated value due to field or lab duplicate RPD outside control limits.
J-S - Estimated value due to matrix spike recovery outside control limits.
(-) - Negative bias.
(+) - Positive bias.

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# APPENDIX H

# APPENDIX H

## TABULATED ANALYTICAL DATA

Inorganics
Pesticides/PCBs
Radionuclides
Anions

**Table H.1 Sample Identification Scheme**

| Sample | Identification Scheme |
|---|---|
| Field Duplicate | MNDXX-YYYY-1ZZZZ |
| Trip Blank | MNDXX-YYYY-2ZZZZ |
| Field Ambient Blank/Sample Bank Blank | MNDXX-YYYY-3ZZZZ |
| Equipment Rinsate Blank | MNDXX-YYYY-4ZZZZ |

Notes:

MND = Mound Plant
XX = Area or investigation identifier
YYYY = Sample location number
ZZZZ = Sample round or sample depth

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| ALUMINUM, TOTAL | 0999 | 07/21/93 | 0006 | MG/KG | | 1680. | 3.5 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | J | 10800. | 3.9 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | J | 11300. | 3.9 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | J | 13700. | 4.0 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | J | 11200. | 4.1 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | J | 14200. | 4.4 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | J | 12900. | 3.9 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | J | 13700. | 4.1 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | | 10200. | 5.58 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | | 9830. | 5.1 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | | 16100. | 1.4 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | | 12800. | 5.5 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | | 12600. | 5.4 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | | 12200. | 5.8 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | | 15500. | 5.4 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | J | 12300. | 3.9 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | J | 12000. | 3.7 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | J | 11500. | 3.8 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | J | 16300. | 3.9 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | J | 13100. | 4.0 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | J | 13400. | 4.1 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | J | 11600. | 4.0 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | | 8850. | 3.8 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | | 11700. | 4.0 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | | 6370. | 3.8 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | | 12000. | 4.0 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | | 7890. | 3.9 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | | 14600. | 4.0 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | | 7450. | 3.8 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | | 5760. | 3.5 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | | 6440. | 3.6 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | | 4780. | 3.8 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | | 4810. | 3.8 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | | 4600. | 3.6 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | | 5340. | 3.8 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | | 3960. | 3.8 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | | 466. | 4.0 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | | 3340. | 3.7 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | | 3340. | 4.0 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | | 3940. | 3.8 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | | 3680. | 4.0 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | | 5580. | 4.1 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | | 11800. | 4.0 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | | 4930. | 4.0 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | | 21600. | 4.3 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | | 4940. | 3.7 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | | 13100. | 3.9 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | | 4640. | 4.2 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | | 3400. | 4.2 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | | 10300. | 4.2 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | | 3960. | 4.0 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | | 9350. | 4.2 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | | 4630. | 4.2 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | | 6800. | 4.0 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | | 5610. | 3.9 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | | 8570. | 4.1 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | | 4870. | 3.9 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | | 8230. | 4.1 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | | 6750. | 3.9 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | | 7940. | 4.2 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | | 8430. | 3.9 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | | 5940. | 3.8 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: NWD28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| ALUMINUM, TOTAL | 1028 | 08/05/93 | 1002 | MG/KG | | 6520. | 3.7 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | | 8880. | 3.8 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | | 4160. | 3.8 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | | 8720. | 3.8 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | | 5070. | 3.8 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | | 6000. | 4.0 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | | 13800. | 4.1 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | | 5740. | 4.1 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | J | 14100. | 4.5 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | | 11400. | 4.3 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | J | 7560. | 4.2 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | J | 12500. | 4.3 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | | 10700. | 3.9 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | | 14200. | 3.6 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | | 9910. | 4.1 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | | 9690. | 3.7 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | | 8350. | 4.1 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | | 10100. | 3.1 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | | 8360. | 3.5 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | | 11700. | 4.1 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | | 6750. | 3.9 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | | 10900. | 4.3 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | | 13000. | 4.4 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | | 11600. | 4.1 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | | 8420. | 4.3 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | | 11500. | 4.3 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | | 14300. | 4.4 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | | 70800. | 4.3 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | | 15700. | 4.2 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | | 12700. | 4.6 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | | 18900. | 4.4 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | | 12600. | 4.0 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | | 14300. | 4.2 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | | 13100. | 4.1 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | | 11200. | 3.6 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | | 11100. | 4.1 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | | 11400. | 3.8 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | | 12000. | 4.0 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | | 10100. | 3.4 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | | 6180. | 4.7 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | | 6990. | 4.5 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | | 6290. | 4.7 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | | 6900. | 4.8 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | | 6770. | 4.7 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | | 7290. | 4.8 | I |
| ANTIMONY, TOTAL | 0999 | 07/21/93 | 0006 | MG/KG | | R | 0.34 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | | R | 0.45 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | | R | 0.44 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | | R | 0.45 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | | R | 0.44 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | | R | 0.47 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | | R | 0.41 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | | R | 0.43 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | | R | 0.48 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | | R | 0.44 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | | R | 0.47 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | | R | 0.45 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | | R | 0.47 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | | R | 0.48 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | | R | 0.45 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | | R | 0.39 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| ANTIMONY, TOTAL | 1007 | 08/02/93 | 0002 | MG/KG | | R | 0.39 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | | R | 0.43 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | | R | 0.42 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | | R | 0.45 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | | R | 0.45 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | | R | 0.46 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | | R | 0.42 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | | R | 0.43 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | | R | 0.42 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | | R | 0.44 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | | R | 0.43 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | | R | 0.42 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | | R | 0.43 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | | R | 0.41 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | | R | 0.39 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | | R | 0.39 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | | R | 0.41 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | | R | 0.41 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | | R | 0.43 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | | R | 0.40 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | | R | 0.44 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | | R | 0.44 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | | R | 0.45 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | | R | 0.45 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | | R | 0.44 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | | R | 0.46 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | | R | 0.43 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | | R | 0.44 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | | R | 0.46 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | | R | 0.42 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | | R | 0.43 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | | R | 0.47 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | | R | 0.47 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | | R | 0.47 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | | R | 0.45 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | | R | 0.46 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | | R | 0.47 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | | R | 0.45 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | | R | 0.43 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | | R | 0.45 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | | R | 0.43 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | | R | 0.46 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | | R | 0.44 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | | R | 0.47 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | | R | 0.43 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | | R | 0.42 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | | R | 0.21 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | | R | 0.43 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | | R | 0.42 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | | R | 0.42 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | | R | 0.42 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | | R | 0.44 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | | R | 0.49 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | | R | 0.45 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | | R | 0.50 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | | R | 0.47 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | | R | 0.47 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | | R | 0.49 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | UJ | 0.43 | 0.43 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | UJ | 0.40 | 0.40 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | UJ | 0.45 | 0.45 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | UJ | 0.41 | 0.41 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| ANTIMONY, TOTAL | 1036 | 08/06/93 | 0001 | MG/KG | UJ | 0.45 | 0.45 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | UJ | 0.34 | 0.34 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | UJ | 0.39 | 0.39 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | | R | 0.47 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | | R | 0.45 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | | R | 0.47 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | | R | 0.48 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | | R | 0.45 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | | R | 0.48 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | | R | 0.46 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | | R | 0.49 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | | R | 0.48 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | | R | 0.47 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | | R | 0.51 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | | R | 0.50 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | | R | 0.47 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | | R | 0.48 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | | R | 0.46 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | UJ | 0.40 | 0.40 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | | R | 0.23 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | UJ | 0.42 | 0.42 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | | R | 0.45 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | U | 0.38 | 0.38 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | | R | 0.47 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | | R | 0.47 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | | R | 0.47 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | | R | 0.47 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | | R | 0.45 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | | R | 0.48 | I |
| ARSENIC, TOTAL | 0999 | 07/21/93 | 0006 | MG/KG | UJ | 0.39 | 0.39 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | | 7.0 | 0.45 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | | 5.4 | 0.44 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | | 8.3 | 0.44 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | | 8.2 | 0.44 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | | 7.0 | 0.47 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | | 11.1 | 0.41 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | | 8.1 | 0.43 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | J | 3.0 | 0.48 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | B | 1.4 | 0.44 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | | 3.7 | 0.47 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | | 3.8 | 0.45 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | | 3.9 | 0.47 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | | 5.1 | 0.48 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | | 3.2 | 0.45 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | | 4.1 | 0.40 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | | 4.2 | 0.39 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | | 5.2 | 0.43 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | | 5.2 | 0.42 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | | 4.7 | 0.45 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | J | 4.6 | 0.45 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | | 5.0 | 0.46 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | J | 2.4 | 0.42 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | | 2.8 | 0.43 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | J | 2.5 | 0.43 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | | 3.2 | 0.44 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | J | 5.1 | 0.43 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | | 6.6 | 0.42 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | | 8.2 | 0.86 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | | 6.9 | 0.40 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | | 8.8 | 0.43 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | | 7.2 | 0.39 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| ARSENIC, TOTAL | 1015 | 08/03/93 | 0001 | MG/KG | | 5.7 | 0.41 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | | 5.8 | 0.42 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | | 6.9 | 0.43 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | | 4.7 | 0.40 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | | 4.5 | 0.44 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | | 4.8 | 0.44 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | | 4.4 | 0.45 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | | 4.6 | 0.45 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | | 5.6 | 0.44 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | | 3.5 | 0.46 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | | 5.2 | 0.43 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | | 3.5 | 0.44 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | | 3.8 | 0.45 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | | 4.1 | 0.42 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | | 7.2 | 0.43 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | | 5.0 | 0.47 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | | 6.1 | 0.47 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | | 8.2 | 0.47 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | B | 4.1 | 0.44 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | J | 7.3 | 0.46 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | | 5.3 | 0.47 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | | 5.1 | 0.45 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | B | 3.3 | 0.43 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | J | 4.9 | 0.45 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | | 4.7 | 0.43 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | | 6.3 | 0.46 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | | 4.6 | 0.44 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | | 6.9 | 0.47 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | | 6.2 | 0.43 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | | 6.7 | 0.42 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | | 4.3 | 0.41 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | | 6.9 | 0.43 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | | 6.1 | 0.42 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | | 6.4 | 0.42 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | | 5.6 | 0.42 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | | 6.2 | 0.44 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | | 3.4 | 0.49 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | | 5.6 | 0.46 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | J | 3.5 | 0.50 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | | 2.8 | 0.47 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | | 8.7 | 0.47 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | | 6.9 | 0.49 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | | 5.3 | 0.44 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | | 6.0 | 0.40 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | J | 4.3 | 0.45 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | | 5.2 | 0.41 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | | 4.1 | 0.46 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | | 2.9 | 0.33 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | | 5.1 | 0.38 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | | 7.2 | 0.47 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | | 8.2 | 0.45 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | | 6.6 | 0.47 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | J | 5.3 | 0.48 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | J | 2.8 | 0.45 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | | 8.2 | 0.48 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | | 7.7 | 0.46 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | J | 8.3 | 0.49 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | | 4.3 | 0.48 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | J | 4.2 | 0.47 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | | 4.9 | 0.51 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | | 7.4 | 0.50 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | | 4.6 | 0.47 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| ARSENIC, TOTAL | 1042 | 07/18/93 | 0002 | MG/KG | | 5.9 | 0.48 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | J | 3.3 | 0.46 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | | 1.9 | 0.32 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | | 3.7 | 0.45 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | | 2.3 | 0.39 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | | 3.5 | 0.45 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | | 2.7 | 0.41 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | | 5.1 | 0.47 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | | 5.2 | 0.47 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | | 5.1 | 0.47 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | | 5.6 | 0.47 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | | 7.4 | 0.45 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | | 5.7 | 0.48 | I |
| BARIUM, TOTAL | 0999 | 07/21/93 | 0006 | MG/KG | | 41.1 | 0.59 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | | 114. | 0.64 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | | 82.5 | 0.65 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | | 121. | 0.67 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | | 87.6 | 0.68 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | | 143. | 0.73 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | | 87.5 | 0.65 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | | 116. | 0.68 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | | 99.0 | 0.72 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | | 63.5 | 0.67 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | | 162. | 0.68 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | | 121. | 0.71 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | | 134. | 0.71 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | | 122. | 0.75 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | | 134. | 0.70 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | | 85.0 | 0.65 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | | 81.1 | 0.61 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | | 83.6 | 0.63 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | | 101. | 0.66 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | | 83.4 | 0.67 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | | 85.5 | 0.68 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | | 80.7 | 0.67 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | | 75.0 | 0.64 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | | 79.7 | 0.66 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | | 43.5 | 0.64 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | | 83.7 | 0.67 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | | 58.7 | 0.65 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | | 87.3 | 0.67 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | | 54.8 | 0.63 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | | 39.9 | 0.59 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | | 63.9 | 0.60 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | | 49.1 | 0.64 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | | 42.8 | 0.63 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | B | 36.1 | 0.60 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | | 46.8 | 0.64 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | | 54.7 | 0.63 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | | 57.1 | 0.66 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | | 49.1 | 0.62 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | | 49.1 | 0.67 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | | 54.5 | 0.63 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | | 54.4 | 0.67 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | | 51.2 | 0.68 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | | 124. | 0.67 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | | 55.7 | 0.66 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | | 140. | 0.71 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | | 50.3 | 0.62 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | | 71.3 | 0.65 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | J | 69.0 | 0.70 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| BARIUM, TOTAL | 1022 | 08/04/93 | 0002 | MG/KG | J | 70.7 | 0.70 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | J | 121. | 0.70 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | J | 46.4 | 0.66 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | J | 106. | 0.70 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | J | 58.8 | 0.71 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | J | 68.0 | 0.67 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | JB | 37.9 | 0.64 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | J | 74.4 | 0.68 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | JB | 32.2 | 0.65 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | J | 72.5 | 0.69 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | JB | 43.1 | 0.66 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | J | 76.7 | 0.71 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | | 62.9 | 0.64 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | B | 38.0 | 0.64 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | | 42.1 | 0.62 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | | 70.6 | 0.64 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | B | 30.0 | 0.63 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | | 68.8 | 0.63 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | B | 37.5 | 0.63 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | | 95.1 | 0.66 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | | 251. | 0.68 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | | 92.2 | 0.69 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | | 250. | 0.75 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | | 206. | 0.71 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | J | 91.4 | 0.71 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | J | 201. | 0.71 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | | 105. | 0.65 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | | 132. | 0.60 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | | 96.5 | 0.68 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | | 92.6 | 0.62 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | | 80.2 | 0.68 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | | 72.3 | 0.51 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | | 75.3 | 0.59 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | | 90.8 | 0.68 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | | 53.2 | 0.65 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | | 98.7 | 0.72 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | | 89.5 | 0.73 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | | 86.0 | 0.68 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | | 79.9 | 0.72 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | | 76.8 | 0.72 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | | 156. | 0.74 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | | 143. | 0.71 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | | 169. | 0.70 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | | 133. | 0.76 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | | 166. | 0.73 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | | 126. | 0.67 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | | 125. | 0.70 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | | 120. | 0.69 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | | 57.3 | 0.59 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | | 60.2 | 0.68 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | | 58.4 | 0.63 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | | 63.6 | 0.67 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | | 50.2 | 0.57 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | | 93.6 | 0.71 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | | 105. | 0.67 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | | 89.3 | 0.71 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | | 101. | 0.71 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | | 92.0 | 0.70 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | | 110. | 0.72 | I |
| BERYLLIUM, TOTAL | 0999 | 07/21/93 | 0006 | MG/KG | | 0.40 | 0.20 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | | 0.82 | 0.21 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| BERYLLIUM, TOTAL | 1001 | 08/01/93 | 0002 | MG/KG | | 0.72 | 0.22 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | | 0.92 | 0.22 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | | 0.75 | 0.23 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | | 1.00 | 0.24 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | | 0.72 | 0.22 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | | 0.93 | 0.23 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | B | 0.99 | 0.24 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | B | 0.73 | 0.22 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | | 1.5 | 0.23 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | | 0.99 | 0.24 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | | 1.1 | 0.24 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | | 1.0 | 0.25 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | | 1.2 | 0.23 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | | 0.72 | 0.22 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | | 0.73 | 0.20 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | | 0.87 | 0.21 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | | 0.95 | 0.22 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | | 0.91 | 0.22 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | | 0.75 | 0.23 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | | 0.92 | 0.22 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | | 0.67 | 0.21 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | | 0.69 | 0.22 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | | 0.40 | 0.21 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | | 0.80 | 0.22 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | B | 0.54 | 0.22 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | B | 0.88 | 0.22 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | B | 0.61 | 0.21 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | B | 0.37 | 0.20 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | B | 0.50 | 0.20 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | B | 0.40 | 0.21 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | B | 0.48 | 0.21 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | B | 0.29 | 0.20 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | B | 0.45 | 0.21 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | | 0.43 | 0.21 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | B | 0.45 | 0.22 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | B | 0.30 | 0.21 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | B | 0.30 | 0.22 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | | 0.33 | 0.21 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | B | 0.30 | 0.22 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | | 0.46 | 0.23 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | | 0.92 | 0.22 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | | 0.45 | 0.22 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | | 1.8 | 0.24 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | | 0.42 | 0.21 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | | 0.88 | 0.22 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | | 0.61 | 0.23 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | | 0.41 | 0.23 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | | 1.1 | 0.23 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | | 0.54 | 0.22 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | | 1.2 | 0.23 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | | 0.57 | 0.24 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | | 0.88 | 0.22 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | B | 0.57 | 0.21 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | | 0.75 | 0.23 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | | 0.48 | 0.22 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | | 0.82 | 0.23 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | | 0.53 | 0.22 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | | 0.78 | 0.24 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | | 0.64 | 0.21 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | | 0.52 | 0.21 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | | 0.51 | 0.21 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | | 0.70 | 0.21 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| BERYLLIUM, TOTAL | 1029 | 08/05/93 | 0002 | MG/KG | | 0.34 | 0.21 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | | 0.75 | 0.21 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | | 0.40 | 0.21 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | B | 0.91 | 0.22 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | | 2.4 | 0.23 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | B | 0.82 | 0.23 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | | 1.7 | 0.25 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | | 2.2 | 0.24 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | | 0.78 | 0.24 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | | 1.8 | 0.24 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | UJ | 1.2 | 0.22 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | UJ | 1.1 | 0.20 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | UJ | 0.93 | 0.23 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | UJ | 0.94 | 0.21 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | UJ | 0.82 | 0.23 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | UJ | 0.74 | 0.17 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | UJ | 0.76 | 0.20 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | | 0.89 | 0.23 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | | 0.52 | 0.22 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | | 1.0 | 0.24 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | | 0.90 | 0.24 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | | 0.80 | 0.23 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | | 0.74 | 0.24 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | | 0.90 | 0.24 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | | 1.0 | 0.25 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | B | 1.1 | 0.24 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | | 1.2 | 0.23 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | | 1.1 | 0.25 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | | 1.4 | 0.24 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | | 1.2 | 0.22 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | | 1.0 | 0.23 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | | 0.93 | 0.23 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | UJ | 0.81 | 0.20 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | | 0.74 | 0.23 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | UJ | 0.72 | 0.21 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | | 0.73 | 0.22 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | UJ | 0.69 | 0.19 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | B | 0.78 | 0.24 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | | 0.50 | 0.22 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | | 0.47 | 0.24 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | | 0.48 | 0.24 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | | 0.52 | 0.23 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | | 0.48 | 0.24 | I |
| BISMUTH, TOTAL | 0999 | 07/21/93 | 0006 | MG/KG | U | 26.7 | 26.7 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | U | 29.1 | 29.1 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | U | 29.6 | 29.6 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | U | 30.4 | 30.4 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | UJ | 39.3 | 30.7 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | U | 33.0 | 33.0 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | UJ | 37.6 | 29.6 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | U | 30.8 | 30.8 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | UJ | 32.5 | 32.5 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | J | 35.1 | 30.4 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | U | 30.9 | 30.9 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | JB | 35.1 | 32.4 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | U | 32.0 | 32.0 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | | 38.4 | 34.1 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | U | 32.0 | 32.0 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | U | 29.5 | 29.5 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | U | 27.6 | 27.6 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | U | 28.8 | 28.8 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| BISMUTH, TOTAL | 1008 | 08/02/93 | 0002 | MG/KG | U | 29.6 | 29.6 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | U | 30.3 | 30.3 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | U | 30.6 | 30.6 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | U | 30.4 | 30.4 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | U | 29.1 | 29.1 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | U | 29.9 | 29.9 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | U | 28.9 | 28.9 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | U | 30.6 | 30.6 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | U | 29.4 | 29.4 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | U | 30.3 | 30.3 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | U | 28.5 | 28.5 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | U | 26.8 | 26.8 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | U | 27.3 | 25.2 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | U | 29.0 | 29.0 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | U | 28.4 | 28.4 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | U | 27.1 | 27.1 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | U | 29.0 | 29.0 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | U | 28.6 | 28.6 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | U | 30.0 | 30.0 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | U | 30.4 | 30.4 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | U | 30.4 | 30.4 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | U | 28.3 | 28.3 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | U | 30.4 | 30.4 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | U | 30.7 | 30.7 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | U | 30.6 | 30.6 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | U | 30.0 | 30.0 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | U | 32.5 | 32.5 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | U | 28.2 | 28.2 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | U | 29.3 | 29.3 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | U | 31.6 | 31.6 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | U | 31.8 | 31.8 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | U | 31.5 | 31.5 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | U | 30.3 | 30.3 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | U | 31.5 | 31.5 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | U | 32.1 | 32.1 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | U | 30.5 | 30.5 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | U | 29.2 | 29.2 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | UJ | 30.8 | 30.8 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | U | 29.5 | 29.5 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | U | 31.5 | 31.5 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | U | 29.8 | 29.8 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | U | 32.1 | 32.1 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | U | 29.1 | 29.1 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | U | 28.8 | 28.8 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | U | 28.1 | 28.1 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | U | 29.0 | 29.0 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | U | 28.5 | 28.5 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | U | 28.8 | 28.8 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | U | 28.3 | 28.3 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | U | 30.0 | 30.0 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | U | 30.9 | 30.9 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | U | 31.2 | 31.2 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | U | 33.9 | 33.9 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | U | 32.2 | 32.2 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | U | 36.3 | 32.1 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | U | 32.1 | 32.1 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | UJ | 29.4 | 29.4 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | UJ | 27.1 | 27.1 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | UJ | 30.8 | 30.8 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | UJ | 28.1 | 28.1 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | U | 30.8 | 30.8 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | U | 23.3 | 23.3 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| BISMUTH, TOTAL | 1036 | 08/06/93 | 1001 | MG/KG | U | 26.6 | 26.6 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | U | 36.5 | 36.5 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | U | 29.6 | 29.6 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | U | 32.4 | 32.4 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | U | 32.8 | 32.8 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | U | 31.0 | 31.0 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | U | 32.7 | 32.7 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | U | 32.8 | 32.8 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | U | 33.4 | 33.4 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | U | 32.4 | 32.4 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | U | 31.8 | 31.8 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | U | 34.5 | 34.5 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | U | 32.9 | 32.9 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | U | 30.2 | 30.2 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | U | 31.8 | 31.8 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | U | 31.1 | 31.1 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | U | 27.0 | 27.0 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | U | 31.0 | 31.0 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | U | 28.8 | 28.8 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | U | 30.3 | 30.3 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | U | 25.7 | 25.7 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | U | 32.1 | 32.1 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | U | 30.4 | 30.4 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | U | 32.1 | 32.1 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | U | 32.6 | 32.6 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | U | 32.1 | 32.1 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | U | 32.4 | 32.4 | I |
| CADMIUM, TOTAL | 0999 | 07/21/93 | 0006 | MG/KG | U | 0.39 | 0.39 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | B | 0.75 | 0.43 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | U | 0.43 | 0.43 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | B | 0.69 | 0.45 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | U | 0.45 | 0.45 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | B | 0.56 | 0.49 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | U | 0.43 | 0.43 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | B | 0.96 | 0.45 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | UJ | 0.48 | 0.48 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | UJ | 0.44 | 0.44 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | U | 0.45 | 0.45 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | U | 0.48 | 0.48 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | U | 0.47 | 0.47 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | U | 0.50 | 0.50 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | U | 0.47 | 0.47 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | UJ | 0.43 | 0.43 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | UJ | 0.41 | 0.41 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | JB | 0.57 | 0.42 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | JB | 0.51 | 0.44 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | UJ | 0.45 | 0.45 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | UJ | 0.45 | 0.45 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | B | 0.52 | 0.45 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | U | 0.43 | 0.43 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | U | 0.44 | 0.44 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | U | 0.42 | 0.42 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | U | 0.45 | 0.45 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | U | 0.43 | 0.43 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | UJ | 0.45 | 0.45 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | UJ | 0.42 | 0.42 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | UJ | 0.39 | 0.39 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | UJ | 0.42 | 0.37 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | UJ | 0.43 | 0.43 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | UJ | 0.42 | 0.42 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | UJ | 0.40 | 0.40 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| CADMIUM, TOTAL | 1015 | 08/03/93 | 1001 | MG/KG | UJB | 0.98 | 0.42 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | UJ | 0.42 | 0.42 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | J | 3.2 | 0.44 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | UJ | 0.41 | 0.41 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | UJ | 0.45 | 0.45 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | UJ | 0.42 | 0.42 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | UJ | 0.45 | 0.45 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | UJ | 0.45 | 0.45 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | UJ | 0.45 | 0.45 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | UJ | 0.44 | 0.44 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | UJ | 0.48 | 0.48 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | UJ | 0.41 | 0.41 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | UJ | 0.43 | 0.43 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | U | 0.47 | 0.47 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | UJ | 0.47 | 0.47 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | UJB | 0.64 | 0.47 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | U | 0.45 | 0.45 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | U | 0.46 | 0.46 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | U | 0.47 | 0.47 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | U | 0.45 | 0.45 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | J | 2.7 | 0.43 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | U | 0.45 | 0.45 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | U | 0.43 | 0.43 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | UJB | 0.48 | 0.46 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | UJB | 0.75 | 0.44 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | U | 0.47 | 0.47 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | U | 0.43 | 0.43 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | B | 0.45 | 0.42 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | U | 0.41 | 0.41 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | U | 0.43 | 0.43 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | U | 0.42 | 0.42 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | U | 0.42 | 0.42 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | U | 0.42 | 0.42 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | U | 0.44 | 0.44 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | U | 0.45 | 0.45 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | U | 0.46 | 0.46 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | U | 0.50 | 0.50 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | UJB | 0.53 | 0.48 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | U | 0.47 | 0.47 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | U | 0.47 | 0.47 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | U | 0.43 | 0.43 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | JB | 0.66 | 0.40 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | B | 0.67 | 0.45 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | B | 0.54 | 0.41 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | B | 0.67 | 0.45 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | U | 0.34 | 0.34 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | B | 0.51 | 0.39 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | UJB | 0.84 | 0.45 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | UJB | 0.59 | 0.44 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | UJB | 0.97 | 0.48 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | UJB | 0.65 | 0.48 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | UJB | 0.62 | 0.45 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | UJB | 0.90 | 0.48 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | UJB | 0.73 | 0.48 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | JB | 0.61 | 0.49 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | UJ | 0.48 | 0.48 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | JB | 0.80 | 0.47 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | UJB | 0.60 | 0.51 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | UJB | 1.1 | 0.49 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | UJB | 0.83 | 0.45 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | UJB | 0.79 | 0.47 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | | 1.7 | 0.46 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| CADMIUM, TOTAL | 1043 | 08/06/93 | 0002 | MG/KG | JB | 0.66 | 0.40 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | B | 0.55 | 0.45 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | JB | 1.0 | 0.42 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | | 2.1 | 0.45 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | JB | 0.70 | 0.38 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | B | 0.72 | 0.47 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | B | 0.61 | 0.45 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | B | 0.80 | 0.47 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | B | 0.49 | 0.48 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | B | 0.88 | 0.47 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | B | 0.65 | 0.48 | I |
| CALCIUM, TOTAL | 0999 | 07/21/93 | 0006 | MG/KG | UJ | 995. | 3.9 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | | 4170. | 4.3 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | | 23000. | 4.3 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | | 4280. | 4.5 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | | 19200. | 4.5 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | | 4410. | 4.9 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | | 6350. | 4.4 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | | 4050. | 4.5 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | | 10000. | 4.8 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | | 118000. | 4.5 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | | 13500. | 4.6 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | | 16800. | 4.8 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | | 9150. | 4.7 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | | 18800. | 5.0 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | | 44100. | 4.7 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | | 38100. | 4.3 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | | 34200. | 4.1 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | | 42200. | 4.2 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | | 35600. | 4.4 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | | 60500 | 4.5 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | | 55000. | 4.5 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | | 55800. | 4.5 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | J | 2720. | 4.3 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | J | 48900. | 4.4 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | J | 1870. | 4.3 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | J | 27500. | 4.5 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | J | 2030. | 4.3 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | J | 34400. | 4.5 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | J | 60000. | 4.2 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | J | 103000. | 3.9 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | J | 56200. | 4.0 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | J | 98200. | 4.3 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | J | 67600. | 4.2 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | J | 102000. | 4.0 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | J | 55000. | 4.2 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | | 58800. | 4.2 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | | 62800. | 4.4 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | | 63200. | 4.1 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | | 63200. | 4.5 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | | 63700. | 4.2 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | | 59300. | 4.5 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | B | 929. | 4.5 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | | 17000. | 4.5 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | | 1430. | 4.4 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | | 3980. | 4.8 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | | 1060. | 4.1 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | | 2090. | 4.3 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | J | 66900. | 4.6 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | J | 140000. | 4.7 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | J | 28000. | 4.7 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| CALCIUM, TOTAL | 1023 | 08/04/93 | 0002 | MG/KG | J | 86400. | 4.4 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | J | 15300. | 4.6 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | J | 95000. | 4.7 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | J | 22500. | 4.5 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | J | 79000. | 4.3 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | J | 34100. | 4.5 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | J | 96500. | 4.3 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | J | 29500. | 4.6 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | J | 74500. | 4.4 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | J | 30500. | 4.7 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | | 66700. | 4.3 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | | 142000. | 42.4 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | | 123000. | 4.1 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | | 30800. | 4.3 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | | 167000. | 41.8 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | | 30900. | 4.2 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | | 105000. | 4.2 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | | 7670. | 4.4 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | | 5040. | 4.5 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | | 11800. | 4.6 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | | 7690. | 5.0 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | | 5180. | 4.8 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | J | 6460. | 4.7 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | J | 4830. | 4.7 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | J | 6500 | 4.3 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | J | 29300. | 4.0 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | J | 7820. | 4.5 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | J | 11400. | 4.1 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | J | 34600. | 4.5 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | J | 94400. | 3.4 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | J | 37400 | 3.9 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | | 45000. | 4.5 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | | 259000. | 0.00 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | | 11200. | 4.8 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | | 113000. | 4.8 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | | 124000. | 4.5 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | | 22600. | 4.8 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | | 62200. | 4.8 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | | 7630. | 4.9 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | | 48400. | 4.8 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | | 12300. | 4.7 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | | 8320. | 5.1 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | | 12700. | 4.9 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | | 6990. | 4.5 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | | 7090. | 4.7 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | | 54400. | 4.6 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | J | 70300. | 4.0 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | | 85600. | 4.5 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | J | 75700. | 4.2 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | | 70000. | 4.5 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | J | 104000. | 3.8 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | | 66100. | 4.7 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | | 55600. | 4.5 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | | 63800. | 4.7 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | | 60200. | 4.8 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | | 63700. | 4.7 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | | 59900. | 4.8 | I |
| CHROMIUM, TOTAL | 0999 | 07/21/93 | 0006 | MG/KG | | 3.0 | 0.79 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | | 13.8 | 0.86 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | | 14.3 | 0.87 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | | 15.7 | 0.89 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| CHROMIUM, TOTAL | 1002 | 08/01/93 | 0002 | MG/KG | | 13.3 | 0.90 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | | 17.2 | 0.97 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | | 16.5 | 0.87 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | | 15.9 | 0.90 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | J | 14.3 | 0.96 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | J | 11.7 | 0.89 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | | 21.9 | 0.91 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | | 16.4 | 0.95 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | | 17.4 | 0.94 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | | 16.0 | 1.0 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | | 18.9 | 0.94 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | | 13.6 | 0.87 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | | 13.0 | 0.81 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | | 12.7 | 0.84 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | | 17.1 | 0.88 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | | 13.6 | 0.89 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | | 14.2 | 0.91 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | | 12.8 | 0.90 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | | 14.0 | 0.85 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | | 19.4 | 0.88 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | | 9.9 | 0.85 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | | 23.7 | 0.90 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | | 14.0 | 0.87 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | | 19.6 | 0.90 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | | 9.6 | 0.84 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | J | 8.7 | 0.79 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | | 9.8 | 0.80 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | J | 9.0 | 0.85 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | J | 7.4 | 0.83 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | J | 6.3 | 0.80 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | | 9.0 | 0.85 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | | 8.4 | 0.84 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | | 8.9 | 0.89 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | | 8.3 | 0.82 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | | 9.0 | 0.90 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | | 10.5 | 0.84 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | | 9.1 | 0.90 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | | 10.4 | 0.90 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | | 16.6 | 0.90 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | | 9.8 | 0.89 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | | 32.0 | 0.95 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | | 9.6 | 0.83 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | | 20.0 | 0.86 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | J | 6.8 | 0.93 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | J | 4.6 | 0.94 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | | 15.9 | 0.93 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | J | 4.9 | 0.89 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | | 16.2 | 0.93 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | J | 6.1 | 0.94 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | | 10.1 | 0.89 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | J | 7.5 | 0.86 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | | 11.4 | 0.90 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | J | 7.1 | 0.87 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | | 11.7 | 0.92 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | J | 6.2 | 0.88 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | | 11.2 | 0.94 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | J | 14.6 | 0.86 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | J | 7.0 | 0.85 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | J | 8.7 | 0.83 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | | 12.4 | 0.85 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | J | 5.7 | 0.84 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | | 12.0 | 0.84 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| CHROMIUM, TOTAL | 1030 | 08/05/93 | 0002 | MG/KG | J | 7.5 | 0.84 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | | 10.0 | 0.88 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | | 17.9 | 0.91 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | | 9.3 | 0.92 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | | 18.2 | 1.0 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | | 16.0 | 0.95 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | | 10.6 | 0.94 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | | 15.6 | 0.95 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | | 15.8 | 0.87 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | | 18.5 | 0.79 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | | 14.0 | 0.91 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | | 13.9 | 0.83 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | | 11.9 | 0.91 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | | 12.2 | 0.69 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | | 11.9 | 0.78 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | | 15.0 | 0.91 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | J | 7.4 | 0.87 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | | 15.3 | 0.95 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | | 14.7 | 0.97 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | | 13.2 | 0.91 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | | 11.7 | 0.97 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | | 13.9 | 0.96 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | | 19.2 | 0.98 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | | 18.1 | 0.95 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | | 21.2 | 0.94 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | | 16.2 | 1.0 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | | 20.8 | 0.97 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | | 15.8 | 0.89 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | | 16.6 | 0.94 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | J | 16.9 | 0.92 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | | 14.6 | 0.79 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | J | 14.5 | 0.91 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | | 14.3 | 0.84 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | J | 14.5 | 0.89 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | | 12.5 | 0.76 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | | 13.1 | 0.94 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | | 9.9 | 0.89 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | | 12.8 | 0.94 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | | 10.8 | 0.95 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | | 13.1 | 0.94 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | | 9.5 | 0.95 | I |
| COBALT, TOTAL | 0999 | 07/21/93 | 0006 | MG/KG | B | 3.0 | 0.79 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | | 14.8 | 0.86 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | J | 11.0 | 0.87 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | J | 12.9 | 0.89 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | B | 9.4 | 0.90 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | | 16.6 | 0.97 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | J | 12.1 | 0.87 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | J | 13.0 | 0.90 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | | 13.9 | 0.96 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | J | 11.3 | 0.89 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | J | 21.7 | 0.91 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | J | 15.9 | 0.95 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | J | 17.8 | 0.94 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | | 16.0 | 1.0 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | J | 18.8 | 0.94 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | J | 12.7 | 0.87 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | J | 12.1 | 0.81 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | J | 12.6 | 0.84 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | J | 15.6 | 0.88 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | J | 13.3 | 0.89 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| COBALT, TOTAL | 1009 | 08/02/93 | 0002 | MG/KG | J | 13.9 | 0.91 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | J | 12.8 | 0.90 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | | 14.5 | 0.85 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | | 14.2 | 0.88 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | B | 9.9 | 0.85 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | | 15.4 | 0.90 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | | 11.3 | 0.87 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | | 15.0 | 0.90 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | JB | 7.5 | 0.84 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | JB | 7.1 | 0.79 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | JB | 7.7 | 0.80 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | JB | 5.9 | 0.85 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | JB | 6.4 | 0.83 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | JB | 5.6 | 0.80 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | JB | 6.5 | 0.85 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | UJB | 7.4 | 0.84 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | UJB | 7.1 | 0.89 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | UJB | 7.0 | 0.82 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | UJB | 6.8 | 0.90 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | UJB | 7.1 | 0.84 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | UJB | 7.1 | 0.90 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | B | 11.2 | 0.90 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | | 16.5 | 0.90 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | B | 10.7 | 0.89 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | | 28.6 | 0.95 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | B | 10.2 | 0.83 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | | 12.8 | 0.86 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | JB | 7.6 | 0.93 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | JB | 10.1 | 0.94 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | JB | 10.5 | 0.93 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | JB | 6.3 | 0.89 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | J | 11.7 | 0.93 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | JB | 6.0 | 0.94 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | B | 10.1 | 0.89 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | JB | 7.0 | 0.86 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | B | 9.9 | 0.90 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | JB | 7.1 | 0.87 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | B | 10.4 | 0.92 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | JB | 8.2 | 0.88 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | B | 10.4 | 0.94 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | JB | 9.9 | 0.86 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | JB | 7.1 | 0.85 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | JB | 7.9 | 0.83 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | B | 10.3 | 0.85 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | JB | 5.4 | 0.84 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | B | 8.9 | 0.84 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | JB | 6.1 | 0.84 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | B | 8.8 | 0.88 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | | 23.7 | 0.91 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | B | 7.3 | 0.92 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | J | 13.1 | 1.0 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | JB | 10.5 | 0.95 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | B | 7.4 | 0.94 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | B | 10.6 | 0.95 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | | 13.5 | 0.87 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | | 13.7 | 0.79 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | B | 11.3 | 0.91 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | | 11.6 | 0.83 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | | 12.2 | 0.91 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | J | 11.0 | 0.69 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | | 10.1 | 0.78 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | UJB | 10.8 | 0.91 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| COBALT, TOTAL | 1037 | 07/18/93 | 0002 | MG/KG | UJB | 5.9 | 0.87 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | B | 11.8 | 0.95 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | UJB | 11.9 | 0.97 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | UJB | 9.6 | 0.91 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | UJB | 8.2 | 0.97 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | UJB | 10.4 | 0.96 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | | 18.2 | 0.98 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | | 14.7 | 0.95 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | | 16.7 | 0.94 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | | 16.0 | 1.0 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | | 14.8 | 0.97 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | | 14.4 | 0.89 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | | 13.2 | 0.94 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | J | 14.5 | 0.92 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | | 13.5 | 0.79 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | J | 12.3 | 0.91 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | | 12.1 | 0.84 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | J | 13.2 | 0.89 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | J | 11.2 | 0.76 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | B | 6.9 | 0.94 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | B | 6.4 | 0.89 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | B | 7.1 | 0.94 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | B | 6.5 | 0.95 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | B | 7.0 | 0.94 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | B | 6.5 | 0.95 | I |
| COPPER, TOTAL | 0999 | 07/21/93 | 0006 | MG/KG | B | 4.6 | 0.59 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | | 12.4 | 0.64 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | | 16.5 | 0.65 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | | 13.5 | 0.67 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | | 13.5 | 0.68 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | | 14.3 | 0.73 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | | 15.7 | 0.65 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | | 12.7 | 0.68 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | | 17.2 | 0.72 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | J | 13.9 | 0.67 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | | 26.4 | 0.68 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | | 19.5 | 0.71 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | | 22.3 | 0.71 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | | 19.4 | 0.75 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | | 20.5 | 0.70 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | | 14.6 | 0.65 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | | 13.3 | 0.61 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | | 14.9 | 0.63 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | | 15.5 | 0.66 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | J | 14.4 | 0.67 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | | 14.0 | 0.68 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | | 14.3 | 0.67 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | | 14.8 | 0.64 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | | 19.1 | 0.66 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | | 11.2 | 0.64 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | | 20.9 | 0.67 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | | 13.7 | 0.65 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | | 20.6 | 0.67 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | | 15.2 | 0.63 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | J | 15.2 | 0.59 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | | 13.5 | 0.60 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | J | 12.2 | 0.64 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | | 13.6 | 0.63 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | J | 11.2 | 0.60 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | | 13.6 | 0.64 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | | 15.1 | 0.63 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| COPPER, TOTAL | 1016 | 07/17/93 | 0002 | MG/KG | | 14.3 | 0.66 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | | 13.9 | 0.62 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | | 13.5 | 0.67 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | | 17.5 | 0.63 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | | 16.0 | 0.67 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | | 9.0 | 0.68 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | | 19.5 | 0.67 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | | 9.0 | 0.66 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | | 42.9 | 0.71 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | | 8.7 | 0.62 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | | 25.6 | 0.65 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | | 16.2 | 0.70 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | J | 16.4 | 0.70 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | | 24.4 | 0.70 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | UJ | 13.0 | 0.66 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | | 33.1 | 0.70 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | J | 15.1 | 0.71 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | | 21.4 | 0.67 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | J | 16.7 | 0.64 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | | 20.6 | 0.68 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | J | 15.0 | 0.65 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | | 20.8 | 0.69 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | J | 13.8 | 0.66 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | | 22.5 | 0.71 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | J | 15.9 | 0.64 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | J | 15.7 | 0.64 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | J | 15.2 | 0.62 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | | 17.3 | 0.64 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | J | 11.6 | 0.63 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | | 16.6 | 0.63 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | J | 12.2 | 0.63 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | | 12.6 | 0.66 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | | 21.1 | 0.68 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | | 12.7 | 0.69 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | | 22.1 | 0.75 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | | 19.8 | 0.71 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | | 12.3 | 0.71 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | | 18.5 | 0.71 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | | 16.3 | 0.65 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | | 19.2 | 0.60 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | | 13.4 | 0.68 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | | 12.9 | 0.62 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | | 12.2 | 0.68 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | | 13.9 | 0.51 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | | 12.2 | 0.59 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | | 16.8 | 0.68 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | J | 9.6 | 0.65 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | | 17.1 | 0.72 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | J | 17.2 | 0.73 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | | 16.1 | 0.68 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | | 14.6 | 0.72 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | | 13.6 | 0.72 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | | 17.2 | 0.74 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | | 16.9 | 0.71 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | | 19.3 | 0.70 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | | 16.1 | 0.76 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | | 19.1 | 0.73 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | | 15.4 | 0.67 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | | 14.9 | 0.70 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | J | 19.8 | 0.69 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | | 14.3 | 0.59 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | J | 15.4 | 0.68 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| COPPER, TOTAL | 1044 | 08/06/93 | 0002 | MG/KG | | 15.2 | 0.63 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | J | 19.0 | 0.67 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | | 14.0 | 0.57 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | | 23.3 | 0.71 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | | 15.8 | 0.67 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | | 22.8 | 0.71 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | | 18.0 | 0.71 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | | 22.8 | 0.70 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | | 14.6 | 0.72 | I |
| Cyanide, Total (Metal) | 0999 | 07/21/93 | 0006 | MG/KG | | 132. | 25.0 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | U | 1.2 | 1.2 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | U | 1.3 | 1.3 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | U | 1.2 | 1.2 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | U | 1.0 | 1.0 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | U | 1.1 | .54 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | U | 1.1 | .56 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | U | 1.1 | .54 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | U | 1.1 | .53 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | U | 1.1 | .5 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | U | 1.1 | .5 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | U | 1.1 | .54 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | U | 1.1 | .53 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | U | 1.1 | .54 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | U | 1.2 | 1.2 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | U | 1.2 | 1.2 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| Cyanide, Total (Metal) | 1024 | 08/04/93 | 0002 | MG/KG | U | 1.2 | 1.2 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | U | 1.0 | 1.0 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | U | 1.0 | 1.0 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | U | 1.13 | 1.1 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | U | 1.23 | 1.2 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | U | 1.17 | 1.2 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | U | 1.25 | 1.2 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | U | 1.24 | 1.2 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | U | 1.3 | 1.3 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | U | 1.2 | 1.2 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | U | 1.2 | 1.2 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | U | 1.2 | 1.2 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | U | 1.3 | 1.3 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | U | 1.2 | 1.2 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | U | 0.61 | 1.2 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | U | 1.2 | 1.2 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | U | 1.3 | 1.3 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | U | 1.3 | 1.3 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | U | 1.2 | 1.2 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | U | 1.2 | 1.2 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | U | 1.2 | 1.2 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | U | 1.2 | 1.2 | I |
| IRON, TOTAL | 0999 | 07/21/93 | 0006 | MG/KG | | 5100. | 2.6 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | | 19300. | 2.8 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | | 26600. | 2.8 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | | 22200. | 2.9 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | | 19400. | 2.9 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | | 25300. | 3.2 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| IRON, TOTAL | 1003 | 08/01/93 | 0002 | MG/KG | | 27500. | 2.8 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | | 23100. | 2.9 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | | 27900. | 3.1 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | | 24500. | 2.9 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | | 42700. | 3.0 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | | 33700. | 3.1 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | | 34800. | 3.1 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | | 34000. | 3.3 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | | 39300. | 3.1 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | | 24500. | 2.8 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | | 24300. | 2.6 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | | 23100. | 2.7 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | | 30500. | 2.8 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | | 24700. | 2.9 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | | 26700. | 3.0 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | | 23800. | 2.9 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | J | 20900. | 2.8 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | J | 26700. | 2.9 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | J | 15400. | 2.8 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | J | 29600. | 2.9 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | J | 17100. | 2.8 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | J | 29900. | 2.9 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | J | 17200. | 2.7 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | J | 14800. | 2.6 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | J | 16700. | 2.6 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | J | 14300. | 2.8 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | J | 13800. | 2.7 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | J | 12200. | 2.6 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | J | 14800. | 2.8 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | | 13000. | 2.7 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | | 13800. | 2.9 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | | 12100. | 2.7 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | | 11700. | 2.9 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | | 12800. | 2.7 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | | 12700. | 2.9 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | | 13400. | 2.9 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | | 33900 | 2.9 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | | 13200. | 2.9 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | | 52800. | 3.1 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | | 12700. | 2.7 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | | 29800. | 2.8 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | J | 15300. | 3.0 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | J | 14800. | 3.0 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | J | 28500. | 3.0 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | J | 13500. | 2.9 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | J | 28700. | 3.0 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | J | 16400. | 3.1 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | J | 20200. | 2.9 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | J | 14900. | 2.8 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | J | 21300. | 2.9 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | J | 14000. | 2.8 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | J | 21000. | 3.0 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | J | 16600. | 2.8 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | J | 22000. | 3.1 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | | 18900. | 2.8 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | | 17000. | 2.8 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | | 16400. | 2.7 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | | 20500. | 2.8 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | | 11400. | 2.7 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | | 20000. | 2.7 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | | 13700. | 2.7 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | | 16200. | 2.9 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| IRON, TOTAL | 1031 | 07/20/93 | 0002 | MG/KG | | 26300. | 2.9 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | | 18900. | 3.0 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | | 26600. | 3.2 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | | 22900. | 3.1 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | J | 15300. | 3.1 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | J | 21700. | 3.1 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | | 25800. | 2.8 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | | 32600. | 2.6 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | | 22100. | 2.9 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | | 21700. | 2.7 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | | 19200. | 3.0 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | | 22100. | 2.2 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | | 19000. | 2.5 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | | 25600. | 3.0 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | | 15100. | 2.8 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | | 26200. | 3.1 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | | 28700. | 3.1 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | | 25700. | 3.0 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | | 18200. | 3.1 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | | 23400. | 3.1 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | | 31200. | 3.2 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | | 30400. | 3.1 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | | 35800. | 3.0 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | | 27400. | 3.3 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | | 35300. | 3.2 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | | 26700. | 2.9 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | | 28600. | 3.0 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | | 31300. | 3.0 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | | 24000. | 2.6 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | | 24100. | 2.9 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | | 22300. | 2.7 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | | 30100. | 2.9 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | | 20800. | 2.5 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | | 14500. | 3.1 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | | 14800. | 2.9 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | | 14100. | 3.1 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | | 14800. | 3.1 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | | 14700. | 3.1 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | | 15200. | 3.1 | I |
| LEAD, TOTAL | 0999 | 07/21/93 | 0006 | MG/KG | | 8.0 | 3.9 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | | 21.6 | 4.5 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | | 12.5 | 4.4 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | | 21.7 | 4.4 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | | 11.1 | 4.4 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | | 20.3 | 4.7 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | | 11.2 | 4.1 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | | 20.1 | 4.3 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | | 18.9 | 4.8 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | | 7.7 | 0.44 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | | 28.1 | 4.7 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | | 15.2 | 9.0 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | | 22.3 | 9.5 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | | 33.0 | 9.6 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | | 15.4 | 4.5 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | | 18.5 | 4.0 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | | 14.3 | 3.9 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | | 84.6 | 4.3 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | | 28.0 | 8.5 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | | 21.4 | 4.5 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | | 11.7 | 4.5 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | | 20.3 | 4.6 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| LEAD, TOTAL | 1010 | 08/03/93 | 0001 | MG/KG | | 19.5 | 4.2 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | | 14.6 | 0.43 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | J | 18.3 | 4.3 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | | 9.3 | 0.44 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | J | 16.0 | 4.3 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | J | 13.5 | 4.2 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | | 18.4 | 0.43 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | J | 8.4 | 0.40 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | | 15.9 | 4.3 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | | 8.5 | 0.39 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | | 13.0 | 0.41 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | | 11.9 | 0.42 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | | 15.4 | 0.43 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | J | 14.8 | 4.0 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | J | 12.6 | 4.4 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | | 35.5 | 4.4 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | | 23.3 | 4.5 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | | 57.7 | 4.5 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | | 46.5 | 4.4 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | | 60.9 | 4.6 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | | 19.5 | 4.3 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | | 19.2 | 4.4 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | | 25.5 | 4.5 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | | 18.6 | 4.2 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | | 35.2 | 4.3 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | | 19.7 | 1.9 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | | 8.9 | 0.47 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | | 25.1 | 1.9 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | | 8.2 | 0.44 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | | 26.1 | 1.9 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | | 11.3 | 1.9 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | | 16.8 | 1.8 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | | 8.4 | 0.43 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | | R | 1.8 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | | 7.5 | 0.43 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | J | 11.4 | 1.8 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | | 15.3 | 1.8 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | J | 19.4 | 1.9 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | B | 12.5 | 8.6 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | | 6.8 | 0.42 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | | 6.7 | 0.41 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | | 14.1 | 8.5 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | | 8.6 | 0.42 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | B | 20.4 | 4.2 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | | 7.2 | 0.42 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | | 38.9 | 4.4 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | | 16.7 | 4.9 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | | 30.1 | 4.6 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | J | 19.6 | 2.5 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | | 17.1 | 4.7 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | J | 29.7 | 9.4 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | | 13.5 | 4.9 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | | 27.2 | 2.2 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | | 18.5 | 2.0 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | | 22.2 | 4.5 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | J | 14.2 | 4.1 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | | 24.9 | 2.3 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | | 14.1 | 1.7 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | | 32.5 | 1.9 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | | 24.0 | 4.7 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | | 13.9 | 4.5 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | | 21.5 | 4.7 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| LEAD, TOTAL | 1038 | 07/18/93 | 0002 | MG/KG | | 11.5 | 4.8 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | J | 7.0 | 4.5 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | | 21.9 | 4.8 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | | 14.5 | 4.6 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | J | 31.7 | 4.9 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | | 20.8 | 4.8 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | | 28.6 | 4.7 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | | 25.1 | 5.1 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | | 18.1 | 5.1 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | | 19.8 | 4.7 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | | 23.8 | 4.8 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | | 28.4 | 9.2 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | J | 10.2 | 3.2 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | | 16.3 | 9.0 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | | 8.9 | 0.39 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | | 73.1 | 8.9 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | J | 15.2 | 4.1 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | | 33.2 | 4.7 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | J | 10.9 | 4.7 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | | 30.1 | 4.7 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | J | 13.0 | 4.7 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | | 30.5 | 4.5 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | | 12.4 | 0.48 | I |
| LITHIUM, TOTAL | 0999 | 07/21/93 | 0006 | MG/KG | U | 2.0 | 2.0 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | UJB | 9.0 | 2.1 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | UJB | 15.8 | 2.2 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | UJB | 11.1 | 2.2 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | UJB | 12.9 | 2.3 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | UJB | 12.0 | 2.4 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | UJB | 15.9 | 2.2 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | UJB | 13.0 | 2.3 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | UJB | 18.9 | 2.4 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | UJ | 23.6 | 2.2 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | UJ | 27.4 | 2.3 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | UJB | 23.8 | 2.4 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | UJB | 21.8 | 2.4 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | UJB | 23.3 | 2.5 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | UJ | 28.3 | 2.3 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | B | 20.7 | 2.2 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | B | 19.4 | 2.0 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | B | 20.2 | 2.1 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | | 27.7 | 2.2 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | | 23.1 | 2.2 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | | 23.4 | 2.3 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | B | 19.7 | 2.2 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | UJB | 12.3 | 2.1 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | | 22.6 | 2.2 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | UJB | 9.0 | 2.1 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | | 23.2 | 2.2 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | B | 10.8 | 2.2 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | | 24.7 | 2.2 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | B | 10.5 | 2.1 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | B | 11.4 | 2.0 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | B | 10.0 | 2.0 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | B | 9.1 | 2.1 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | B | 7.3 | 2.1 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | B | 8.5 | 2.0 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | B | 7.4 | 2.1 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | UJB | 6.1 | 2.1 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | UJB | 8.1 | 2.2 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | UJB | 6.0 | 2.1 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| LITHIUM, TOTAL | 1017 | 07/17/93 | 0002 | MG/KG | UJB | 6.5 | 2.2 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | UJB | 7.6 | 2.1 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | UJB | 6.5 | 2.2 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | UJB | 3.1 | 2.3 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | UJB | 8.2 | 2.2 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | UJB | 3.0 | 2.2 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | UJB | 16.1 | 2.4 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | UJB | 2.9 | 2.1 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | UJB | 9.5 | 2.2 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | UJB | 12.4 | 2.3 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | UJB | 14.3 | 2.3 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | UJB | 15.9 | 2.3 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | UJB | 13.6 | 2.2 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | UJB | 14.1 | 2.3 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | UJB | 14.4 | 2.4 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | UJB | 15.3 | 2.2 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | UJB | 17.9 | 2.1 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | UJB | 12.1 | 2.3 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | UJB | 14.8 | 2.2 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | UJB | 17.6 | 2.3 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | UJB | 18.4 | 2.2 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | UJB | 16.2 | 2.4 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | JB | 5.8 | 2.1 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | JB | 4.4 | 2.1 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | JB | 6.7 | 2.1 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | JB | 5.5 | 2.1 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | JB | 4.4 | 2.1 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | JB | 4.2 | 2.1 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | JB | 4.3 | 2.1 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | UJB | 5.3 | 2.2 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | UJB | 5.5 | 2.3 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | UJB | 7.3 | 2.3 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | UJB | 9.9 | 2.5 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | UJB | 5.7 | 2.4 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | UJB | 10.9 | 2.4 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | UJB | 12.8 | 2.4 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | B | 8.4 | 2.2 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | B | 12.5 | 2.0 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | B | 7.0 | 2.3 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | B | 8.0 | 2.1 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | B | 7.0 | 2.3 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | B | 12.2 | 1.7 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | B | 7.6 | 2.0 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | UJB | 10.7 | 2.3 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | UJB | 8.0 | 2.2 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | UJB | 9.5 | 2.4 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | UJB | 17.0 | 2.4 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | UJB | 14.3 | 2.3 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | UJB | 7.7 | 2.4 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | UJB | 9.5 | 2.4 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | UJB | 12.7 | 2.5 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | UJB | 16.0 | 2.4 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | UJB | 17.5 | 2.3 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | UJB | 10.1 | 2.5 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | UJB | 15.2 | 2.4 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | UJB | 10.5 | 2.2 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | UJB | 12.9 | 2.3 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | JB | 17.1 | 2.3 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | | 20.5 | 2.0 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | JB | 16.1 | 2.3 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | | 23.6 | 2.1 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | JB | 14.9 | 2.2 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| LITHIUM, TOTAL | 1045 | 08/06/93 | 0002 | MG/KG | | 21.0 | 1.9 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | UJB | 9.7 | 23.6 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | UJB | 9.0 | 22.3 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | B | 11.5 | 23.6 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | B | 11.6 | 23.8 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | B | 11.5 | 23.5 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | B | 11.6 | 23.9 | I |
| MAGNESIUM, TOTAL | 0999 | 07/21/93 | 0006 | MG/KG | B | 683. | 21.1 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | | 2220. | 23.0 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | | 12000. | 23.2 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | | 2650. | 23.9 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | | 11300. | 24.1 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | | 2850. | 25.9 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | | 5200. | 23.3 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | | 2710. | 24.2 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | | 2930. | 25.6 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | | 4200. | 23.9 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | | 4520. | 24.4 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | | 3720. | 25.5 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | | 3440. | 25.2 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | | 3420. | 26.8 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | | 4800. | 25.1 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | | 4180. | 23.2 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | | 4030. | 21.8 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | | 4110. | 22.6 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | | 5260. | 23.4 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | | 4390. | 23.9 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | | 4640. | 24.3 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | | 4150. | 24.0 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | J | 2450. | 22.8 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | J | 4750. | 23.6 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | J | 1680. | 22.8 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | J | 4810. | 24.0 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | J | 2100. | 23.2 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | J | 4940. | 23.9 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | J | 22800. | 22.5 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | J | 33000. | 21.1 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | J | 24100. | 21.4 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | J | 37400. | 22.8 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | J | 26100. | 22.3 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | J | 37300. | 21.3 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | J | 19100. | 22.7 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | | 20000. | 22.5 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | | 21400. | 23.7 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | | 19700. | 22.0 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | | 22900. | 24.0 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | | 20100. | 22.4 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | | 20100. | 24.0 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | B | 1110. | 24.2 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | | 3770. | 24.0 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | | 1280. | 23.7 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | | 5330. | 25.4 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | | 1270. | 22.2 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | | 2880. | 23.1 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | J | 32100. | 24.9 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | J | 50500. | 25.1 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | J | 14900. | 24.9 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | J | 50500. | 23.7 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | J | 8400. | 24.8 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | J | 46500. | 25.2 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | J | 13800. | 23.9 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| MAGNESIUM, TOTAL | 1025 | 08/04/93 | 0002 | MG/KG | J | 43800. | 22.9 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | J | 21400. | 24.2 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | J | 46600. | 23.1 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | J | 17800. | 24.7 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | J | 38800. | 23.4 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | J | 16600. | 25.2 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | | 36700. | 23.0 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | | 56100. | 22.7 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | | 51500. | 22.1 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | | 17000. | 22.8 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | | 55700. | 22.4 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | | 17100. | 22.6 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | | 38900. | 22.3 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | | 3740. | 23.6 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | | 3900. | 24.3 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | | 6190. | 24.6 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | | 6330. | 26.7 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | | 4270. | 25.4 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | J | 3360. | 25.2 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | J | 3920. | 25.3 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | J | 2390. | 23.2 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | J | 3570. | 21.2 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | J | 2460. | 24.2 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | J | 2510. | 22.2 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | J | 2180. | 24.3 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | J | 3600. | 18.4 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | J | 2280. | 21.0 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | | 3200. | 24.3 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | | 3320. | 23.3 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | | 3150. | 25.5 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | | 4820. | 25.9 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | | 4180. | 24.3 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | | 2660. | 25.8 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | | 2940. | 25.7 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | | 3400. | 26.3 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | | 3720. | 25.5 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | | 4010. | 25.0 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | | 2880. | 27.1 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | | 3580. | 25.9 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | | 3060. | 23.8 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | | 3260. | 25.0 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | | 5820. | 24.5 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | J | 5230. | 21.2 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | | 5800. | 24.3 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | J | 6510. | 22.6 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | | 6790. | 23.9 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | J | 7170. | 20.3 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | | 29500. | 25.2 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | | 24100. | 23.9 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | | 28500. | 25.2 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | | 25600. | 25.5 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | | 28600. | 25.1 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | | 24700. | 25.5 | I |
| MANGANESE, TOTAL | 0999 | 07/21/93 | 0006 | MG/KG | | 143. | 0.39 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | | 1230. | 0.43 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | | 502. | 0.43 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | | 1030. | 0.45 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | | 562. | 0.45 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | | 1260. | 0.49 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | | 567. | 0.44 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | | 1020. | 0.45 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| MANGANESE, TOTAL | 1004 | 07/15/93 | 0001 | MG/KG | | 1050. | 0.48 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | | 639. | 0.45 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | | 1740. | 0.46 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | | 1330. | 0.48 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | | 1440. | 0.47 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | | 1310. | 0.50 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | | 1440. | 0.47 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | | 739. | 0.43 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | | 709. | 0.41 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | | 736. | 0.42 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | | 901. | 0.44 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | | 773. | 0.45 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | | 781. | 0.45 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | | 751. | 0.45 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | J | 1050. | 0.43 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | J | 736. | 0.44 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | J | 580. | 0.43 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | J | 705. | 0.45 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | J | 786. | 0.43 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | J | 843. | 0.45 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | J | 293. | 0.42 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | J | 263. | 0.39 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | J | 686. | 0.40 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | J | 470. | 0.43 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | J | 252. | 0.42 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | J | 228. | 0.40 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | J | 266. | 0.42 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | | 499. | 0.42 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | | 495. | 0.44 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | | 477. | 0.41 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | | 440. | 0.45 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | | 479. | 0.42 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | | 480. | 0.45 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | | 653. | 0.45 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | | 1340. | 0.45 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | | 681. | 0.44 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | | 1160. | 0.48 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | | 569. | 0.41 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | | 370. | 0.43 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | J | 350. | 0.46 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | J | 579. | 0.47 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | J | 527. | 0.47 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | J | 400. | 0.44 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | J | 695. | 0.46 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | J | 299. | 0.47 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | J | 561. | 0.45 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | J | 327. | 0.43 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | J | 493. | 0.45 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | J | 306. | 0.43 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | J | 578. | 0.46 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | J | 336. | 0.44 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | J | 569. | 0.47 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | | 409. | 0.43 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | | 358. | 0.42 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | | 405. | 0.41 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | | 472. | 0.43 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | | 263. | 0.42 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | | 394. | 0.42 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | | 262. | 0.42 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | | 634. | 0.44 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | | 1660. | 0.45 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | | 602. | 0.46 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| MANGANESE, TOTAL | 1032 | 07/20/93 | 0002 | MG/KG | J | 728. | 0.50 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | | 528. | 0.48 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | J | 555. | 0.47 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | J | 594. | 0.47 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | J | 708. | 0.43 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | J | 918. | 0.40 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | J | 692. | 0.45 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | J | 691. | 0.41 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | J | 673. | 0.45 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | J | 563. | 0.34 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | J | 583. | 0.39 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | | 666. | 0.45 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | | 598. | 0.44 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | | 813. | 0.48 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | | 741. | 0.48 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | | 601. | 0.45 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | | 547. | 0.48 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | | 663. | 0.48 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | | 1060. | 0.49 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | | 798. | 0.48 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | | 979. | 0.47 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | | 871. | 0.51 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | | 800. | 0.49 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | | 742. | 0.45 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | | 657. | 0.47 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | | 583. | 0.46 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | J | 553. | 0.40 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | | 519. | 0.45 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | J | 409. | 0.42 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | | 521. | 0.45 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | J | 449. | 0.38 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | J | 454. | 0.47 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | | 522. | 0.45 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | | 420. | 0.47 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | | 503. | 0.48 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | | 435. | 0.47 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | | 555. | 0.48 | I |
| MERCURY, TOTAL | 0999 | 07/21/93 | 0006 | MG/KG | B | 0.15 | 0.10 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | U | 0.05 | 0.05 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | U | 0.05 | 0.05 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | U | 0.05 | 0.05 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | U | 0.05 | 0.05 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| MERCURY, TOTAL | 1011 | 08/03/93 | 0001 | MG/KG | U | 0.05 | 0.05 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | U | 0.05 | 0.05 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | U | 0.05 | 0.05 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | U | 0.05 | 0.05 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | U | 0.05 | 0.05 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | U | 0.05 | 0.05 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | U | 0.05 | 0.05 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | U | 0.05 | 0.05 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | U | 0.05 | 0.05 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | U | 0.05 | 0.05 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | U | 0.05 | 0.05 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | U | 0.05 | 0.05 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | U | 0.05 | 0.05 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | U | 0.05 | 0.05 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | U | 0.05 | 0.05 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | U | 0.05 | 0.05 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | U | 0.05 | 0.05 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | U | 0.05 | 0.05 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | U | 0.05 | 0.05 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | U | 0.05 | 0.05 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | | 0.15 | 0.11 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | UJ | 0.06 | 0.06 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | U | 0.05 | 0.05 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | U | 0.06 | 0.06 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| MERCURY, TOTAL | 1039 | 07/18/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | U | 0.060 | 0.060 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | U | 0.06 | 0.06 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | | 0.06 | 0.059 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | | 0.15 | 0.060 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | U | 0.06 | 0.06 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | U | 0.060 | 0.060 | I |
| MOLYBDENUM | 0999 | 07/21/93 | 0006 | MG/KG | | 4.3 | 0.99 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | | 16.0 | 1.1 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | JB | 21.6 | 1.1 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | J | 17.7 | 1.1 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | | 14.4 | 1.1 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | J | 19.7 | 1.2 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | J | 21.8 | 1.1 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | JB | 18.1 | 1.1 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | J | 21.1 | 1.2 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | J | 17.6 | 1.1 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | J | 31.0 | 1.1 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | J | 23.2 | 1.2 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | J | 25.1 | 1.2 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | J | 25.2 | 1.3 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | J | 27.0 | 1.2 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | J | 18.5 | 1.1 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | J | 18.4 | 1.0 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | J | 18.0 | 1.1 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | J | 22.9 | 1.1 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | J | 19.5 | 1.1 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | J | 20.4 | 1.1 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | J | 17.9 | 1.1 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | J | 17.2 | 1.1 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | J | 21.5 | 1.1 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | | 12.9 | 1.1 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | J | 23.0 | 1.1 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | | 14.2 | 1.1 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | J | 23.8 | 1.1 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | J | 15.1 | 1.1 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | J | 12.8 | 0.98 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | J | 14.1 | 1.0 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | J | 12.7 | 1.1 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | J | 12.1 | 1.0 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | J | 11.1 | 1.0 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | J | 13.1 | 1.1 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | UJB | 3.6 | 1.1 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | UJB | 3.9 | 1.1 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | UJB | 2.7 | 1.0 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | UJB | 2.1 | 1.1 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | UJB | 1.2 | 1.0 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| MOLYBDENUM | 1018 | 07/17/93 | 0002 | MG/KG | UJB | 3.4 | 1.1 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | UJB | 3.5 | 1.1 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | UJB | 6.7 | 1.1 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | UJB | 3.2 | 1.1 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | UJ | 12.0 | 1.2 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | UJB | 3.5 | 1.0 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | UJB | 6.5 | 1.1 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | J | 14.6 | 1.2 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | J | 16.8 | 1.2 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | J | 26.8 | 1.2 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | J | 12.9 | 1.1 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | J | 27.2 | 1.2 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | J | 15.4 | 1.2 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | | 20.3 | 1.1 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | J | 14.9 | 1.1 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | | 19.8 | 1.1 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | J | 13.4 | 1.1 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | | 19.0 | 1.2 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | J | 15.5 | 1.1 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | | 20.8 | 1.2 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | J | 17.9 | 1.1 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | J | 16.2 | 1.1 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | J | 15.9 | 1.0 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | J | 18.6 | 1.1 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | UJ | 11.6 | 1.0 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | | 18.9 | 1.1 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | UJ | 12.5 | 1.0 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | | 14.4 | 1.1 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | J | 21.9 | 1.1 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | | 16.2 | 1.2 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | J | 21.7 | 1.2 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | J | 18.8 | 1.2 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | | 14.7 | 1.2 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | | 17.0 | 1.2 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | UJ | 6.3 | 1.1 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | UJ | 5.2 | 0.99 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | UJB | 4.0 | 1.1 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | UJB | 3.3 | 1.0 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | UJB | 3.2 | 1.1 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | UJB | 3.1 | 0.86 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | UJB | 2.8 | 0.98 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | | 19.5 | 1.1 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | JB | 11.1 | 1.1 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | J | 19.8 | 1.2 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | J | 21.2 | 1.2 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | J | 18.6 | 1.1 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | | 14.1 | 1.2 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | J | 18.1 | 1.2 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | UJB | 3.5 | 1.2 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | UJB | 3.4 | 1.2 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | UJB | 6.1 | 1.2 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | J | 21.3 | 1.3 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | J | 26.8 | 1.2 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | | 20.0 | 1.1 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | | 21.2 | 1.2 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | J | 26.5 | 1.1 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | UJB | 3.0 | 0.99 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | J | 19.8 | 1.1 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | UJB | 3.1 | 1.1 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | J | 24.5 | 1.1 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | UJB | 2.6 | 0.95 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | | 12.8 | 1.2 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| MOLYBDENUM | 1046 | 07/14/93 | 0002 | MG/KG | | 12.6 | 1.1 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | | 11.6 | 1.2 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | | 11.9 | 1.2 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | | 12.3 | 1.2 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | | 12.0 | 1.2 | I |
| NICKEL, TOTAL | 0999 | 07/21/93 | 0006 | MG/KG | B | 3.2 | 1.4 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | | 16.7 | 1.5 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | | 23.5 | 1.5 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | | 18.7 | 1.6 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | | 21.8 | 1.6 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | | 21.3 | 1.7 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | | 24.5 | 1.5 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | | 19.0 | 1.6 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | J | 19.3 | 1.7 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | J | 19.9 | 1.6 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | J | 32.1 | 1.6 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | J | 24.1 | 1.7 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | J | 26.1 | 1.6 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | J | 24.5 | 1.8 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | | 31.0 | 1.6 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | J | 18.6 | 1.5 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | J | 18.7 | 1.4 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | | 19.4 | 1.5 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | J | 23.7 | 1.5 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | J | 20.4 | 1.6 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | | 22.2 | 1.6 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | | 19.0 | 1.6 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | J | 16.9 | 1.5 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | | 26.3 | 1.5 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | | 10.7 | 1.5 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | | 28.6 | 1.6 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | | 14.1 | 1.5 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | | 28.0 | 1.6 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | J | 16.4 | 1.5 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | J | 27.7 | 1.4 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | J | 16.4 | 1.4 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | J | 15.0 | 1.5 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | J | 12.6 | 1.5 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | J | 12.2 | 1.4 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | J | 14.8 | 1.5 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | | 12.6 | 1.5 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | | 13.4 | 1.5 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | | 11.6 | 1.4 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | | 11.1 | 1.6 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | | 11.7 | 1.5 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | | 12.2 | 1.6 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | B | 8.7 | 1.6 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | | 26.0 | 1.6 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | | 10.7 | 1.5 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | | 50.2 | 1.7 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | | 10.1 | 1.5 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | | 22.7 | 1.5 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | | 15.1 | 1.6 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | | 27.9 | 1.6 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | | 27.7 | 1.6 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | J | 12.9 | 1.6 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | | 21.6 | 1.6 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | J | 14.5 | 1.7 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | | 20.5 | 1.6 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | | 18.6 | 1.5 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | | 22.8 | 1.6 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| NICKEL, TOTAL | 1026 | 08/04/93 | 0002 | MG/KG | | 18.3 | 1.5 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | | 24.1 | 1.6 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | | 17.1 | 1.5 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | | 25.4 | 1.6 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | J | 18.9 | 1.5 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | J | 17.3 | 1.5 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | J | 19.9 | 1.4 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | | 18.8 | 1.5 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | J | 11.5 | 1.5 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | | 18.2 | 1.5 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | J | 14.2 | 1.5 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | B | 8.4 | 1.5 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | | 38.2 | 1.6 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | B | 6.9 | 1.6 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | | 29.8 | 1.7 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | | 27.3 | 1.7 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | UJB | 8.1 | 1.6 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | | 31.4 | 1.7 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | | 21.8 | 1.5 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | | 26.8 | 1.4 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | | 18.5 | 1.6 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | | 19.4 | 1.5 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | | 14.7 | 1.6 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | J | 18.7 | 1.2 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | | 14.5 | 1.4 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | | 20.3 | 1.6 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | J | 9.4 | 1.5 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | | 21.0 | 1.7 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | | 23.1 | 1.7 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | | 23.0 | 1.6 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | | 13.7 | 1.7 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | | 16.3 | 1.7 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | | 24.9 | 1.7 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | | 21.8 | 1.7 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | | 28.4 | 1.6 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | | 20.6 | 1.8 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | | 27.2 | 1.7 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | | 18.5 | 1.6 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | | 20.1 | 1.6 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | J | 24.3 | 1.6 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | | 22.2 | 1.4 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | J | 22.7 | 1.6 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | | 22.4 | 1.5 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | J | 26.0 | 1.6 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | J | 20.0 | 1.3 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | | 15.6 | 1.7 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | | 14.8 | 1.6 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | | 15.1 | 1.7 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | | 13.6 | 1.7 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | | 15.5 | 1.6 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | | 15.7 | 1.7 | I |
| POTASSIUM, TOTAL | 0999 | 07/21/93 | 0006 | MG/KG | B | 774. | 128. | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | B | 907.0 | 139. | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | B | 714.4 | 141. | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | | 1156. | 145. | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | B | 662. | 146. | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | | 1226. | 157. | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | B | 841. | 141. | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | | 1142. | 146. | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | | 1470. | 155. | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | B | 957. | 145. | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| POTASSIUM, TOTAL | 1005 | 07/16/93 | 0001 | MG/KG | | 2440. | 148. | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | | 1450. | 154. | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | | 1880. | 152. | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | | 1870. | 163. | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | | 1720. | 152. | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | | 1430. | 140. | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | | 1150. | 132. | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | | 1440. | 137. | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | | 1560. | 142. | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | | 1730. | 145. | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | | 1220. | 147. | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | | 1497. | 145. | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | B | 913. | 138. | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | B | 1000. | 143. | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | B | 582. | 138. | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | B | 907. | 145. | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | B | 906. | 140. | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | | 1490. | 145. | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | B | 909. | 136. | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | B | 781. | 128. | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | B | 734. | 130. | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | B | 600. | 138. | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | B | 493. | 135. | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | B | 608. | 129. | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | B | 569. | 138. | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | UJB | 797. | 136. | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | UJB | 854. | 143. | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | UJB | 782. | 133. | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | UJB | 692. | 145. | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | UJB | 839. | 136. | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | UJB | 692. | 145. | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | UJB | 578. | 146. | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | UJB | 696. | 145. | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | UJB | 581. | 143. | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | UJ | 1280. | 154. | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | UJB | 530. | 134. | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | UJB | 833. | 140. | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | JB | 215. | 150. | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | JB | 197. | 152. | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | JB | 463. | 151. | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | JB | 133. | 144. | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | JB | 368. | 150. | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | JB | 180. | 153. | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | JB | 557. | 145. | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | JB | 424. | 139. | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | B | 752. | 146. | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | JB | 380. | 140. | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | B | 788. | 149. | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | B | 1090. | 142. | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | B | 686. | 152. | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | B | 681. | 139. | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | B | 590. | 138. | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | B | 626. | 134. | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | B | 731. | 138. | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | B | 448. | 135. | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | B | 710. | 137. | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | B | 429. | 135. | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | B | 434. | 143. | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | B | 397. | 147. | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | B | 569. | 149. | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | B | 527. | 162. | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | B | 414. | 154. | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| POTASSIUM, TOTAL | 1033 | 07/20/93 | 0001 | MG/KG | UJB | 38.7 | 153. | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | UJB | 22.9 | 153. | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | JB | 787. | 140. | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | JB | 668. | 129. | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | JB | 776. | 147. | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | JB | 662. | 134. | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | JB | 612. | 147. | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | JB | 537. | 111. | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | JB | 557. | 127. | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | | 1390. | 147. | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | UJB | 827. | 141. | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | UJ | 1290. | 154. | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | UJB | 1160. | 157. | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | UJB | 901. | 147. | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | | 1350. | 156. | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | UJB | 903. | 156. | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | UJB | 1100. | 159. | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | UJB | 1180. | 154. | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | UJ | 1190. | 152. | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | UJB | 905. | 164. | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | UJB | 992. | 157. | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | UJB | 895. | 144. | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | UJB | 1030. | 152. | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | | 2220. | 148. | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | JB | 955. | 128. | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | | 1410. | 147. | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | JB | 803. | 137. | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | | 1750. | 145. | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | JB | 811. | 123. | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | B | 730. | 1180. | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | B | 516. | 1120. | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | B | 761. | 1180. | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | B | 545. | 1190. | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | B | 774. | 1170. | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | B | 487. | 1190. | I |
| SELENIUM, TOTAL | 0999 | 07/21/93 | 0006 | MG/KG | UJ | 0.19 | 0.19 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | JB | 0.33 | 0.22 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | JB | 0.34 | 0.22 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | UJ | 0.21 | 0.21 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | UJ | 0.24 | 0.24 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | UJ | 0.24 | 0.24 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | UJ | 0.24 | 0.24 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | UJ | 0.20 | 0.20 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | UJ | 0.20 | 0.20 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | UJ | 0.21 | 0.21 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | U | 0.42 | 0.42 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | U | 0.43 | 0.43 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | U | 0.43 | 0.43 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | U | 0.44 | 0.44 | I |

SOIL CHEMISTRY VALIDATED DATA
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SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| SELENIUM, TOTAL | 1012 | 08/03/93 | 0001 | MG/KG | UJ | 0.43 | 0.43 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | UJ | 0.42 | 0.42 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | U | 0.43 | 0.43 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | U | 0.41 | 0.41 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | U | 0.40 | 0.39 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | U | 0.39 | 0.39 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | U | 0.41 | 0.41 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | U | 0.41 | 0.41 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | U | 0.43 | 0.43 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | UJ | 0.20 | 0.20 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | UJB | 0.66 | 0.44 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | UJB | 0.41 | 0.23 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | U | 0.21 | 0.21 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | UJB | 0.31 | 0.22 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | U | 0.21 | 0.21 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | U | 0.22 | 0.22 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | U | 0.47 | 0.47 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | UJ | 0.47 | 0.47 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | U | 0.47 | 0.47 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | UJ | 0.45 | 0.45 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | U | 0.46 | 0.46 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | UJ | 0.47 | 0.47 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | UJB | 0.31 | 0.22 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | U | 0.21 | 0.21 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | UJ | 0.45 | 0.45 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | UJ | 0.43 | 0.43 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | U | 0.46 | 0.46 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | UJ | 0.44 | 0.44 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | U | 0.47 | 0.47 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | U | 0.22 | 0.22 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | UJ | 0.21 | 0.21 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | UJ | 0.21 | 0.21 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | UJB | 0.60 | 0.21 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | UJ | 0.21 | 0.21 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | UJ | 0.21 | 0.21 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | UJ | 0.21 | 0.21 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | JB | 0.31 | 0.22 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | UJ | 0.25 | 0.25 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | JB | 0.45 | 0.23 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | | R | 0.25 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | JB | 0.59 | 0.24 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | UJ | 0.25 | 0.25 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | UJ | 0.44 | 0.44 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | UJ | 0.41 | 0.41 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | UJ | 0.45 | 0.45 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | UJ | 0.41 | 0.41 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | UJ | 0.46 | 0.46 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | UJ | 3.3 | 3.3 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | UJ | 0.38 | 0.38 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | U | 0.24 | 0.24 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | UJ | 0.24 | 0.24 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | UJ | 0.24 | 0.24 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | UJ | 0.24 | 0.24 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | U | 0.23 | 0.23 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| SELENIUM, TOTAL | 1040 | 07/18/93 | 0001 | MG/KG | UJB | 0.25 | 0.25 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | U | 0.22 | 0.22 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | UJ | 0.24 | 0.24 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | UJ | 0.25 | 0.25 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | U | 0.25 | 0.25 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | U | 0.24 | 0.24 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | U | 0.24 | 0.24 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | UJB | 0.43 | 0.23 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | UJ | 3.2 | 3.2 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | UJB | 0.32 | 0.23 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | UJ | 0.39 | 0.39 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | UJ | 0.41 | 0.41 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | JB | 0.45 | 0.24 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | UJ | 0.24 | 0.24 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | UJ | 0.24 | 0.24 | I |
| SILVER, TOTAL | 0999 | 07/21/93 | 0006 | MG/KG | U | 0.98 | 0.98 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | B | 1.7 | 2.3 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | B | 1.4 | 1.4 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | B | 1.3 | 1.4 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | U | 1.4 | 1.4 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | B | 1.9 | 1.4 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | U | 1.0 | 1.0 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | B | 1.3 | 1.1 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | B | 1.4 | 1.3 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | B | 1.5 | 1.3 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | U | 1.0 | 1.0 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | U | 0.99 | 0.99 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | U | 1.0 | 0.93 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | U | 1.0 | 1.0 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | U | 1.0 | 1.0 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | U | 1.0 | 1.0 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| SILVER, TOTAL | 1019 | 07/19/93 | 0002 | MG/KG | B | 1.4 | 1.3 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | B | 1.7 | 1.4 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | U | 1.0 | 1.0 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | U | 1.2 | 1.2 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | U | 1.2 | 1.2 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | U | 1.0 | 1.0 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | U | 1.0 | 1.0 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | U | 1.0 | 1.0 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | U | 1.2 | 1.2 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | U | 1.2 | 1.2 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | U | 1.2 | 1.2 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | | 5.1 | 1.3 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | U | 0.99 | 0.99 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | U | 1.0 | 1.0 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | U | 0.86 | 0.86 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | U | 0.98 | 0.98 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | U | 1.2 | 1.2 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | U | 1.2 | 1.2 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | B | 1.5 | 1.4 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | U | 1.2 | 1.2 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | U | 1.3 | 1.3 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | U | 1.3 | 1.3 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | U | 1.2 | 1.2 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | U | 1.2 | 1.2 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | U | 1.2 | 1.2 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | U | 1.1 | 1.1 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | U | 0.94 | 0.94 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | U | 1.1 | 1.1 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| SILVER, TOTAL | 1047 | 07/14/93 | 0002 | MG/KG | U | 1.2 | 1.2 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | U | 1.2 | 1.2 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | U | 1.2 | 1.2 | I |
| SODIUM, TOTAL | 0999 | 07/21/93 | 0006 | MG/KG | JB | 28.0 | 10.8 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | B | 101. | 11.8 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | JB | 234. | 11.9 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | JB | 152. | 12.3 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | B | 184. | 12.4 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | B | 363. | 13.3 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | B | 401. | 12.0 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | B | 357. | 12.4 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | JB | 44.9 | 13.1 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | JB | 131. | 12.3 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | JB | 46.9 | 12.5 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | JB | 61.9 | 13.1 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | JB | 54.4 | 12.9 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | JB | 51.9 | 13.8 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | JB | 109. | 12.9 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | JB | 96.9 | 11.9 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | JB | 70.1 | 11.2 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | JB | 80.3 | 11.6 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | JB | 104. | 12.0 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | JB | 116. | 12.3 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | JB | 94.2 | 12.5 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | JB | 97.9 | 12.3 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | JB | 34.7 | 11.7 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | JB | 142. | 12.1 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | B | 41.3 | 11.7 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | JB | 88.2 | 12.3 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | UJB | 49.5 | 11.9 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | UJB | 108. | 12.3 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | UJB | 122. | 11.6 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | JB | 145. | 10.8 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | UJB | 106.4 | 11.0 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | UJB | 128. | 11.7 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | UJB | 107. | 11.5 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | UJB | 139. | 11.0 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | UJB | 98.5 | 11.7 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | JB | 93.3 | 11.6 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | JB | 124. | 12.2 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | JB | 123. | 11.3 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | JB | 115. | 12.3 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | JB | 119. | 11.5 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | JB | 110. | 12.3 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | B | 36.0 | 12.4 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | JB | 53.4 | 12.3 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | B | 35.2 | 12.2 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | JB | 78.6 | 13.1 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | B | 35.2 | 11.4 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | B | 50.8 | 11.9 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | UJB | 91.8 | 12.8 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | UJB | 139. | 12.9 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | UJB | 59.6 | 12.8 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | UJB | 134. | 12.2 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | UJB | 43.4 | 12.7 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | UJB | 126. | 13.0 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | B | 56.9 | 12.3 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | JB | 145. | 11.8 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | UJB | 70.5 | 12.4 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | UJB | 122. | 11.9 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | UJB | 54.1 | 12.7 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| SODIUM, TOTAL | 1027 | 08/04/93 | 0002 | MG/KG | UJB | 103. | 12.0 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | UJB | 61.2 | 12.9 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | UJB | 212. | 11.8 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | UJB | 209. | 11.7 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | JB | 209. | 11.4 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | UJB | 123. | 11.7 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | JB | 217. | 11.5 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | UJB | 127. | 11.6 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | UJB | 171. | 11.5 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | UJB | 90.5 | 12.1 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | UJB | 87.2 | 12.5 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | UJB | 75.7 | 12.7 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | UJB | 95.3 | 13.7 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | UJB | 66.3 | 13.1 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | UJB | 90.2 | 13.0 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | UJB | 87.3 | 13.0 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | UJB | 38.5 | 11.9 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | UJB | 59.6 | 10.9 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | UJB | 47.0 | 12.5 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | UJB | 37.4 | 11.4 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | UJB | 51.0 | 12.5 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | UJB | 103. | 9.4 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | UJB | 49.5 | 10.8 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | JB | 108. | 12.5 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | JB | 179. | 12.0 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | JB | 89.9 | 13.1 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | B | 184. | 13.3 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | JB | 198. | 12.5 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | B | 100. | 13.3 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | B | 185. | 13.2 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | JB | 64.4 | 13.5 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | JB | 73.2 | 13.1 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | JB | 57.9 | 12.9 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | JB | 71.1 | 13.9 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | JB | 67.2 | 13.3 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | JB | 69.1 | 12.2 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | JB | 69.3 | 12.9 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | UJB | 156. | 12.6 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | UJB | 119. | 10.9 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | UJB | 156. | 12.5 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | UJB | 131. | 11.6 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | UJB | 167. | 12.3 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | UJB | 152. | 10.4 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | B | 133. | 13.0 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | B | 103. | 12.3 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | B | 137. | 13.0 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | B | 130. | 13.1 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | B | 125. | 12.9 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | B | 127. | 13.1 | I |
| THALLIUM, TOTAL | 0999 | 07/21/93 | 0006 | MG/KG | UJ | 0.19 | 0.19 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | UJ | 0.21 | 0.21 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | UJ | 0.24 | 0.24 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | UJ | 0.22 | 0.22 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| THALLIUM, TOTAL | 1005 | 07/16/93 | 1001 | MG/KG | UJ | 0.24 | 0.24 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | UJ | 0.24 | 0.24 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | UJ | 0.20 | 0.20 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | UJ | 0.20 | 0.20 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | UJ | 0.21 | 0.21 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | UJ | 0.21 | 0.21 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | UJ | 0.21 | 0.21 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | UJ | 0.21 | 0.21 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | UJ | 0.21 | 0.21 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | UJ | 0.20 | 0.20 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | UJ | 0.22 | 0.20 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | UJ | 0.19 | 0.19 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | UJ | 0.20 | 0.20 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | UJ | 0.21 | 0.21 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | JB | 0.22 | 0.20 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | JB | 0.46 | 0.22 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | B | 0.26 | 0.22 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | U | 0.22 | 0.22 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | U | 0.22 | 0.22 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | B | 0.33 | 0.22 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | B | 0.34 | 0.23 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | | 0.43 | 0.21 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | U | 0.22 | 0.22 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | B | 0.34 | 0.23 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | U | 0.21 | 0.21 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | U | 0.22 | 0.22 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | UJ | 0.24 | 0.24 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | UJ | 0.21 | 0.21 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | JB | 0.26 | 0.22 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | UJ | 0.21 | 0.21 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | UJ | 0.21 | 0.21 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | UJ | 0.21 | 0.21 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | UJ | 0.21 | 0.21 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | UJ | 0.21 | 0.21 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | UJ | 0.21 | 0.21 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | UJ | 0.25 | 0.25 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | UJ | 0.25 | 0.25 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | UJ | 0.24 | 0.24 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | UJ | 0.25 | 0.25 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| THALLIUM, TOTAL | 1034 | 08/06/93 | 0001 | MG/KG | U | 0.44 | 0.44 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | U | 0.41 | 0.41 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | U | 0.45 | 0.45 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | U | 0.41 | 0.41 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | U | 0.46 | 0.46 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | U | 0.33 | 0.33 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | U | 0.38 | 0.38 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | UJ | 0.24 | 0.24 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | UJ | 0.24 | 0.24 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | UJ | 0.24 | 0.24 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | UJ | 0.24 | 0.24 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | | 0.32 | 0.25 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | | 0.29 | 0.24 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | U | 0.24 | 0.24 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | UJ | 0.25 | 0.25 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | UJ | 0.25 | 0.25 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | UJ | 0.24 | 0.24 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | UJ | 0.24 | 0.24 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | U | 0.32 | 0.32 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | UJ | 0.23 | 0.23 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | U | 0.39 | 0.39 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | UJ | 0.22 | 0.22 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | U | 0.41 | 0.41 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | B | 0.47 | 0.24 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | U | 0.24 | 0.24 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | U | 0.23 | 0.23 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | B | 0.35 | 0.23 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | B | 0.22 | 0.23 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | U | 0.24 | 0.24 | I |
| TIN, TOTAL | 0999 | 07/21/93 | 0006 | MG/KG | U | 3.7 | 3.7 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | U | 4.1 | 4.1 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | JB | 4.4 | 4.3 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | U | 4.2 | 4.2 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | B | 5.0 | 4.3 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | U | 4.6 | 4.6 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | U | 4.1 | 4.1 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | JB | 4.7 | 4.3 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | J | 16.2 | 16.2 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | J | 12.3 | 4.2 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | J | 20.9 | 4.3 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | J | 14.00 | 0.22 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | J | 14.6 | 4.5 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | JB | 14.6 | 4.8 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | J | 16.1 | 4.5 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | U | 4.1 | 4.1 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | U | 3.9 | 3.9 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | U | 4.0 | 4.0 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | JB | 4.2 | 4.2 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | U | 4.2 | 4.2 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | U | 4.3 | 4.3 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | U | 4.2 | 4.2 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | U | 4.1 | 4.1 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | U | 4.2 | 4.2 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | U | 4.0 | 4.0 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | U | 4.3 | 4.3 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | U | 4.1 | 4.1 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | U | 4.2 | 4.2 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| TIN, TOTAL | 1013 | 08/03/93 | 0001 | MG/KG | J | 5.1 | 4.0 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | J | 5.2 | 3.7 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | U | 3.8 | 3.5 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | J | 7.8 | 4.0 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | U | 4.0 | 4.0 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | J | 6.5 | 3.8 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | J | 4.6 | 4.0 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | JB | 7.0 | 4.0 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | JB | 6.2 | 4.2 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | JB | 7.7 | 3.9 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | JB | 9.3 | 4.3 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | JB | 12.7 | 4.0 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | JB | 9.1 | 4.3 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | U | 4.3 | 4.3 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | U | 4.3 | 4.3 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | U | 4.2 | 4.2 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | U | 4.5 | 4.5 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | U | 3.9 | 3.9 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | U | 4.1 | 4.1 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | JB | 5.6 | 4.4 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | JB | 5.3 | 4.5 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | UJ | 4.4 | 4.4 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | JB | 7.0 | 4.2 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | UJ | 4.4 | 4.4 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | JB | 6.6 | 4.5 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | U | 4.2 | 4.2 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | B | 4.6 | 4.1 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | U | 4.3 | 4.3 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | JB | 5.2 | 4.1 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | U | 4.4 | 4.4 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | JB | 5.2 | 4.2 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | U | 4.5 | 4.5 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | UJ | 17.0 | 4.1 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | UJ | 16.7 | 4.0 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | UJ | 17.7 | 3.9 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | UJB | 7.8 | 4.0 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | UJ | 13.4 | 4.0 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | UJB | 5.6 | 4.0 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | UJ | 13.1 | 4.0 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | U | 4.2 | 4.2 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | U | 4.3 | 4.3 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | U | 4.4 | 4.4 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | J | 5.9 | 4.7 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | U | 4.5 | 4.5 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | U | 4.5 | 4.5 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | U | 4.5 | 4.5 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | UJB | 4.2 | 4.1 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | UJ | 3.8 | 3.8 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | UJ | 4.3 | 4.3 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | UJ | 3.9 | 3.9 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | U | 4.3 | 4.3 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | UJ | 3.3 | 3.3 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | UJ | 3.7 | 3.7 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | U | 4.3 | 4.3 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | U | 4.1 | 4.1 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | U | 4.5 | 4.5 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | U | 4.6 | 4.6 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | U | 4.3 | 4.3 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | U | 4.6 | 4.6 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | U | 4.6 | 4.6 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | U | 4.7 | 4.7 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | U | 4.5 | 4.5 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| TIN, TOTAL | 1040 | 07/18/93 | 1001 | MG/KG | U | 4.4 | 4.4 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | U | 4.8 | 4.8 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | U | 4.6 | 4.6 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | U | 4.2 | 4.2 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | U | 4.4 | 4.4 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | UJB | 11.4 | 4.3 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | UJ | 3.8 | 3.8 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | UJB | 5.9 | 4.3 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | UJ | 4.0 | 4.0 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | UJ | 13.2 | 4.2 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | UJ | 3.6 | 3.6 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | | 20.1 | 4.5 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | | 17.3 | 4.2 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | | 18.0 | 4.5 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | | 18.6 | 4.5 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | | 22.5 | 4.5 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | | 17.4 | 4.5 | I |
| VANADIUM, TOTAL | 0999 | 07/21/93 | 0006 | MG/KG | J | 3.9 | 1.8 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | | 16.9 | 1.9 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | J | 14.4 | 2.0 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | J | 17.4 | 2.0 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | | 13.3 | 2.0 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | J | 20.1 | 2.2 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | J | 13.8 | 2.0 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | J | 17.2 | 2.0 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | | 20.6 | 2.2 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | | 13.8 | 2.0 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | | 31.1 | 2.0 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | | 22.2 | 2.1 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | | 25.7 | 2.1 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | | 24.9 | 2.3 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | | 25.7 | 2.1 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | J | 9.7 | 1.9 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | J | 8.7 | 1.8 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | J | 10.5 | 1.9 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | J | 10.1 | 2.0 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | J | 11.9 | 2.0 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | J | 10.7 | 2.0 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | J | 10.8 | 2.0 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | J | 11.9 | 1.9 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | J | 15.4 | 2.0 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | | 9.2 | 1.9 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | J | 12.7 | 2.0 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | | 10.8 | 1.9 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | J | 16.7 | 2.0 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | J | 21.2 | 1.9 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | J | 20.8 | 1.8 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | J | 19.4 | 1.8 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | J | 19.7 | 1.9 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | J | 18.1 | 1.9 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | J | 20.0 | 1.8 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | J | 18.1 | 1.9 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | | 13.3 | 1.9 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | | 16.0 | 2.0 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | | 14.1 | 1.9 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | | 14.0 | 2.0 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | | 14.3 | 1.9 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | | 13.0 | 2.0 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | | 12.5 | 2.0 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | | 7.3 | 2.0 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | | 11.7 | 2.0 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| VANADIUM, TOTAL | 1020 | 07/19/93 | 0002 | MG/KG | | 29.3 | 2.1 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | | 10.9 | 1.9 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | | 20.3 | 1.9 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | J | 17.2 | 2.1 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | J | 18.7 | 2.1 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | J | 21.7 | 2.1 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | J | 19.1 | 2.0 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | J | 20.4 | 2.1 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | J | 20.5 | 2.1 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | | 13.6 | 2.0 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | | 18.4 | 1.9 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | | 16.7 | 2.0 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | J | 18.2 | 1.9 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | | 15.7 | 2.1 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | J | 15.4 | 2.0 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | | 15.9 | 2.1 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | J | 21.6 | 1.9 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | J | 22.8 | 1.9 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | J | 19.6 | 1.9 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | | 19.4 | 1.9 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | J | 18.5 | 1.9 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | | 18.8 | 1.9 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | J | 16.9 | 1.9 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | | 20.6 | 2.0 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | | 24.4 | 2.0 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | | 18.1 | 2.1 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | | 22.1 | 2.2 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | | 19.9 | 2.1 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | | 21.9 | 2.1 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | | 20.8 | 2.1 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | | 12.9 | 2.0 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | | 16.0 | 1.8 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | | 10.9 | 2.0 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | | 11.9 | 1.9 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | | 12.9 | 2.0 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | | 13.3 | 1.5 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | | 12.3 | 1.8 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | | 21.1 | 2.0 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | J | 20.6 | 2.0 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | | 15.2 | 2.1 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | | 18.7 | 2.2 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | | 19.2 | 2.0 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | | 15.2 | 2.2 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | | 21.8 | 2.2 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | | 17.9 | 2.2 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | | 19.9 | 2.1 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | | 18.5 | 2.1 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | | 17.4 | 2.3 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | | 23.6 | 2.2 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | | 17.4 | 2.0 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | | 17.6 | 2.1 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | J | 19.9 | 2.1 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | | 10.0 | 1.8 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | J | 12.6 | 2.0 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | | 11.3 | 1.9 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | J | 11.4 | 2.0 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | | 11.7 | 1.7 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | | 19.9 | 2.1 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | | 17.4 | 2.0 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | | 18.5 | 2.1 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | | 20.4 | 2.1 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | | 21.6 | 2.1 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| VANADIUM, TOTAL | 1048 | 07/14/93 | 0002 | MG/KG | | 19.7 | 2.1 | I |
| ZINC, TOTAL | 0999 | 07/21/93 | 0006 | MG/KG | | 16.4 | 1.8 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | | 48.0 | 1.9 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | | 56.0 | 2.0 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | | 55.2 | 2.0 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | | 47.1 | 2.0 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | | 60.3 | 2.2 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | | 57.0 | 2.0 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | | 55.1 | 2.0 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | | 53.1 | 2.2 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | | 39.8 | 2.0 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | | 85.6 | 2.0 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | | 52.3 | 2.1 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | | 66.7 | 2.1 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | | 61.0 | 2.3 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | | 61.2 | 2.1 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | | 59.6 | 1.9 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | | 50.4 | 1.8 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | | 61.5 | 1.9 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | | 64.3 | 2.0 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | | 62.5 | 2.0 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | | 55.1 | 2.0 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | | 58.8 | 2.0 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | | 55.9 | 1.9 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | | 61.9 | 2.0 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | | 37.1 | 1.9 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | | 60.3 | 2.0 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | UJ | 46.3 | 1.9 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | | 66.4 | 2.0 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | | 73.6 | 1.9 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | | 142. | 1.8 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | UJ | 53.8 | 1.8 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | UJ | 39.2 | 1.9 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | UJ | 44.2 | 1.9 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | UJ | 39.7 | 1.8 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | UJ | 45.5 | 1.9 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | | 62.1 | 1.9 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | | 61.5 | 2.0 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | | 67.4 | 1.9 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | | 63.6 | 2.0 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | | 81.5 | 1.9 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | | 64.9 | 2.0 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | | 49.2 | 2.0 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | | 51.2 | 2.0 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | | 40.5 | 2.0 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | | 125. | 2.1 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | | 42.0 | 1.9 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | | 70.8 | 1.9 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | UJ | 45.7 | 2.1 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | UJ | 37.7 | 2.1 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | UJ | 72.6 | 2.1 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | UJ | 41.2 | 2.0 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | UJ | 113. | 2.1 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | UJ | 42.0 | 2.1 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | | 59.6 | 2.0 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | | 48.1 | 1.9 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | UJ | 62.4 | 2.0 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | UJ | 61.6 | 1.9 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | UJ | 67.1 | 2.1 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | UJ | 46.3 | 2.0 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | UJ | 71.5 | 2.1 | I |

SOIL CHEMISTRY VALIDATED DATA
INORGANICS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| ZINC, TOTAL | 1028 | 08/05/93 | 0001 | MG/KG | | 55.8 | 1.9 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | | 40.9 | 1.9 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | | 45.7 | 1.9 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | | 53.5 | 1.9 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | UJ | 32.9 | 1.9 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | | 59.9 | 1.9 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | | 38.7 | 1.9 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | | 55.7 | 2.0 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | | 51.7 | 2.0 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | | 51.5 | 2.1 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | | 59.9 | 2.2 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | | 52.5 | 2.1 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | | 49.0 | 2.1 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | | 48.2 | 2.1 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | | 60.0 | 2.0 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | | 53.1 | 1.8 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | | 48.1 | 2.0 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | | 46.4 | 1.9 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | | 45.4 | 2.0 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | J | 39.9 | 1.5 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | | 42.1 | 1.8 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | | 140. | 2.0 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | | 30.7 | 2.0 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | | 71.8 | 2.1 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | | 45.0 | 2.2 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | | 46.6 | 2.0 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | | 92.4 | 2.2 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | | 43.2 | 2.2 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | | 67.6 | 2.2 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | | 67.7 | 2.1 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | | 76.6 | 2.1 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | | 63.0 | 2.3 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | | 69.6 | 2.2 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | | 61.5 | 2.0 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | | 63.4 | 2.1 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | J | 473.0 | 2.1 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | | 126. | 1.8 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | | 124. | 2.0 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | | 73.8 | 1.9 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | | 738. | 2.0 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | | 96.9 | 1.7 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | | 75.9 | 2.1 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | | 54.9 | 2.0 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | | 73.6 | 2.1 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | | 59.7 | 2.1 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | | 75.7 | 2.1 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | | 50.8 | 2.1 | I |

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SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 0999 | 07/21/93 | 0006 | UG/KG | J | 160. | 19. | I |
| | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 190. | D1 |
| | 1001 | 08/01/93 | 0001 | UG/KG | J | 4.1 | 3.7 | I |
| | 1001 | 08/01/93 | 0002 | UG/KG | J | 3.3 | 3.6 | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 4.3 | 4.3 | I |
| | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | U | 3.8 | 3.8 | X1 |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 4.2 | 4.2 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 3.8 | R1 |
| | 1034 | 08/06/93 | 0002 | UG/KG | U | 3.8 | 3.8 | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | U | 3.7 | 3.7 | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | U | 3.8 | 3.8 | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | U | 3.7 | 3.7 | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | U | 3.7 | 3.7 | I |
| | 1037 | 07/18/93 | 0001 | UG/KG | U | 3.9 | 3.9 | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 3.8 | 3.8 | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 4.0 | 4.0 | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 4.0 | 4.0 | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 4.1 | 4.1 | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 4.2 | 4.2 | I |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 4.2 | 4.2 | I |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 4.0 | 4.0 | I |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 3.9 | 3.9 | I |
| | 1043 | 08/05/93 | 0001 | UG/KG | J | 21. | 19. | X1 |
| | 1043 | 08/06/93 | 0002 | UG/KG | J | 2.6 | 3.7 | X1 |
| | 1044 | 08/05/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1044 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| 4,4'-DDE | 0999 | 07/21/93 | 0006 | UG/KG | J | 330. | 19. | I |
| | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 190. | D1 |
| | 1001 | 08/01/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1001 | 08/01/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 4.1 | 4.1 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| 4,4'-DDE | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 4.3 | 4.3 | I |
| | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | J | 12. | 3.8 | I |
| | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | J | 2.3 | 3.8 | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | U | 3.8 | 3.8 | I |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 4.2 | 4.2 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| 4,4'-DDE | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 3.8 | R1 |
| | 1034 | 08/06/93 | 0002 | UG/KG | U | 3.8 | 3.8 | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | U | 3.7 | 3.7 | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | U | 3.8 | 3.8 | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | U | 3.7 | 3.7 | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | U | 3.7 | 3.7 | I |
| | 1037 | 07/18/93 | 0001 | UG/KG | U | 3.9 | 3.9 | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 3.8 | 3.8 | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 4.0 | 4.0 | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 4.0 | 4.0 | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 4.1 | 4.1 | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 4.2 | 4.2 | I |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 4.2 | 4.2 | I |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 4.0 | 4.0 | I |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 3.9 | 3.9 | I |
| | 1043 | 08/05/93 | 0001 | UG/KG | J | 39. | 19. | X1 |
| | 1043 | 08/06/93 | 0002 | UG/KG | J | 2.6 | 3.7 | X1 |
| | 1044 | 08/05/93 | 0001 | UG/KG | J | 2.7 | 3.8 | X1 |
| | 1044 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| 4,4'-DDT | 0999 | 07/21/93 | 0006 | UG/KG | J | 150. | 19. | I |
| | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 190. | D1 |
| | 1001 | 08/01/93 | 0001 | UG/KG | J | 2.2 | 3.7 | X1 |
| | 1001 | 08/01/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 4.3 | 4.3 | I |
| | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| 4,4'-DDT | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | J | 1.9 | 3.7 | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | J | 13. | 3.8 | I |
| | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | J | 8.1 | 3.8 | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | J | 3.1 | 3.8 | X1 |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | J | 3.8 | 3.4 | X1 |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | U | 3.8 | 3.8 | I |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 4.2 | 4.2 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 3.8 | R1 |
| | 1034 | 08/06/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1037 | 07/18/93 | 0001 | UG/KG | U | 3.9 | 3.9 | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 3.8 | 3.8 | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 4.0 | 4.0 | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 4.0 | 4.0 | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 4.1 | 4.1 | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| 4,4'-DDT | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 4.2 | 4.2 | I |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 4.2 | 4.2 | I |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 4.0 | 4.0 | I |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 3.9 | 3.9 | I |
| | 1043 | 08/05/93 | 0001 | UG/KG | | NA | 19. | I |
| | 1043 | 08/05/93 | 0001 | UG/KG | J | 920. | 190. | X2 |
| | 1043 | 08/06/93 | 0002 | UG/KG | J | 45. | 3.7 | X1 |
| | 1044 | 08/05/93 | 0001 | UG/KG | J | 12. | 3.8 | X1 |
| | 1044 | 08/06/93 | 0002 | UG/KG | J | 3.4 | 3.7 | X1 |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| ALDRIN | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 9.4 | I |
| | 0999 | 07/21/93 | 0006 | UG/KG | J | 280. | 94. | D1 |
| | 1001 | 08/01/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1001 | 08/01/93 | 0002 | UG/KG | U | 1.8 | 1.8 | X1 |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| ALDRIN | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1022 | 08/04/93 | 0002 | UG/KG | U | 2.0 | 2.0 | X1 |
| | 1023 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 1.9 | R1 |
| | 1034 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | U | 1.8 | 1.8 | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1037 | 07/18/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 2.0 | 2.0 | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 2.1 | 2.1 | I |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 2.1 | 2.1 | I |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 2.0 | 2.0 | I |
| | 1043 | 08/05/93 | 0001 | UG/KG | UJ | 9.3 | 9.3 | I |
| | 1043 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1044 | 08/05/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1044 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| ALDRIN | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| ALPHA CHLORDANE | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 9.4 | I |
| | 0999 | 07/21/93 | 0006 | UG/KG | J | 240. | 94. | X2 |
| | 1001 | 08/01/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1001 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| ALPHA CHLORDANE | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 1.9 | R1 |
| | 1034 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | U | 1.8 | 1.8 | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1037 | 07/18/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 2.0 | 2.0 | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 2.1 | 2.1 | I |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 2.1 | 2.1 | I |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | X1 |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 2.0 | 2.0 | I |
| | 1043 | 08/05/93 | 0001 | UG/KG | UJ | 9.3 | 9.3 | I |
| | 1043 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1044 | 08/05/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1044 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| ALPHA-BHC | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 9.4 | I |
| | 0999 | 07/21/93 | 0006 | UG/KG | J | 160. | 94. | X2 |
| | 1001 | 08/01/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1001 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| ALPHA-BHC | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| ALPHA-BHC | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 1.9 | R1 |
| | 1034 | 08/06/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1037 | 07/18/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 2.0 | 2.0 | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 2.1 | 2.1 | I |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 2.1 | 2.1 | I |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 2.0 | 2.0 | I |
| | 1043 | 08/05/93 | 0001 | UG/KG | UJ | 9.3 | 9.3 | I |
| | 1043 | 08/06/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1044 | 08/05/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1044 | 08/06/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| AROCLOR-1016 | 0999 | 07/21/93 | 0006 | UG/KG | UJ | 190. | 190. | I |
| | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 1900. | D1 |
| | 1001 | 08/01/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1001 | 08/01/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 40. | 40. | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 38. | 38. | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | UJ | 40. | 40. | I |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 38. | 38. | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 41. | 41. | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 41. | 41. | I |
| | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 43. | 43. | I |
| | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 41. | 41. | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 35. | 35. | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 34. | 34. | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 38. | 38. | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 37. | 37. | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| AROCLOR-1016 | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 38. | 38. | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 35. | 35. | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 35. | 35. | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 36. | 36. | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 39. | 39. | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 38. | 38. | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 39. | 39. | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 39. | 39. | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 38. | 38. | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 34. | 34. | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 35. | 35. | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 34. | 34. | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 34. | 34. | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 41. | 41. | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | U | 38. | 38. | I |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 41. | 41. | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 41. | 41. | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 39. | 39. | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 42. | 42. | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 38. | R1 |
| | 1034 | 08/06/93 | 0002 | UG/KG | U | 38. | 38. | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | U | 37. | 37. | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | U | 38. | 38. | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | U | 37. | 37. | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | U | 37. | 37. | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | U | 37. | 37. | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| AROCLOR-1016 | 1037 | 07/18/93 | 0001 | UG/KG | U | 39. | 39. | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 38. | 38. | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 40. | 40. | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 40. | 40. | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 37. | 37. | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 41. | 41. | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 41. | 41. | I |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 40. | 40. | I |
| | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 40. | 40. | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 42. | 42. | I |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 42. | 42. | I |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 40. | 40. | I |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 39. | 39. | I |
| | 1043 | 08/05/93 | 0001 | UG/KG | UJ | 190. | 190. | I |
| | 1043 | 08/06/93 | 0002 | UG/KG | U | 37. | 37. | I |
| | 1044 | 08/05/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1044 | 08/06/93 | 0002 | UG/KG | U | 37. | 37. | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | U | 37. | 37. | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 39. | 39. | I |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 39. | 39. | I |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 39. | 39. | I |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| AROCLOR-1221 | 0999 | 07/21/93 | 0006 | UG/KG | UJ | 380. | 380. | I |
| | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 3800. | D1 |
| | 1001 | 08/01/93 | 0001 | UG/KG | UJ | 74. | 74. | I |
| | 1001 | 08/01/93 | 0002 | UG/KG | UJ | 72. | 72. | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 74. | 74. | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 74. | 74. | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 79. | 79. | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 72. | 72. | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 75. | 75. | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | UJ | 80. | 80. | I |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 76. | 76. | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 81. | 81. | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 80. | 80. | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 81. | 81. | I |
| | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 85. | 85. | I |
| | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 82. | 82. | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 70. | 70. | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 68. | 68. | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 76. | 76. | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 76. | 76. | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 74. | 74. | I |
| | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 74. | 74. | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 75. | 75. | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 71. | 71. | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 74. | 74. | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 71. | 71. | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 75. | 75. | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 72. | 72. | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 75. | 75. | I |
| | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 72. | 72. | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 69. | 69. | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 72. | 72. | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 71. | 71. | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 71. | 71. | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 70. | 70. | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| AROCLOR-1221 | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 72. | 72. | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 72. | 72. | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 73. | 73. | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 74. | 74. | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 74. | 74. | I |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 73. | 73. | I |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 74. | 74. | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 77. | 77. | I |
| | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 75. | 75. | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 76. | 76. | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 79. | 79. | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 72. | 72. | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 75. | 75. | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | UJ | 77. | 77. | I |
| | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 78. | 78. | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | UJ | 77. | 77. | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 74. | 74. | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | UJ | 76. | 76. | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 78. | 78. | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 75. | 75. | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 71. | 71. | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 74. | 74. | I |
| | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 72. | 72. | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 75. | 75. | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 73. | 73. | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 77. | 77. | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 72. | 72. | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 71. | 71. | I |
| | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 68. | 68. | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 69. | 69. | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 68. | 68. | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 69. | 69. | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 69. | 69. | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 75. | 75. | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 82. | 82. | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | U | 76. | 76. | I |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 83. | 83. | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 82. | 82. | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 79. | 79. | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 85. | 85. | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 75. | 75. | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 76. | R1 |
| | 1034 | 08/06/93 | 0002 | UG/KG | U | 76. | 76. | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | U | 75. | 75. | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | U | 75. | 75. | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | U | 74. | 74. | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | U | 73. | 73. | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | U | 74. | 74. | I |
| | 1037 | 07/18/93 | 0001 | UG/KG | U | 78. | 78. | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 77. | 77. | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 80. | 80. | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 79. | 79. | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 75. | 75. | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 82. | 82. | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 81. | 81. | I |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 79. | 79. | I |
| | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 79. | 79. | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 80. | 80. | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 84. | 84. | I |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 83. | 83. | I |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 80. | 80. | I |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 78. | 78. | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| AROCLOR-1221 | 1043 | 08/05/93 | 0001 | UG/KG | UJ | 370. | 370. | I |
| | 1043 | 08/06/93 | 0002 | UG/KG | U | 75. | 75. | I |
| | 1044 | 08/05/93 | 0001 | UG/KG | UJ | 76. | 76. | I |
| | 1044 | 08/06/93 | 0002 | UG/KG | U | 75. | 75. | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 74. | 74. | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | U | 75. | 75. | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 79. | 79. | I |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 79. | 79. | I |
| | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 79. | 79. | I |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 80. | 80. | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 79. | 79. | I |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 80. | 80. | I |
| AROCLOR-1232 | 0999 | 07/21/93 | 0006 | UG/KG | UJ | 190. | 190. | I |
| | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 1900. | D1 |
| | 1001 | 08/01/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1001 | 08/01/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 40. | 40. | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 38. | 38. | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | UJ | 40. | 40. | I |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 38. | 38. | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 41. | 41. | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 41. | 41. | I |
| | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 43. | 43. | I |
| | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 41. | 41. | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 35. | 35. | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 34. | 34. | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 38. | 38. | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 38. | 38. | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 35. | 35. | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 35. | 35. | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 36. | 36. | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 39. | 39. | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 38. | 38. | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| AROCLOR-1232 | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 39. | 39. | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 39. | 39. | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 38. | 38. | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 34. | 34. | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 35. | 35. | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 34. | 34. | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 34. | 34. | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 41. | 41. | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | U | 38. | 38. | I |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 41. | 41. | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 41. | 41. | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 39. | 39. | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 42. | 42. | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 38. | R1 |
| | 1034 | 08/06/93 | 0002 | UG/KG | U | 38. | 38. | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | U | 37. | 37. | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | U | 38. | 38. | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | U | 37. | 37. | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | U | 37. | 37. | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | U | 37. | 37. | I |
| | 1037 | 07/18/93 | 0001 | UG/KG | U | 39. | 39. | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 38. | 38. | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 40. | 40. | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 40. | 40. | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 37. | 37. | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 41. | 41. | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 41. | 41. | I |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 40. | 40. | I |
| | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 40. | 40. | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 42. | 42. | I |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 42. | 42. | I |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 40. | 40. | I |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 39. | 39. | I |
| | 1043 | 08/05/93 | 0001 | UG/KG | UJ | 190. | 190. | I |
| | 1043 | 08/06/93 | 0002 | UG/KG | U | 37. | 37. | I |
| | 1044 | 08/05/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1044 | 08/06/93 | 0002 | UG/KG | U | 37. | 37. | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | U | 37. | 37. | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 39. | 39. | I |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 39. | 39. | I |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 39. | 39. | I |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| AROCLOR-1242 | 0999 | 07/21/93 | 0006 | UG/KG | UJ | 190. | 190. | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| AROCLOR-1242 | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 1900. | D1 |
| | 1001 | 08/01/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1001 | 08/01/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 40. | 40. | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 38. | 38. | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | UJ | 40. | 40. | I |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 38. | 38. | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 41. | 41. | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 41. | 41. | I |
| | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 43. | 43. | I |
| | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 41. | 41. | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 35. | 35. | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 34. | 34. | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 38. | 38. | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 38. | 38. | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 35. | 35. | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 35. | 35. | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 36. | 36. | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 39. | 39. | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 38. | 38. | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 39. | 39. | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 39. | 39. | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 38. | 38. | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 35. | 35. | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| AROCLOR-1242 | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 34. | 34. | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 35. | 35. | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 34. | 34. | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 34. | 34. | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 41. | 41. | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | U | 38. | 38. | I |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 41. | 41. | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 41. | 41. | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 39. | 39. | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 42. | 42. | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 38. | R1 |
| | 1034 | 08/06/93 | 0002 | UG/KG | U | 38. | 38. | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | U | 37. | 37. | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | U | 38. | 38. | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | U | 37. | 37. | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | U | 37. | 37. | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | U | 37. | 37. | I |
| | 1037 | 07/18/93 | 0001 | UG/KG | U | 39. | 39. | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 38. | 38. | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 40. | 40. | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 40. | 40. | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 37. | 37. | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 41. | 41. | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 41. | 41. | I |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 40. | 40. | I |
| | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 40. | 40. | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 42. | 42. | I |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 42. | 42. | I |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 40. | 40. | I |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 39. | 39. | I |
| | 1043 | 08/05/93 | 0001 | UG/KG | UJ | 190. | 190. | I |
| | 1043 | 08/06/93 | 0002 | UG/KG | U | 37. | 37. | I |
| | 1044 | 08/05/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1044 | 08/06/93 | 0002 | UG/KG | U | 37. | 37. | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | U | 37. | 37. | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 39. | 39. | I |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 39. | 39. | I |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 39. | 39. | I |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| AROCLOR-1248 | 0999 | 07/21/93 | 0006 | UG/KG | UJ | 190. | 190. | I |
| | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 1900. | D1 |
| | 1001 | 08/01/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1001 | 08/01/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 40. | 40. | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 38. | 38. | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | UJ | 40. | 40. | I |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 38. | 38. | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 41. | 41. | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 41. | 41. | I |
| | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 43. | 43. | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| AROCLOR-1248 | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 41. | 41. | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 35. | 35. | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 34. | 34. | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 38. | 38. | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 38. | 38. | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 35. | 35. | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 35. | 35. | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 36. | 36. | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 39. | 39. | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 38. | 38. | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 39. | 39. | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 39. | 39. | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 38. | 38. | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 34. | 34. | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 35. | 35. | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 34. | 34. | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 34. | 34. | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 41. | 41. | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | U | 38. | 38. | I |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 41. | 41. | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 41. | 41. | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 39. | 39. | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 42. | 42. | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 38. | R1 |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| AROCLOR-1248 | 1034 | 08/06/93 | 0002 | UG/KG | U | 38. | 38. | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | U | 37. | 37. | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | U | 38. | 38. | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | U | 37. | 37. | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | U | 37. | 37. | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | U | 37. | 37. | I |
| | 1037 | 07/18/93 | 0001 | UG/KG | U | 39. | 39. | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 38. | 38. | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 40. | 40. | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 40. | 40. | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 37. | 37. | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 41. | 41. | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 41. | 41. | I |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 40. | 40. | I |
| | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 40. | 40. | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 42. | 42. | I |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 42. | 42. | I |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 40. | 40. | I |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 39. | 39. | I |
| | 1043 | 08/05/93 | 0001 | UG/KG | UJ | 190. | 190. | I |
| | 1043 | 08/06/93 | 0002 | UG/KG | U | 37. | 37. | I |
| | 1044 | 08/05/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1044 | 08/06/93 | 0002 | UG/KG | U | 37. | 37. | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | U | 37. | 37. | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 39. | 39. | I |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 39. | 39. | I |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 39. | 39. | I |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| AROCLOR-1254 | 0999 | 07/21/93 | 0006 | UG/KG | UJ | 190. | 190. | I |
| | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 1900. | D1 |
| | 1001 | 08/01/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1001 | 08/01/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 40. | 40. | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 38. | 38. | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | UJ | 40. | 40. | I |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 38. | 38. | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 41. | 41. | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 41. | 41. | I |
| | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 43. | 43. | I |
| | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 41. | 41. | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 35. | 35. | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 34. | 34. | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 38. | 38. | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 38. | 38. | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 35. | 35. | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 37. | 37. | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| AROCLOR-1254 | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 35. | 35. | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 36. | 36. | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 39. | 39. | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 38. | 38. | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 39. | 39. | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 39. | 39. | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 38. | 38. | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 34. | 34. | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 35. | 35. | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 34. | 34. | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 34. | 34. | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 41. | 41. | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | U | 38. | 38. | I |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 41. | 41. | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 41. | 41. | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 39. | 39. | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 42. | 42. | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 38. | R1 |
| | 1034 | 08/06/93 | 0002 | UG/KG | U | 38. | 38. | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | U | 37. | 37. | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | U | 38. | 38. | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | U | 37. | 37. | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | U | 37. | 37. | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | U | 37. | 37. | I |
| | 1037 | 07/18/93 | 0001 | UG/KG | U | 39. | 39. | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 38. | 38. | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 40. | 40. | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 40. | 40. | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 37. | 37. | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 41. | 41. | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 41. | 41. | I |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 40. | 40. | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| AROCLOR-1254 | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 40. | 40. | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 42. | 42. | I |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 42. | 42. | I |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 40. | 40. | I |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 39. | 39. | I |
| | 1043 | 08/05/93 | 0001 | UG/KG | UJ | 190. | 190. | I |
| | 1043 | 08/06/93 | 0002 | UG/KG | U | 37. | 37. | I |
| | 1044 | 08/05/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1044 | 08/06/93 | 0002 | UG/KG | U | 37. | 37. | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | U | 37. | 37. | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | J | 57. | 39. | I |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| | 1047 | 07/14/93 | 0001 | UG/KG | J | 58. | 39. | X1 |
| | 1047 | 07/14/93 | 0002 | UG/KG | J | 24. | 40. | X1 |
| | 1048 | 07/14/93 | 0001 | UG/KG | J | 65. | 39. | X1 |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| AROCLOR-1260 | 0999 | 07/21/93 | 0006 | UG/KG | UJ | 190. | 190. | I |
| | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 1900. | D1 |
| | 1001 | 08/01/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1001 | 08/01/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 40. | 40. | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 38. | 38. | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | UJ | 40. | 40. | I |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 38. | 38. | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 41. | 41. | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 41. | 41. | I |
| | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 43. | 43. | I |
| | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 41. | 41. | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 35. | 35. | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 34. | 34. | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 38. | 38. | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 38. | 38. | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 35. | 35. | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 35. | 35. | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 36. | 36. | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 38. | 38. | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| AROCLOR-1260 | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 39. | 39. | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 38. | 38. | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 39. | 39. | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 37. | 37. | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 39. | 39. | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 36. | 36. | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 38. | 38. | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 36. | 36. | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 34. | 34. | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 35. | 35. | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 34. | 34. | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 34. | 34. | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 35. | 35. | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 41. | 41. | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | U | 38. | 38. | I |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 41. | 41. | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 41. | 41. | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 39. | 39. | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 42. | 42. | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 38. | R1 |
| | 1034 | 08/06/93 | 0002 | UG/KG | U | 38. | 38. | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | U | 37. | 37. | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | U | 38. | 38. | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | U | 37. | 37. | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | U | 37. | 37. | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | U | 37. | 37. | I |
| | 1037 | 07/18/93 | 0001 | UG/KG | U | 39. | 39. | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 38. | 38. | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 40. | 40. | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 40. | 40. | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 37. | 37. | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 41. | 41. | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 41. | 41. | I |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 40. | 40. | I |
| | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 40. | 40. | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 42. | 42. | I |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 42. | 42. | I |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 40. | 40. | I |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 39. | 39. | I |
| | 1043 | 08/05/93 | 0001 | UG/KG | UJ | 190. | 190. | I |
| | 1043 | 08/06/93 | 0002 | UG/KG | U | 37. | 37. | I |
| | 1044 | 08/05/93 | 0001 | UG/KG | UJ | 38. | 38. | I |
| | 1044 | 08/06/93 | 0002 | UG/KG | U | 37. | 37. | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 37. | 37. | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | U | 37. | 37. | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 39. | 39. | I |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 40. | 40. | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| AROCLOR-1260 | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 39. | 39. | I |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 39. | 39. | I |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 40. | 40. | I |
| BETA-BHC | 0999 | 07/21/93 | 0006 | UG/KG | J | 100. | 9.4 | I |
| | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 94. | D1 |
| | 1001 | 08/01/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1001 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| BETA-BHC | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 1.9 | R1 |
| | 1034 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | U | 1.8 | 1.8 | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1037 | 07/18/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 2.0 | 2.0 | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 2.1 | 2.1 | I |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 2.1 | 2.1 | I |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 2.0 | 2.0 | I |
| | 1043 | 08/05/93 | 0001 | UG/KG | UJ | 9.3 | 9.3 | I |
| | 1043 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1044 | 08/05/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1044 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| DELTA-BHC | 0999 | 07/21/93 | 0006 | UG/KG | UJ | 9.4 | 9.4 | I |
| | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 94. | D1 |
| | 1001 | 08/01/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1001 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| DELTA-BHC | 1004 | 07/15/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | X1 |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | X1 |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| DELTA-BHC | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 1.9 | R1 |
| | 1034 | 08/06/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1037 | 07/18/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 2.0 | 2.0 | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | X1 |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 2.1 | 2.1 | I |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 2.1 | 2.1 | I |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 2.0 | 2.0 | I |
| | 1043 | 08/05/93 | 0001 | UG/KG | UJ | 9.3 | 9.3 | I |
| | 1043 | 08/06/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1044 | 08/05/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1044 | 08/06/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| DIELDRIN | 0999 | 07/21/93 | 0006 | UG/KG | J | 290. | 19. | I |
| | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 190. | D1 |
| | 1001 | 08/01/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1001 | 08/01/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 4.3 | 4.3 | I |
| | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| DIELDRIN | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | X1 |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | X1 |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | X1 |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | | NA | 3.8 | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | U | 3.8 | 3.8 | X1 |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | | NA | 3.9 | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | X1 |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 4.2 | 4.2 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 3.8 | R1 |
| | 1034 | 08/06/93 | 0002 | UG/KG | U | 3.8 | 3.8 | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | U | 3.7 | 3.7 | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | U | 3.8 | 3.8 | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | U | 3.7 | 3.7 | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | U | 3.7 | 3.7 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| DIELDRIN | 1037 | 07/18/93 | 0001 | UG/KG | U | 3.9 | 3.9 | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 3.8 | 3.8 | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 4.0 | 4.0 | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 4.0 | 4.0 | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 4.1 | 4.1 | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 4.2 | 4.2 | I |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 4.2 | 4.2 | I |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 4.0 | 4.0 | I |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 3.9 | 3.9 | I |
| | 1043 | 08/05/93 | 0001 | UG/KG | UJ | 19. | 19. | I |
| | 1043 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1044 | 08/05/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | X1 |
| | 1044 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| ENDOSULFAN I(ALPHA) | 0999 | 07/21/93 | 0006 | UG/KG | UJ | 9.4 | 9.4 | I |
| | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 94. | D1 |
| | 1001 | 08/01/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1001 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | U | 2.0 | 2.0 | X1 |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| ENDOSULFAN I(ALPHA) | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 1.9 | R1 |
| | 1034 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | U | 1.8 | 1.8 | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1037 | 07/18/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 2.0 | 2.0 | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 2.1 | 2.1 | I |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 2.1 | 2.1 | I |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 2.0 | 2.0 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| ENDOSULFAN I(ALPHA) | 1043 | 08/05/93 | 0001 | UG/KG | UJ | 9.3 | 9.3 | I |
| | 1043 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1044 | 08/05/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1044 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | X1 |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | X1 |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | X1 |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| ENDOSULFAN II(BETA) | 0999 | 07/21/93 | 0006 | UG/KG | UJ | 19. | 19. | I |
| | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 190. | D1 |
| | 1001 | 08/01/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1001 | 08/01/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 4.3 | 4.3 | I |
| | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| ENDOSULFAN II(BETA) | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | J | 1.9 | 3.8 | X1 |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 4.2 | 4.2 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 3.8 | R1 |
| | 1034 | 08/06/93 | 0002 | UG/KG | U | 3.8 | 3.8 | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | U | 3.7 | 3.7 | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | U | 3.8 | 3.8 | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | U | 3.7 | 3.7 | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | U | 3.7 | 3.7 | I |
| | 1037 | 07/18/93 | 0001 | UG/KG | U | 3.9 | 3.9 | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 3.8 | 3.8 | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 4.0 | 4.0 | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 4.0 | 4.0 | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 4.1 | 4.1 | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 4.2 | 4.2 | I |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 4.2 | 4.2 | I |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 4.0 | 4.0 | I |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 3.9 | 3.9 | I |
| | 1043 | 08/05/93 | 0001 | UG/KG | UJ | 19. | 19. | I |
| | 1043 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1044 | 08/05/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1044 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| ENDOSULFAN SULFATE | 0999 | 07/21/93 | 0006 | UG/KG | UJ | 19. | 19. | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| ENDOSULFAN SULFATE | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 190. | D1 |
| | 1001 | 08/01/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1001 | 08/01/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 4.3 | 4.3 | I |
| | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| ENDOSULFAN SULFATE | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | U | 3.8 | 3.8 | I |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 4.2 | 4.2 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 3.8 | R1 |
| | 1034 | 08/06/93 | 0002 | UG/KG | U | 3.8 | 3.8 | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | U | 3.7 | 3.7 | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | U | 3.8 | 3.8 | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | U | 3.7 | 3.7 | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | U | 3.7 | 3.7 | I |
| | 1037 | 07/18/93 | 0001 | UG/KG | U | 3.9 | 3.9 | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 3.8 | 3.8 | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 4.0 | 4.0 | X1 |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 4.0 | 4.0 | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | | 5.2 | 3.7 | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 4.1 | 4.1 | X1 |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 4.2 | 4.2 | X1 |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 4.2 | 4.2 | X1 |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 4.0 | 4.0 | X1 |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 3.9 | 3.9 | X1 |
| | 1043 | 08/05/93 | 0001 | UG/KG | UJ | 19. | 19. | I |
| | 1043 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1044 | 08/05/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1044 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | X1 |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | X1 |
| | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | X1 |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | X1 |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| ENDRIN | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 19. | I |
| | 0999 | 07/21/93 | 0006 | UG/KG | J | 220. | 19. | X1 |
| | 1001 | 08/01/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1001 | 08/01/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | U | 4.0 | 4.0 | X1 |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 4.3 | 4.3 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| ENDRIN | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | U | 3.8 | 3.8 | I |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 4.2 | 4.2 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 3.8 | R1 |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| ENDRIN | 1034 | 08/06/93 | 0002 | UG/KG | U | 3.8 | 3.8 | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | U | 3.7 | 3.7 | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | U | 3.8 | 3.8 | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | U | 3.7 | 3.7 | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | U | 3.7 | 3.7 | I |
| | 1037 | 07/18/93 | 0001 | UG/KG | U | 3.9 | 3.9 | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 3.8 | 3.8 | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 4.0 | 4.0 | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 4.0 | 4.0 | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 4.1 | 4.1 | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 4.2 | 4.2 | I |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 4.2 | 4.2 | I |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 4.0 | 4.0 | I |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 3.9 | 3.9 | I |
| | 1043 | 08/05/93 | 0001 | UG/KG | UJ | 19. | 19. | I |
| | 1043 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1044 | 08/05/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1044 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| ENDRIN ALDEHYDE | 0999 | 07/21/93 | 0006 | UG/KG | UJ | 19. | 19. | I |
| | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 190. | D1 |
| | 1001 | 08/01/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1001 | 08/01/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 4.3 | 4.3 | I |
| | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| ENDRIN ALDEHYDE - | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | U | 3.8 | 3.8 | I |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 4.2 | 4.2 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 3.8 | R1 |
| | 1034 | 08/06/93 | 0002 | UG/KG | U | 3.8 | 3.8 | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | U | 3.7 | 3.7 | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | U | 3.8 | 3.8 | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | U | 3.7 | 3.7 | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | U | 3.7 | 3.7 | I |
| | 1037 | 07/18/93 | 0001 | UG/KG | U | 3.9 | 3.9 | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 3.8 | 3.8 | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 4.0 | 4.0 | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 4.0 | 4.0 | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 4.1 | 4.1 | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 4.0 | 4.0 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| ENDRIN ALDEHYDE - | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 4.2 | 4.2 | I |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 4.2 | 4.2 | I |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 4.0 | 4.0 | I |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 3.9 | 3.9 | I |
| | 1043 | 08/05/93 | 0001 | UG/KG | UJ | 19. | 19. | I |
| | 1043 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1044 | 08/05/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1044 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| ENDRIN KETONE | 0999 | 07/21/93 | 0006 | UG/KG | UJ | 19. | 19. | I |
| | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 190. | D1 |
| | 1001 | 08/01/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1001 | 08/01/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 4.3 | 4.3 | I |
| | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| ENDRIN KETONE | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 3.6 | 3.6 | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 3.4 | 3.4 | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 3.5 | 3.5 | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | U | 3.8 | 3.8 | I |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 4.2 | 4.2 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 3.8 | R1 |
| | 1034 | 08/06/93 | 0002 | UG/KG | U | 3.8 | 3.8 | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | U | 3.7 | 3.7 | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | U | 3.8 | 3.8 | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | U | 3.7 | 3.7 | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | U | 3.7 | 3.7 | I |
| | 1037 | 07/18/93 | 0001 | UG/KG | U | 3.9 | 3.9 | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 3.8 | 3.8 | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 4.0 | 4.0 | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 4.0 | 4.0 | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 4.1 | 4.1 | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 4.1 | 4.1 | I |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 4.2 | 4.2 | I |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 4.2 | 4.2 | I |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 4.0 | 4.0 | I |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 3.9 | 3.9 | I |
| | 1043 | 08/05/93 | 0001 | UG/KG | UJ | 19. | 19. | I |
| | 1043 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1044 | 08/05/93 | 0001 | UG/KG | UJ | 3.8 | 3.8 | I |
| | 1044 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 3.7 | 3.7 | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | U | 3.7 | 3.7 | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| ENDRIN KETONE | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 3.9 | 3.9 | I |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 4.0 | 4.0 | I |
| GAMMA CHLORDANE | 0999 | 07/21/93 | 0006 | UG/KG | UJ | 9.4 | 9.4 | I |
| | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 94. | D1 |
| | 1001 | 08/01/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1001 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1004 | 07/15/93 | 0002 | UG/KG | U | 1.9 | 1.9 | X1 |
| | 1005 | 07/16/93 | 0001 | UG/KG | U | 2.0 | 2.0 | X1 |
| | 1005 | 07/16/93 | 0002 | UG/KG | U | 2.0 | 2.0 | X1 |
| | 1005 | 07/16/93 | 1001 | UG/KG | U | 2.0 | 2.0 | X1 |
| | 1006 | 07/16/93 | 0001 | UG/KG | U | 2.1 | 2.1 | X1 |
| | 1006 | 07/16/93 | 0002 | UG/KG | U | 2.0 | 2.0 | X1 |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| GAMMA CHLORDANE | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 1.9 | R1 |
| | 1034 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | U | 1.8 | 1.8 | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1037 | 07/18/93 | 0001 | UG/KG | U | 1.9 | 1.9 | X1 |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 2.0 | 2.0 | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 2.1 | 2.1 | X1 |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 2.1 | 2.1 | X1 |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | X1 |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 2.0 | 2.0 | I |
| | 1043 | 08/05/93 | 0001 | UG/KG | UJ | 9.3 | 9.3 | I |
| | 1043 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1044 | 08/05/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1044 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| GAMMA-BHC (LINDANE) | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 9.4 | I |
| | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 94. | D1 |
| | 0999 | 07/21/93 | 0006 | UG/KG | J | 290. | 94. | X2 |
| | 1001 | 08/01/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1001 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| GAMMA-BHC (LINDANE) | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| GAMMA-BHC (LINDANE) | 1032 | 07/20/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 1.9 | R1 |
| | 1034 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | U | 1.8 | 1.8 | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1037 | 07/18/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 2.0 | 2.0 | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 2.1 | 2.1 | I |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 2.1 | 2.1 | I |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 2.0 | 2.0 | I |
| | 1043 | 08/05/93 | 0001 | UG/KG | UJ | 9.3 | 9.3 | I |
| | 1043 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1044 | 08/05/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1044 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| HEPTACHLOR | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 9.4 | I |
| | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 94. | D1 |
| | 0999 | 07/21/93 | 0006 | UG/KG | J | 280. | 94. | X2 |
| | 1001 | 08/01/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1001 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| HEPTACHLOR | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | U | 1.9 | 1.9 | X1 |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 1.9 | R1 |
| | 1034 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | U | 1.8 | 1.8 | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | U | 1.9 | 1.9 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| HEPTACHLOR | 1037 | 07/18/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 2.0 | 2.0 | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 2.1 | 2.1 | I |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 2.1 | 2.1 | I |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 2.0 | 2.0 | I |
| | 1043 | 08/05/93 | 0001 | UG/KG | UJ | 9.3 | 9.3 | I |
| | 1043 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1044 | 08/05/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1044 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| HEPTACHLOR EPOXIDE | 0999 | 07/21/93 | 0006 | UG/KG | UJ | 9.4 | 9.4 | I |
| | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 94. | D1 |
| | 1001 | 08/01/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1001 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | X1 |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| HEPTACHLOR EPOXIDE | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 1.8 | 1.8 | I |
| | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 1.7 | 1.7 | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | U | 1.9 | 1.9 | X1 |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 2.1 | 2.1 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 1.9 | R1 |
| | 1034 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | U | 1.8 | 1.8 | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1037 | 07/18/93 | 0001 | UG/KG | U | 1.9 | 1.9 | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 2.0 | 2.0 | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 2.1 | 2.1 | I |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 2.1 | 2.1 | I |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 2.0 | 2.0 | I |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 2.0 | 2.0 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| HEPTACHLOR EPOXIDE | 1043 | 08/05/93 | 0001 | UG/KG | UJ | 9.3 | 9.3 | I |
| | 1043 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1044 | 08/05/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1044 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 1.9 | 1.9 | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | U | 1.9 | 1.9 | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 2.0 | 2.0 | I |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 2.0 | 2.0 | I |
| METHOXYCHLOR | 0999 | 07/21/93 | 0006 | UG/KG | UJ | 94. | 94. | I |
| | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 940. | D1 |
| | 1001 | 08/01/93 | 0001 | UG/KG | J | 10. | 19. | X1 |
| | 1001 | 08/01/93 | 0002 | UG/KG | UJ | 18. | 18. | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | J | 50. | 19. | X1 |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 18. | 18. | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 20. | 20. | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 18. | 18. | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 19. | 19. | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | UJ | 20. | 20. | I |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 19. | 19. | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 20. | 20. | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 20. | 20. | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 20. | 20. | I |
| | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 21. | 21. | I |
| | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 20. | 20. | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 18. | 18. | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 17. | 17. | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 19. | 19. | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 19. | 19. | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 18. | 18. | I |
| | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 19. | 19. | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 19. | 19. | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 18. | 18. | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | J | 12. | 18. | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | J | 15. | 18. | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 19. | 19. | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 18. | 18. | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | J | 30. | 19. | I |
| | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 18. | 18. | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 17. | 17. | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 18. | 18. | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 18. | 18. | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 18. | 18. | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 18. | 18. | I |
| | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 18. | 18. | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 18. | 18. | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 18. | 18. | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 19. | 19. | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 19. | 19. | I |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 18. | 18. | I |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 19. | 19. | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 19. | 19. | I |
| | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 19. | 19. | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 19. | 19. | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 20. | 20. | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 18. | 18. | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 19. | 19. | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | UJ | 19. | 19. | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| METHOXYCHLOR | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 20. | 20. | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | J | 12. | 19. | X1 |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 18. | 18. | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | UJ | 19. | 19. | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 19. | 19. | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 19. | 19. | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 18. | 18. | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 19. | 19. | I |
| | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 18. | 18. | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 19. | 19. | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 18. | 18. | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 19. | 19. | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 18. | 18. | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 18. | 18. | I |
| | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 17. | 17. | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 17. | 17. | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 17. | 17. | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 17. | 17. | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 17. | 17. | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 19. | 19. | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 20. | 20. | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | J | 14. | 19. | X1 |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 21. | 21. | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 21. | 21. | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 20. | 20. | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 21. | 21. | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 19. | 19. | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 19. | R1 |
| | 1034 | 08/06/93 | 0002 | UG/KG | U | 19. | 19. | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | U | 19. | 19. | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | U | 19. | 19. | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | U | 19. | 19. | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | U | 18. | 18. | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | U | 19. | 19. | I |
| | 1037 | 07/18/93 | 0001 | UG/KG | U | 19. | 19. | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 19. | 19. | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 20. | 20. | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 20. | 20. | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 19. | 19. | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 20. | 20. | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 20. | 20. | I |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 20. | 20. | I |
| | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 20. | 20. | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 20. | 20. | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 21. | 21. | I |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 21. | 21. | I |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 20. | 20. | I |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 20. | 20. | I |
| | 1043 | 08/05/93 | 0001 | UG/KG | UJ | 93. | 93. | I |
| | 1043 | 08/06/93 | 0002 | UG/KG | U | 19. | 19. | I |
| | 1044 | 08/05/93 | 0001 | UG/KG | UJ | 19. | 19. | I |
| | 1044 | 08/06/93 | 0002 | UG/KG | U | 19. | 19. | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 19. | 19. | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | U | 19. | 19. | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 20. | 20. | I |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 20. | 20. | I |
| | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 20. | 20. | I |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 20. | 20. | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 20. | 20. | I |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 20. | 20. | I |
| TETRACHLORO-M-XYLENE | 1001 | 08/01/93 | 0001 | % RECOVERY | | NA | 0.0 | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| TETRACHLORO-M-XYLENE | 1001 | 08/01/93 | 0002 | % RECOVERY | | NA | 0.0 | I |
| | 1002 | 08/01/93 | 0001 | % RECOVERY | | NA | 0.0 | I |
| | 1002 | 08/01/93 | 0002 | % RECOVERY | | NA | 0.0 | I |
| | 1003 | 08/01/93 | 0001 | % RECOVERY | | NA | 0.0 | I |
| | 1003 | 08/01/93 | 0002 | % RECOVERY | | NA | 0.0 | I |
| | 1003 | 08/01/93 | 1001 | % RECOVERY | | NA | 0.0 | I |
| | 1007 | 08/02/93 | 0001 | % RECOVERY | | NA | 0.0 | I |
| | 1007 | 08/02/93 | 0002 | % RECOVERY | | NA | 0.0 | I |
| | 1008 | 08/02/93 | 0001 | % RECOVERY | | NA | 0.0 | I |
| | 1008 | 08/02/93 | 0002 | % RECOVERY | | NA | 0.0 | I |
| | 1009 | 08/02/93 | 0001 | % RECOVERY | | NA | 0.0 | I |
| | 1009 | 08/02/93 | 0002 | % RECOVERY | | NA | 0.0 | I |
| | 1009 | 08/02/93 | 1001 | % RECOVERY | | NA | 0.0 | I |
| | 1012 | 08/03/93 | 0001 | % RECOVERY | J | 58. | 0.0 | I |
| | 1012 | 08/03/93 | 0002 | % RECOVERY | J | 48. | 0.0 | I |
| | 1014 | 08/03/93 | 0001 | % RECOVERY | J | 53. | 0.0 | I |
| | 1014 | 08/03/93 | 0002 | % RECOVERY | J | 50. | 0.0 | I |
| | 1015 | 08/03/93 | 0001 | % RECOVERY | J | 53. | 0.0 | I |
| | 1015 | 08/03/93 | 0002 | % RECOVERY | J | 50. | 0.0 | I |
| | 1015 | 08/03/93 | 1001 | % RECOVERY | J | 48. | 0.0 | I |
| | 1028 | 08/05/93 | 0001 | % RECOVERY | J | 52. | 0.0 | I |
| | 1028 | 08/05/93 | 0002 | % RECOVERY | J | 58. | 0.0 | I |
| | 1028 | 08/05/93 | 1002 | % RECOVERY | J | 55. | 0.0 | I |
| | 1029 | 08/05/93 | 0001 | % RECOVERY | J | 55. | 0.0 | I |
| | 1029 | 08/05/93 | 0002 | % RECOVERY | J | 50. | 0.0 | I |
| | 1030 | 08/05/93 | 0001 | % RECOVERY | J | 50. | 0.0 | I |
| | 1030 | 08/05/93 | 0002 | % RECOVERY | J | 58. | 0.0 | I |
| | 1033 | 07/20/93 | 0002 | % RECOVERY | | NA | 0.0 | I |
| | 1034 | 08/06/93 | 0001 | % RECOVERY | | NA | 0.0 | I |
| | 1043 | 08/05/93 | 0001 | % RECOVERY | J | 65. | 0.0 | I |
| | 1044 | 08/05/93 | 0001 | % RECOVERY | J | 48. | 0.0 | I |
| | 1045 | 08/05/93 | 0001 | % RECOVERY | J | 55. | 0.0 | I |
| TOXAPHENE | 0999 | 07/21/93 | 0006 | UG/KG | UJ | 940. | 940. | I |
| | 0999 | 07/21/93 | 0006 | UG/KG | | NA | 9400. | D1 |
| | 1001 | 08/01/93 | 0001 | UG/KG | UJ | 190. | 190. | I |
| | 1001 | 08/01/93 | 0002 | UG/KG | UJ | 180. | 180. | I |
| | 1002 | 08/01/93 | 0001 | UG/KG | UJ | 190. | 190. | I |
| | 1002 | 08/01/93 | 0002 | UG/KG | UJ | 180. | 180. | I |
| | 1003 | 08/01/93 | 0001 | UG/KG | UJ | 200. | 200. | I |
| | 1003 | 08/01/93 | 0002 | UG/KG | UJ | 180. | 180. | I |
| | 1003 | 08/01/93 | 1001 | UG/KG | UJ | 190. | 190. | I |
| | 1004 | 07/15/93 | 0001 | UG/KG | UJ | 200. | 200. | I |
| | 1004 | 07/15/93 | 0002 | UG/KG | UJ | 190. | 190. | I |
| | 1005 | 07/16/93 | 0001 | UG/KG | UJ | 200. | 200. | I |
| | 1005 | 07/16/93 | 0002 | UG/KG | UJ | 200. | 200. | I |
| | 1005 | 07/16/93 | 1001 | UG/KG | UJ | 200. | 200. | I |
| | 1006 | 07/16/93 | 0001 | UG/KG | UJ | 210. | 210. | I |
| | 1006 | 07/16/93 | 0002 | UG/KG | UJ | 200. | 200. | I |
| | 1007 | 08/02/93 | 0001 | UG/KG | UJ | 180. | 180. | I |
| | 1007 | 08/02/93 | 0002 | UG/KG | UJ | 170. | 170. | I |
| | 1008 | 08/02/93 | 0001 | UG/KG | UJ | 190. | 190. | I |
| | 1008 | 08/02/93 | 0002 | UG/KG | UJ | 190. | 190. | I |
| | 1009 | 08/02/93 | 0001 | UG/KG | UJ | 180. | 180. | I |
| | 1009 | 08/02/93 | 0002 | UG/KG | UJ | 190. | 190. | I |
| | 1009 | 08/02/93 | 1001 | UG/KG | UJ | 190. | 190. | I |
| | 1010 | 08/03/93 | 0001 | UG/KG | UJ | 180. | 180. | I |
| | 1010 | 08/03/93 | 0002 | UG/KG | UJ | 180. | 180. | I |
| | 1011 | 08/03/93 | 0001 | UG/KG | UJ | 180. | 180. | I |
| | 1011 | 08/03/93 | 0002 | UG/KG | UJ | 190. | 190. | I |
| | 1012 | 08/03/93 | 0001 | UG/KG | UJ | 180. | 180. | I |
| | 1012 | 08/03/93 | 0002 | UG/KG | UJ | 190. | 190. | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| TOXAPHENE | 1013 | 08/03/93 | 0001 | UG/KG | UJ | 180. | 180. | I |
| | 1013 | 08/03/93 | 0002 | UG/KG | UJ | 170. | 170. | I |
| | 1014 | 08/03/93 | 0001 | UG/KG | UJ | 180. | 180. | I |
| | 1014 | 08/03/93 | 0002 | UG/KG | UJ | 180. | 180. | I |
| | 1015 | 08/03/93 | 0001 | UG/KG | UJ | 180. | 180. | I |
| | 1015 | 08/03/93 | 0002 | UG/KG | UJ | 180. | 180. | I |
| | 1015 | 08/03/93 | 1001 | UG/KG | UJ | 180. | 180. | I |
| | 1016 | 07/17/93 | 0001 | UG/KG | UJ | 180. | 180. | I |
| | 1016 | 07/17/93 | 0002 | UG/KG | UJ | 180. | 180. | I |
| | 1017 | 07/17/93 | 0001 | UG/KG | UJ | 190. | 190. | I |
| | 1017 | 07/17/93 | 0002 | UG/KG | UJ | 190. | 190. | I |
| | 1018 | 07/17/93 | 0001 | UG/KG | UJ | 180. | 180. | I |
| | 1018 | 07/17/93 | 0002 | UG/KG | UJ | 190. | 190. | I |
| | 1019 | 07/19/93 | 0001 | UG/KG | UJ | 190. | 190. | I |
| | 1019 | 07/19/93 | 0002 | UG/KG | UJ | 190. | 190. | I |
| | 1020 | 07/19/93 | 0001 | UG/KG | UJ | 190. | 190. | I |
| | 1020 | 07/19/93 | 0002 | UG/KG | UJ | 200. | 200. | I |
| | 1021 | 07/19/93 | 0001 | UG/KG | UJ | 180. | 180. | I |
| | 1021 | 07/19/93 | 0002 | UG/KG | UJ | 190. | 190. | I |
| | 1022 | 08/04/93 | 0001 | UG/KG | UJ | 190. | 190. | I |
| | 1022 | 08/04/93 | 0002 | UG/KG | UJ | 200. | 200. | I |
| | 1023 | 08/04/93 | 0001 | UG/KG | UJ | 190. | 190. | I |
| | 1023 | 08/04/93 | 0002 | UG/KG | UJ | 180. | 180. | I |
| | 1024 | 08/04/93 | 0001 | UG/KG | UJ | 190. | 190. | I |
| | 1024 | 08/04/93 | 0002 | UG/KG | UJ | 190. | 190. | I |
| | 1025 | 08/04/93 | 0001 | UG/KG | UJ | 190. | 190. | I |
| | 1025 | 08/04/93 | 0002 | UG/KG | UJ | 180. | 180. | I |
| | 1026 | 08/04/93 | 0001 | UG/KG | UJ | 190. | 190. | I |
| | 1026 | 08/04/93 | 0002 | UG/KG | UJ | 180. | 180. | I |
| | 1027 | 08/04/93 | 0001 | UG/KG | UJ | 190. | 190. | I |
| | 1027 | 08/04/93 | 0002 | UG/KG | UJ | 180. | 180. | I |
| | 1027 | 08/04/93 | 1001 | UG/KG | UJ | 190. | 190. | I |
| | 1028 | 08/05/93 | 0001 | UG/KG | UJ | 180. | 180. | I |
| | 1028 | 08/05/93 | 0002 | UG/KG | UJ | 180. | 180. | I |
| | 1028 | 08/05/93 | 1002 | UG/KG | UJ | 170. | 170. | I |
| | 1029 | 08/05/93 | 0001 | UG/KG | UJ | 170. | 170. | I |
| | 1029 | 08/05/93 | 0002 | UG/KG | UJ | 170. | 170. | I |
| | 1030 | 08/05/93 | 0001 | UG/KG | UJ | 170. | 170. | I |
| | 1030 | 08/05/93 | 0002 | UG/KG | UJ | 170. | 170. | I |
| | 1031 | 07/20/93 | 0001 | UG/KG | UJ | 190. | 190. | I |
| | 1031 | 07/20/93 | 0002 | UG/KG | UJ | 200. | 200. | I |
| | 1032 | 07/20/93 | 0001 | UG/KG | U | 190. | 190. | I |
| | 1032 | 07/20/93 | 0002 | UG/KG | UJ | 210. | 210. | I |
| | 1032 | 07/20/93 | 1002 | UG/KG | UJ | 210. | 210. | I |
| | 1033 | 07/20/93 | 0001 | UG/KG | UJ | 200. | 200. | I |
| | 1033 | 07/20/93 | 0002 | UG/KG | UJ | 210. | 210. | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | UJ | 190. | 190. | I |
| | 1034 | 08/06/93 | 0001 | UG/KG | | NA | 190. | R1 |
| | 1034 | 08/06/93 | 0002 | UG/KG | U | 190. | 190. | I |
| | 1035 | 08/06/93 | 0001 | UG/KG | U | 190. | 190. | I |
| | 1035 | 08/06/93 | 0002 | UG/KG | U | 190. | 190. | I |
| | 1036 | 08/06/93 | 0001 | UG/KG | U | 190. | 190. | I |
| | 1036 | 08/06/93 | 0002 | UG/KG | U | 180. | 180. | I |
| | 1036 | 08/06/93 | 1001 | UG/KG | U | 190. | 190. | I |
| | 1037 | 07/18/93 | 0001 | UG/KG | U | 190. | 190. | I |
| | 1037 | 07/18/93 | 0002 | UG/KG | U | 190. | 190. | I |
| | 1038 | 07/18/93 | 0001 | UG/KG | U | 200. | 200. | I |
| | 1038 | 07/18/93 | 0002 | UG/KG | U | 200. | 200. | I |
| | 1038 | 07/18/93 | 1002 | UG/KG | U | 190. | 190. | I |
| | 1039 | 07/18/93 | 0001 | UG/KG | U | 200. | 200. | I |
| | 1039 | 07/18/93 | 0002 | UG/KG | UJ | 200. | 200. | I |
| | 1040 | 07/18/93 | 0001 | UG/KG | UJ | 200. | 200. | I |

SOIL CHEMISTRY VALIDATED DATA
PESTICIDES/PCB'S
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| TOXAPHENE | 1040 | 07/18/93 | 0002 | UG/KG | UJ | 200. | 200. | I |
| | 1040 | 07/18/93 | 1001 | UG/KG | UJ | 200. | 200. | I |
| | 1041 | 07/18/93 | 0001 | UG/KG | U | 210. | 210. | I |
| | 1041 | 07/18/93 | 0002 | UG/KG | U | 210. | 210. | I |
| | 1042 | 07/18/93 | 0001 | UG/KG | U | 200. | 200. | I |
| | 1042 | 07/18/93 | 0002 | UG/KG | U | 200. | 200. | I |
| | 1043 | 08/05/93 | 0001 | UG/KG | UJ | 930. | 930. | I |
| | 1043 | 08/06/93 | 0002 | UG/KG | U | 190. | 190. | I |
| | 1044 | 08/05/93 | 0001 | UG/KG | UJ | 190. | 190. | I |
| | 1044 | 08/06/93 | 0002 | UG/KG | U | 190. | 190. | I |
| | 1045 | 08/05/93 | 0001 | UG/KG | UJ | 190. | 190. | I |
| | 1045 | 08/06/93 | 0002 | UG/KG | U | 190. | 190. | I |
| | 1046 | 07/14/93 | 0001 | UG/KG | UJ | 200. | 200. | I |
| | 1046 | 07/14/93 | 0002 | UG/KG | UJ | 200. | 200. | I |
| | 1047 | 07/14/93 | 0001 | UG/KG | UJ | 200. | 200. | I |
| | 1047 | 07/14/93 | 0002 | UG/KG | UJ | 200. | 200. | I |
| | 1048 | 07/14/93 | 0001 | UG/KG | UJ | 200. | 200. | I |
| | 1048 | 07/14/93 | 0002 | UG/KG | UJ | 200. | 200. | I |

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SOIL CHEMISTRY VALIDATED DATA
RADIONUCLIDES
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| AMERICIUM-241 | 1001 | 08/01/93 | 0001 | PCI/G | U | .12 | .12 | I |
| | 1001 | 08/01/93 | 0002 | PCI/G | U | .073 | .073 | I |
| | 1002 | 08/01/93 | 0001 | PCI/G | U | .088 | .088 | I |
| | 1002 | 08/01/93 | 0002 | PCI/G | U | .1 | .1 | I |
| | 1003 | 08/01/93 | 0001 | PCI/G | U | .083 | .083 | I |
| | 1003 | 08/01/93 | 0002 | PCI/G | U | .1 | .1 | I |
| | 1003 | 08/01/93 | 1001 | PCI/G | U | .1 | .1 | I |
| | 1004 | 07/15/93 | 0001 | PCI/G | U | .085 | .085 | I |
| | 1004 | 07/15/93 | 0002 | PCI/G | U | .089 | .089 | I |
| | 1005 | 07/16/93 | 0001 | PCI/G | U | .09 | .09 | I |
| | 1005 | 07/16/93 | 0002 | PCI/G | U | .092 | .092 | I |
| | 1005 | 07/16/93 | 1001 | PCI/G | U | .1 | .1 | I |
| | 1006 | 07/16/93 | 0001 | PCI/G | U | .088 | .088 | I |
| | 1006 | 07/16/93 | 0002 | PCI/G | U | .092 | .092 | I |
| | 1007 | 08/02/93 | 0001 | PCI/G | U | .09 | .09 | I |
| | 1007 | 08/02/93 | 0002 | PCI/G | U | .082 | .082 | I |
| | 1008 | 08/02/93 | 0001 | PCI/G | U | .069 | .069 | I |
| | 1008 | 08/02/93 | 0002 | PCI/G | U | .091 | .091 | I |
| | 1009 | 08/02/93 | 0001 | PCI/G | U | .078 | .078 | I |
| | 1009 | 08/02/93 | 0002 | PCI/G | U | .094 | .094 | I |
| | 1009 | 08/02/93 | 1001 | PCI/G | U | .11 | .11 | I |
| | 1009 | 08/02/93 | C002 | PCI/G | U | .092 | .092 | I |
| | 1010 | 08/03/93 | 0001 | PCI/G | U | .089 | .089 | I |
| | 1010 | 08/03/93 | 0002 | PCI/G | U | .09 | .09 | I |
| | 1011 | 08/03/93 | 0001 | PCI/G | U | .082 | .082 | I |
| | 1011 | 08/03/93 | 0002 | PCI/G | U | .1 | .1 | I |
| | 1012 | 08/03/93 | 0001 | PCI/G | U | .079 | .079 | I |
| | 1012 | 08/03/93 | 0002 | PCI/G | U | .095 | .095 | I |
| | 1013 | 08/03/93 | 0001 | PCI/G | U | .09 | .09 | I |
| | 1013 | 08/03/93 | 0002 | PCI/G | U | .072 | .072 | I |
| | 1014 | 08/03/93 | 0001 | PCI/G | U | .077 | .077 | I |
| | 1014 | 08/03/93 | 0002 | PCI/G | U | .071 | .071 | I |
| | 1015 | 08/03/93 | 0001 | PCI/G | U | .066 | .066 | I |
| | 1015 | 08/03/93 | 0002 | PCI/G | U | .085 | .085 | I |
| | 1015 | 08/03/93 | 1001 | PCI/G | U | .098 | .098 | I |
| | 1016 | 07/17/93 | 0001 | PCI/G | U | .075 | .075 | I |
| | 1016 | 07/17/93 | 0002 | PCI/G | U | .069 | .069 | I |
| | 1017 | 07/17/93 | 0001 | PCI/G | U | .064 | .064 | I |
| | 1017 | 07/17/93 | 0002 | PCI/G | U | .077 | .077 | I |
| | 1018 | 07/17/93 | 0001 | PCI/G | U | .079 | .079 | I |
| | 1018 | 07/17/93 | 0002 | PCI/G | U | .08 | .08 | I |
| | 1019 | 07/19/93 | 0001 | PCI/G | U | .089 | .089 | I |
| | 1019 | 07/19/93 | 0002 | PCI/G | U | .099 | .099 | I |
| | 1020 | 07/19/93 | 0001 | PCI/G | U | .078 | .078 | I |
| | 1020 | 07/19/93 | 0002 | PCI/G | U | .099 | .099 | I |
| | 1021 | 07/19/93 | 0001 | PCI/G | U | .094 | .094 | I |
| | 1021 | 07/19/93 | 0002 | PCI/G | U | .092 | .092 | I |
| | 1022 | 08/04/93 | 0001 | PCI/G | U | .085 | .085 | I |
| | 1022 | 08/04/93 | 0002 | PCI/G | U | .075 | .075 | I |
| | 1023 | 08/04/93 | 0001 | PCI/G | U | .085 | .085 | I |
| | 1023 | 08/04/93 | 0002 | PCI/G | U | .079 | .079 | I |
| | 1024 | 08/04/93 | 0001 | PCI/G | U | .09 | .09 | I |
| | 1024 | 08/04/93 | 0002 | PCI/G | U | .09 | .09 | I |
| | 1025 | 08/04/93 | 0001 | PCI/G | U | .085 | .085 | I |
| | 1025 | 08/04/93 | 0002 | PCI/G | U | .096 | .096 | I |
| | 1026 | 08/04/93 | 0001 | PCI/G | U | .097 | .097 | I |
| | 1026 | 08/04/93 | 0002 | PCI/G | U | .08 | .08 | I |
| | 1026 | 08/04/93 | C001 | PCI/G | U | .088 | .088 | I |
| | 1027 | 08/04/93 | 0001 | PCI/G | U | .1 | .1 | I |
| | 1027 | 08/04/93 | 0002 | PCI/G | U | .096 | .096 | I |
| | 1027 | 08/04/93 | 1001 | PCI/G | U | .086 | .086 | I |
| | 1028 | 08/05/93 | 0001 | PCI/G | U | .09 | .09 | I |

SOIL CHEMISTRY VALIDATED DATA
RADIONUCLIDES
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| AMERICIUM-241 | 1028 | 08/05/93 | 0002 | PCI/G | U | .086 | .086 | I |
| | 1028 | 08/05/93 | 1002 | PCI/G | U | .083 | .083 | I |
| | 1029 | 08/05/93 | 0001 | PCI/G | U | .09 | .09 | I |
| | 1029 | 08/05/93 | 0002 | PCI/G | U | .093 | .093 | I |
| | 1030 | 08/05/93 | 0001 | PCI/G | U | .091 | .091 | I |
| | 1030 | 08/05/93 | 0002 | PCI/G | U | .093 | .093 | I |
| | 1031 | 07/20/93 | 0001 | PCI/G | U | .088 | .088 | I |
| | 1031 | 07/20/93 | 0002 | PCI/G | U | .086 | .086 | I |
| | 1032 | 07/20/93 | 0001 | PCI/G | U | .081 | .081 | I |
| | 1032 | 07/20/93 | 0002 | PCI/G | U | .083 | .083 | I |
| | 1032 | 07/20/93 | 1002 | PCI/G | U | .086 | .086 | I |
| | 1032 | 07/20/93 | C002 | PCI/G | U | .1 | .1 | I |
| | 1033 | 07/20/93 | 0001 | PCI/G | U | .089 | .089 | I |
| | 1033 | 07/20/93 | 0002 | PCI/G | U | .095 | .095 | I |
| | 1034 | 08/06/93 | 0001 | PCI/G | U | .093 | .093 | I |
| | 1034 | 08/06/93 | 0002 | PCI/G | U | .098 | .098 | I |
| | 1035 | 08/06/93 | 0001 | PCI/G | U | .088 | .088 | I |
| | 1035 | 08/06/93 | 0002 | PCI/G | U | .097 | .097 | I |
| | 1035 | 08/06/93 | C001 | PCI/G | U | .079 | .079 | I |
| | 1036 | 08/06/93 | 0001 | PCI/G | U | .087 | .087 | I |
| | 1036 | 08/06/93 | 0002 | PCI/G | U | .11 | .11 | I |
| | 1036 | 08/06/93 | 1001 | PCI/G | U | .087 | .087 | I |
| | 1037 | 07/18/93 | 0001 | PCI/G | U | .08 | .08 | I |
| | 1037 | 07/18/93 | 0002 | PCI/G | U | .092 | .092 | I |
| | 1038 | 07/18/93 | 0001 | PCI/G | U | .087 | .087 | I |
| | 1038 | 07/18/93 | 0002 | PCI/G | U | .1 | .1 | I |
| | 1038 | 07/18/93 | 1002 | PCI/G | U | .084 | .084 | I |
| | 1039 | 07/18/93 | 0001 | PCI/G | U | .075 | .075 | I |
| | 1039 | 07/18/93 | 0002 | PCI/G | U | .097 | .097 | I |
| | 1040 | 07/18/93 | 0001 | PCI/G | U | .09 | .09 | I |
| | 1040 | 07/18/93 | 0002 | PCI/G | U | .1 | .1 | I |
| | 1040 | 07/18/93 | 1001 | PCI/G | U | .1 | .1 | I |
| | 1040 | 07/18/93 | C001 | PCI/G | U | .088 | .088 | I |
| | 1041 | 07/18/93 | 0001 | PCI/G | U | .09 | .09 | I |
| | 1041 | 07/18/93 | 0002 | PCI/G | U | .096 | .096 | I |
| | 1042 | 07/18/93 | 0001 | PCI/G | U | .076 | .076 | I |
| | 1042 | 07/18/93 | 0002 | PCI/G | U | .097 | .097 | I |
| | 1043 | 08/05/93 | 0001 | PCI/G | U | .12 | .12 | I |
| | 1043 | 08/06/93 | 0002 | PCI/G | U | .083 | .083 | I |
| | 1044 | 08/05/93 | 0001 | PCI/G | U | .1 | .1 | I |
| | 1044 | 08/06/93 | 0002 | PCI/G | U | .11 | .11 | I |
| | 1045 | 08/05/93 | 0001 | PCI/G | U | .11 | .11 | I |
| | 1045 | 08/06/93 | 0002 | PCI/G | U | .083 | .083 | I |
| | 1046 | 07/14/93 | 0001 | PCI/G | U | .086 | .086 | I |
| | 1046 | 07/14/93 | 0002 | PCI/G | U | .087 | .087 | I |
| | 1047 | 07/14/93 | 0001 | PCI/G | U | .085 | .085 | I |
| | 1047 | 07/14/93 | 0002 | PCI/G | U | .081 | .081 | I |
| | 1048 | 07/14/93 | 0001 | PCI/G | U | .088 | .088 | I |
| | 1048 | 07/14/93 | 0002 | PCI/G | U | .087 | .087 | I |
| BISMUTH-207 | 1001 | 08/01/93 | 0001 | PCI/G | U | .064 | .064 | I |
| | 1001 | 08/01/93 | 0002 | PCI/G | U | .057 | .057 | I |
| | 1002 | 08/01/93 | 0001 | PCI/G | U | .079 | .079 | I |
| | 1002 | 08/01/93 | 0002 | PCI/G | U | .074 | .074 | I |
| | 1003 | 08/01/93 | 0001 | PCI/G | U | .058 | .058 | I |
| | 1003 | 08/01/93 | 0002 | PCI/G | U | .074 | .074 | I |
| | 1003 | 08/01/93 | 1001 | PCI/G | U | .073 | .073 | I |
| | 1004 | 07/15/93 | 0001 | PCI/G | U | .061 | .061 | I |
| | 1004 | 07/15/93 | 0002 | PCI/G | U | .073 | .073 | I |
| | 1005 | 07/16/93 | 0001 | PCI/G | U | .061 | .61 | I |
| | 1005 | 07/16/93 | 0002 | PCI/G | U | .078 | .078 | I |
| | 1005 | 07/16/93 | 1001 | PCI/G | U | .087 | .087 | I |

SOIL CHEMISTRY VALIDATED DATA
RADIONUCLIDES
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| BISMUTH-207 | 1006 | 07/16/93 | 0001 | PCI/G | U | .07 | .07 | I |
| | 1006 | 07/16/93 | 0002 | PCI/G | U | .071 | .071 | I |
| | 1007 | 08/02/93 | 0001 | PCI/G | U | .07 | .07 | I |
| | 1007 | 08/02/93 | 0002 | PCI/G | U | .065 | .065 | I |
| | 1008 | 08/02/93 | 0001 | PCI/G | U | .062 | .062 | I |
| | 1008 | 08/02/93 | 0002 | PCI/G | U | .056 | .056 | I |
| | 1009 | 08/02/93 | 0001 | PCI/G | U | .056 | .056 | I |
| | 1009 | 08/02/93 | 0002 | PCI/G | U | .079 | .079 | I |
| | 1009 | 08/02/93 | 1001 | PCI/G | U | .078 | .078 | I |
| | 1009 | 08/02/93 | C002 | PCI/G | U | .066 | .066 | I |
| | 1010 | 08/03/93 | 0001 | PCI/G | U | .07 | .07 | I |
| | 1010 | 08/03/93 | 0002 | PCI/G | U | .068 | .068 | I |
| | 1011 | 08/03/93 | 0001 | PCI/G | U | .066 | .066 | I |
| | 1011 | 08/03/93 | 0002 | PCI/G | U | .067 | .067 | I |
| | 1012 | 08/03/93 | 0001 | PCI/G | U | .063 | .063 | I |
| | 1012 | 08/03/93 | 0002 | PCI/G | U | .073 | .073 | I |
| | 1013 | 08/03/93 | 0001 | PCI/G | U | .079 | .079 | I |
| | 1013 | 08/03/93 | 0002 | PCI/G | U | .064 | .064 | I |
| | 1014 | 08/03/93 | 0001 | PCI/G | U | .064 | .064 | I |
| | 1014 | 08/03/93 | 0002 | PCI/G | U | .055 | .055 | I |
| | 1015 | 08/03/93 | 0001 | PCI/G | U | .058 | .058 | I |
| | 1015 | 08/03/93 | 0002 | PCI/G | U | .063 | .063 | I |
| | 1015 | 08/03/93 | 1001 | PCI/G | U | .11 | .11 | I |
| | 1016 | 07/17/93 | 0001 | PCI/G | U | .061 | .061 | I |
| | 1016 | 07/17/93 | 0002 | PCI/G | U | .047 | .047 | I |
| | 1017 | 07/17/93 | 0001 | PCI/G | U | .059 | .059 | I |
| | 1017 | 07/17/93 | 0002 | PCI/G | U | .076 | .076 | I |
| | 1018 | 07/17/93 | 0001 | PCI/G | U | .054 | .054 | I |
| | 1018 | 07/17/93 | 0002 | PCI/G | U | .053 | .053 | I |
| | 1019 | 07/19/93 | 0001 | PCI/G | U | .071 | .071 | I |
| | 1019 | 07/19/93 | 0002 | PCI/G | U | .088 | .088 | I |
| | 1020 | 07/19/93 | 0001 | PCI/G | U | .059 | .059 | I |
| | 1020 | 07/19/93 | 0002 | PCI/G | U | .078 | .078 | I |
| | 1021 | 07/19/93 | 0001 | PCI/G | U | .075 | .075 | I |
| | 1021 | 07/19/93 | 0002 | PCI/G | U | .064 | .064 | I |
| | 1022 | 08/04/93 | 0001 | PCI/G | U | .088 | .088 | I |
| | 1022 | 08/04/93 | 0002 | PCI/G | U | .057 | .057 | I |
| | 1023 | 08/04/93 | 0001 | PCI/G | U | .065 | .065 | I |
| | 1023 | 08/04/93 | 0002 | PCI/G | U | .074 | .074 | I |
| | 1024 | 08/04/93 | 0001 | PCI/G | U | .083 | .083 | I |
| | 1024 | 08/04/93 | 0002 | PCI/G | U | .08 | .08 | I |
| | 1025 | 08/04/93 | 0001 | PCI/G | U | .079 | .079 | I |
| | 1025 | 08/04/93 | 0002 | PCI/G | U | .084 | .084 | I |
| | 1026 | 08/04/93 | 0001 | PCI/G | U | .074 | .074 | I |
| | 1026 | 08/04/93 | 0002 | PCI/G | U | .075 | .075 | I |
| | 1026 | 08/04/93 | C001 | PCI/G | U | .088 | .088 | I |
| | 1027 | 08/04/93 | 0001 | PCI/G | U | .066 | .066 | I |
| | 1027 | 08/04/93 | 0002 | PCI/G | U | .08 | .08 | I |
| | 1027 | 08/04/93 | 1001 | PCI/G | U | .071 | .071 | I |
| | 1028 | 08/05/93 | 0001 | PCI/G | U | .068 | .068 | I |
| | 1028 | 08/05/93 | 0002 | PCI/G | U | .066 | .066 | I |
| | 1028 | 08/05/93 | 1002 | PCI/G | U | .069 | .069 | I |
| | 1029 | 08/05/93 | 0001 | PCI/G | U | .066 | .066 | I |
| | 1029 | 08/05/93 | 0002 | PCI/G | U | .094 | .094 | I |
| | 1030 | 08/05/93 | 0001 | PCI/G | U | .07 | .07 | I |
| | 1030 | 08/05/93 | 0002 | PCI/G | U | .091 | .091 | I |
| | 1031 | 07/20/93 | 0001 | PCI/G | U | .066 | .066 | I |
| | 1031 | 07/20/93 | 0002 | PCI/G | U | .06 | .06 | I |
| | 1032 | 07/20/93 | 0001 | PCI/G | U | .056 | .056 | I |
| | 1032 | 07/20/93 | 0002 | PCI/G | U | .062 | .062 | I |
| | 1032 | 07/20/93 | 1002 | PCI/G | U | .078 | .078 | I |
| | 1032 | 07/20/93 | C002 | PCI/G | U | .075 | .075 | I |

SOIL CHEMISTRY VALIDATED DATA
RADIONUCLIDES
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| BISMUTH-207 | 1033 | 07/20/93 | 0001 | PCI/G | U | .079 | .079 | I |
| | 1033 | 07/20/93 | 0002 | PCI/G | U | .076 | .076 | I |
| | 1034 | 08/06/93 | 0001 | PCI/G | U | .073 | .073 | I |
| | 1034 | 08/06/93 | 0002 | PCI/G | U | .077 | .077 | I |
| | 1035 | 08/06/93 | 0001 | PCI/G | U | .059 | .059 | I |
| | 1035 | 08/06/93 | 0002 | PCI/G | U | .063 | .063 | I |
| | 1035 | 08/06/93 | C001 | PCI/G | U | .06 | .06 | I |
| | 1036 | 08/06/93 | 0001 | PCI/G | U | .07 | .07 | I |
| | 1036 | 08/06/93 | 0002 | PCI/G | U | .085 | .085 | I |
| | 1036 | 08/06/93 | 1001 | PCI/G | U | .065 | .065 | I |
| | 1037 | 07/18/93 | 0001 | PCI/G | U | .059 | .059 | I |
| | 1037 | 07/18/93 | 0002 | PCI/G | U | .076 | .076 | I |
| | 1038 | 07/18/93 | 0001 | PCI/G | U | .076 | .076 | I |
| | 1038 | 07/18/93 | 0002 | PCI/G | U | .077 | .077 | I |
| | 1038 | 07/18/93 | 1002 | PCI/G | U | .075 | .075 | I |
| | 1039 | 07/18/93 | 0001 | PCI/G | U | .07 | .07 | I |
| | 1039 | 07/18/93 | 0002 | PCI/G | U | .076 | .076 | I |
| | 1040 | 07/18/93 | 0001 | PCI/G | U | .065 | .065 | I |
| | 1040 | 07/18/93 | 0002 | PCI/G | U | .078 | .078 | I |
| | 1040 | 07/18/93 | 1001 | PCI/G | U | .068 | .068 | I |
| | 1040 | 07/18/93 | C001 | PCI/G | U | .075 | .075 | I |
| | 1041 | 07/18/93 | 0001 | PCI/G | U | .068 | .068 | I |
| | 1041 | 07/18/93 | 0002 | PCI/G | U | .074 | .074 | I |
| | 1042 | 07/18/93 | 0001 | PCI/G | U | .049 | .049 | I |
| | 1042 | 07/18/93 | 0002 | PCI/G | U | .062 | .062 | I |
| | 1043 | 08/05/93 | 0001 | PCI/G | U | .1 | .1 | I |
| | 1043 | 08/06/93 | 0002 | PCI/G | U | .065 | .065 | I |
| | 1044 | 08/05/93 | 0001 | PCI/G | U | .072 | .072 | I |
| | 1044 | 08/06/93 | 0002 | PCI/G | U | .084 | .084 | I |
| | 1045 | 08/05/93 | 0001 | PCI/G | U | .096 | .096 | I |
| | 1045 | 08/06/93 | 0002 | PCI/G | U | .079 | .079 | I |
| | 1046 | 07/14/93 | 0001 | PCI/G | U | .081 | .081 | I |
| | 1046 | 07/14/93 | 0002 | PCI/G | U | .065 | .065 | I |
| | 1047 | 07/14/93 | 0001 | PCI/G | U | .071 | .071 | I |
| | 1047 | 07/14/93 | 0002 | PCI/G | U | .063 | .063 | I |
| | 1048 | 07/14/93 | 0001 | PCI/G | U | .071 | .071 | I |
| | 1048 | 07/14/93 | 0002 | PCI/G | U | .072 | .072 | I |
| BISMUTH-210 | 1001 | 08/01/93 | 0001 | PCI/G | U | .095 | .095 | I |
| | 1001 | 08/01/93 | 0002 | PCI/G | U | .075 | .075 | I |
| | 1002 | 08/01/93 | 0001 | PCI/G | U | .087 | .087 | I |
| | 1002 | 08/01/93 | 0002 | PCI/G | U | .097 | .097 | I |
| | 1003 | 08/01/93 | 0001 | PCI/G | U | .078 | .078 | I |
| | 1003 | 08/01/93 | 0002 | PCI/G | U | .11 | .11 | I |
| | 1003 | 08/01/93 | 1001 | PCI/G | U | .092 | .092 | I |
| | 1004 | 07/15/93 | 0001 | PCI/G | U | .08 | .08 | I |
| | 1004 | 07/15/93 | 0002 | PCI/G | U | .089 | .089 | I |
| | 1005 | 07/16/93 | 0001 | PCI/G | U | .088 | .088 | I |
| | 1005 | 07/16/93 | 0002 | PCI/G | U | .11 | .11 | I |
| | 1005 | 07/16/93 | 1001 | PCI/G | U | .09 | .09 | I |
| | 1006 | 07/16/93 | 0001 | PCI/G | U | .086 | .086 | I |
| | 1006 | 07/16/93 | 0002 | PCI/G | U | .089 | .089 | I |
| | 1007 | 08/02/93 | 0001 | PCI/G | U | .084 | .084 | I |
| | 1007 | 08/02/93 | 0002 | PCI/G | U | .081 | .081 | I |
| | 1008 | 08/02/93 | 0001 | PCI/G | U | .084 | .084 | I |
| | 1008 | 08/02/93 | 0002 | PCI/G | U | .082 | .082 | I |
| | 1009 | 08/02/93 | 0001 | PCI/G | U | .079 | .079 | I |
| | 1009 | 08/02/93 | 0002 | PCI/G | U | .099 | .099 | I |
| | 1009 | 08/02/93 | 1001 | PCI/G | U | .095 | .095 | I |
| | 1009 | 08/02/93 | C002 | PCI/G | U | .083 | .083 | I |
| | 1010 | 08/03/93 | 0001 | PCI/G | U | .09 | .09 | I |
| | 1010 | 08/03/93 | 0002 | PCI/G | U | .078 | .078 | I |

SOIL CHEMISTRY VALIDATED DATA
RADIONUCLIDES
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| BISMUTH-210 | 1011 | 08/03/93 | 0001 | PCI/G | U | .072 | .072 | I |
| | 1011 | 08/03/93 | 0002 | PCI/G | U | .086 | .086 | I |
| | 1012 | 08/03/93 | 0001 | PCI/G | U | .07 | .07 | I |
| | 1012 | 08/03/93 | 0002 | PCI/G | U | .084 | .084 | I |
| | 1013 | 08/03/93 | 0001 | PCI/G | U | .077 | .077 | I |
| | 1013 | 08/03/93 | 0002 | PCI/G | U | .077 | .077 | I |
| | 1014 | 08/03/93 | 0001 | PCI/G | U | .072 | .072 | I |
| | 1014 | 08/03/93 | 0002 | PCI/G | U | .066 | .066 | I |
| | 1015 | 08/03/93 | 0001 | PCI/G | U | .06 | .06 | I |
| | 1015 | 08/03/93 | 0002 | PCI/G | U | .068 | .068 | I |
| | 1015 | 08/03/93 | 1001 | PCI/G | U | .089 | .089 | I |
| | 1016 | 07/17/93 | 0001 | PCI/G | U | .073 | .073 | I |
| | 1016 | 07/17/93 | 0002 | PCI/G | U | .074 | .074 | I |
| | 1017 | 07/17/93 | 0001 | PCI/G | U | .079 | .079 | I |
| | 1017 | 07/17/93 | 0002 | PCI/G | U | .096 | .096 | I |
| | 1018 | 07/17/93 | 0001 | PCI/G | U | .072 | .072 | I |
| | 1018 | 07/17/93 | 0002 | PCI/G | U | .062 | .062 | I |
| | 1019 | 07/19/93 | 0001 | PCI/G | U | .084 | .084 | I |
| | 1019 | 07/19/93 | 0002 | PCI/G | U | .1 | .1 | I |
| | 1020 | 07/19/93 | 0001 | PCI/G | U | .077 | .077 | I |
| | 1020 | 07/19/93 | 0002 | PCI/G | U | .11 | .11 | I |
| | 1021 | 07/19/93 | 0001 | PCI/G | U | .094 | .094 | I |
| | 1021 | 07/19/93 | 0002 | PCI/G | U | .095 | .095 | I |
| | 1022 | 08/04/93 | 0001 | PCI/G | U | .078 | .078 | I |
| | 1022 | 08/04/93 | 0002 | PCI/G | U | .061 | .061 | I |
| | 1023 | 08/04/93 | 0001 | PCI/G | U | .075 | .066 | I |
| | 1023 | 08/04/93 | 0002 | PCI/G | U | .079 | .079 | I |
| | 1024 | 08/04/93 | 0001 | PCI/G | U | .089 | .089 | I |
| | 1024 | 08/04/93 | 0002 | PCI/G | U | .082 | .082 | I |
| | 1025 | 08/04/93 | 0001 | PCI/G | U | .075 | .075 | I |
| | 1025 | 08/04/93 | 0002 | PCI/G | U | .097 | .097 | I |
| | 1026 | 08/04/93 | 0001 | PCI/G | U | .079 | .079 | I |
| | 1026 | 08/04/93 | 0002 | PCI/G | U | .084 | .084 | I |
| | 1026 | 08/04/93 | C001 | PCI/G | U | .092 | .092 | I |
| | 1027 | 08/04/93 | 0001 | PCI/G | U | .078 | .078 | I |
| | 1027 | 08/04/93 | 0002 | PCI/G | U | .091 | .091 | I |
| | 1027 | 08/04/93 | 1001 | PCI/G | U | .077 | .077 | I |
| | 1028 | 08/05/93 | 0001 | PCI/G | U | .079 | .079 | I |
| | 1028 | 08/05/93 | 0002 | PCI/G | U | .07 | .07 | I |
| | 1028 | 08/05/93 | 1002 | PCI/G | U | .081 | .081 | I |
| | 1029 | 08/05/93 | 0001 | PCI/G | U | .084 | .084 | I |
| | 1029 | 08/05/93 | 0002 | PCI/G | U | .1 | .1 | I |
| | 1030 | 08/05/93 | 0001 | PCI/G | U | .078 | .078 | I |
| | 1030 | 08/05/93 | 0002 | PCI/G | U | .094 | .094 | I |
| | 1031 | 07/20/93 | 0001 | PCI/G | U | .088 | .088 | I |
| | 1031 | 07/20/93 | 0002 | PCI/G | U | .081 | .081 | I |
| | 1032 | 07/20/93 | 0001 | PCI/G | U | .078 | .078 | I |
| | 1032 | 07/20/93 | 0002 | PCI/G | U | .086 | .086 | I |
| | 1032 | 07/20/93 | 1002 | PCI/G | U | .087 | .087 | I |
| | 1032 | 07/20/93 | C002 | PCI/G | U | .088 | .088 | I |
| | 1033 | 07/20/93 | 0001 | PCI/G | U | .092 | .092 | I |
| | 1033 | 07/20/93 | 0002 | PCI/G | U | .097 | .097 | I |
| | 1034 | 08/06/93 | 0001 | PCI/G | U | .083 | .083 | I |
| | 1034 | 08/06/93 | 0002 | PCI/G | U | .083 | .083 | I |
| | 1035 | 08/06/93 | 0001 | PCI/G | U | .07 | .07 | I |
| | 1035 | 08/06/93 | 0002 | PCI/G | U | .077 | .077 | I |
| | 1035 | 08/06/93 | C001 | PCI/G | U | .071 | .071 | I |
| | 1036 | 08/06/93 | 0001 | PCI/G | U | .068 | .068 | I |
| | 1036 | 08/06/93 | 0002 | PCI/G | U | .09 | .09 | I |
| | 1036 | 08/06/93 | 1001 | PCI/G | U | .074 | .074 | I |
| | 1037 | 07/18/93 | 0001 | PCI/G | U | .074 | .074 | I |
| | 1037 | 07/18/93 | 0002 | PCI/G | U | .091 | .091 | I |

SOIL CHEMISTRY VALIDATED DATA
RADIONUCLIDES
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| BISMUTH-210 | 1038 | 07/18/93 | 0001 | PCI/G | U | .098 | .098 | I |
| | 1038 | 07/18/93 | 0002 | PCI/G | U | .097 | .097 | I |
| | 1038 | 07/18/93 | 1002 | PCI/G | U | .097 | .097 | I |
| | 1039 | 07/18/93 | 0001 | PCI/G | U | .093 | .093 | I |
| | 1039 | 07/18/93 | 0002 | PCI/G | U | .091 | .091 | I |
| | 1040 | 07/18/93 | 0001 | PCI/G | U | .085 | .085 | I |
| | 1040 | 07/18/93 | 0002 | PCI/G | U | .099 | .099 | I |
| | 1040 | 07/18/93 | 1001 | PCI/G | U | .1 | .1 | I |
| | 1040 | 07/18/93 | C001 | PCI/G | U | .097 | .097 | I |
| | 1041 | 07/18/93 | 0001 | PCI/G | U | .087 | .087 | I |
| | 1041 | 07/18/93 | 0002 | PCI/G | U | .1 | .1 | I |
| | 1042 | 07/18/93 | 0001 | PCI/G | U | .083 | .083 | I |
| | 1042 | 07/18/93 | 0002 | PCI/G | U | .087 | .087 | I |
| | 1043 | 08/05/93 | 0001 | PCI/G | U | .11 | .11 | I |
| | 1043 | 08/06/93 | 0002 | PCI/G | U | .074 | .074 | I |
| | 1044 | 08/05/93 | 0001 | PCI/G | U | .084 | .084 | I |
| | 1044 | 08/06/93 | 0002 | PCI/G | U | .098 | .098 | I |
| | 1045 | 08/05/93 | 0001 | PCI/G | U | .098 | .098 | I |
| | 1045 | 08/06/93 | 0002 | PCI/G | U | .088 | .088 | I |
| | 1046 | 07/14/93 | 0001 | PCI/G | U | .096 | .096 | I |
| | 1046 | 07/14/93 | 0002 | PCI/G | U | .097 | .097 | I |
| | 1047 | 07/14/93 | 0001 | PCI/G | U | .084 | .084 | I |
| | 1047 | 07/14/93 | 0002 | PCI/G | U | .078 | .078 | I |
| | 1048 | 07/14/93 | 0001 | PCI/G | U | .091 | .091 | I |
| | 1048 | 07/14/93 | 0002 | PCI/G | U | .085 | .085 | I |
| CESIUM-137 | 1001 | 08/01/93 | 0001 | PCI/G | | .388 | .095 | I |
| | 1001 | 08/01/93 | 0002 | PCI/G | U | .084 | .084 | I |
| | 1002 | 08/01/93 | 0001 | PCI/G | | .325 | .118 | I |
| | 1002 | 08/01/93 | 0002 | PCI/G | U | .097 | .097 | I |
| | 1003 | 08/01/93 | 0001 | PCI/G | U | .065 | .065 | I |
| | 1003 | 08/01/93 | 0002 | PCI/G | U | .095 | .095 | I |
| | 1003 | 08/01/93 | 1001 | PCI/G | | .257 | .114 | I |
| | 1004 | 07/15/93 | 0001 | PCI/G | | .451 | .078 | I |
| | 1004 | 07/15/93 | 0002 | PCI/G | U | .1 | .1 | I |
| | 1005 | 07/16/93 | 0001 | PCI/G | | .475 | .092 | I |
| | 1005 | 07/16/93 | 0002 | PCI/G | U | .12 | .12 | I |
| | 1005 | 07/16/93 | 1001 | PCI/G | | .428 | .11 | I |
| | 1006 | 07/16/93 | 0001 | PCI/G | | .377 | .087 | I |
| | 1006 | 07/16/93 | 0002 | PCI/G | U | .095 | .95 | I |
| | 1007 | 08/02/93 | 0001 | PCI/G | | .475 | .086 | I |
| | 1007 | 08/02/93 | 0002 | PCI/G | | .153 | .101 | I |
| | 1008 | 08/02/93 | 0001 | PCI/G | | .542 | .101 | I |
| | 1008 | 08/02/93 | 0002 | PCI/G | | .088 | .087 | I |
| | 1009 | 08/02/93 | 0001 | PCI/G | | .52 | .083 | I |
| | 1009 | 08/02/93 | 0002 | PCI/G | | .141 | .128 | I |
| | 1009 | 08/02/93 | 1001 | PCI/G | | .416 | .124 | I |
| | 1009 | 08/02/93 | C002 | PCI/G | | .106 | .1 | I |
| | 1010 | 08/03/93 | 0001 | PCI/G | | .29 | .11 | I |
| | 1010 | 08/03/93 | 0002 | PCI/G | U | .11 | .11 | I |
| | 1011 | 08/03/93 | 0001 | PCI/G | | .273 | .11 | I |
| | 1011 | 08/03/93 | 0002 | PCI/G | U | .1 | .1 | I |
| | 1012 | 08/03/93 | 0001 | PCI/G | | .406 | .1 | I |
| | 1012 | 08/03/93 | 0002 | PCI/G | U | .1 | .1 | I |
| | 1013 | 08/03/93 | 0001 | PCI/G | | .494 | .11 | I |
| | 1013 | 08/03/93 | 0002 | PCI/G | U | .086 | .086 | I |
| | 1014 | 08/03/93 | 0001 | PCI/G | | .442 | .101 | I |
| | 1014 | 08/03/93 | 0002 | PCI/G | U | .079 | .079 | I |
| | 1015 | 08/03/93 | 0001 | PCI/G | | .232 | .08 | I |
| | 1015 | 08/03/93 | 0002 | PCI/G | U | .087 | .087 | I |
| | 1015 | 08/03/93 | 1001 | PCI/G | | .237 | .1 | I |
| | 1016 | 07/17/93 | 0001 | PCI/G | | .286 | .075 | I |

SOIL CHEMISTRY VALIDATED DATA
RADIONUCLIDES
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| CESIUM-137 | 1016 | 07/17/93 | 0002 | PCI/G | | .187 | .076 | I |
| | 1017 | 07/17/93 | 0001 | PCI/G | | .151 | .076 | I |
| | 1017 | 07/17/93 | 0002 | PCI/G | U | .11 | .11 | I |
| | 1018 | 07/17/93 | 0001 | PCI/G | | .298 | .082 | I |
| | 1018 | 07/17/93 | 0002 | PCI/G | | .167 | .077 | I |
| | 1019 | 07/19/93 | 0001 | PCI/G | | .686 | .1 | I |
| | 1019 | 07/19/93 | 0002 | PCI/G | U | .11 | .11 | I |
| | 1020 | 07/19/93 | 0001 | PCI/G | | .287 | .087 | I |
| | 1020 | 07/19/93 | 0002 | PCI/G | U | .086 | .086 | I |
| | 1021 | 07/19/93 | 0001 | PCI/G | U | .11 | .11 | I |
| | 1021 | 07/19/93 | 0002 | PCI/G | | .267 | .09 | I |
| | 1022 | 08/04/93 | 0001 | PCI/G | | .518 | .12 | I |
| | 1022 | 08/04/93 | 0002 | PCI/G | U | .073 | .073 | I |
| | 1023 | 08/04/93 | 0001 | PCI/G | | .524 | .1 | I |
| | 1023 | 08/04/93 | 0002 | PCI/G | U | .097 | .097 | I |
| | 1024 | 08/04/93 | 0001 | PCI/G | | .735 | .13 | I |
| | 1024 | 08/04/93 | 0002 | PCI/G | U | .1 | .1 | I |
| | 1025 | 08/04/93 | 0001 | PCI/G | | .287 | .13 | I |
| | 1025 | 08/04/93 | 0002 | PCI/G | U | .095 | .095 | I |
| | 1026 | 08/04/93 | 0001 | PCI/G | | .184 | .14 | I |
| | 1026 | 08/04/93 | 0002 | PCI/G | U | .082 | .082 | I |
| | 1026 | 08/04/93 | C001 | PCI/G | U | .11 | .11 | I |
| | 1027 | 08/04/93 | 0001 | PCI/G | | .404 | .12 | I |
| | 1027 | 08/04/93 | 0002 | PCI/G | U | .12 | .12 | I |
| | 1027 | 08/04/93 | 1001 | PCI/G | | .331 | .11 | I |
| | 1028 | 08/05/93 | 0001 | PCI/G | | .282 | .112 | I |
| | 1028 | 08/05/93 | 0002 | PCI/G | U | .083 | .083 | I |
| | 1028 | 08/05/93 | 1002 | PCI/G | U | .08 | .08 | I |
| | 1029 | 08/05/93 | 0001 | PCI/G | | .334 | .104 | I |
| | 1029 | 08/05/93 | 0002 | PCI/G | U | .12 | .12 | I |
| | 1030 | 08/05/93 | 0001 | PCI/G | | .495 | .099 | I |
| | 1030 | 08/05/93 | 0002 | PCI/G | U | .13 | .13 | I |
| | 1031 | 07/20/93 | 0001 | PCI/G | | .292 | .095 | I |
| | 1031 | 07/20/93 | 0002 | PCI/G | U | .069 | .069 | I |
| | 1032 | 07/20/93 | 0001 | PCI/G | | .31 | .078 | I |
| | 1032 | 07/20/93 | 0002 | PCI/G | U | .079 | .079 | I |
| | 1032 | 07/20/93 | 1002 | PCI/G | U | .088 | .088 | I |
| | 1032 | 07/20/93 | C002 | PCI/G | U | .097 | .097 | I |
| | 1033 | 07/20/93 | 0001 | PCI/G | | .166 | .12 | I |
| | 1033 | 07/20/93 | 0002 | PCI/G | U | .093 | .093 | I |
| | 1034 | 08/06/93 | 0001 | PCI/G | | .538 | .12 | I |
| | 1034 | 08/06/93 | 0002 | PCI/G | | .116 | .11 | I |
| | 1035 | 08/06/93 | 0001 | PCI/G | | .503 | .099 | I |
| | 1035 | 08/06/93 | 0002 | PCI/G | | .389 | .11 | I |
| | 1035 | 08/06/93 | C001 | PCI/G | | .467 | .1 | I |
| | 1036 | 08/06/93 | 0001 | PCI/G | | .339 | .1 | I |
| | 1036 | 08/06/93 | 0002 | PCI/G | | .253 | .12 | I |
| | 1036 | 08/06/93 | 1001 | PCI/G | | .52 | .12 | I |
| | 1037 | 07/18/93 | 0001 | PCI/G | | .392 | .074 | I |
| | 1037 | 07/18/93 | 0002 | PCI/G | | .138 | .11 | I |
| | 1038 | 07/18/93 | 0001 | PCI/G | | .212 | .11 | I |
| | 1038 | 07/18/93 | 0002 | PCI/G | | .117 | .11 | I |
| | 1038 | 07/18/93 | 1002 | PCI/G | U | .11 | .11 | I |
| | 1039 | 07/18/93 | 0001 | PCI/G | | .362 | .09 | I |
| | 1039 | 07/18/93 | 0002 | PCI/G | U | .11 | .11 | I |
| | 1040 | 07/18/93 | 0001 | PCI/G | | .29 | .1 | I |
| | 1040 | 07/18/93 | 0002 | PCI/G | | .285 | .12 | I |
| | 1040 | 07/18/93 | 1001 | PCI/G | | .191 | .09 | I |
| | 1040 | 07/18/93 | C001 | PCI/G | | .279 | .1 | I |
| | 1041 | 07/18/93 | 0001 | PCI/G | | .408 | .09 | I |
| | 1041 | 07/18/93 | 0002 | PCI/G | | .223 | .09 | I |
| | 1042 | 07/18/93 | 0001 | PCI/G | | .395 | .08 | I |

SOIL CHEMISTRY VALIDATED DATA
RADIONUCLIDES
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| CESIUM-137 | 1042 | 07/18/93 | 0002 | PCI/G | | .456 | .088 | I |
| | 1043 | 08/05/93 | 0001 | PCI/G | | .298 | .164 | I |
| | 1043 | 08/06/93 | 0002 | PCI/G | U | .097 | .097 | I |
| | 1044 | 08/05/93 | 0001 | PCI/G | | .176 | .117 | I |
| | 1044 | 08/06/93 | 0002 | PCI/G | U | .13 | .13 | I |
| | 1045 | 08/05/93 | 0001 | PCI/G | | .285 | .175 | I |
| | 1045 | 08/06/93 | 0002 | PCI/G | U | .13 | .13 | I |
| | 1046 | 07/14/93 | 0001 | PCI/G | | .217 | .17 | I |
| | 1046 | 07/14/93 | 0002 | PCI/G | U | .1 | .1 | I |
| | 1047 | 07/14/93 | 0001 | PCI/G | U | .13 | .13 | I |
| | 1047 | 07/14/93 | 0002 | PCI/G | | .0986 | .074 | I |
| | 1048 | 07/14/93 | 0001 | PCI/G | | .262 | .17 | I |
| | 1048 | 07/14/93 | 0002 | PCI/G | U | .1 | .1 | I |
| COBALT-60 | 1001 | 08/01/93 | 0001 | PCI/G | U | .1 | .1 | I |
| | 1001 | 08/01/93 | 0002 | PCI/G | U | .094 | .094 | I |
| | 1002 | 08/01/93 | 0001 | PCI/G | U | .12 | .11 | I |
| | 1002 | 08/01/93 | 0002 | PCI/G | U | .1 | .1 | I |
| | 1003 | 08/01/93 | 0001 | PCI/G | U | .096 | .096 | I |
| | 1003 | 08/01/93 | 0002 | PCI/G | U | .13 | .13 | I |
| | 1003 | 08/01/93 | 1001 | PCI/G | U | .11 | .11 | I |
| | 1004 | 07/15/93 | 0001 | PCI/G | U | .1 | .1 | I |
| | 1004 | 07/15/93 | 0002 | PCI/G | U | .13 | .13 | I |
| | 1005 | 07/16/93 | 0001 | PCI/G | U | .1 | .1 | I |
| | 1005 | 07/16/93 | 0002 | PCI/G | U | .13 | .13 | I |
| | 1005 | 07/16/93 | 1001 | PCI/G | U | .12 | .12 | I |
| | 1006 | 07/16/93 | 0001 | PCI/G | U | .11 | .11 | I |
| | 1006 | 07/16/93 | 0002 | PCI/G | U | .14 | .14 | I |
| | 1007 | 08/02/93 | 0001 | PCI/G | U | .13 | .13 | I |
| | 1007 | 08/02/93 | 0002 | PCI/G | U | .1 | .1 | I |
| | 1008 | 08/02/93 | 0001 | PCI/G | U | .12 | .12 | I |
| | 1008 | 08/02/93 | 0002 | PCI/G | U | .1 | .1 | I |
| | 1009 | 08/02/93 | 0001 | PCI/G | U | .09 | .09 | I |
| | 1009 | 08/02/93 | 0002 | PCI/G | U | .14 | .14 | I |
| | 1009 | 08/02/93 | 1001 | PCI/G | U | .12 | .12 | I |
| | 1009 | 08/02/93 | C002 | PCI/G | U | .11 | .11 | I |
| | 1010 | 08/03/93 | 0001 | PCI/G | U | .099 | .099 | I |
| | 1010 | 08/03/93 | 0002 | PCI/G | U | .1 | .1 | I |
| | 1011 | 08/03/93 | 0001 | PCI/G | U | .097 | .097 | I |
| | 1011 | 08/03/93 | 0002 | PCI/G | U | .11 | .11 | I |
| | 1012 | 08/03/93 | 0001 | PCI/G | U | .098 | .098 | I |
| | 1012 | 08/03/93 | 0002 | PCI/G | U | .11 | .11 | I |
| | 1013 | 08/03/93 | 0001 | PCI/G | U | .11 | .11 | I |
| | 1013 | 08/03/93 | 0002 | PCI/G | U | .081 | .081 | I |
| | 1014 | 08/03/93 | 0001 | PCI/G | U | .082 | .082 | I |
| | 1014 | 08/03/93 | 0002 | PCI/G | U | .093 | .093 | I |
| | 1015 | 08/03/93 | 0001 | PCI/G | U | .11 | .11 | I |
| | 1015 | 08/03/93 | 0002 | PCI/G | U | .083 | .083 | I |
| | 1015 | 08/03/93 | 1001 | PCI/G | U | .12 | .12 | I |
| | 1016 | 07/17/93 | 0001 | PCI/G | U | .087 | .087 | I |
| | 1016 | 07/17/93 | 0002 | PCI/G | U | .09 | .09 | I |
| | 1017 | 07/17/93 | 0001 | PCI/G | U | .11 | .11 | I |
| | 1017 | 07/17/93 | 0002 | PCI/G | U | .13 | .13 | I |
| | 1018 | 07/17/93 | 0001 | PCI/G | U | .088 | .088 | I |
| | 1018 | 07/17/93 | 0002 | PCI/G | U | .074 | .074 | I |
| | 1019 | 07/19/93 | 0001 | PCI/G | U | .11 | .11 | I |
| | 1019 | 07/19/93 | 0002 | PCI/G | U | .13 | .13 | I |
| | 1020 | 07/19/93 | 0001 | PCI/G | U | .091 | .091 | I |
| | 1020 | 07/19/93 | 0002 | PCI/G | U | .13 | .13 | I |
| | 1021 | 07/19/93 | 0001 | PCI/G | U | .14 | .14 | I |
| | 1021 | 07/19/93 | 0002 | PCI/G | U | .098 | .098 | I |
| | 1022 | 08/04/93 | 0001 | PCI/G | U | .12 | .12 | I |

SOIL CHEMISTRY VALIDATED DATA
RADIONUCLIDES
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| COBALT-60 | 1022 | 08/04/93 | 0002 | PCI/G | U | .071 | .071 | I |
| | 1023 | 08/04/93 | 0001 | PCI/G | U | .087 | .087 | I |
| | 1023 | 08/04/93 | 0002 | PCI/G | U | .093 | .093 | I |
| | 1024 | 08/04/93 | 0001 | PCI/G | U | .12 | .12 | I |
| | 1024 | 08/04/93 | 0002 | PCI/G | U | .1 | .1 | I |
| | 1025 | 08/04/93 | 0001 | PCI/G | U | .12 | .12 | I |
| | 1025 | 08/04/93 | 0002 | PCI/G | U | .11 | .11 | I |
| | 1026 | 08/04/93 | 0001 | PCI/G | U | .096 | .096 | I |
| | 1026 | 08/04/93 | 0002 | PCI/G | U | .11 | .11 | I |
| | 1026 | 08/04/93 | C001 | PCI/G | U | .13 | .13 | I |
| | 1027 | 08/04/93 | 0001 | PCI/G | U | .1 | .1 | I |
| | 1027 | 08/04/93 | 0002 | PCI/G | U | .1 | .1 | I |
| | 1027 | 08/04/93 | 1001 | PCI/G | U | .095 | .095 | I |
| | 1028 | 08/05/93 | 0001 | PCI/G | U | .09 | .09 | I |
| | 1028 | 08/05/93 | 0002 | PCI/G | | .0561 | - | I |
| | 1028 | 08/05/93 | 1002 | PCI/G | U | .086 | .086 | I |
| | 1029 | 08/05/93 | 0001 | PCI/G | U | .08 | .08 | I |
| | 1029 | 08/05/93 | 0002 | PCI/G | U | .14 | .14 | I |
| | 1030 | 08/05/93 | 0001 | PCI/G | U | .097 | .097 | I |
| | 1030 | 08/05/93 | 0002 | PCI/G | U | .12 | .12 | I |
| | 1031 | 07/20/93 | 0001 | PCI/G | U | .12 | .12 | I |
| | 1031 | 07/20/93 | 0002 | PCI/G | U | .091 | .091 | I |
| | 1032 | 07/20/93 | 0001 | PCI/G | U | .1 | .1 | I |
| | 1032 | 07/20/93 | 0002 | PCI/G | U | .11 | .11 | I |
| | 1032 | 07/20/93 | 1002 | PCI/G | U | .11 | .11 | I |
| | 1032 | 07/20/93 | C002 | PCI/G | U | .11 | .11 | I |
| | 1033 | 07/20/93 | 0001 | PCI/G | U | .13 | .13 | I |
| | 1033 | 07/20/93 | 0002 | PCI/G | U | .11 | .11 | I |
| | 1034 | 08/06/93 | 0001 | PCI/G | U | .11 | .11 | I |
| | 1034 | 08/06/93 | 0002 | PCI/G | U | .1 | .1 | I |
| | 1035 | 08/06/93 | 0001 | PCI/G | U | .082 | .082 | I |
| | 1035 | 08/06/93 | 0002 | PCI/G | U | .081 | .081 | I |
| | 1035 | 08/06/93 | C001 | PCI/G | U | .081 | .081 | I |
| | 1036 | 08/06/93 | 0001 | PCI/G | U | .097 | .097 | I |
| | 1036 | 08/06/93 | 0002 | PCI/G | U | .13 | .13 | I |
| | 1036 | 08/06/93 | 1001 | PCI/G | U | .099 | .099 | I |
| | 1037 | 07/18/93 | 0001 | PCI/G | U | .1 | .1 | I |
| | 1037 | 07/18/93 | 0002 | PCI/G | U | .14 | .14 | I |
| | 1038 | 07/18/93 | 0001 | PCI/G | U | .12 | .12 | I |
| | 1038 | 07/18/93 | 0002 | PCI/G | U | .14 | .14 | I |
| | 1038 | 07/18/93 | 1002 | PCI/G | U | .15 | .15 | I |
| | 1039 | 07/18/93 | 0001 | PCI/G | U | .12 | .12 | I |
| | 1039 | 07/18/93 | 0002 | PCI/G | U | .11 | .11 | I |
| | 1040 | 07/18/93 | 0001 | PCI/G | U | .1 | .1 | I |
| | 1040 | 07/18/93 | 0002 | PCI/G | U | .11 | .11 | I |
| | 1040 | 07/18/93 | 1001 | PCI/G | U | .13 | .13 | I |
| | 1040 | 07/18/93 | C001 | PCI/G | U | .12 | .12 | I |
| | 1041 | 07/18/93 | 0001 | PCI/G | U | .093 | .093 | I |
| | 1041 | 07/18/93 | 0002 | PCI/G | U | .13 | .13 | I |
| | 1042 | 07/18/93 | 0001 | PCI/G | U | .091 | .091 | I |
| | 1042 | 07/18/93 | 0002 | PCI/G | U | .099 | .099 | I |
| | 1043 | 08/05/93 | 0001 | PCI/G | U | .17 | .17 | I |
| | 1043 | 08/06/93 | 0002 | PCI/G | U | .1 | .1 | I |
| | 1044 | 08/05/93 | 0001 | PCI/G | U | .11 | .11 | I |
| | 1044 | 08/06/93 | 0002 | PCI/G | U | .14 | .14 | I |
| | 1045 | 08/05/93 | 0001 | PCI/G | U | .14 | .14 | I |
| | 1045 | 08/06/93 | 0002 | PCI/G | U | .12 | .12 | I |
| | 1046 | 07/14/93 | 0001 | PCI/G | U | .11 | .11 | I |
| | 1046 | 07/14/93 | 0002 | PCI/G | U | .11 | .11 | I |
| | 1047 | 07/14/93 | 0001 | PCI/G | | 1.01 | .2 | I |
| | 1047 | 07/14/93 | 0002 | PCI/G | U | .092 | .092 | I |
| | 1048 | 07/14/93 | 0001 | PCI/G | U | .12 | .12 | I |

SOIL CHEMISTRY VALIDATED DATA
RADIONUCLIDES
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| COBALT-60 | 1048 | 07/14/93 | 0002 | PCI/G | U | .089 | .089 | I |
| PLUTONIUM-238 | 1001 | 08/01/93 | 0001 | PCI/G | U | .073 | .073 | I |
| | 1001 | 08/01/93 | 0002 | PCI/G | | .105 | .024 | I |
| | 1002 | 08/01/93 | 0001 | PCI/G | U | .031 | .031 | I |
| | 1002 | 08/01/93 | 0002 | PCI/G | | .0333 | .03 | I |
| | 1003 | 08/01/93 | 0001 | PCI/G | U | .062 | .062 | I |
| | 1003 | 08/01/93 | 0002 | PCI/G | U | .066 | .066 | I |
| | 1003 | 08/01/93 | 1001 | PCI/G | | .0573 | .031 | I |
| | 1004 | 07/15/93 | 0001 | PCI/G | | .0834 | .062 | I |
| | 1004 | 07/15/93 | 0002 | PCI/G | | .0454 | .021 | I |
| | 1005 | 07/16/93 | 0001 | PCI/G | U | .059 | .059 | I |
| | 1005 | 07/16/93 | 0002 | PCI/G | U | .16 | .16 | I |
| | 1005 | 07/16/93 | 1001 | PCI/G | U | .12 | .12 | I |
| | 1006 | 07/16/93 | 0001 | PCI/G | | .136 | .074 | I |
| | 1006 | 07/16/93 | 0002 | PCI/G | U | .11 | .11 | I |
| | 1007 | 08/02/93 | 0001 | PCI/G | | .0379 | .034 | I |
| | 1007 | 08/02/93 | 0002 | PCI/G | U | .029 | .029 | I |
| | 1008 | 08/02/93 | 0001 | PCI/G | U | .07 | .07 | I |
| | 1008 | 08/02/93 | 0002 | PCI/G | | .1 | .034 | I |
| | 1009 | 08/02/93 | 0001 | PCI/G | | .247 | .043 | I |
| | 1009 | 08/02/93 | 0002 | PCI/G | | .0787 | .066 | I |
| | 1009 | 08/02/93 | 1001 | PCI/G | | .125 | .026 | I |
| | 1009 | 08/02/93 | C002 | PCI/G | U | .067 | .067 | I |
| | 1010 | 08/03/93 | 0001 | PCI/G | U | .088 | .088 | I |
| | 1010 | 08/03/93 | 0002 | PCI/G | U | .1 | .1 | I |
| | 1011 | 08/03/93 | 0001 | PCI/G | U | .043 | .043 | I |
| | 1011 | 08/03/93 | 0002 | PCI/G | U | .025 | .025 | I |
| | 1012 | 08/03/93 | 0001 | PCI/G | U | .051 | .051 | I |
| | 1012 | 08/03/93 | 0002 | PCI/G | | .103 | .077 | I |
| | 1013 | 08/03/93 | 0001 | PCI/G | U | .026 | .026 | I |
| | 1013 | 08/03/93 | 0002 | PCI/G | | .0704 | .024 | I |
| | 1014 | 08/03/93 | 0001 | PCI/G | U | .026 | .026 | I |
| | 1014 | 08/03/93 | 0002 | PCI/G | | .0508 | .034 | I |
| | 1015 | 08/03/93 | 0001 | PCI/G | U | .04 | .04 | I |
| | 1015 | 08/03/93 | 0002 | PCI/G | U | .052 | .052 | I |
| | 1015 | 08/03/93 | 1001 | PCI/G | U | .067 | .067 | I |
| | 1016 | 07/17/93 | 0001 | PCI/G | U | .047 | .047 | I |
| | 1016 | 07/17/93 | 0002 | PCI/G | U | .021 | .021 | I |
| | 1017 | 07/17/93 | 0001 | PCI/G | U | .057 | .057 | I |
| | 1017 | 07/17/93 | 0002 | PCI/G | U | .06 | .06 | I |
| | 1018 | 07/17/93 | 0001 | PCI/G | | .0466 | .025 | I |
| | 1018 | 07/17/93 | 0002 | PCI/G | | .0445 | .024 | I |
| | 1019 | 07/19/93 | 0001 | PCI/G | U | .081 | .081 | I |
| | 1019 | 07/19/93 | 0002 | PCI/G | | .114 | .108 | I |
| | 1020 | 07/19/93 | 0001 | PCI/G | U | .078 | .078 | I |
| | 1020 | 07/19/93 | 0002 | PCI/G | | .0603 | .027 | I |
| | 1021 | 07/19/93 | 0001 | PCI/G | | .0803 | .024 | I |
| | 1021 | 07/19/93 | 0002 | PCI/G | U | .059 | .059 | I |
| | 1022 | 08/04/93 | 0001 | PCI/G | U | .026 | .026 | I |
| | 1022 | 08/04/93 | 0002 | PCI/G | U | .053 | .053 | I |
| | 1023 | 08/04/93 | 0001 | PCI/G | U | .027 | .027 | I |
| | 1023 | 08/04/93 | 0002 | PCI/G | U | .024 | .024 | I |
| | 1024 | 08/04/93 | 0001 | PCI/G | U | .069 | .069 | I |
| | 1024 | 08/04/93 | 0002 | PCI/G | U | .053 | .053 | I |
| | 1025 | 08/04/93 | 0001 | PCI/G | | .189 | .085 | I |
| | 1025 | 08/04/93 | 0002 | PCI/G | U | .031 | .031 | I |
| | 1026 | 08/04/93 | 0001 | PCI/G | U | .03 | .03 | I |
| | 1026 | 08/04/93 | 0002 | PCI/G | U | .05 | .05 | I |
| | 1026 | 08/04/93 | C001 | PCI/G | U | .054 | .054 | I |
| | 1027 | 08/04/93 | 0001 | PCI/G | U | .055 | .055 | I |
| | 1027 | 08/04/93 | 0002 | PCI/G | U | .051 | .051 | I |

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07/14/93 TO 08/06/93
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| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| PLUTONIUM-238 | 1027 | 08/04/93 | 1001 | PCI/G | U | .038 | .038 | I |
| | 1028 | 08/05/93 | 0001 | PCI/G | | .136 | .025 | I |
| | 1028 | 08/05/93 | 0002 | PCI/G | U | .021 | .021 | I |
| | 1028 | 08/05/93 | 1002 | PCI/G | | .211 | .042 | I |
| | 1029 | 08/05/93 | 0001 | PCI/G | U | .089 | .089 | I |
| | 1029 | 08/05/93 | 0002 | PCI/G | U | .08 | .08 | I |
| | 1030 | 08/05/93 | 0001 | PCI/G | | .162 | .095 | I |
| | 1030 | 08/05/93 | 0002 | PCI/G | | .0441 | .04 | I |
| | 1031 | 07/20/93 | 0001 | PCI/G | | .0751 | .041 | I |
| | 1031 | 07/20/93 | 0002 | PCI/G | | .06 | .033 | I |
| | 1032 | 07/20/93 | 0001 | PCI/G | | .0563 | .022 | I |
| | 1032 | 07/20/93 | 0002 | PCI/G | | .0502 | .023 | I |
| | 1032 | 07/20/93 | 1002 | PCI/G | | .0621 | .053 | I |
| | 1032 | 07/20/93 | C002 | PCI/G | U | .046 | .046 | I |
| | 1033 | 07/20/93 | 0001 | PCI/G | U | .052 | .052 | I |
| | 1033 | 07/20/93 | 0002 | PCI/G | U | .067 | .067 | I |
| | 1034 | 08/06/93 | 0001 | PCI/G | U | .024 | .024 | I |
| | 1034 | 08/06/93 | 0002 | PCI/G | U | .055 | .055 | I |
| | 1035 | 08/06/93 | 0001 | PCI/G | U | .054 | .054 | I |
| | 1035 | 08/06/93 | 0002 | PCI/G | U | .024 | .024 | I |
| | 1035 | 08/06/93 | C001 | PCI/G | U | .043 | .043 | I |
| | 1036 | 08/06/93 | 0001 | PCI/G | U | .025 | .025 | I |
| | 1036 | 08/06/93 | 0002 | PCI/G | | .0312 | .028 | I |
| | 1036 | 08/06/93 | 1001 | PCI/G | U | .069 | .069 | I |
| | 1037 | 07/18/93 | 0001 | PCI/G | U | .05 | .05 | I |
| | 1037 | 07/18/93 | 0002 | PCI/G | U | .022 | .021 | I |
| | 1038 | 07/18/93 | 0001 | PCI/G | | .0411 | .022 | I |
| | 1038 | 07/18/93 | 0002 | PCI/G | U | .043 | .043 | I |
| | 1038 | 07/18/93 | 1002 | PCI/G | U | .049 | .049 | I |
| | 1039 | 07/18/93 | 0001 | PCI/G | U | .0342 | .0342 | I |
| | 1039 | 07/18/93 | 0002 | PCI/G | U | .043 | .043 | I |
| | 1040 | 07/18/93 | 0001 | PCI/G | U | .02 | .02 | I |
| | 1040 | 07/18/93 | 0002 | PCI/G | | .0286 | .026 | I |
| | 1040 | 07/18/93 | 1001 | PCI/G | U | .045 | .045 | I |
| | 1040 | 07/18/93 | C001 | PCI/G | U | .052 | .052 | I |
| | 1041 | 07/18/93 | 0001 | PCI/G | | .0467 | .021 | I |
| | 1041 | 07/18/93 | 0002 | PCI/G | U | .02 | .02 | I |
| | 1042 | 07/18/93 | 0001 | PCI/G | U | .042 | .042 | I |
| | 1042 | 07/18/93 | 0002 | PCI/G | | .0268 | .024 | I |
| | 1043 | 08/05/93 | 0001 | PCI/G | U | .085 | .085 | I |
| | 1043 | 08/06/93 | 0002 | PCI/G | U | .026 | .026 | I |
| | 1044 | 08/05/93 | 0001 | PCI/G | | .0408 | .037 | I |
| | 1044 | 08/06/93 | 0002 | PCI/G | U | .058 | .058 | I |
| | 1045 | 08/05/93 | 0001 | PCI/G | U | .081 | .081 | I |
| | 1045 | 08/06/93 | 0002 | PCI/G | U | .027 | .027 | I |
| | 1046 | 07/14/93 | 0001 | PCI/G | | .0351 | .024 | I |
| | 1046 | 07/14/93 | 0002 | PCI/G | U | .049 | .049 | I |
| | 1047 | 07/14/93 | 0001 | PCI/G | U | .058 | .058 | I |
| | 1047 | 07/14/93 | 0002 | PCI/G | U | .046 | .046 | I |
| | 1048 | 07/14/93 | 0001 | PCI/G | U | .023 | .023 | I |
| | 1048 | 07/14/93 | 0002 | PCI/G | U | .02 | .02 | I |
| PLUTONIUM-239 | 1009 | 08/02/93 | A002 | STD DEV | | -2.12 | - | I |
| | 1026 | 08/04/93 | A001 | STD DEV | | -1.92 | - | I |
| | 1032 | 07/20/93 | A002 | STD DEV | | -1.34 | - | I |
| | 1035 | 08/06/93 | A001 | STD DEV | | -1.52 | - | I |
| | 1040 | 07/18/93 | A001 | STD DEV | | -2.11 | - | I |
| PLUTONIUM-239/240 | 1001 | 08/01/93 | 0001 | PCI/G | | .0386 | .035 | I |
| | 1001 | 08/01/93 | 0002 | PCI/G | | .114 | .024 | I |
| | 1002 | 08/01/93 | 0001 | PCI/G | U | .064 | .064 | I |
| | 1002 | 08/01/93 | 0002 | PCI/G | | .0554 | .03 | I |

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| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| PLUTONIUM-239/240 | 1003 | 08/01/93 | 0001 | PCI/G | U | .076 | .076 | I |
| | 1003 | 08/01/93 | 0002 | PCI/G | U | .031 | .031 | I |
| | 1003 | 08/01/93 | 1001 | PCI/G | | .0458 | .031 | I |
| | 1004 | 07/15/93 | 0001 | PCI/G | U | .075 | .075 | I |
| | 1004 | 07/15/93 | 0002 | PCI/G | | .0605 | .021 | I |
| | 1005 | 07/16/93 | 0001 | PCI/G | | .0732 | .028 | I |
| | 1005 | 07/16/93 | 0002 | PCI/G | | .221 | .16 | I |
| | 1005 | 07/16/93 | 1001 | PCI/G | | .156 | .116 | I |
| | 1006 | 07/16/93 | 0001 | PCI/G | U | .15 | .15 | I |
| | 1006 | 07/16/93 | 0002 | PCI/G | U | .09 | .09 | I |
| | 1007 | 08/02/93 | 0001 | PCI/G | U | .071 | .071 | I |
| | 1007 | 08/02/93 | 0002 | PCI/G | | .0421 | .029 | I |
| | 1008 | 08/02/93 | 0001 | PCI/G | U | .096 | .096 | I |
| | 1008 | 08/02/93 | 0002 | PCI/G | | .12 | .071 | I |
| | 1009 | 08/02/93 | 0001 | PCI/G | | .319 | .052 | I |
| | 1009 | 08/02/93 | 0002 | PCI/G | U | .054 | .054 | I |
| | 1009 | 08/02/93 | 1001 | PCI/G | | .0633 | .054 | I |
| | 1009 | 08/02/93 | C002 | PCI/G | U | .081 | .081 | I |
| | 1010 | 08/03/93 | 0001 | PCI/G | U | .088 | .088 | I |
| | 1010 | 08/03/93 | 0002 | PCI/G | U | .13 | .13 | I |
| | 1011 | 08/03/93 | 0001 | PCI/G | U | .089 | .089 | I |
| | 1011 | 08/03/93 | 0002 | PCI/G | U | .062 | .062 | I |
| | 1012 | 08/03/93 | 0001 | PCI/G | | .045 | .024 | I |
| | 1012 | 08/03/93 | 0002 | PCI/G | U | .077 | .077 | I |
| | 1013 | 08/03/93 | 0001 | PCI/G | | .0768 | .026 | I |
| | 1013 | 08/03/93 | 0002 | PCI/G | U | .05 | .05 | I |
| | 1014 | 08/03/93 | 0001 | PCI/G | U | .055 | .055 | I |
| | 1014 | 08/03/93 | 0002 | PCI/G | U | .099 | .099 | I |
| | 1015 | 08/03/93 | 0001 | PCI/G | | .113 | .084 | I |
| | 1015 | 08/03/93 | 0002 | PCI/G | U | .052 | .052 | I |
| | 1015 | 08/03/93 | 1001 | PCI/G | | .0707 | .032 | I |
| | 1016 | 07/17/93 | 0001 | PCI/G | U | .047 | .047 | I |
| | 1016 | 07/17/93 | 0002 | PCI/G | | .055 | .021 | I |
| | 1017 | 07/17/93 | 0001 | PCI/G | | .0301 | .027 | I |
| | 1017 | 07/17/93 | 0002 | PCI/G | | .139 | .024 | I |
| | 1018 | 07/17/93 | 0001 | PCI/G | U | .053 | .025 | I |
| | 1018 | 07/17/93 | 0002 | PCI/G | U | .024 | .024 | I |
| | 1019 | 07/19/93 | 0001 | PCI/G | | .0859 | .038 | I |
| | 1019 | 07/19/93 | 0002 | PCI/G | | .167 | .089 | I |
| | 1020 | 07/19/93 | 0001 | PCI/G | U | .12 | .12 | I |
| | 1020 | 07/19/93 | 0002 | PCI/G | U | .057 | .057 | I |
| | 1021 | 07/19/93 | 0001 | PCI/G | | .104 | .05 | I |
| | 1021 | 07/19/93 | 0002 | PCI/G | | .111 | .023 | I |
| | 1022 | 08/04/93 | 0001 | PCI/G | U | .026 | .026 | I |
| | 1022 | 08/04/93 | 0002 | PCI/G | U | .064 | .064 | I |
| | 1023 | 08/04/93 | 0001 | PCI/G | U | .056 | .056 | I |
| | 1023 | 08/04/93 | 0002 | PCI/G | U | .061 | .061 | I |
| | 1024 | 08/04/93 | 0001 | PCI/G | U | .033 | .033 | I |
| | 1024 | 08/04/93 | 0002 | PCI/G | U | .053 | .053 | I |
| | 1025 | 08/04/93 | 0001 | PCI/G | | .208 | .18 | I |
| | 1025 | 08/04/93 | 0002 | PCI/G | U | .088 | .088 | I |
| | 1026 | 08/04/93 | 0001 | PCI/G | U | .063 | .063 | I |
| | 1026 | 08/04/93 | 0002 | PCI/G | U | .05 | .05 | I |
| | 1026 | 08/04/93 | C001 | PCI/G | U | .026 | .026 | I |
| | 1027 | 08/04/93 | 0001 | PCI/G | U | .026 | .026 | I |
| | 1027 | 08/04/93 | 0002 | PCI/G | U | .07 | .07 | I |
| | 1027 | 08/04/93 | 1001 | PCI/G | | .0706 | .038 | I |
| | 1028 | 08/05/93 | 0001 | PCI/G | | .227 | .025 | I |
| | 1028 | 08/05/93 | 0002 | PCI/G | | .0313 | .021 | I |
| | 1028 | 08/05/93 | 1002 | PCI/G | | .304 | .051 | I |
| | 1029 | 08/05/93 | 0001 | PCI/G | | .135 | .089 | I |
| | 1029 | 08/05/93 | 0002 | PCI/G | U | .08 | .08 | I |

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| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| PLUTONIUM-239/240 | 1030 | 08/05/93 | 0001 | PCI/G | | .219 | .046 | I |
| | 1030 | 08/05/93 | 0002 | PCI/G | | .103 | .04 | I |
| | 1031 | 07/20/93 | 0001 | PCI/G | | .105 | .041 | I |
| | 1031 | 07/20/93 | 0002 | PCI/G | | .0912 | .068 | I |
| | 1032 | 07/20/93 | 0001 | PCI/G | U | .045 | .045 | I |
| | 1032 | 07/20/93 | 0002 | PCI/G | | .0552 | .047 | I |
| | 1032 | 07/20/93 | 1002 | PCI/G | | .0565 | .026 | I |
| | 1032 | 07/20/93 | C002 | PCI/G | U | .046 | .046 | I |
| | 1033 | 07/20/93 | 0001 | PCI/G | U | .052 | .052 | I |
| | 1033 | 07/20/93 | 0002 | PCI/G | U | .067 | .067 | I |
| | 1034 | 08/06/93 | 0001 | PCI/G | U | .051 | .051 | I |
| | 1034 | 08/06/93 | 0002 | PCI/G | U | .027 | .027 | I |
| | 1035 | 08/06/93 | 0001 | PCI/G | U | .075 | .075 | I |
| | 1035 | 08/06/93 | 0002 | PCI/G | U | .05 | .05 | I |
| | 1035 | 08/06/93 | C001 | PCI/G | U | .043 | .043 | I |
| | 1036 | 08/06/93 | 0001 | PCI/G | U | .052 | .052 | I |
| | 1036 | 08/06/93 | 0002 | PCI/G | | .052 | .028 | I |
| | 1036 | 08/06/93 | 1001 | PCI/G | U | .078 | .078 | I |
| | 1037 | 07/18/93 | 0001 | PCI/G | U | .024 | .024 | I |
| | 1037 | 07/18/93 | 0002 | PCI/G | | .0605 | .021 | I |
| | 1038 | 07/18/93 | 0001 | PCI/G | | .0494 | .022 | I |
| | 1038 | 07/18/93 | 0002 | PCI/G | U | .043 | .043 | I |
| | 1038 | 07/18/93 | 1002 | PCI/G | | .0212 | .019 | I |
| | 1039 | 07/18/93 | 0001 | PCI/G | | .0565 | .042 | I |
| | 1039 | 07/18/93 | 0002 | PCI/G | | .0457 | .021 | I |
| | 1040 | 07/18/93 | 0001 | PCI/G | | .0434 | .02 | I |
| | 1040 | 07/18/93 | 0002 | PCI/G | U | .066 | .066 | I |
| | 1040 | 07/18/93 | 1001 | PCI/G | | .0315 | .021 | I |
| | 1040 | 07/18/93 | C001 | PCI/G | U | .052 | .052 | I |
| | 1041 | 07/18/93 | 0001 | PCI/G | | .0934 | .021 | I |
| | 1041 | 07/18/93 | 0002 | PCI/G | | .0436 | .02 | I |
| | 1042 | 07/18/93 | 0001 | PCI/G | U | .042 | .042 | I |
| | 1042 | 07/18/93 | 0002 | PCI/G | U | .051 | .051 | I |
| | 1043 | 08/05/93 | 0001 | PCI/G | | .0454 | .041 | I |
| | 1043 | 08/06/93 | 0002 | PCI/G | | .0385 | .026 | I |
| | 1044 | 08/05/93 | 0001 | PCI/G | | .0408 | .037 | I |
| | 1044 | 08/06/93 | 0002 | PCI/G | U | .07 | .07 | I |
| | 1045 | 08/05/93 | 0001 | PCI/G | | .103 | .098 | I |
| | 1045 | 08/06/93 | 0002 | PCI/G | U | .027 | .027 | I |
| | 1046 | 07/14/93 | 0001 | PCI/G | | .0702 | .024 | I |
| | 1046 | 07/14/93 | 0002 | PCI/G | U | .023 | .023 | I |
| | 1047 | 07/14/93 | 0001 | PCI/G | U | .058 | .058 | I |
| | 1047 | 07/14/93 | 0002 | PCI/G | | .0693 | .046 | I |
| | 1048 | 07/14/93 | 0001 | PCI/G | | .026 | .023 | I |
| | 1048 | 07/14/93 | 0002 | PCI/G | | .0564 | .042 | I |
| POTASSIUM-40 | 1001 | 08/01/93 | 0001 | PCI/G | | 18.4 | 1.21 | I |
| | 1001 | 08/01/93 | 0002 | PCI/G | | 24.7 | .755 | I |
| | 1002 | 08/01/93 | 0001 | PCI/G | | 16.5 | 1.08 | I |
| | 1002 | 08/01/93 | 0002 | PCI/G | | 18.8 | 1.09 | I |
| | 1003 | 08/01/93 | 0001 | PCI/G | | 16.7 | 1.03 | I |
| | 1003 | 08/01/93 | 0002 | PCI/G | | 21.1 | 1.23 | I |
| | 1003 | 08/01/93 | 1001 | PCI/G | | 20.5 | .985 | I |
| | 1004 | 07/15/93 | 0001 | PCI/G | | 29.9 | .7 | I |
| | 1004 | 07/15/93 | 0002 | PCI/G | | 23.1 | 1.1 | I |
| | 1005 | 07/16/93 | 0001 | PCI/G | | 28.6 | .88 | I |
| | 1005 | 07/16/93 | 0002 | PCI/G | | 28.4 | 1.1 | I |
| | 1005 | 07/16/93 | 1001 | PCI/G | | 28.3 | 1.1 | I |
| | 1006 | 07/16/93 | 0001 | PCI/G | | 29. | .85 | I |
| | 1006 | 07/16/93 | 0002 | PCI/G | | 28.3 | 1.2 | I |
| | 1007 | 08/02/93 | 0001 | PCI/G | | 28.9 | .961 | I |
| | 1007 | 08/02/93 | 0002 | PCI/G | | 32.9 | 1.02 | I |

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| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| POTASSIUM-40 | 1008 | 08/02/93 | 0001 | PCI/G | | 30.2 | 1.22 | I |
| | 1008 | 08/02/93 | 0002 | PCI/G | | 30.8 | .986 | I |
| | 1009 | 08/02/93 | 0001 | PCI/G | | 32.5 | .845 | I |
| | 1009 | 08/02/93 | 0002 | PCI/G | | 29.6 | 1.17 | I |
| | 1009 | 08/02/93 | 1001 | PCI/G | | 28.7 | 1.15 | I |
| | 1009 | 08/02/93 | C002 | PCI/G | | 33.4 | 1.01 | I |
| | 1010 | 08/03/93 | 0001 | PCI/G | | 23.3 | 1. | I |
| | 1010 | 08/03/93 | 0002 | PCI/G | | 33.9 | .76 | I |
| | 1011 | 08/03/93 | 0001 | PCI/G | | 23.4 | .83 | I |
| | 1011 | 08/03/93 | 0002 | PCI/G | | 34.5 | 1. | I |
| | 1012 | 08/03/93 | 0001 | PCI/G | | 21.7 | .83 | I |
| | 1012 | 08/03/93 | 0002 | PCI/G | | 35.9 | .94 | I |
| | 1013 | 08/03/93 | 0001 | PCI/G | | 17.1 | .89 | I |
| | 1013 | 08/03/93 | 0002 | PCI/G | | 14.9 | .85 | I |
| | 1014 | 08/03/93 | 0001 | PCI/G | | 15.7 | .96 | I |
| | 1014 | 08/03/93 | 0002 | PCI/G | | 15. | .74 | I |
| | 1015 | 08/03/93 | 0001 | PCI/G | | 11.9 | .87 | I |
| | 1015 | 08/03/93 | 0002 | PCI/G | | 15.1 | .87 | I |
| | 1015 | 08/03/93 | 1001 | PCI/G | | 17.7 | 1.3 | I |
| | 1016 | 07/17/93 | 0001 | PCI/G | | 15.5 | .86 | I |
| | 1016 | 07/17/93 | 0002 | PCI/G | | 12.7 | .74 | I |
| | 1017 | 07/17/93 | 0001 | PCI/G | | 12.2 | .997 | I |
| | 1017 | 07/17/93 | 0002 | PCI/G | | 17. | 1.23 | I |
| | 1018 | 07/17/93 | 0001 | PCI/G | | 14.5 | .917 | I |
| | 1018 | 07/17/93 | 0002 | PCI/G | | 15.1 | .777 | I |
| | 1019 | 07/19/93 | 0001 | PCI/G | | 16.4 | .99 | I |
| | 1019 | 07/19/93 | 0002 | PCI/G | | 18.9 | 1.5 | I |
| | 1020 | 07/19/93 | 0001 | PCI/G | | 18.3 | .9 | I |
| | 1020 | 07/19/93 | 0002 | PCI/G | | 21.3 | 1.3 | I |
| | 1021 | 07/19/93 | 0001 | PCI/G | | 21.8 | 1.3 | I |
| | 1021 | 07/19/93 | 0002 | PCI/G | | 17.4 | 1.1 | I |
| | 1022 | 08/04/93 | 0001 | PCI/G | | 15.8 | 1.1 | I |
| | 1022 | 08/04/93 | 0002 | PCI/G | | 13. | .82 | I |
| | 1023 | 08/04/93 | 0001 | PCI/G | | 17.2 | .83 | I |
| | 1023 | 08/04/93 | 0002 | PCI/G | | 10.9 | .92 | I |
| | 1024 | 08/04/93 | 0001 | PCI/G | | 13.5 | 1.1 | I |
| | 1024 | 08/04/93 | 0002 | PCI/G | | 12.2 | .95 | I |
| | 1025 | 08/04/93 | 0001 | PCI/G | | 18.5 | 1. | I |
| | 1025 | 08/04/93 | 0002 | PCI/G | | 16.6 | 1.1 | I |
| | 1026 | 08/04/93 | 0001 | PCI/G | | 20.2 | .99 | I |
| | 1026 | 08/04/93 | 0002 | PCI/G | | 15. | .94 | I |
| | 1026 | 08/04/93 | C001 | PCI/G | | 19.1 | 1.2 | I |
| | 1027 | 08/04/93 | 0001 | PCI/G | | 20.4 | 1.1 | I |
| | 1027 | 08/04/93 | 0002 | PCI/G | | 15.5 | 1.2 | I |
| | 1027 | 08/04/93 | 1001 | PCI/G | | 23. | .87 | I |
| | 1028 | 08/05/93 | 0001 | PCI/G | | 19.5 | .962 | I |
| | 1028 | 08/05/93 | 0002 | PCI/G | | 15.9 | .95 | I |
| | 1028 | 08/05/93 | 1002 | PCI/G | | 14.6 | .914 | I |
| | 1029 | 08/05/93 | 0001 | PCI/G | | 18.5 | .827 | I |
| | 1029 | 08/05/93 | 0002 | PCI/G | | 13.4 | 1.21 | I |
| | 1030 | 08/05/93 | 0001 | PCI/G | | 18.3 | 1.02 | I |
| | 1030 | 08/05/93 | 0002 | PCI/G | | 13.1 | 1.24 | I |
| | 1031 | 07/20/93 | 0001 | PCI/G | | 14.4 | .997 | I |
| | 1031 | 07/20/93 | 0002 | PCI/G | | 17.1 | .94 | I |
| | 1032 | 07/20/93 | 0001 | PCI/G | | 16.5 | .85 | I |
| | 1032 | 07/20/93 | 0002 | PCI/G | | 18.7 | .941 | I |
| | 1032 | 07/20/93 | 1002 | PCI/G | | 14.4 | 1.05 | I |
| | 1032 | 07/20/93 | C002 | PCI/G | | 16.4 | 1.21 | I |
| | 1033 | 07/20/93 | 0001 | PCI/G | | 13.6 | 1. | I |
| | 1033 | 07/20/93 | 0002 | PCI/G | | 16.8 | 1.1 | I |
| | 1034 | 08/06/93 | 0001 | PCI/G | | 25. | .77 | I |
| | 1034 | 08/06/93 | 0002 | PCI/G | | 28.9 | .85 | I |

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SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| POTASSIUM-40 | 1035 | 08/06/93 | 0001 | PCI/G | | 23.6 | .81 | I |
| | 1035 | 08/06/93 | 0002 | PCI/G | | 24.4 | .78 | I |
| | 1035 | 08/06/93 | C001 | PCI/G | | 23.4 | .78 | I |
| | 1036 | 08/06/93 | 0001 | PCI/G | | 22.3 | .91 | I |
| | 1036 | 08/06/93 | 0002 | PCI/G | | 23.2 | 1.1 | I |
| | 1036 | 08/06/93 | 1001 | PCI/G | | 23. | .9 | I |
| | 1037 | 07/18/93 | 0001 | PCI/G | | 22.8 | .81 | I |
| | 1037 | 07/18/93 | 0002 | PCI/G | | 23.1 | 1. | I |
| | 1038 | 07/18/93 | 0001 | PCI/G | | 18.3 | 1.1 | I |
| | 1038 | 07/18/93 | 0002 | PCI/G | | 27. | 1.1 | I |
| | 1038 | 07/18/93 | 1002 | PCI/G | | 26.2 | 1.1 | I |
| | 1039 | 07/18/93 | 0001 | PCI/G | | 18.3 | 1. | I |
| | 1039 | 07/18/93 | 0002 | PCI/G | | 20.9 | 1.1 | I |
| | 1040 | 07/18/93 | 0001 | PCI/G | | 26.4 | .88 | I |
| | 1040 | 07/18/93 | 0002 | PCI/G | | 23.2 | 1.1 | I |
| | 1040 | 07/18/93 | 1001 | PCI/G | | 25. | 1. | I |
| | 1040 | 07/18/93 | C001 | PCI/G | | 23.1 | 1.1 | I |
| | 1041 | 07/18/93 | 0001 | PCI/G | | 23.8 | 1. | I |
| | 1041 | 07/18/93 | 0002 | PCI/G | | 25. | 1.1 | I |
| | 1042 | 07/18/93 | 0001 | PCI/G | | 24.1 | .08 | I |
| | 1042 | 07/18/93 | 0002 | PCI/G | | 25.3 | .9 | I |
| | 1043 | 08/05/93 | 0001 | PCI/G | | 32.7 | 1.38 | I |
| | 1043 | 08/06/93 | 0002 | PCI/G | | 33.4 | .85 | I |
| | 1044 | 08/05/93 | 0001 | PCI/G | | 35.1 | .959 | I |
| | 1044 | 08/06/93 | 0002 | PCI/G | | 37.9 | 1.2 | I |
| | 1045 | 08/05/93 | 0001 | PCI/G | | 33.8 | 1.49 | I |
| | 1045 | 08/06/93 | 0002 | PCI/G | | 32.4 | 1.1 | I |
| | 1046 | 07/14/93 | 0001 | PCI/G | | 13.8 | .92 | I |
| | 1046 | 07/14/93 | 0002 | PCI/G | | 12.5 | 1.2 | I |
| | 1047 | 07/14/93 | 0001 | PCI/G | | 13.2 | 1.1 | I |
| | 1047 | 07/14/93 | 0002 | PCI/G | | 14. | .83 | I |
| | 1048 | 07/14/93 | 0001 | PCI/G | | 13.8 | 1.1 | I |
| | 1048 | 07/14/93 | 0002 | PCI/G | | 12.2 | 1.1 | I |
| RADIUM-226 | 1001 | 08/01/93 | 0001 | PCI/G | | 1.11 | .176 | I |
| | 1001 | 08/01/93 | 0002 | PCI/G | | 1.17 | .143 | I |
| | 1002 | 08/01/93 | 0001 | PCI/G | | .966 | .172 | I |
| | 1002 | 08/01/93 | 0002 | PCI/G | | 1.8 | .19 | I |
| | 1003 | 08/01/93 | 0001 | PCI/G | | 2.06 | .158 | I |
| | 1003 | 08/01/93 | 0002 | PCI/G | | 2.95 | .201 | I |
| | 1003 | 08/01/93 | 1001 | PCI/G | | 1.39 | .17 | I |
| | 1004 | 07/15/93 | 0001 | PCI/G | | .883 | .14 | I |
| | 1004 | 07/15/93 | 0002 | PCI/G | | .53 | .18 | I |
| | 1005 | 07/16/93 | 0001 | PCI/G | | 1.15 | .17 | I |
| | 1005 | 07/16/93 | 0002 | PCI/G | | .893 | .18 | I |
| | 1005 | 07/16/93 | 1001 | PCI/G | | .946 | .17 | I |
| | 1006 | 07/16/93 | 0001 | PCI/G | | 1.06 | .16 | I |
| | 1006 | 07/16/93 | 0002 | PCI/G | | .761 | .18 | I |
| | 1007 | 08/02/93 | 0001 | PCI/G | | .736 | .167 | I |
| | 1007 | 08/02/93 | 0002 | PCI/G | | .996 | .165 | I |
| | 1008 | 08/02/93 | 0001 | PCI/G | | .856 | .152 | I |
| | 1008 | 08/02/93 | 0002 | PCI/G | | .815 | .15 | I |
| | 1009 | 08/02/93 | 0001 | PCI/G | | .929 | .149 | I |
| | 1009 | 08/02/93 | 0002 | PCI/G | | .874 | .181 | I |
| | 1009 | 08/02/93 | 1001 | PCI/G | | .873 | .191 | I |
| | 1009 | 08/02/93 | C002 | PCI/G | | .909 | .166 | I |
| | 1010 | 08/03/93 | 0001 | PCI/G | | 1.04 | .2 | I |
| | 1010 | 08/03/93 | 0002 | PCI/G | | 1.07 | .2 | I |
| | 1011 | 08/03/93 | 0001 | PCI/G | | 1.14 | .2 | I |
| | 1011 | 08/03/93 | 0002 | PCI/G | | 1.30 | .2 | I |
| | 1012 | 08/03/93 | 0001 | PCI/G | | 1.06 | .2 | I |
| | 1012 | 08/03/93 | 0002 | PCI/G | | 1.38 | .2 | I |

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| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| RADIUM-226 | 1013 | 08/03/93 | 0001 | PCI/G | | 1.21 | .2 | I |
| | 1013 | 08/03/93 | 0002 | PCI/G | | .99 | .14 | I |
| | 1014 | 08/03/93 | 0001 | PCI/G | | 1.14 | .14 | I |
| | 1014 | 08/03/93 | 0002 | PCI/G | | 1.09 | .13 | I |
| | 1015 | 08/03/93 | 0001 | PCI/G | | .950 | .13 | I |
| | 1015 | 08/03/93 | 0002 | PCI/G | | 1.09 | .1 | I |
| | 1015 | 08/03/93 | 1001 | PCI/G | | 1.15 | .2 | I |
| | 1016 | 07/17/93 | 0001 | PCI/G | | .725 | .14 | I |
| | 1016 | 07/17/93 | 0002 | PCI/G | | .795 | .13 | I |
| | 1017 | 07/17/93 | 0001 | PCI/G | | .666 | .144 | I |
| | 1017 | 07/17/93 | 0002 | PCI/G | | 1.05 | .17 | I |
| | 1018 | 07/17/93 | 0001 | PCI/G | | .881 | .138 | I |
| | 1018 | 07/17/93 | 0002 | PCI/G | | .918 | .134 | I |
| | 1019 | 07/19/93 | 0001 | PCI/G | | .985 | .16 | I |
| | 1019 | 07/19/93 | 0002 | PCI/G | | 1.65 | .19 | I |
| | 1020 | 07/19/93 | 0001 | PCI/G | | 1.14 | .14 | I |
| | 1020 | 07/19/93 | 0002 | PCI/G | | 1.53 | .2 | I |
| | 1021 | 07/19/93 | 0001 | PCI/G | | 1.38 | .17 | I |
| | 1021 | 07/19/93 | 0002 | PCI/G | | 2.02 | .18 | I |
| | 1022 | 08/04/93 | 0001 | PCI/G | | 1.49 | .16 | I |
| | 1022 | 08/04/93 | 0002 | PCI/G | | 1.27 | .12 | I |
| | 1023 | 08/04/93 | 0001 | PCI/G | | 1.75 | .15 | I |
| | 1023 | 08/04/93 | 0002 | PCI/G | | .934 | .15 | I |
| | 1024 | 08/04/93 | 0001 | PCI/G | | 1.7 | .18 | I |
| | 1024 | 08/04/93 | 0002 | PCI/G | | 1.2 | .18 | I |
| | 1025 | 08/04/93 | 0001 | PCI/G | | 1.43 | .17 | I |
| | 1025 | 08/04/93 | 0002 | PCI/G | | 1.18 | .16 | I |
| | 1026 | 08/04/93 | 0001 | PCI/G | | 1.62 | .16 | I |
| | 1026 | 08/04/93 | 0002 | PCI/G | | 1.27 | .16 | I |
| | 1026 | 08/04/93 | C001 | PCI/G | | 1.64 | .18 | I |
| | 1027 | 08/04/93 | 0001 | PCI/G | | 1.65 | .16 | I |
| | 1027 | 08/04/93 | 0002 | PCI/G | | 1.18 | .19 | I |
| | 1027 | 08/04/93 | 1001 | PCI/G | | 1.59 | .16 | I |
| | 1028 | 08/05/93 | 0001 | PCI/G | | 1.24 | .149 | I |
| | 1028 | 08/05/93 | 0002 | PCI/G | | 1.2 | .147 | I |
| | 1028 | 08/05/93 | 1002 | PCI/G | | 1.05 | .151 | I |
| | 1029 | 08/05/93 | 0001 | PCI/G | | 1.35 | .153 | I |
| | 1029 | 08/05/93 | 0002 | PCI/G | | .957 | .199 | I |
| | 1030 | 08/05/93 | 0001 | PCI/G | | 1.27 | .158 | I |
| | 1030 | 08/05/93 | 0002 | PCI/G | | .979 | .167 | I |
| | 1031 | 07/20/93 | 0001 | PCI/G | | 1.21 | .161 | I |
| | 1031 | 07/20/93 | 0002 | PCI/G | | 1.31 | .15 | I |
| | 1032 | 07/20/93 | 0001 | PCI/G | | 1.25 | .146 | I |
| | 1032 | 07/20/93 | 0002 | PCI/G | | 1.44 | .153 | I |
| | 1032 | 07/20/93 | 1002 | PCI/G | | 1.21 | .18 | I |
| | 1032 | 07/20/93 | C002 | PCI/G | | 1.49 | .179 | I |
| | 1033 | 07/20/93 | 0001 | PCI/G | | 1.03 | .12 | I |
| | 1033 | 07/20/93 | 0002 | PCI/G | | 1.36 | .19 | I |
| | 1034 | 08/06/93 | 0001 | PCI/G | | 1.33 | .17 | I |
| | 1034 | 08/06/93 | 0002 | PCI/G | | 1.55 | .17 | I |
| | 1035 | 08/06/93 | 0001 | PCI/G | | 1.3 | .15 | I |
| | 1035 | 08/06/93 | 0002 | PCI/G | | 1.38 | .15 | I |
| | 1035 | 08/06/93 | C001 | PCI/G | | 1.39 | .14 | I |
| | 1036 | 08/06/93 | 0001 | PCI/G | | 1.3 | .13 | I |
| | 1036 | 08/06/93 | 0002 | PCI/G | | 1.26 | .18 | I |
| | 1036 | 08/06/93 | 1001 | PCI/G | | 1.27 | .16 | I |
| | 1037 | 07/18/93 | 0001 | PCI/G | | 1.21 | .15 | I |
| | 1037 | 07/18/93 | 0002 | PCI/G | | .92 | .19 | I |
| | 1038 | 07/18/93 | 0001 | PCI/G | | .967 | .17 | I |
| | 1038 | 07/18/93 | 0002 | PCI/G | | .94 | .18 | I |
| | 1038 | 07/18/93 | 1002 | PCI/G | | 1.03 | .17 | I |
| | 1039 | 07/18/93 | 0001 | PCI/G | | 1.06 | .17 | I |

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| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| RADIUM-226 | 1039 | 07/18/93 | 0002 | PCI/G | | .925 | .17 | I |
| | 1040 | 07/18/93 | 0001 | PCI/G | | 1.26 | .15 | I |
| | 1040 | 07/18/93 | 0002 | PCI/G | | 1.12 | .18 | I |
| | 1040 | 07/18/93 | 1001 | PCI/G | | 1.08 | .18 | I |
| | 1041 | 07/18/93 | 0001 | PCI/G | | 1.32 | .15 | I |
| | 1041 | 07/18/93 | 0002 | PCI/G | | 1.2 | .18 | I |
| | 1042 | 07/18/93 | 0001 | PCI/G | | 1.29 | .14 | I |
| | 1042 | 07/18/93 | 0002 | PCI/G | | 1.94 | .16 | I |
| | 1043 | 08/05/93 | 0001 | PCI/G | | 1.15 | .199 | I |
| | 1043 | 08/06/93 | 0002 | PCI/G | | .983 | .15 | I |
| | 1044 | 08/05/93 | 0001 | PCI/G | | 1.07 | .164 | I |
| | 1044 | 08/06/93 | 0002 | PCI/G | | 1.02 | .21 | I |
| | 1045 | 08/05/93 | 0001 | PCI/G | | .925 | .197 | I |
| | 1045 | 08/06/93 | 0002 | PCI/G | | .944 | .17 | I |
| | 1046 | 07/14/93 | 0001 | PCI/G | | .942 | .1 | I |
| | 1046 | 07/14/93 | 0002 | PCI/G | | .974 | .16 | I |
| | 1047 | 07/14/93 | 0001 | PCI/G | | .201 | .11 | I |
| | 1047 | 07/14/93 | 0002 | PCI/G | | .958 | .14 | I |
| | 1048 | 07/14/93 | 0001 | PCI/G | | .853 | .11 | I |
| | 1048 | 07/14/93 | 0002 | PCI/G | | .841 | .17 | I |
| STRONTIUM-90 | 1001 | 08/01/93 | 0001 | PCI/G | U | .31 | .31 | I |
| | 1001 | 08/01/93 | 0002 | PCI/G | U | .33 | .33 | I |
| | 1002 | 08/01/93 | 0001 | PCI/G | U | .35 | .35 | I |
| | 1002 | 08/01/93 | 0002 | PCI/G | U | .34 | .34 | I |
| | 1003 | 08/01/93 | 0001 | PCI/G | U | .35 | .35 | I |
| | 1003 | 08/01/93 | 0002 | PCI/G | U | .39 | .39 | I |
| | 1003 | 08/01/93 | 1001 | PCI/G | U | .3 | .3 | I |
| | 1004 | 07/15/93 | 0001 | PCI/G | U | .28 | .28 | I |
| | 1004 | 07/15/93 | 0002 | PCI/G | U | .29 | .29 | I |
| | 1005 | 07/16/93 | 0001 | PCI/G | U | .3 | .3 | I |
| | 1005 | 07/16/93 | 0002 | PCI/G | U | .27 | .27 | I |
| | 1005 | 07/16/93 | 1001 | PCI/G | U | .31 | .31 | I |
| | 1006 | 07/16/93 | 0001 | PCI/G | U | .26 | .26 | I |
| | 1006 | 07/16/93 | 0002 | PCI/G | U | .3 | .3 | I |
| | 1007 | 08/02/93 | 0001 | PCI/G | | 21.9 | .273 | I |
| | 1007 | 08/02/93 | 0002 | PCI/G | U | .46 | .46 | I |
| | 1008 | 08/02/93 | 0001 | PCI/G | U | .36 | .36 | I |
| | 1008 | 08/02/93 | 0002 | PCI/G | U | .33 | .33 | I |
| | 1009 | 08/02/93 | 0001 | PCI/G | U | .36 | .36 | I |
| | 1009 | 08/02/93 | 0002 | PCI/G | U | .31 | .31 | I |
| | 1009 | 08/02/93 | 1001 | PCI/G | U | .33 | .33 | I |
| | 1009 | 08/02/93 | A002 | STD DEV | | .13 | - | I |
| | 1009 | 08/02/93 | C002 | PCI/G | U | .33 | .33 | I |
| | 1010 | 08/03/93 | 0001 | PCI/G | | 1.13 | .3 | I |
| | 1010 | 08/03/93 | 0002 | PCI/G | | .487 | .34 | I |
| | 1011 | 08/03/93 | 0001 | PCI/G | | .72 | .34 | I |
| | 1011 | 08/03/93 | 0002 | PCI/G | | .595 | .37 | I |
| | 1012 | 08/03/93 | 0001 | PCI/G | | .628 | .36 | I |
| | 1012 | 08/03/93 | 0002 | PCI/G | | .609 | .33 | I |
| | 1013 | 08/03/93 | 0001 | PCI/G | | .426 | .32 | I |
| | 1013 | 08/03/93 | 0002 | PCI/G | | .344 | .3 | I |
| | 1014 | 08/03/93 | 0001 | PCI/G | | .463 | .32 | I |
| | 1014 | 08/03/93 | 0002 | PCI/G | | .347 | .32 | I |
| | 1015 | 08/03/93 | 0001 | PCI/G | | .533 | .32 | I |
| | 1015 | 08/03/93 | 0002 | PCI/G | U | .3 | .3 | I |
| | 1015 | 08/03/93 | 1001 | PCI/G | U | .32 | .32 | I |
| | 1016 | 07/17/93 | 0001 | PCI/G | U | .29 | .29 | I |
| | 1016 | 07/17/93 | 0002 | PCI/G | U | .21 | .21 | I |
| | 1017 | 07/17/93 | 0001 | PCI/G | U | .28 | .28 | I |
| | 1017 | 07/17/93 | 0002 | PCI/G | U | .27 | .27 | I |
| | 1018 | 07/17/93 | 0001 | PCI/G | U | .22 | .22 | I |

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| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| STRONTIUM-90 | 1018 | 07/17/93 | 0002 | PCI/G | U | .22 | .22 | I |
| | 1019 | 07/19/93 | 0001 | PCI/G | U | .28 | .28 | I |
| | 1019 | 07/19/93 | 0002 | PCI/G | U | .28 | .28 | I |
| | 1020 | 07/19/93 | 0001 | PCI/G | U | .27 | .27 | I |
| | 1020 | 07/19/93 | 0002 | PCI/G | U | .33 | .33 | I |
| | 1021 | 07/19/93 | 0001 | PCI/G | | .297 | .174 | I |
| | 1021 | 07/19/93 | 0002 | PCI/G | U | .28 | .28 | I |
| | 1022 | 08/04/93 | 0001 | PCI/G | U | .31 | .31 | I |
| | 1022 | 08/04/93 | 0002 | PCI/G | U | .3 | .3 | I |
| | 1023 | 08/04/93 | 0001 | PCI/G | U | .33 | .33 | I |
| | 1023 | 08/04/93 | 0002 | PCI/G | | .394 | .26 | I |
| | 1024 | 08/04/93 | 0001 | PCI/G | U | .3 | .3 | I |
| | 1024 | 08/04/93 | 0002 | PCI/G | U | .32 | .32 | I |
| | 1025 | 08/04/93 | 0001 | PCI/G | | .358 | .33 | I |
| | 1025 | 08/04/93 | 0002 | PCI/G | U | .29 | .29 | I |
| | 1026 | 08/04/93 | 0001 | PCI/G | U | .3 | .3 | I |
| | 1026 | 08/04/93 | 0002 | PCI/G | U | .29 | .29 | I |
| | 1026 | 08/04/93 | A001 | STD DEV | | .3 | - | I |
| | 1026 | 08/04/93 | C001 | PCI/G | U | .28 | .28 | I |
| | 1027 | 08/04/93 | 0001 | PCI/G | U | .29 | .29 | I |
| | 1027 | 08/04/93 | 0002 | PCI/G | U | .28 | .28 | I |
| | 1027 | 08/04/93 | 1001 | PCI/G | | .338 | .33 | I |
| | 1028 | 08/05/93 | 0001 | PCI/G | U | .3 | .3 | I |
| | 1028 | 08/05/93 | 0002 | PCI/G | U | .31 | .31 | I |
| | 1028 | 08/05/93 | 1002 | PCI/G | U | .3 | .3 | I |
| | 1029 | 08/05/93 | 0001 | PCI/G | U | .29 | .29 | I |
| | 1029 | 08/05/93 | 0002 | PCI/G | U | .31 | .31 | I |
| | 1030 | 08/05/93 | 0001 | PCI/G | U | .3 | .3 | I |
| | 1030 | 08/05/93 | 0002 | PCI/G | U | .3 | .3 | I |
| | 1031 | 07/20/93 | 0001 | PCI/G | | .404 | .295 | I |
| | 1031 | 07/20/93 | 0002 | PCI/G | | .575 | .062 | I |
| | 1032 | 07/20/93 | 0001 | PCI/G | | .394 | .305 | I |
| | 1032 | 07/20/93 | 0002 | PCI/G | | .371 | .3 | I |
| | 1032 | 07/20/93 | 1002 | PCI/G | | .454 | .32 | I |
| | 1032 | 07/20/93 | A002 | STD DEV | | -.02 | - | I |
| | 1032 | 07/20/93 | C002 | PCI/G | | .644 | .313 | I |
| | 1033 | 07/20/93 | 0001 | PCI/G | | .71 | .337 | I |
| | 1033 | 07/20/93 | 0002 | PCI/G | | .583 | .319 | I |
| | 1034 | 08/06/93 | 0001 | PCI/G | | .299 | .29 | I |
| | 1034 | 08/06/93 | 0002 | PCI/G | U | .29 | .29 | I |
| | 1035 | 08/06/93 | 0001 | PCI/G | U | .32 | .32 | I |
| | 1035 | 08/06/93 | 0002 | PCI/G | U | .3 | .3 | I |
| | 1035 | 08/06/93 | A001 | STD DEV | | -.57 | - | I |
| | 1035 | 08/06/93 | C001 | PCI/G | U | .29 | .29 | I |
| | 1036 | 08/06/93 | 0001 | PCI/G | U | .31 | .31 | I |
| | 1036 | 08/06/93 | 0002 | PCI/G | U | .3 | .3 | I |
| | 1036 | 08/06/93 | 1001 | PCI/G | U | .29 | .29 | I |
| | 1037 | 07/18/93 | 0001 | PCI/G | U | .33 | .33 | I |
| | 1037 | 07/18/93 | 0002 | PCI/G | U | .36 | .36 | I |
| | 1038 | 07/18/93 | 0001 | PCI/G | | .525 | .322 | I |
| | 1038 | 07/18/93 | 0002 | PCI/G | | .621 | .338 | I |
| | 1038 | 07/18/93 | 1002 | PCI/G | U | .36 | .36 | I |
| | 1039 | 07/18/93 | 0001 | PCI/G | | .416 | .336 | I |
| | 1039 | 07/18/93 | 0002 | PCI/G | U | .35 | .35 | I |
| | 1040 | 07/18/93 | 0001 | PCI/G | | .397 | .34 | I |
| | 1040 | 07/18/93 | 0002 | PCI/G | | .377 | .32 | I |
| | 1040 | 07/18/93 | 1001 | PCI/G | U | .32 | .32 | I |
| | 1040 | 07/18/93 | A001 | STD DEV | | .47 | - | I |
| | 1040 | 07/18/93 | C001 | PCI/G | | .383 | .32 | I |
| | 1041 | 07/18/93 | 0001 | PCI/G | | .507 | .32 | I |
| | 1041 | 07/18/93 | 0002 | PCI/G | | .39 | .32 | I |
| | 1042 | 07/18/93 | 0001 | PCI/G | U | .32 | .32 | I |

SOIL CHEMISTRY VALIDATED DATA
RADIONUCLIDES
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| STRONTIUM-90 | 1042 | 07/18/93 | 0002 | PCI/G | U | .33 | .33 | I |
| | 1043 | 08/05/93 | 0001 | PCI/G | U | .36 | .36 | I |
| | 1043 | 08/06/93 | 0002 | PCI/G | U | .29 | .29 | I |
| | 1044 | 08/05/93 | 0001 | PCI/G | U | .32 | .32 | I |
| | 1044 | 08/06/93 | 0002 | PCI/G | U | .3 | .3 | I |
| | 1045 | 08/05/93 | 0001 | PCI/G | U | .32 | .32 | I |
| | 1045 | 08/06/93 | 0002 | PCI/G | U | .29 | .29 | I |
| | 1046 | 07/14/93 | 0001 | PCI/G | | .476 | .4 | I |
| | 1046 | 07/14/93 | 0002 | PCI/G | | .397 | .3 | I |
| | 1047 | 07/14/93 | 0001 | PCI/G | U | .3 | .3 | I |
| | 1047 | 07/14/93 | 0002 | PCI/G | U | .38 | .38 | I |
| | 1048 | 07/14/93 | 0001 | PCI/G | | .517 | .4 | I |
| | 1048 | 07/14/93 | 0002 | PCI/G | U | .39 | .39 | I |
| THORIUM-228 | 1001 | 08/01/93 | 0001 | PCI/G | | 1.17 | .139 | I |
| | 1001 | 08/01/93 | 0002 | PCI/G | | .837 | .098 | I |
| | 1002 | 08/01/93 | 0001 | PCI/G | | 1.03 | .123 | I |
| | 1002 | 08/01/93 | 0002 | PCI/G | | 1.29 | .148 | I |
| | 1003 | 08/01/93 | 0001 | PCI/G | | 1.05 | .126 | I |
| | 1003 | 08/01/93 | 0002 | PCI/G | | 1.27 | .119 | I |
| | 1003 | 08/01/93 | 1001 | PCI/G | | 1.12 | .087 | I |
| | 1004 | 07/15/93 | 0001 | PCI/G | | 1.14 | .217 | I |
| | 1004 | 07/15/93 | 0002 | PCI/G | | .972 | .127 | I |
| | 1005 | 07/16/93 | 0001 | PCI/G | | 1.09 | .285 | I |
| | 1005 | 07/16/93 | 0002 | PCI/G | | 1.34 | .515 | I |
| | 1005 | 07/16/93 | 1001 | PCI/G | | .824 | .424 | I |
| | 1006 | 07/16/93 | 0001 | PCI/G | | 1.45 | .422 | I |
| | 1006 | 07/16/93 | 0002 | PCI/G | | 1.38 | .355 | I |
| | 1007 | 08/02/93 | 0001 | PCI/G | | 1.03 | .147 | I |
| | 1007 | 08/02/93 | 0002 | PCI/G | | 1.37 | .113 | I |
| | 1008 | 08/02/93 | 0001 | PCI/G | | 1.41 | .184 | I |
| | 1008 | 08/02/93 | 0002 | PCI/G | | 1.41 | .052 | I |
| | 1009 | 08/02/93 | 0001 | PCI/G | | 1.14 | .099 | I |
| | 1009 | 08/02/93 | 0002 | PCI/G | | .982 | .128 | I |
| | 1009 | 08/02/93 | 1001 | PCI/G | | 1.05 | .079 | I |
| | 1009 | 08/02/93 | C002 | PCI/G | | 1.09 | .101 | I |
| | 1010 | 08/03/93 | 0001 | PCI/G | | 1.04 | .081 | I |
| | 1010 | 08/03/93 | 0002 | PCI/G | | 1.24 | .15 | I |
| | 1011 | 08/03/93 | 0001 | PCI/G | | .811 | .098 | I |
| | 1011 | 08/03/93 | 0002 | PCI/G | | 1.28 | .099 | I |
| | 1012 | 08/03/93 | 0001 | PCI/G | | .767 | .085 | I |
| | 1012 | 08/03/93 | 0002 | PCI/G | | 1.39 | .17 | I |
| | 1013 | 08/03/93 | 0001 | PCI/G | | .813 | .11 | I |
| | 1013 | 08/03/93 | 0002 | PCI/G | | .714 | .11 | I |
| | 1014 | 08/03/93 | 0001 | PCI/G | | .83 | .12 | I |
| | 1014 | 08/03/93 | 0002 | PCI/G | | .693 | .096 | I |
| | 1015 | 08/03/93 | 0001 | PCI/G | | .817 | .11 | I |
| | 1015 | 08/03/93 | 0002 | PCI/G | | .719 | .11 | I |
| | 1015 | 08/03/93 | 1001 | PCI/G | | .787 | .086 | I |
| | 1016 | 07/17/93 | 0001 | PCI/G | | .619 | .056 | I |
| | 1016 | 07/17/93 | 0002 | PCI/G | | .665 | .056 | I |
| | 1017 | 07/17/93 | 0001 | PCI/G | | .504 | .089 | I |
| | 1017 | 07/17/93 | 0002 | PCI/G | | .505 | .073 | I |
| | 1018 | 07/17/93 | 0001 | PCI/G | | .618 | .087 | I |
| | 1018 | 07/17/93 | 0002 | PCI/G | | .585 | .098 | I |
| | 1019 | 07/19/93 | 0001 | PCI/G | | .822 | .247 | I |
| | 1019 | 07/19/93 | 0002 | PCI/G | | .866 | .282 | I |
| | 1020 | 07/19/93 | 0001 | PCI/G | | 1.05 | .25 | I |
| | 1020 | 07/19/93 | 0002 | PCI/G | | 1.1 | .13 | I |
| | 1021 | 07/19/93 | 0001 | PCI/G | | 1.22 | .155 | I |
| | 1021 | 07/19/93 | 0002 | PCI/G | | .744 | .163 | I |
| | 1022 | 08/04/93 | 0001 | PCI/G | | .874 | .1 | I |

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07/14/93 TO 08/06/93
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| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| THORIUM-228 | 1022 | 08/04/93 | 0002 | PCI/G | | .626 | .095 | I |
| | 1023 | 08/04/93 | 0001 | PCI/G | | 1.11 | .092 | I |
| | 1023 | 08/04/93 | 0002 | PCI/G | | .609 | .093 | I |
| | 1024 | 08/04/93 | 0001 | PCI/G | | 1.17 | .1 | I |
| | 1024 | 08/04/93 | 0002 | PCI/G | | .689 | .1 | I |
| | 1025 | 08/04/93 | 0001 | PCI/G | | .816 | .066 | I |
| | 1025 | 08/04/93 | 0002 | PCI/G | | .596 | .086 | I |
| | 1026 | 08/04/93 | 0001 | PCI/G | | .678 | .079 | I |
| | 1026 | 08/04/93 | 0002 | PCI/G | | .538 | .15 | I |
| | 1026 | 08/04/93 | C001 | PCI/G | | .939 | .078 | I |
| | 1027 | 08/04/93 | 0001 | PCI/G | | 1.33 | .56 | I |
| | 1027 | 08/04/93 | 0002 | PCI/G | | .683 | .16 | I |
| | 1027 | 08/04/93 | 1001 | PCI/G | | .95 | .081 | I |
| | 1028 | 08/05/93 | 0001 | PCI/G | | .959 | .099 | I |
| | 1028 | 08/05/93 | 0002 | PCI/G | | .653 | .095 | I |
| | 1028 | 08/05/93 | 1002 | PCI/G | | .754 | .304 | I |
| | 1029 | 08/05/93 | 0001 | PCI/G | | .984 | .144 | I |
| | 1029 | 08/05/93 | 0002 | PCI/G | | .824 | .179 | I |
| | 1030 | 08/05/93 | 0001 | PCI/G | | .799 | .102 | I |
| | 1030 | 08/05/93 | 0002 | PCI/G | | .609 | .087 | I |
| | 1031 | 07/20/93 | 0001 | PCI/G | | .954 | .098 | I |
| | 1031 | 07/20/93 | 0002 | PCI/G | | 1.1 | .104 | I |
| | 1032 | 07/20/93 | 0001 | PCI/G | | .776 | .076 | I |
| | 1032 | 07/20/93 | 0002 | PCI/G | | 1.19 | .08 | I |
| | 1032 | 07/20/93 | 1002 | PCI/G | | .894 | .29 | I |
| | 1032 | 07/20/93 | C002 | PCI/G | | 1.39 | .083 | I |
| | 1033 | 07/20/93 | 0001 | PCI/G | | .814 | .086 | I |
| | 1033 | 07/20/93 | 0002 | PCI/G | | 1.04 | .208 | I |
| | 1034 | 08/06/93 | 0001 | PCI/G | | 1.06 | .12 | I |
| | 1034 | 08/06/93 | 0002 | PCI/G | U | .148 | .148 | I |
| | 1035 | 08/06/93 | 0001 | PCI/G | | 2.13 | .12 | I |
| | 1035 | 08/06/93 | 0002 | PCI/G | | 1.22 | .11 | I |
| | 1035 | 08/06/93 | C001 | PCI/G | | 1.61 | .15 | I |
| | 1036 | 08/06/93 | 0001 | PCI/G | | .934 | .18 | I |
| | 1036 | 08/06/93 | 0002 | PCI/G | | .966 | .14 | I |
| | 1036 | 08/06/93 | 1001 | PCI/G | | 1.01 | .11 | I |
| | 1037 | 07/18/93 | 0001 | PCI/G | | .97 | .079 | I |
| | 1037 | 07/18/93 | 0002 | PCI/G | | 1.01 | .15 | I |
| | 1038 | 07/18/93 | 0001 | PCI/G | | 1.11 | .1 | I |
| | 1038 | 07/18/93 | 0002 | PCI/G | | .985 | .13 | I |
| | 1038 | 07/18/93 | 1002 | PCI/G | | 1.03 | .1 | I |
| | 1039 | 07/18/93 | 0001 | PCI/G | | .871 | .1 | I |
| | 1039 | 07/18/93 | 0002 | PCI/G | | 1.15 | .11 | I |
| | 1040 | 07/18/93 | 0001 | PCI/G | | 1.06 | .12 | I |
| | 1040 | 07/18/93 | 0002 | PCI/G | | 1.08 | .086 | I |
| | 1040 | 07/18/93 | 1001 | PCI/G | | 1.24 | .094 | I |
| | 1040 | 07/18/93 | C001 | PCI/G | | 1.24 | .12 | I |
| | 1041 | 07/18/93 | 0001 | PCI/G | | 1.11 | .1 | I |
| | 1041 | 07/18/93 | 0002 | PCI/G | | 1.3 | .097 | I |
| | 1042 | 07/18/93 | 0001 | PCI/G | | 1.27 | .091 | I |
| | 1042 | 07/18/93 | 0002 | PCI/G | | .979 | .069 | I |
| | 1043 | 08/05/93 | 0001 | PCI/G | | 1.19 | .13 | I |
| | 1043 | 08/06/93 | 0002 | PCI/G | | .908 | .14 | I |
| | 1044 | 08/05/93 | 0001 | PCI/G | | 1.06 | .191 | I |
| | 1044 | 08/06/93 | 0002 | PCI/G | | 1.62 | .18 | I |
| | 1045 | 08/05/93 | 0001 | PCI/G | | 1.15 | .124 | I |
| | 1045 | 08/06/93 | 0002 | PCI/G | | 1.05 | .22 | I |
| | 1046 | 07/14/93 | 0001 | PCI/G | | .659 | .083 | I |
| | 1046 | 07/14/93 | 0002 | PCI/G | | .671 | .064 | I |
| | 1047 | 07/14/93 | 0001 | PCI/G | | .541 | .077 | I |
| | 1047 | 07/14/93 | 0002 | PCI/G | | .45 | .082 | I |
| | 1048 | 07/14/93 | 0001 | PCI/G | | .697 | .089 | I |

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07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| THORIUM-228 | 1048 | 07/14/93 | 0002 | PCI/G | | .528 | .077 | I |
| THORIUM-230 | 1001 | 08/01/93 | 0001 | PCI/G | | 1.39 | .084 | I |
| | 1001 | 08/01/93 | 0002 | PCI/G | | 1.82 | .029 | I |
| | 1002 | 08/01/93 | 0001 | PCI/G | | 1.95 | .091 | I |
| | 1002 | 08/01/93 | 0002 | PCI/G | | 2.26 | .103 | I |
| | 1003 | 08/01/93 | 0001 | PCI/G | | 1.93 | .083 | I |
| | 1003 | 08/01/93 | 0002 | PCI/G | | 2.08 | .097 | I |
| | 1003 | 08/01/93 | 1001 | PCI/G | | 1.69 | .068 | I |
| | 1004 | 07/15/93 | 0001 | PCI/G | | 1.14 | .218 | I |
| | 1004 | 07/15/93 | 0002 | PCI/G | | .707 | .142 | I |
| | 1005 | 07/16/93 | 0001 | PCI/G | | 1.25 | .19 | I |
| | 1005 | 07/16/93 | 0002 | PCI/G | | 1.06 | .278 | I |
| | 1005 | 07/16/93 | 1001 | PCI/G | | 1.07 | .099 | I |
| | 1006 | 07/16/93 | 0001 | PCI/G | | 1.06 | .312 | I |
| | 1006 | 07/16/93 | 0002 | PCI/G | | 1.09 | .308 | I |
| | 1007 | 08/02/93 | 0001 | PCI/G | | 1.19 | .031 | I |
| | 1007 | 08/02/93 | 0002 | PCI/G | | 1.36 | .074 | I |
| | 1008 | 08/02/93 | 0001 | PCI/G | | 1.47 | .105 | I |
| | 1008 | 08/02/93 | 0002 | PCI/G | | 1.23 | .064 | I |
| | 1009 | 08/02/93 | 0001 | PCI/G | | 1.47 | .079 | I |
| | 1009 | 08/02/93 | 0002 | PCI/G | | 1.24 | .056 | I |
| | 1009 | 08/02/93 | 1001 | PCI/G | | 1.09 | .07 | I |
| | 1009 | 08/02/93 | C002 | PCI/G | | 1.05 | .026 | I |
| | 1010 | 08/03/93 | 0001 | PCI/G | | 1.59 | .024 | I |
| | 1010 | 08/03/93 | 0002 | PCI/G | | 2.42 | .082 | I |
| | 1011 | 08/03/93 | 0001 | PCI/G | | 2. | .064 | I |
| | 1011 | 08/03/93 | 0002 | PCI/G | | 2.72 | .092 | I |
| | 1012 | 08/03/93 | 0001 | PCI/G | | 1.08 | .022 | I |
| | 1012 | 08/03/93 | 0002 | PCI/G | | 1.63 | .078 | I |
| | 1013 | 08/03/93 | 0001 | PCI/G | | 1.75 | .062 | I |
| | 1013 | 08/03/93 | 0002 | PCI/G | | 1.83 | .063 | I |
| | 1014 | 08/03/93 | 0001 | PCI/G | | 4.43 | .089 | I |
| | 1014 | 08/03/93 | 0002 | PCI/G | | 1.61 | .083 | I |
| | 1015 | 08/03/93 | 0001 | PCI/G | | 1.64 | .03 | I |
| | 1015 | 08/03/93 | 0002 | PCI/G | | 1.46 | .061 | I |
| | 1015 | 08/03/93 | 1001 | PCI/G | | 2.55 | .057 | I |
| | 1016 | 07/17/93 | 0001 | PCI/G | | 1.02 | .042 | I |
| | 1016 | 07/17/93 | 0002 | PCI/G | | 1.17 | .05 | I |
| | 1017 | 07/17/93 | 0001 | PCI/G | | 1.13 | .059 | I |
| | 1017 | 07/17/93 | 0002 | PCI/G | | .977 | .04 | I |
| | 1018 | 07/17/93 | 0001 | PCI/G | | 1.25 | .057 | I |
| | 1018 | 07/17/93 | 0002 | PCI/G | | 1.08 | .063 | I |
| | 1019 | 07/19/93 | 0001 | PCI/G | | 1.01 | .223 | I |
| | 1019 | 07/19/93 | 0002 | PCI/G | | 1.55 | .257 | I |
| | 1020 | 07/19/93 | 0001 | PCI/G | | .96 | .164 | I |
| | 1020 | 07/19/93 | 0002 | PCI/G | | 1.85 | .119 | I |
| | 1021 | 07/19/93 | 0001 | PCI/G | | 1.86 | .071 | I |
| | 1021 | 07/19/93 | 0002 | PCI/G | | .956 | .077 | I |
| | 1022 | 08/04/93 | 0001 | PCI/G | | 1.89 | .03 | I |
| | 1022 | 08/04/93 | 0002 | PCI/G | | 1.59 | .051 | I |
| | 1023 | 08/04/93 | 0001 | PCI/G | | 2.76 | .06 | I |
| | 1023 | 08/04/93 | 0002 | PCI/G | | 1.21 | .086 | I |
| | 1024 | 08/04/93 | 0001 | PCI/G | | 2.26 | .026 | I |
| | 1024 | 08/04/93 | 0002 | PCI/G | | 1.59 | .049 | I |
| | 1025 | 08/04/93 | 0001 | PCI/G | | 2.14 | .048 | I |
| | 1025 | 08/04/93 | 0002 | PCI/G | | 1.73 | .075 | I |
| | 1026 | 08/04/93 | 0001 | PCI/G | | 1.94 | .045 | I |
| | 1026 | 08/04/93 | 0002 | PCI/G | | 1.31 | .08 | I |
| | 1026 | 08/04/93 | C001 | PCI/G | | 2.33 | .051 | I |
| | 1027 | 08/04/93 | 0001 | PCI/G | | 2.55 | .12 | I |
| | 1027 | 08/04/93 | 0002 | PCI/G | | 1.99 | .12 | I |

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SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| THORIUM-230 | 1027 | 08/04/93 | 1001 | PCI/G | | 1.81 | .046 | I |
| | 1028 | 08/05/93 | 0001 | PCI/G | | 3.14 | .092 | I |
| | 1028 | 08/05/93 | 0002 | PCI/G | | 2.27 | .025 | I |
| | 1028 | 08/05/93 | 1002 | PCI/G | | 3.26 | .263 | I |
| | 1029 | 08/05/93 | 0001 | PCI/G | | 2.48 | .068 | I |
| | 1029 | 08/05/93 | 0002 | PCI/G | | 5.14 | .102 | I |
| | 1030 | 08/05/93 | 0001 | PCI/G | | 2.55 | .058 | I |
| | 1030 | 08/05/93 | 0002 | PCI/G | | 2.84 | .063 | I |
| | 1031 | 07/20/93 | 0001 | PCI/G | | 1.4 | .061 | I |
| | 1031 | 07/20/93 | 0002 | PCI/G | | 1.79 | .068 | I |
| | 1032 | 07/20/93 | 0001 | PCI/G | | 1.18 | .041 | I |
| | 1032 | 07/20/93 | 0002 | PCI/G | | 2. | .059 | I |
| | 1032 | 07/20/93 | 1002 | PCI/G | | 2.02 | .079 | I |
| | 1032 | 07/20/93 | C002 | PCI/G | | 1.96 | .026 | I |
| | 1033 | 07/20/93 | 0001 | PCI/G | | 1.22 | .024 | I |
| | 1033 | 07/20/93 | 0002 | PCI/G | | 2.06 | .144 | I |
| | 1034 | 08/06/93 | 0001 | PCI/G | | 2.02 | .076 | I |
| | 1034 | 08/06/93 | 0002 | PCI/G | U | .0797 | .0797 | I |
| | 1035 | 08/06/93 | 0001 | PCI/G | | 2.97 | .084 | I |
| | 1035 | 08/06/93 | 0002 | PCI/G | | 1.65 | .061 | I |
| | 1035 | 08/06/93 | C001 | PCI/G | | 3.1 | .11 | I |
| | 1036 | 08/06/93 | 0001 | PCI/G | | 1.3 | .069 | I |
| | 1036 | 08/06/93 | 0002 | PCI/G | | 1.23 | .035 | I |
| | 1036 | 08/06/93 | 1001 | PCI/G | | 1.46 | .08 | I |
| | 1037 | 07/18/93 | 0001 | PCI/G | | 1.27 | .061 | I |
| | 1037 | 07/18/93 | 0002 | PCI/G | | 1.83 | .11 | I |
| | 1038 | 07/18/93 | 0001 | PCI/G | | 1.3 | .058 | I |
| | 1038 | 07/18/93 | 0002 | PCI/G | | 1.25 | .032 | I |
| | 1038 | 07/18/93 | 1002 | PCI/G | | 1.30 | - | I |
| | 1039 | 07/18/93 | 0001 | PCI/G | | 1.48 | .058 | I |
| | 1039 | 07/18/93 | 0002 | PCI/G | | 1.88 | .067 | I |
| | 1040 | 07/18/93 | 0001 | PCI/G | | 1.31 | .063 | I |
| | 1040 | 07/18/93 | 0002 | PCI/G | | 1.18 | .064 | I |
| | 1040 | 07/18/93 | 1001 | PCI/G | | 1.48 | .03 | I |
| | 1040 | 07/18/93 | C001 | PCI/G | | 1.49 | .081 | I |
| | 1041 | 07/18/93 | 0001 | PCI/G | | 1.13 | .066 | I |
| | 1041 | 07/18/93 | 0002 | PCI/G | | 1.57 | .026 | I |
| | 1042 | 07/18/93 | 0001 | PCI/G | | 1.22 | .025 | I |
| | 1042 | 07/18/93 | 0002 | PCI/G | | 1.45 | .069 | I |
| | 1043 | 08/05/93 | 0001 | PCI/G | | 1.67 | .037 | I |
| | 1043 | 08/06/93 | 0002 | PCI/G | | 1.25 | .09 | I |
| | 1044 | 08/05/93 | 0001 | PCI/G | | 1.85 | .103 | I |
| | 1044 | 08/06/93 | 0002 | PCI/G | | 2.99 | .061 | I |
| | 1045 | 08/05/93 | 0001 | PCI/G | | 1.38 | .082 | I |
| | 1045 | 08/06/93 | 0002 | PCI/G | | 1.69 | .16 | I |
| | 1046 | 07/14/93 | 0001 | PCI/G | | 1.01 | .045 | I |
| | 1046 | 07/14/93 | 0002 | PCI/G | | 1.38 | .039 | I |
| | 1047 | 07/14/93 | 0001 | PCI/G | | 1.41 | .02 | I |
| | 1047 | 07/14/93 | 0002 | PCI/G | | 1.14 | .02 | I |
| | 1048 | 07/14/93 | 0001 | PCI/G | | 1.31 | .042 | I |
| | 1048 | 07/14/93 | 0002 | PCI/G | | 1.02 | .039 | I |
| THORIUM-232 | 1001 | 08/01/93 | 0001 | PCI/G | | 1.19 | .061 | I |
| | 1001 | 08/01/93 | 0002 | PCI/G | | 1. | .06 | I |
| | 1002 | 08/01/93 | 0001 | PCI/G | | 1.13 | .075 | I |
| | 1002 | 08/01/93 | 0002 | PCI/G | | 1.01 | .084 | I |
| | 1003 | 08/01/93 | 0001 | PCI/G | | 1.17 | .083 | I |
| | 1003 | 08/01/93 | 0002 | PCI/G | | 1.23 | .088 | I |
| | 1003 | 08/01/93 | 1001 | PCI/G | | 1.03 | .021 | I |
| | 1004 | 07/15/93 | 0001 | PCI/G | | .902 | .117 | I |
| | 1004 | 07/15/93 | 0002 | PCI/G | | 1.04 | .086 | I |
| | 1005 | 07/16/93 | 0001 | PCI/G | | .918 | .125 | I |

SOIL CHEMISTRY VALIDATED DATA
RADIONUCLIDES
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| THORIUM-232 | 1005 | 07/16/93 | 0002 | PCI/G | | 1.4 | .278 | I |
| | 1005 | 07/16/93 | 1001 | PCI/G | | 1.04 | .253 | I |
| | 1006 | 07/16/93 | 0001 | PCI/G | | 1.37 | .312 | I |
| | 1006 | 07/16/93 | 0002 | PCI/G | | .945 | .308 | I |
| | 1007 | 08/02/93 | 0001 | PCI/G | | 1.06 | .031 | I |
| | 1007 | 08/02/93 | 0002 | PCI/G | | 1.2 | .029 | I |
| | 1008 | 08/02/93 | 0001 | PCI/G | | 1.3 | .041 | I |
| | 1008 | 08/02/93 | 0002 | PCI/G | | 1.19 | .052 | I |
| | 1009 | 08/02/93 | 0001 | PCI/G | | 1.02 | .079 | I |
| | 1009 | 08/02/93 | 0002 | PCI/G | | 1.05 | .056 | I |
| | 1009 | 08/02/93 | 1001 | PCI/G | | 1.09 | .027 | I |
| | 1009 | 08/02/93 | A002 | STD DEV | | .85 | - | I |
| | 1009 | 08/02/93 | C002 | PCI/G | | 1.04 | .026 | I |
| | 1010 | 08/03/93 | 0001 | PCI/G | | .961 | .049 | I |
| | 1010 | 08/03/93 | 0002 | PCI/G | | 1.32 | .081 | I |
| | 1011 | 08/03/93 | 0001 | PCI/G | | .96 | .064 | I |
| | 1011 | 08/03/93 | 0002 | PCI/G | | 1.61 | .073 | I |
| | 1012 | 08/03/93 | 0001 | PCI/G | | .826 | .046 | I |
| | 1012 | 08/03/93 | 0002 | PCI/G | | 1.34 | .078 | I |
| | 1013 | 08/03/93 | 0001 | PCI/G | | .954 | .062 | I |
| | 1013 | 08/03/93 | 0002 | PCI/G | | .49 | .095 | I |
| | 1014 | 08/03/93 | 0001 | PCI/G | | 1.39 | .089 | I |
| | 1014 | 08/03/93 | 0002 | PCI/G | | .711 | .055 | I |
| | 1015 | 08/03/93 | 0001 | PCI/G | | .848 | .062 | I |
| | 1015 | 08/03/93 | 0002 | PCI/G | | .488 | .06 | I |
| | 1015 | 08/03/93 | 1001 | PCI/G | | .878 | .057 | I |
| | 1016 | 07/17/93 | 0001 | PCI/G | | .553 | .042 | I |
| | 1016 | 07/17/93 | 0002 | PCI/G | | .55 | .02 | I |
| | 1017 | 07/17/93 | 0001 | PCI/G | | .499 | .039 | I |
| | 1017 | 07/17/93 | 0002 | PCI/G | | .486 | .039 | I |
| | 1018 | 07/17/93 | 0001 | PCI/G | | .575 | .05 | I |
| | 1018 | 07/17/93 | 0002 | PCI/G | | .568 | .071 | I |
| | 1019 | 07/19/93 | 0001 | PCI/G | | .839 | .147 | I |
| | 1019 | 07/19/93 | 0002 | PCI/G | | .86 | .168 | I |
| | 1020 | 07/19/93 | 0001 | PCI/G | | .777 | .135 | I |
| | 1020 | 07/19/93 | 0002 | PCI/G | | 1.02 | .13 | I |
| | 1021 | 07/19/93 | 0001 | PCI/G | | .887 | .086 | I |
| | 1021 | 07/19/93 | 0002 | PCI/G | | .955 | .076 | I |
| | 1022 | 08/04/93 | 0001 | PCI/G | | .711 | .063 | I |
| | 1022 | 08/04/93 | 0002 | PCI/G | | .502 | .051 | I |
| | 1023 | 08/04/93 | 0001 | PCI/G | | .978 | .06 | I |
| | 1023 | 08/04/93 | 0002 | PCI/G | | .401 | .068 | I |
| | 1024 | 08/04/93 | 0001 | PCI/G | | 1.07 | .055 | I |
| | 1024 | 08/04/93 | 0002 | PCI/G | | .572 | .049 | I |
| | 1025 | 08/04/93 | 0001 | PCI/G | | .889 | .048 | I |
| | 1025 | 08/04/93 | 0002 | PCI/G | | .569 | .049 | I |
| | 1026 | 08/04/93 | 0001 | PCI/G | | .804 | .069 | I |
| | 1026 | 08/04/93 | 0002 | PCI/G | | .487 | .079 | I |
| | 1026 | 08/04/93 | A001 | STD DEV | | .82 | - | I |
| | 1026 | 08/04/93 | C001 | PCI/G | | .885 | .051 | I |
| | 1027 | 08/04/93 | 0001 | PCI/G | | 1.08 | .31 | I |
| | 1027 | 08/04/93 | 0002 | PCI/G | | .61 | .04 | I |
| | 1027 | 08/04/93 | 1001 | PCI/G | | .849 | .046 | I |
| | 1028 | 08/05/93 | 0001 | PCI/G | | .758 | .073 | I |
| | 1028 | 08/05/93 | 0002 | PCI/G | | .593 | .051 | I |
| | 1028 | 08/05/93 | 1002 | PCI/G | | .753 | .173 | I |
| | 1029 | 08/05/93 | 0001 | PCI/G | | .69 | .068 | I |
| | 1029 | 08/05/93 | 0002 | PCI/G | | 1.69 | .102 | I |
| | 1030 | 08/05/93 | 0001 | PCI/G | | .796 | .088 | I |
| | 1030 | 08/05/93 | 0002 | PCI/G | | .706 | .063 | I |
| | 1031 | 07/20/93 | 0001 | PCI/G | | .933 | .05 | I |
| | 1031 | 07/20/93 | 0002 | PCI/G | | 1.35 | .094 | I |

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07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| THORIUM-232 | 1032 | 07/20/93 | 0001 | PCI/G | | .795 | .02 | I |
| | 1032 | 07/20/93 | 0002 | PCI/G | | 1.27 | .059 | I |
| | 1032 | 07/20/93 | 1002 | PCI/G | | .968 | .2 | I |
| | 1032 | 07/20/93 | A002 | STD DEV | | .14 | - | I |
| | 1032 | 07/20/93 | C002 | PCI/G | | 1.22 | .026 | I |
| | 1033 | 07/20/93 | 0001 | PCI/G | | .642 | .024 | I |
| | 1033 | 07/20/93 | 0002 | PCI/G | | 1.09 | .144 | I |
| | 1034 | 08/06/93 | 0001 | PCI/G | | 1.12 | .062 | I |
| | 1034 | 08/06/93 | 0002 | PCI/G | U | .0796 | .0796 | I |
| | 1035 | 08/06/93 | 0001 | PCI/G | | 1.22 | .074 | I |
| | 1035 | 08/06/93 | 0002 | PCI/G | | 1.06 | .029 | I |
| | 1035 | 08/06/93 | A001 | STD DEV | | -1.42 | - | I |
| | 1035 | 08/06/93 | C001 | PCI/G | | 1.25 | .037 | I |
| | 1036 | 08/06/93 | 0001 | PCI/G | | 1.25 | .033 | I |
| | 1036 | 08/06/93 | 0002 | PCI/G | | 1.01 | .035 | I |
| | 1036 | 08/06/93 | 1001 | PCI/G | | 1.04 | .066 | I |
| | 1037 | 07/18/93 | 0001 | PCI/G | | .828 | .037 | I |
| | 1037 | 07/18/93 | 0002 | PCI/G | | .951 | .066 | I |
| | 1038 | 07/18/93 | 0001 | PCI/G | | 1.1 | .028 | I |
| | 1038 | 07/18/93 | 0002 | PCI/G | | 1.06 | .032 | I |
| | 1038 | 07/18/93 | 1002 | PCI/G | | 1.16 | .093 | I |
| | 1039 | 07/18/93 | 0001 | PCI/G | | .842 | .048 | I |
| | 1039 | 07/18/93 | 0002 | PCI/G | | .888 | .055 | I |
| | 1040 | 07/18/93 | 0001 | PCI/G | | 1.19 | .03 | I |
| | 1040 | 07/18/93 | 0002 | PCI/G | | .955 | .064 | I |
| | 1040 | 07/18/93 | 1001 | PCI/G | | 1.27 | .03 | I |
| | 1040 | 07/18/93 | A001 | STD DEV | | .56 | - | I |
| | 1040 | 07/18/93 | C001 | PCI/G | | 1.05 | .081 | I |
| | 1041 | 07/18/93 | 0001 | PCI/G | | 1.36 | .026 | I |
| | 1041 | 07/18/93 | 0002 | PCI/G | | 1.18 | .067 | I |
| | 1042 | 07/18/93 | 0001 | PCI/G | | 1.09 | .025 | I |
| | 1042 | 07/18/93 | 0002 | PCI/G | | 1.27 | .042 | I |
| | 1043 | 08/05/93 | 0001 | PCI/G | | 1.28 | .078 | I |
| | 1043 | 08/06/93 | 0002 | PCI/G | | .931 | .036 | I |
| | 1044 | 08/05/93 | 0001 | PCI/G | | .992 | .103 | I |
| | 1044 | 08/06/93 | 0002 | PCI/G | | 1.25 | .13 | I |
| | 1045 | 08/05/93 | 0001 | PCI/G | | .99 | .082 | I |
| | 1045 | 08/06/93 | 0002 | PCI/G | | 1.11 | .046 | I |
| | 1046 | 07/14/93 | 0001 | PCI/G | | .633 | .021 | I |
| | 1046 | 07/14/93 | 0002 | PCI/G | | .622 | .019 | I |
| | 1047 | 07/14/93 | 0001 | PCI/G | | .629 | .051 | I |
| | 1047 | 07/14/93 | 0002 | PCI/G | | .625 | .042 | I |
| | 1048 | 07/14/93 | 0001 | PCI/G | | .768 | .042 | I |
| | 1048 | 07/14/93 | 0002 | PCI/G | | .679 | .039 | I |
| TRITIUM | 1001 | 08/01/93 | 0001 | PCI/G | | 1.2 | .035 | I |
| | 1001 | 08/01/93 | 0002 | PCI/G | | .108 | .03 | I |
| | 1002 | 08/01/93 | 0001 | PCI/G | U | .033 | .033 | I |
| | 1002 | 08/01/93 | 0002 | PCI/G | U | .028 | .028 | I |
| | 1003 | 08/01/93 | 0001 | PCI/G | | .0829 | .039 | I |
| | 1003 | 08/01/93 | 0002 | PCI/G | | .13 | .034 | I |
| | 1003 | 08/01/93 | 1001 | PCI/G | U | .035 | .035 | I |
| | 1004 | 07/15/93 | 0001 | PCI/G | | .705 | .046 | I |
| | 1004 | 07/15/93 | 0002 | PCI/G | | .0656 | .034 | I |
| | 1005 | 07/16/93 | 0001 | PCI/G | | 1.42 | .055 | I |
| | 1005 | 07/16/93 | 0002 | PCI/G | | .252 | .037 | I |
| | 1005 | 07/16/93 | 1001 | PCI/G | | 1.58 | .052 | I |
| | 1006 | 07/16/93 | 0001 | PCI/G | | .407 | .058 | I |
| | 1006 | 07/16/93 | 0002 | PCI/G | U | .055 | .055 | I |
| | 1007 | 08/02/93 | 0001 | PCI/G | U | .039 | .039 | I |
| | 1007 | 08/02/93 | 0002 | PCI/G | | .276 | .041 | I |
| | 1008 | 08/02/93 | 0001 | PCI/G | | .166 | .042 | I |

SOIL CHEMISTRY VALIDATED DATA
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07/14/93 TO 08/06/93
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| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| TRITIUM | 1008 | 08/02/93 | 0002 | PCI/G | U | .032 | .032 | I |
| | 1009 | 08/02/93 | 0001 | PCI/G | | 8.28 | .039 | I |
| | 1009 | 08/02/93 | 0002 | PCI/G | U | .046 | .046 | I |
| | 1009 | 08/02/93 | 1001 | PCI/G | U | .042 | .042 | I |
| | 1009 | 08/02/93 | A002 | STD DEV | U | -1.05 | - | I |
| | 1009 | 08/02/93 | C002 | PCI/G | U | .055 | .055 | I |
| | 1010 | 08/03/93 | 0001 | PCI/G | | .192 | .016 | I |
| | 1010 | 08/03/93 | 0002 | PCI/G | U | .021 | .021 | I |
| | 1011 | 08/03/93 | 0001 | PCI/G | | .0259 | .015 | I |
| | 1011 | 08/03/93 | 0002 | PCI/G | U | .027 | .027 | I |
| | 1012 | 08/03/93 | 0001 | PCI/G | | .02 | .017 | I |
| | 1012 | 08/03/93 | 0002 | PCI/G | U | .023 | .023 | I |
| | 1013 | 08/03/93 | 0001 | PCI/G | J | .0907 | .024 | I |
| | 1013 | 08/03/93 | 0002 | PCI/G | | .033 | .015 | I |
| | 1014 | 08/03/93 | 0001 | PCI/G | J | 1.39 | .028 | I |
| | 1014 | 08/03/93 | 0002 | PCI/G | U | .012 | .012 | I |
| | 1015 | 08/03/93 | 0001 | PCI/G | | .129 | .017 | I |
| | 1015 | 08/03/93 | 0002 | PCI/G | | .0175 | .014 | I |
| | 1015 | 08/03/93 | 1001 | PCI/G | | .0664 | .017 | I |
| | 1016 | 07/17/93 | 0001 | PCI/G | | .071 | .028 | I |
| | 1016 | 07/17/93 | 0002 | PCI/G | U | .031 | .031 | I |
| | 1017 | 07/17/93 | 0001 | PCI/G | U | .028 | .028 | I |
| | 1017 | 07/17/93 | 0002 | PCI/G | U | .034 | .034 | I |
| | 1018 | 07/17/93 | 0001 | PCI/G | | .0873 | .031 | I |
| | 1018 | 07/17/93 | 0002 | PCI/G | | .0363 | .031 | I |
| | 1019 | 07/19/93 | 0001 | PCI/G | U | .031 | .031 | I |
| | 1019 | 07/19/93 | 0002 | PCI/G | U | .031 | .031 | I |
| | 1020 | 07/19/93 | 0001 | PCI/G | | .0787 | .037 | I |
| | 1020 | 07/19/93 | 0002 | PCI/G | U | .0350 | .0350 | I |
| | 1021 | 07/19/93 | 0001 | PCI/G | J | .134 | .017 | I |
| | 1021 | 07/19/93 | 0002 | PCI/G | U | .031 | .031 | I |
| | 1022 | 08/04/93 | 0001 | PCI/G | J | .161 | .069 | I |
| | 1022 | 08/04/93 | 0002 | PCI/G | U | .048 | .048 | I |
| | 1023 | 08/04/93 | 0001 | PCI/G | | .24 | .045 | I |
| | 1023 | 08/04/93 | 0002 | PCI/G | U | .055 | .055 | I |
| | 1024 | 08/04/93 | 0001 | PCI/G | J | .882 | .041 | I |
| | 1024 | 08/04/93 | 0002 | PCI/G | U | .043 | .043 | I |
| | 1025 | 08/04/93 | 0001 | PCI/G | J | 1.08 | .1 | I |
| | 1025 | 08/04/93 | 0002 | PCI/G | | .0442 | .028 | I |
| | 1026 | 08/04/93 | 0001 | PCI/G | U | .098 | .098 | I |
| | 1026 | 08/04/93 | 0002 | PCI/G | U | .027 | .027 | I |
| | 1027 | 08/04/93 | 0001 | PCI/G | | 1.05 | .042 | I |
| | 1027 | 08/04/93 | 0002 | PCI/G | | .0906 | .031 | I |
| | 1027 | 08/04/93 | 1001 | PCI/G | | .3 | .042 | I |
| | 1028 | 08/05/93 | 0001 | PCI/G | | .222 | .024 | I |
| | 1028 | 08/05/93 | 0002 | PCI/G | U | .016 | .016 | I |
| | 1028 | 08/05/93 | 1002 | PCI/G | U | .025 | .025 | I |
| | 1029 | 08/05/93 | 0001 | PCI/G | | .11 | .022 | I |
| | 1029 | 08/05/93 | 0002 | PCI/G | | .0176 | .014 | I |
| | 1030 | 08/05/93 | 0001 | PCI/G | | .257 | .02 | I |
| | 1030 | 08/05/93 | 0002 | PCI/G | U | .022 | .022 | I |
| | 1031 | 07/20/93 | 0001 | PCI/G | | .0429 | .024 | I |
| | 1031 | 07/20/93 | 0002 | PCI/G | U | .039 | .039 | I |
| | 1032 | 07/20/93 | 0001 | PCI/G | J | .15 | .033 | I |
| | 1032 | 07/20/93 | 0002 | PCI/G | U | .039 | .039 | I |
| | 1032 | 07/20/93 | 1002 | PCI/G | U | .044 | .044 | I |
| | 1032 | 07/20/93 | A002 | STD DEV | | -.47 | - | I |
| | 1032 | 07/20/93 | C002 | PCI/G | U | .035 | .035 | I |
| | 1033 | 07/20/93 | 0001 | PCI/G | J | .683 | .0370 | I |
| | 1033 | 07/20/93 | 0002 | PCI/G | | .106 | .046 | I |
| | 1034 | 08/06/93 | 0001 | PCI/G | | 1.52 | .037 | I |
| | 1034 | 08/06/93 | 0002 | PCI/G | | .113 | .028 | I |

SOIL CHEMISTRY VALIDATED DATA
RADIONUCLIDES
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| TRITIUM | 1035 | 08/06/93 | 0001 | PCI/G | J | 2.44 | .044 | I |
| | 1035 | 08/06/93 | 0002 | PCI/G | | .37 | .026 | I |
| | 1036 | 08/06/93 | 0001 | PCI/G | J | 1.27 | .046 | I |
| | 1036 | 08/06/93 | 0002 | PCI/G | | .0866 | .022 | I |
| | 1036 | 08/06/93 | 1001 | PCI/G | | .0288 | .025 | I |
| | 1037 | 07/18/93 | 0001 | PCI/G | | .274 | .038 | I |
| | 1037 | 07/18/93 | 0002 | PCI/G | | .143 | .027 | I |
| | 1038 | 07/18/93 | 0001 | PCI/G | U | .036 | .036 | I |
| | 1038 | 07/18/93 | 0002 | PCI/G | U | .036 | .036 | I |
| | 1038 | 07/18/93 | 1002 | PCI/G | U | .019 | .019 | I |
| | 1039 | 07/18/93 | 0001 | PCI/G | | .0437 | .042 | I |
| | 1039 | 07/18/93 | 0002 | PCI/G | U | .034 | .034 | I |
| | 1040 | 07/18/93 | 0001 | PCI/G | U | .038 | .038 | I |
| | 1040 | 07/18/93 | 0002 | PCI/G | U | .034 | .034 | I |
| | 1040 | 07/18/93 | 1001 | PCI/G | | .0451 | .038 | I |
| | 1040 | 07/18/93 | A001 | STD DEV | | -.75 | - | I |
| | 1040 | 07/18/93 | C001 | PCI/G | U | .034 | .034 | I |
| | 1041 | 07/18/93 | 0001 | PCI/G | U | .042 | .042 | I |
| | 1041 | 07/18/93 | 0002 | PCI/G | | .0591 | .038 | I |
| | 1042 | 07/18/93 | 0001 | PCI/G | | .127 | .034 | I |
| | 1042 | 07/18/93 | 0002 | PCI/G | | .0458 | .036 | I |
| | 1043 | 08/05/93 | 0001 | PCI/G | | .653 | .047 | I |
| | 1043 | 08/06/93 | 0002 | PCI/G | | .0508 | .026 | I |
| | 1044 | 08/05/93 | 0001 | PCI/G | | .0858 | .024 | I |
| | 1044 | 08/06/93 | 0002 | PCI/G | J | .385 | .043 | I |
| | 1045 | 08/05/93 | 0001 | PCI/G | | .46 | .034 | I |
| | 1045 | 08/06/93 | 0002 | PCI/G | U | .023 | .023 | I |
| | 1046 | 07/14/93 | 0001 | PCI/G | | .488 | .027 | I |
| | 1046 | 07/14/93 | 0002 | PCI/G | | .209 | .03 | I |
| | 1047 | 07/14/93 | 0001 | PCI/G | | .0337 | .028 | I |
| | 1047 | 07/14/93 | 0002 | PCI/G | U | .033 | .033 | I |
| | 1048 | 07/14/93 | 0001 | PCI/G | | .284 | .029 | I |
| | 1048 | 07/14/93 | 0002 | PCI/G | U | .033 | .033 | I |
| URANIUM-234 | 1001 | 08/01/93 | 0001 | PCI/G | | .901 | .094 | I |
| | 1001 | 08/01/93 | 0002 | PCI/G | | .912 | .056 | I |
| | 1002 | 08/01/93 | 0001 | PCI/G | | .8 | .075 | I |
| | 1002 | 08/01/93 | 0002 | PCI/G | | .859 | .068 | I |
| | 1003 | 08/01/93 | 0001 | PCI/G | | .928 | .115 | I |
| | 1003 | 08/01/93 | 0002 | PCI/G | | .962 | .074 | I |
| | 1003 | 08/01/93 | 1001 | PCI/G | | 1.01 | .13 | I |
| | 1004 | 07/15/93 | 0001 | PCI/G | | .673 | .125 | I |
| | 1004 | 07/15/93 | 0002 | PCI/G | | .813 | .194 | I |
| | 1005 | 07/16/93 | 0001 | PCI/G | | .713 | .059 | I |
| | 1005 | 07/16/93 | 0002 | PCI/G | | .675 | .096 | I |
| | 1005 | 07/16/93 | 1001 | PCI/G | | .718 | .068 | I |
| | 1006 | 07/16/93 | 0001 | PCI/G | | .912 | .065 | I |
| | 1006 | 07/16/93 | 0002 | PCI/G | | .664 | .062 | I |
| | 1007 | 08/02/93 | 0001 | PCI/G | | .805 | .029 | I |
| | 1007 | 08/02/93 | 0002 | PCI/G | | .843 | .097 | I |
| | 1008 | 08/02/93 | 0001 | PCI/G | | .537 | .069 | I |
| | 1008 | 08/02/93 | 0002 | PCI/G | | .936 | .084 | I |
| | 1009 | 08/02/93 | 0001 | PCI/G | | .663 | .08 | I |
| | 1009 | 08/02/93 | 0002 | PCI/G | | .742 | .058 | I |
| | 1009 | 08/02/93 | 1001 | PCI/G | | .741 | .063 | I |
| | 1009 | 08/02/93 | C002 | PCI/G | | .758 | .03 | I |
| | 1010 | 08/03/93 | 0001 | PCI/G | | 1.04 | .076 | I |
| | 1010 | 08/03/93 | 0002 | PCI/G | | .972 | .075 | I |
| | 1011 | 08/03/93 | 0001 | PCI/G | | .829 | .13 | I |
| | 1011 | 08/03/93 | 0002 | PCI/G | | .848 | .025 | I |
| | 1012 | 08/03/93 | 0001 | PCI/G | | .862 | .066 | I |
| | 1012 | 08/03/93 | 0002 | PCI/G | | .98 | .065 | I |

SOIL CHEMISTRY VALIDATED DATA
RADIONUCLIDES
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| URANIUM-234 | 1013 | 08/03/93 | 0001 | PCI/G | | .876 | .073 | I |
| | 1013 | 08/03/93 | 0002 | PCI/G | | .765 | .052 | I |
| | 1014 | 08/03/93 | 0001 | PCI/G | | .563 | .092 | I |
| | 1014 | 08/03/93 | 0002 | PCI/G | | .88 | .027 | I |
| | 1015 | 08/03/93 | 0001 | PCI/G | | .788 | .061 | I |
| | 1015 | 08/03/93 | 0002 | PCI/G | | .864 | .11 | I |
| | 1015 | 08/03/93 | 1001 | PCI/G | | .641 | .13 | I |
| | 1016 | 07/17/93 | 0001 | PCI/G | | .701 | .056 | I |
| | 1016 | 07/17/93 | 0002 | PCI/G | | .591 | .05 | I |
| | 1017 | 07/17/93 | 0001 | PCI/G | | .594 | .058 | I |
| | 1017 | 07/17/93 | 0002 | PCI/G | | .559 | .081 | I |
| | 1018 | 07/17/93 | 0001 | PCI/G | | .836 | .064 | I |
| | 1018 | 07/17/93 | 0002 | PCI/G | | .663 | .066 | I |
| | 1019 | 07/19/93 | 0001 | PCI/G | | .645 | .11 | I |
| | 1019 | 07/19/93 | 0002 | PCI/G | | 1.14 | .127 | I |
| | 1020 | 07/19/93 | 0001 | PCI/G | | .651 | .089 | I |
| | 1020 | 07/19/93 | 0002 | PCI/G | | 1.07 | .1 | I |
| | 1021 | 07/19/93 | 0001 | PCI/G | | 1.08 | .159 | I |
| | 1021 | 07/19/93 | 0002 | PCI/G | | .794 | .067 | I |
| | 1022 | 08/04/93 | 0001 | PCI/G | | .988 | .076 | I |
| | 1022 | 08/04/93 | 0002 | PCI/G | | 1.05 | .068 | I |
| | 1023 | 08/04/93 | 0001 | PCI/G | | .948 | .075 | I |
| | 1023 | 08/04/93 | 0002 | PCI/G | | .745 | .08 | I |
| | 1024 | 08/04/93 | 0001 | PCI/G | | 1.12 | .039 | I |
| | 1024 | 08/04/93 | 0002 | PCI/G | | .864 | .053 | I |
| | 1025 | 08/04/93 | 0001 | PCI/G | | 1.01 | .085 | I |
| | 1025 | 08/04/93 | 0002 | PCI/G | | .89 | .09 | I |
| | 1026 | 08/04/93 | 0001 | PCI/G | | 1.16 | .065 | I |
| | 1026 | 08/04/93 | 0002 | PCI/G | | 1.07 | .057 | I |
| | 1026 | 08/04/93 | C001 | PCI/G | | 1.08 | .081 | I |
| | 1027 | 08/04/93 | 0001 | PCI/G | | 1.15 | .096 | I |
| | 1027 | 08/04/93 | 0002 | PCI/G | | .804 | .19 | I |
| | 1027 | 08/04/93 | 1001 | PCI/G | | 1.07 | .054 | I |
| | 1028 | 08/05/93 | 0001 | PCI/G | | .737 | .059 | I |
| | 1028 | 08/05/93 | 0002 | PCI/G | | .784 | .011 | I |
| | 1028 | 08/05/93 | 1002 | PCI/G | | .799 | .094 | I |
| | 1029 | 08/05/93 | 0001 | PCI/G | | .692 | .055 | I |
| | 1029 | 08/05/93 | 0002 | PCI/G | | .998 | .073 | I |
| | 1030 | 08/05/93 | 0001 | PCI/G | | .897 | .082 | I |
| | 1030 | 08/05/93 | 0002 | PCI/G | | .971 | .06 | I |
| | 1031 | 07/20/93 | 0001 | PCI/G | | .824 | .067 | I |
| | 1031 | 07/20/93 | 0002 | PCI/G | | .922 | .083 | I |
| | 1032 | 07/20/93 | 0001 | PCI/G | | .919 | .052 | I |
| | 1032 | 07/20/93 | 0002 | PCI/G | | 1.05 | .058 | I |
| | 1032 | 07/20/93 | 1002 | PCI/G | | .874 | .058 | I |
| | 1032 | 07/20/93 | C002 | PCI/G | | .984 | .056 | I |
| | 1033 | 07/20/93 | 0001 | PCI/G | | .779 | .085 | I |
| | 1033 | 07/20/93 | 0002 | PCI/G | | .927 | .081 | I |
| | 1034 | 08/06/93 | 0001 | PCI/G | | .73 | .069 | I |
| | 1034 | 08/06/93 | 0002 | PCI/G | | 1.06 | .066 | I |
| | 1035 | 08/06/93 | 0001 | PCI/G | | .731 | .066 | I |
| | 1035 | 08/06/93 | 0002 | PCI/G | | .806 | .085 | I |
| | 1035 | 08/06/93 | C001 | PCI/G | | 1.35 | .069 | I |
| | 1036 | 08/06/93 | 0001 | PCI/G | | .713 | .026 | I |
| | 1036 | 08/06/93 | 0002 | PCI/G | | .699 | .051 | I |
| | 1036 | 08/06/93 | 1001 | PCI/G | | .882 | .053 | I |
| | 1037 | 07/18/93 | 0001 | PCI/G | | .768 | .078 | I |
| | 1037 | 07/18/93 | 0002 | PCI/G | | .571 | .091 | I |
| | 1038 | 07/18/93 | 0001 | PCI/G | | .728 | .08 | I |
| | 1038 | 07/18/93 | 0002 | PCI/G | | .575 | .041 | I |
| | 1038 | 07/18/93 | 1002 | PCI/G | | .667 | .046 | I |
| | 1039 | 07/18/93 | 0001 | PCI/G | | .82 | .056 | I |

SOIL CHEMISTRY VALIDATED DATA
RADIONUCLIDES
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| URANIUM-234 | 1039 | 07/18/93 | 0002 | PCI/G | | .734 | .054 | I |
| | 1040 | 07/18/93 | 0001 | PCI/G | | .716 | .023 | I |
| | 1040 | 07/18/93 | 0002 | PCI/G | | .717 | .059 | I |
| | 1040 | 07/18/93 | 1001 | PCI/G | | .761 | .025 | I |
| | 1040 | 07/18/93 | C001 | PCI/G | | .78 | .061 | I |
| | 1041 | 07/18/93 | 0001 | PCI/G | | .649 | .057 | I |
| | 1041 | 07/18/93 | 0002 | PCI/G | | .675 | .025 | I |
| | 1042 | 07/18/93 | 0001 | PCI/G | | .763 | .024 | I |
| | 1042 | 07/18/93 | 0002 | PCI/G | | .834 | .083 | I |
| | 1043 | 08/05/93 | 0001 | PCI/G | | .74 | .091 | I |
| | 1043 | 08/06/93 | 0002 | PCI/G | | .737 | .079 | I |
| | 1044 | 08/05/93 | 0001 | PCI/G | | .735 | .1 | I |
| | 1044 | 08/06/93 | 0002 | PCI/G | | .848 | .029 | I |
| | 1045 | 08/05/93 | 0001 | PCI/G | | 1. | .087 | I |
| | 1045 | 08/06/93 | 0002 | PCI/G | | .674 | .057 | I |
| | 1046 | 07/14/93 | 0001 | PCI/G | | .684 | .091 | I |
| | 1046 | 07/14/93 | 0002 | PCI/G | | 1.03 | .072 | I |
| | 1047 | 07/14/93 | 0001 | PCI/G | | .794 | .072 | I |
| | 1047 | 07/14/93 | 0002 | PCI/G | | .692 | .048 | I |
| | 1048 | 07/14/93 | 0001 | PCI/G | | .756 | .054 | I |
| | 1048 | 07/14/93 | 0002 | PCI/G | | .663 | .052 | I |
| URANIUM-235/236 | 1001 | 08/01/93 | 0001 | PCI/G | | .0876 | .034 | I |
| | 1001 | 08/01/93 | 0002 | PCI/G | U | .07 | .07 | I |
| | 1002 | 08/01/93 | 0001 | PCI/G | U | .093 | .093 | I |
| | 1002 | 08/01/93 | 0002 | PCI/G | U | .07 | .07 | I |
| | 1003 | 08/01/93 | 0001 | PCI/G | | .0731 | .05 | I |
| | 1003 | 08/01/93 | 0002 | PCI/G | U | .064 | .064 | I |
| | 1003 | 08/01/93 | 1001 | PCI/G | U | .079 | .079 | I |
| | 1004 | 07/15/93 | 0001 | PCI/G | U | .11 | .11 | I |
| | 1004 | 07/15/93 | 0002 | PCI/G | U | .14 | .14 | I |
| | 1005 | 07/16/93 | 0001 | PCI/G | U | .073 | .073 | I |
| | 1005 | 07/16/93 | 0002 | PCI/G | | .0385 | .035 | I |
| | 1005 | 07/16/93 | 1001 | PCI/G | U | .096 | .096 | I |
| | 1006 | 07/16/93 | 0001 | PCI/G | U | .08 | .08 | I |
| | 1006 | 07/16/93 | 0002 | PCI/G | U | .056 | .056 | I |
| | 1007 | 08/02/93 | 0001 | PCI/G | U | .075 | .075 | I |
| | 1007 | 08/02/93 | 0002 | PCI/G | | .042 | .038 | I |
| | 1008 | 08/02/93 | 0001 | PCI/G | U | .071 | .071 | I |
| | 1008 | 08/02/93 | 0002 | PCI/G | | .0933 | .036 | I |
| | 1009 | 08/02/93 | 0001 | PCI/G | U | .072 | .072 | I |
| | 1009 | 08/02/93 | 0002 | PCI/G | | .0416 | .028 | I |
| | 1009 | 08/02/93 | 1001 | PCI/G | | .0789 | .031 | I |
| | 1009 | 08/02/93 | C002 | PCI/G | U | .078 | .078 | I |
| | 1010 | 08/03/93 | 0001 | PCI/G | U | .037 | .037 | I |
| | 1010 | 08/03/93 | 0002 | PCI/G | U | .037 | .037 | I |
| | 1011 | 08/03/93 | 0001 | PCI/G | | .106 | .048 | I |
| | 1011 | 08/03/93 | 0002 | PCI/G | U | .031 | .031 | I |
| | 1012 | 08/03/93 | 0001 | PCI/G | U | .11 | .11 | I |
| | 1012 | 08/03/93 | 0002 | PCI/G | U | .038 | .038 | I |
| | 1013 | 08/03/93 | 0001 | PCI/G | | .0659 | .036 | I |
| | 1013 | 08/03/93 | 0002 | PCI/G | U | .064 | .064 | I |
| | 1014 | 08/03/93 | 0001 | PCI/G | | .0664 | .036 | I |
| | 1014 | 08/03/93 | 0002 | PCI/G | U | .033 | .033 | I |
| | 1015 | 08/03/93 | 0001 | PCI/G | | .0397 | .036 | I |
| | 1015 | 08/03/93 | 0002 | PCI/G | U | .095 | .095 | I |
| | 1015 | 08/03/93 | 1001 | PCI/G | U | .11 | .11 | I |
| | 1016 | 07/17/93 | 0001 | PCI/G | U | .042 | .042 | I |
| | 1016 | 07/17/93 | 0002 | PCI/G | | .027 | .024 | I |
| | 1017 | 07/17/93 | 0001 | PCI/G | U | .041 | .041 | I |
| | 1017 | 07/17/93 | 0002 | PCI/G | U | .057 | .057 | I |
| | 1018 | 07/17/93 | 0001 | PCI/G | U | .065 | .065 | I |

SOIL CHEMISTRY VALIDATED DATA
RADIONUCLIDES
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| URANIUM-235/236 | 1018 | 07/17/93 | 0002 | PCI/G | | .0592 | .032 | I |
| | 1019 | 07/19/93 | 0001 | PCI/G | U | .058 | .058 | I |
| | 1019 | 07/19/93 | 0002 | PCI/G | | .0978 | .093 | I |
| | 1020 | 07/19/93 | 0001 | PCI/G | | .0725 | .054 | I |
| | 1020 | 07/19/93 | 0002 | PCI/G | U | .1 | .1 | I |
| | 1021 | 07/19/93 | 0001 | PCI/G | U | .13 | .13 | I |
| | 1021 | 07/19/93 | 0002 | PCI/G | | .0387 | .026 | I |
| | 1022 | 08/04/93 | 0001 | PCI/G | U | .077 | .077 | I |
| | 1022 | 08/04/93 | 0002 | PCI/G | U | .033 | .033 | I |
| | 1023 | 08/04/93 | 0001 | PCI/G | U | .036 | .036 | I |
| | 1023 | 08/04/93 | 0002 | PCI/G | | .0318 | .029 | I |
| | 1024 | 08/04/93 | 0001 | PCI/G | | .0703 | .048 | I |
| | 1024 | 08/04/93 | 0002 | PCI/G | U | .091 | .091 | I |
| | 1025 | 08/04/93 | 0001 | PCI/G | U | .11 | .1 | I |
| | 1025 | 08/04/93 | 0002 | PCI/G | | .0515 | .035 | I |
| | 1026 | 08/04/93 | 0001 | PCI/G | | .117 | .032 | I |
| | 1026 | 08/04/93 | 0002 | PCI/G | | .0501 | .034 | I |
| | 1026 | 08/04/93 | C001 | PCI/G | | .148 | .072 | I |
| | 1027 | 08/04/93 | 0001 | PCI/G | U | .073 | .073 | I |
| | 1027 | 08/04/93 | 0002 | PCI/G | U | .18 | .18 | I |
| | 1027 | 08/04/93 | 1001 | PCI/G | | .0351 | .032 | I |
| | 1028 | 08/05/93 | 0001 | PCI/G | | .0614 | .053 | I |
| | 1028 | 08/05/93 | 0002 | PCI/G | U | .071 | .071 | I |
| | 1028 | 08/05/93 | 1002 | PCI/G | U | .076 | .076 | I |
| | 1029 | 08/05/93 | 0001 | PCI/G | U | .049 | .049 | I |
| | 1029 | 08/05/93 | 0002 | PCI/G | | .091 | .025 | I |
| | 1030 | 08/05/93 | 0001 | PCI/G | U | .055 | .055 | I |
| | 1030 | 08/05/93 | 0002 | PCI/G | U | .049 | .049 | I |
| | 1031 | 07/20/93 | 0001 | PCI/G | | .0553 | .047 | I |
| | 1031 | 07/20/93 | 0002 | PCI/G | U | .035 | .027 | I |
| | 1032 | 07/20/93 | 0001 | PCI/G | U | .034 | .022 | I |
| | 1032 | 07/20/93 | 0002 | PCI/G | U | .072 | .072 | I |
| | 1032 | 07/20/93 | 1002 | PCI/G | | .0628 | .028 | I |
| | 1032 | 07/20/93 | C002 | PCI/G | | .0587 | .05 | I |
| | 1033 | 07/20/93 | 0001 | PCI/G | | .0567 | .031 | I |
| | 1033 | 07/20/93 | 0002 | PCI/G | U | .051 | .048 | I |
| | 1034 | 08/06/93 | 0001 | PCI/G | U | .07 | .07 | I |
| | 1034 | 08/06/93 | 0002 | PCI/G | | .0831 | .032 | I |
| | 1035 | 08/06/93 | 0001 | PCI/G | | .0593 | .032 | I |
| | 1035 | 08/06/93 | 0002 | PCI/G | | .0453 | .031 | I |
| | 1035 | 08/06/93 | C001 | PCI/G | | .311 | .085 | I |
| | 1036 | 08/06/93 | 0001 | PCI/G | U | .032 | .032 | I |
| | 1036 | 08/06/93 | 0002 | PCI/G | U | .087 | .087 | I |
| | 1036 | 08/06/93 | 1001 | PCI/G | U | .032 | .032 | I |
| | 1037 | 07/18/93 | 0001 | PCI/G | | .0502 | .023 | I |
| | 1037 | 07/18/93 | 0002 | PCI/G | U | .064 | .064 | I |
| | 1038 | 07/18/93 | 0001 | PCI/G | U | .048 | .048 | I |
| | 1038 | 07/18/93 | 0002 | PCI/G | U | .051 | .051 | I |
| | 1038 | 07/18/93 | 1002 | PCI/G | U | .058 | .058 | I |
| | 1039 | 07/18/93 | 0001 | PCI/G | | .0307 | .027 | I |
| | 1039 | 07/18/93 | 0002 | PCI/G | U | .055 | .055 | I |
| | 1040 | 07/18/93 | 0001 | PCI/G | | .0696 | .059 | I |
| | 1040 | 07/18/93 | 0002 | PCI/G | | .064 | .028 | I |
| | 1040 | 07/18/93 | 1001 | PCI/G | | .0471 | .031 | I |
| | 1040 | 07/18/93 | C001 | PCI/G | U | .076 | .076 | I |
| | 1041 | 07/18/93 | 0001 | PCI/G | U | .059 | .059 | I |
| | 1041 | 07/18/93 | 0002 | PCI/G | U | .066 | .066 | I |
| | 1042 | 07/18/93 | 0001 | PCI/G | U | .063 | .063 | I |
| | 1042 | 07/18/93 | 0002 | PCI/G | U | .05 | .05 | I |
| | 1043 | 08/05/93 | 0001 | PCI/G | | .108 | .027 | I |
| | 1043 | 08/06/93 | 0002 | PCI/G | | .068 | .031 | I |
| | 1044 | 08/05/93 | 0001 | PCI/G | U | .068 | .068 | I |

SOIL CHEMISTRY VALIDATED DATA
RADIONUCLIDES
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| URANIUM-235/236 | 1044 | 08/06/93 | 0002 | PCI/G | U | .036 | .036 | I |
| | 1045 | 08/05/93 | 0001 | PCI/G | U | .055 | .055 | I |
| | 1045 | 08/06/93 | 0002 | PCI/G | | .05 | .034 | I |
| | 1046 | 07/14/93 | 0001 | PCI/G | U | .048 | .048 | I |
| | 1046 | 07/14/93 | 0002 | PCI/G | U | .053 | .053 | I |
| | 1047 | 07/14/93 | 0001 | PCI/G | | .0585 | .044 | I |
| | 1047 | 07/14/93 | 0002 | PCI/G | U | .049 | .049 | I |
| | 1048 | 07/14/93 | 0001 | PCI/G | | .0901 | .044 | I |
| | 1048 | 07/14/93 | 0002 | PCI/G | U | .02 | .02 | I |
| URANIUM-238 | 1001 | 08/01/93 | 0001 | PCI/G | | .858 | .057 | I |
| | 1001 | 08/01/93 | 0002 | PCI/G | | .967 | .027 | I |
| | 1002 | 08/01/93 | 0001 | PCI/G | | .788 | .03 | I |
| | 1002 | 08/01/93 | 0002 | PCI/G | | 1.06 | .056 | I |
| | 1003 | 08/01/93 | 0001 | PCI/G | | 1.05 | .084 | I |
| | 1003 | 08/01/93 | 0002 | PCI/G | | 1.13 | .058 | I |
| | 1003 | 08/01/93 | 1001 | PCI/G | | 1.13 | .031 | I |
| | 1004 | 07/15/93 | 0001 | PCI/G | | .791 | .098 | I |
| | 1004 | 07/15/93 | 0002 | PCI/G | | .893 | .111 | I |
| | 1005 | 07/16/93 | 0001 | PCI/G | | .694 | .059 | I |
| | 1005 | 07/16/93 | 0002 | PCI/G | | .725 | .059 | I |
| | 1005 | 07/16/93 | 1001 | PCI/G | | .783 | .056 | I |
| | 1006 | 07/16/93 | 0001 | PCI/G | | .875 | .079 | I |
| | 1006 | 07/16/93 | 0002 | PCI/G | | 1.06 | .045 | I |
| | 1007 | 08/02/93 | 0001 | PCI/G | | .871 | .029 | I |
| | 1007 | 08/02/93 | 0002 | PCI/G | | .727 | .031 | I |
| | 1008 | 08/02/93 | 0001 | PCI/G | | .678 | .027 | I |
| | 1008 | 08/02/93 | 0002 | PCI/G | | .908 | .1 | I |
| | 1009 | 08/02/93 | 0001 | PCI/G | | .843 | .07 | I |
| | 1009 | 08/02/93 | 0002 | PCI/G | | .742 | .023 | I |
| | 1009 | 08/02/93 | 1001 | PCI/G | | .883 | .052 | I |
| | 1009 | 08/02/93 | A002 | STD DEV | | 1.5 | - | I |
| | 1009 | 08/02/93 | C002 | PCI/G | | .871 | .03 | I |
| | 1010 | 08/03/93 | 0001 | PCI/G | | .954 | .062 | I |
| | 1010 | 08/03/93 | 0002 | PCI/G | | 1.01 | .03 | I |
| | 1011 | 08/03/93 | 0001 | PCI/G | | .877 | .098 | I |
| | 1011 | 08/03/93 | 0002 | PCI/G | | 1.29 | .053 | I |
| | 1012 | 08/03/93 | 0001 | PCI/G | | 1.06 | .081 | I |
| | 1012 | 08/03/93 | 0002 | PCI/G | | 1.13 | .065 | I |
| | 1013 | 08/03/93 | 0001 | PCI/G | | .996 | .073 | I |
| | 1013 | 08/03/93 | 0002 | PCI/G | | .913 | .052 | I |
| | 1014 | 08/03/93 | 0001 | PCI/G | | .889 | .061 | I |
| | 1014 | 08/03/93 | 0002 | PCI/G | | .749 | .056 | I |
| | 1015 | 08/03/93 | 0001 | PCI/G | | .79 | .061 | I |
| | 1015 | 08/03/93 | 0002 | PCI/G | | .931 | .077 | I |
| | 1015 | 08/03/93 | 1001 | PCI/G | | .796 | .091 | I |
| | 1016 | 07/17/93 | 0001 | PCI/G | | .675 | .052 | I |
| | 1016 | 07/17/93 | 0002 | PCI/G | | .742 | .057 | I |
| | 1017 | 07/17/93 | 0001 | PCI/G | | .529 | .051 | I |
| | 1017 | 07/17/93 | 0002 | PCI/G | | .67 | .046 | I |
| | 1018 | 07/17/93 | 0001 | PCI/G | | .772 | .064 | I |
| | 1018 | 07/17/93 | 0002 | PCI/G | | .591 | .054 | I |
| | 1019 | 07/19/93 | 0001 | PCI/G | | .668 | .071 | I |
| | 1019 | 07/19/93 | 0002 | PCI/G | | 1.28 | .102 | I |
| | 1020 | 07/19/93 | 0001 | PCI/G | | .738 | .066 | I |
| | 1020 | 07/19/93 | 0002 | PCI/G | | 1.04 | .1 | I |
| | 1021 | 07/19/93 | 0001 | PCI/G | | 1.28 | .172 | I |
| | 1021 | 07/19/93 | 0002 | PCI/G | | .601 | .044 | I |
| | 1022 | 08/04/93 | 0001 | PCI/G | | 1.06 | .076 | I |
| | 1022 | 08/04/93 | 0002 | PCI/G | | 1.17 | .056 | I |
| | 1023 | 08/04/93 | 0001 | PCI/G | | 1.24 | .03 | I |
| | 1023 | 08/04/93 | 0002 | PCI/G | | .765 | .059 | I |

SOIL CHEMISTRY VALIDATED DATA
RADIONUCLIDES
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| URANIUM-238 | 1024 | 08/04/93 | 0001 | PCI/G | | 1.21 | .081 | I |
| | 1024 | 08/04/93 | 0002 | PCI/G | | .918 | .065 | I |
| | 1025 | 08/04/93 | 0001 | PCI/G | | 1.02 | .085 | I |
| | 1025 | 08/04/93 | 0002 | PCI/G | | .977 | .059 | I |
| | 1026 | 08/04/93 | 0001 | PCI/G | | 1.28 | .065 | I |
| | 1026 | 08/04/93 | 0002 | PCI/G | | .889 | .057 | I |
| | 1026 | 08/04/93 | A001 | STD DEV | | 1.78 | - | I |
| | 1026 | 08/04/93 | C001 | PCI/G | | 1.05 | .058 | I |
| | 1027 | 08/04/93 | 0001 | PCI/G | | 1.11 | .059 | I |
| | 1027 | 08/04/93 | 0002 | PCI/G | | .962 | .22 | I |
| | 1027 | 08/04/93 | 1001 | PCI/G | | 1.05 | .054 | I |
| | 1028 | 08/05/93 | 0001 | PCI/G | | .886 | .065 | I |
| | 1028 | 08/05/93 | 0002 | PCI/G | | .772 | .57 | I |
| | 1028 | 08/05/93 | 1002 | PCI/G | | .872 | .073 | I |
| | 1029 | 08/05/93 | 0001 | PCI/G | | .963 | .048 | I |
| | 1029 | 08/05/93 | 0002 | PCI/G | | 1.05 | .051 | I |
| | 1030 | 08/05/93 | 0001 | PCI/G | | .982 | .061 | I |
| | 1030 | 08/05/93 | 0002 | PCI/G | | 1.06 | .054 | I |
| | 1031 | 07/20/93 | 0001 | PCI/G | | .889 | .018 | I |
| | 1031 | 07/20/93 | 0002 | PCI/G | | 1.07 | .062 | I |
| | 1032 | 07/20/93 | 0001 | PCI/G | | 1.01 | .038 | I |
| | 1032 | 07/20/93 | 0002 | PCI/G | | .96 | .02 | I |
| | 1032 | 07/20/93 | 1002 | PCI/G | | .885 | .058 | I |
| | 1032 | 07/20/93 | A002 | STD DEV | | -.07 | - | I |
| | 1032 | 07/20/93 | C002 | PCI/G | | .983 | .062 | I |
| | 1033 | 07/20/93 | 0001 | PCI/G | | .937 | .025 | I |
| | 1033 | 07/20/93 | 0002 | PCI/G | | .877 | .039 | I |
| | 1034 | 08/06/93 | 0001 | PCI/G | | 1.02 | .1 | I |
| | 1034 | 08/06/93 | 0002 | PCI/G | | .843 | .054 | I |
| | 1035 | 08/06/93 | 0001 | PCI/G | | .914 | .026 | I |
| | 1035 | 08/06/93 | 0002 | PCI/G | | .801 | .063 | I |
| | 1035 | 08/06/93 | A001 | STD DEV | | 1.39 | - | I |
| | 1035 | 08/06/93 | C001 | PCI/G | | .975 | .069 | I |
| | 1036 | 08/06/93 | 0001 | PCI/G | | .904 | .055 | I |
| | 1036 | 08/06/93 | 0002 | PCI/G | | .967 | .062 | I |
| | 1036 | 08/06/93 | 1001 | PCI/G | | .922 | .053 | I |
| | 1037 | 07/18/93 | 0001 | PCI/G | | .677 | .053 | I |
| | 1037 | 07/18/93 | 0002 | PCI/G | | .781 | .052 | I |
| | 1038 | 07/18/93 | 0001 | PCI/G | | 1.01 | .04 | I |
| | 1038 | 07/18/93 | 0002 | PCI/G | | .715 | .041 | I |
| | 1038 | 07/18/93 | 1002 | PCI/G | | .713 | .022 | I |
| | 1039 | 07/18/93 | 0001 | PCI/G | | .8 | .046 | I |
| | 1039 | 07/18/93 | 0002 | PCI/G | | .962 | .021 | I |
| | 1040 | 07/18/93 | 0001 | PCI/G | | .761 | .023 | I |
| | 1040 | 07/18/93 | 0002 | PCI/G | | .861 | .048 | I |
| | 1040 | 07/18/93 | 1001 | PCI/G | | 1.01 | .025 | I |
| | 1040 | 07/18/93 | A001 | STD DEV | | .38 | - | I |
| | 1040 | 07/18/93 | C001 | PCI/G | | .842 | .024 | I |
| | 1041 | 07/18/93 | 0001 | PCI/G | | .767 | .022 | I |
| | 1041 | 07/18/93 | 0002 | PCI/G | | .775 | .081 | I |
| | 1042 | 07/18/93 | 0001 | PCI/G | | .799 | .071 | I |
| | 1042 | 07/18/93 | 0002 | PCI/G | | .914 | .062 | I |
| | 1043 | 08/05/93 | 0001 | PCI/G | | .748 | .055 | I |
| | 1043 | 08/06/93 | 0002 | PCI/G | | .905 | .052 | I |
| | 1044 | 08/05/93 | 0001 | PCI/G | | .841 | .055 | I |
| | 1044 | 08/06/93 | 0002 | PCI/G | | 1.09 | .061 | I |
| | 1045 | 08/05/93 | 0001 | PCI/G | | .961 | .054 | I |
| | 1045 | 08/06/93 | 0002 | PCI/G | | .97 | .057 | I |
| | 1046 | 07/14/93 | 0001 | PCI/G | | .806 | .059 | I |
| | 1046 | 07/14/93 | 0002 | PCI/G | | .865 | .058 | I |
| | 1047 | 07/14/93 | 0001 | PCI/G | | .783 | .054 | I |
| | 1047 | 07/14/93 | 0002 | PCI/G | | .729 | .048 | I |

SOIL CHEMISTRY VALIDATED DATA
RADIONUCLIDES
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| URANIUM-238 | 1048 | 07/14/93 | 0001 | PCI/G | | .793 | .058 | I |
| | 1048 | 07/14/93 | 0002 | PCI/G | | .738 | .034 | I |

SOIL CHEMISTRY VALIDATED DATA
ANIONS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| CHLORIDE | 0999 | 07/21/93 | 0006 | MG/KG | J | 28.3 | 2.5 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | J | 48.6 | 2.8 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | J | 67.5 | 2.7 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | J | 32.5 | 2.8 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | J | 72.1 | 2.8 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | J | 107. | 3.0 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | J | 116. | 5.5 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | J | 94.1 | 2.8 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | J | 69.2 | 11.9 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | J | 44.9 | 11.3 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | J | 74.2 | 12.2 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | J | 109. | 12.1 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | J | 98.3 | 12.2 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | J | 45.3 | 12.8 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | J | 63.8 | 12.2 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | J | 53.4 | 2.7 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | J | 58.4 | 2.6 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | J | 84.5 | 2.9 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | J | 57.3 | 2.9 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | J | 58.0 | 2.8 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | J | 31.3 | 2.8 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | J | 55.0 | 2.9 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | J | 38.1 | 2.7 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | J | 63.0 | 2.8 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | J | 42.4 | 2.7 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | J | 94.6 | 2.8 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | J | 62.1 | 2.7 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | J | 49.4 | 2.8 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | J | 55.9 | 2.7 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | J | 48.3 | 2.6 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | J | 51.6 | 2.7 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | J | 38.5 | 2.7 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | J | 45.6 | 2.7 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | J | 34.4 | 2.6 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | J | 43.6 | 2.7 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | J | 37.1 | 11.0 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | J | 37.0 | 11.1 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | J | 44.6 | 11.1 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | J | 42.5 | 11.3 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | J | 36.4 | 11.2 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | J | 44.7 | 11.3 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | J | 40.0 | 2.9 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | J | 27.4 | 2.8 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | J | 29.2 | 2.9 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | J | 32.1 | 3.0 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | J | 26.7 | 2.7 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | J | 23.5 | 2.9 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | J | 56.7 | 2.9 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | J | 31.6 | 3.0 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | J | 30.2 | 2.9 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | J | 31.2 | 2.8 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | J | 40.1 | 2.9 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | J | 47.2 | 3.0 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | J | 51.0 | 2.8 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | J | 42.1 | 2.7 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | J | 38.8 | 2.8 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | J | 39.5 | 2.7 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | J | 40.5 | 2.9 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | J | 30.5 | 2.7 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | J | 40.6 | 2.9 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | J | 14.9 | 2.7 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | J | 40.1 | 2.7 | I |

SOIL CHEMISTRY VALIDATED DATA
ANIONS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| CHLORIDE | 1028 | 08/05/93 | 1002 | MG/KG | J | 34.9 | 2.6 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | J | 43.7 | 2.7 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | J | 35.2 | 2.6 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | J | 47.3 | 2.6 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | J | 39.1 | 2.6 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | J | 22.9 | 2.8 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | J | 49.8 | 3.1 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | J | 38.0 | 2.9 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | J | 46.2 | 3.1 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | J | 36.2 | 3.1 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | J | 68.1 | 2.9 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | J | 71.6 | 3.2 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | J | 33.1 | 2.9 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | J | 97.6 | 2.9 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | J | 30.0 | 2.8 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | J | 18.7 | 2.8 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | J | 14.9 | 2.9 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | J | 56.9 | 2.7 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | J | 42.5 | 2.8 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | J | 53.7 | 3.0 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | J | 37.4 | 2.9 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | J | 38.0 | 3.0 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | J | 42.7 | 3.0 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | J | 46.5 | 3.1 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | J | 47.3 | 3.0 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | J | 41.7 | 2.9 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | J | 61.3 | 12.3 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | J | 37.6 | 12.0 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | J | 7.8 | 12.2 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | J | 43.9 | 3.2 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | J | 50.9 | 3.2 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | J | 53.5 | 3.0 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | J | 39.1 | 3.0 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | J | 47.9 | 2.9 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | J | 49.2 | 2.8 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | J | 50.4 | 2.8 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | J | 70.0 | 2.8 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | J | 62.5 | 2.8 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | J | 69.9 | 2.8 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | J | 41.0 | 11.8 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | J | 35.1 | 11.9 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | J | 40.7 | 11.8 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | J | 37.0 | 12.0 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | J | 53.6 | 11.8 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | J | 31.7 | 12.0 | I |
| FLUORIDE | 0999 | 07/21/93 | 0006 | MG/KG | J | 2.5 | 1.0 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | J | 1.7 | 1.1 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | J | 4.2 | 1.1 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | J | 1.8 | 1.1 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | J | 2.3 | 1.1 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | J | 3.7 | 1.2 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | J | 3.5 | 1.1 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | J | 3.4 | 1.1 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | J | 1.6 | 1.2 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | J | 2.9 | 1.1 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | J | 1.3 | 1.2 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | J | 2.3 | 1.2 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | J | 1.4 | 1.2 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | J | 1.4 | 1.3 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | J | 3.2 | 1.2 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | J | 3.4 | 1.1 | I |

SOIL CHEMISTRY VALIDATED DATA
ANIONS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 1007 | 08/02/93 | 0002 | MG/KG | J | 3.9 | 1.0 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | J | 3.6 | 1.1 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | J | 5.4 | 1.1 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | J | 3.8 | 1.1 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | J | 4.1 | 1.1 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | J | 3.3 | 1.2 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | J | 2.0 | 1.1 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | J | 5.8 | 1.1 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | J | 1.8 | 1.1 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | J | 18.3 | 1.1 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | J | 1.5 | 1.1 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | J | 3.8 | 1.1 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | J | 2.3 | 1.1 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | J | 4.0 | 1.1 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | J | 2.8 | 1.1 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | J | 4.3 | 1.1 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | J | 3.0 | 1.1 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | J | 3.9 | 1.1 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | J | 3.0 | 1.1 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | J | 4.0 | 1.1 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | J | 3.2 | 1.1 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | J | 3.0 | 1.1 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | J | 2.9 | 1.1 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | J | 3.6 | 1.1 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | J | 3.4 | 1.2 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | UJ | 1.2 | 1.2 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | UJ | 1.1 | 1.1 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | UJ | 1.2 | 1.2 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | UJ | 1.2 | 1.2 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | UJ | 1.1 | 1.1 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | UJ | 1.1 | 1.1 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | J | 4.6 | 1.2 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | J | 4.0 | 1.2 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | J | 5.4 | 1.2 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | J | 4.3 | 1.1 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | J | 3.3 | 1.2 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | J | 5.4 | 1.2 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | J | 2.1 | 1.1 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | J | 3.0 | 1.1 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | J | 2.8 | 1.1 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | J | 3.7 | 1.1 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | J | 3.0 | 1.2 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | J | 3.4 | 1.1 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | J | 2.9 | 1.2 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | J | 4.0 | 1.1 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | J | 4.3 | 1.1 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | J | 4.3 | 1.0 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | J | 3.1 | 1.1 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | J | 3.3 | 1.0 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | J | 3.0 | 1.1 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | J | 3.9 | 1.1 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | J | 2.0 | 1.1 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | J | 2.5 | 1.2 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | J | 1.8 | 1.2 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | J | 4.0 | 1.2 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | J | 2.5 | 1.2 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | J | 2.5 | 1.2 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | J | 3.7 | 1.3 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | UJ | 1.1 | 1.1 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | J | 6.0 | 1.1 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | UJ | 1.1 | 1.1 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | UJ | 1.1 | 1.1 | I |

SOIL CHEMISTRY VALIDATED DATA
ANIONS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 1036 | 08/06/93 | 0001 | MG/KG | J | 4.2 | 1.1 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | J | 4.9 | 1.1 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | J | 3.5 | 1.1 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | J | 3.2 | 1.2 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | J | 3.8 | 1.2 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | J | 2.8 | 1.2 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | J | 3.5 | 1.2 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | J | 2.9 | 1.3 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | J | 4.1 | 1.2 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | J | 4.1 | 1.2 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | J | 2.6 | 1.2 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | J | 4.3 | 1.2 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | J | 3.0 | 1.2 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | J | 2.0 | 1.3 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | J | 4.0 | 1.3 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | J | 2.2 | 1.2 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | J | 3.2 | 1.2 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | J | 3.5 | 1.1 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | J | 6.2 | 1.1 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | J | 5.0 | 1.1 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | J | 6.7 | 1.1 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | J | 4.2 | 1.1 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | J | 6.8 | 1.1 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | J | 2.3 | 1.2 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | J | 3.6 | 1.2 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | J | 3.0 | 1.2 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | J | 3.8 | 1.2 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | J | 2.9 | 1.2 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | J | 3.9 | 1.2 | I |
| NITRATE NITRITE | 0999 | 07/21/93 | 0006 | MG/KG | J | 32.6 | 2.0 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | J | 3.1 | 0.22 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | J | 0.90 | 0.22 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | J | 2.2 | 0.22 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | J | 1.4 | 0.23 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | J | 3.3 | 0.24 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | J | 1.6 | 0.22 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | J | 3.6 | 0.23 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | J | 21.9 | 2.4 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | J | 9.1 | 0.23 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | J | 14.8 | 2.4 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | J | 21.2 | 2.4 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | J | 15.6 | 2.4 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | J | 16.8 | 2.6 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | J | 7.8 | 0.24 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | J | 4.4 | 0.22 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | J | 3.9 | 0.20 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | J | 5.9 | 0.23 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | J | 4.5 | 0.23 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | J | 9.2 | 0.22 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | J | 2.3 | 0.23 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | J | 3.9 | 0.23 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | J | 2.4 | 0.22 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | J | 2.4 | 0.22 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | J | 1.8 | 0.21 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | J | 1.9 | 0.23 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | J | 3.1 | 0.22 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | J | 2.1 | 0.22 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | J | 7.1 | 0.22 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | J | 2.2 | 0.21 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | J | 6.1 | 0.22 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | J | 2.0 | 0.21 | I |

SOIL CHEMISTRY VALIDATED DATA
ANIONS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| NITRATE NITRITE | 1015 | 08/03/93 | 0001 | MG/KG | J | 8.0 | 0.22 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | J | 1.5 | 0.21 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | J | 8.2 | 0.22 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | J | 3.9 | 0.22 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | J | 4.8 | 0.22 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | J | 3.4 | 0.22 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | J | 5.5 | 0.22 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | J | 3.2 | 0.22 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | J | 3.9 | 0.22 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | J | 20.0 | 1.2 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | UJ | 2.5 | 0.23 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | J | 21.2 | 2.3 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | UJ | 6.9 | 0.24 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | J | 15.5 | 1.1 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | UJ | 2.5 | 0.23 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | J | 4.9 | 0.23 | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | J | 0.76 | 0.24 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | J | 2.8 | 0.23 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | J | 0.90 | 0.22 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | J | 13.5 | 1.2 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | J | 1.0 | 0.24 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | J | 9.6 | 0.22 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | J | 2.0 | 0.22 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | J | 7.1 | 0.45 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | J | 1.6 | 0.22 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | J | 7.1 | 0.23 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | J | 3.1 | 0.22 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | J | 10.4 | 0.24 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | J | 8.2 | 0.22 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | J | 1.4 | 0.21 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | J | 1.1 | 0.21 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | J | 6.1 | 0.21 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | J | 1.1 | 0.21 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | J | 7.2 | 0.21 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | J | 3.9 | 0.21 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | UJ | 10.5 | 0.22 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | UJ | 1.6 | 0.25 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | UJ | 5.0 | 0.47 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | UJ | 1.0 | 0.25 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | UJ | 0.98 | 0.25 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | J | 25.7 | 2.4 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | J | 1.4 | 0.26 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | J | 5.4 | 0.23 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | J | 1.9 | 0.23 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | J | 4.5 | 0.45 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | J | 6.8 | 0.23 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | J | 2.8 | 0.23 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | J | 7.4 | 0.22 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | J | 3.3 | 0.22 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | J | 13.2 | 1.2 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | J | 8.0 | 0.23 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | J | 10.9 | 1.2 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | J | 3.1 | 0.24 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | J | 21.7 | 1.3 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | J | 3.0 | 0.24 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | J | 7.8 | 0.23 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | J | 9.8 | 1.2 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | J | 7.4 | 0.24 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | J | 11.9 | 1.2 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | J | 14.4 | 1.3 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | J | 2.2 | 0.26 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | J | 30.9 | 2.4 | I |

SOIL CHEMISTRY VALIDATED DATA
ANIONS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| NITRATE NITRITE | 1042 | 07/18/93 | 0002 | MG/KG | J | 6.1 | 0.24 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | J | 12.6 | 1.1 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | J | 9.1 | 0.22 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | J | 10.2 | 0.23 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | J | 5.4 | 0.22 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | J | 12.4 | 0.45 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | J | 4.0 | 0.22 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | J | 12.0 | 1.2 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | J | 2.9 | 0.24 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | J | 4.3 | 0.24 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | J | 3.4 | 0.24 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | J | 8.5 | 0.24 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | J | 2.0 | 0.24 | I |
| SULFATE | 0999 | 07/21/93 | 0006 | MG/KG | J | 90.6 | 50.0 | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | J | 152. | 56.2 | I |
| | 1001 | 08/01/93 | 0002 | MG/KG | J | 97.3 | 54.9 | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | J | 170. | 55.9 | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | J | 64.9 | 56.4 | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | J | 128. | 60.8 | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | J | 94.4 | 55.4 | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | J | 250. | 56.6 | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | UJ | 59.7 | 59.7 | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | J | 63.0 | 56.7 | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | J | 74.6 | 56.7 | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | J | 88.5 | 60.3 | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | J | 63.9 | 61.1 | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | UJ | 64.0 | 64.0 | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | UJ | 61.2 | 61.2 | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | J | 154. | 54.2 | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | J | 100. | 51.3 | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | J | 89.5 | 57.2 | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | J | 196. | 57.2 | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | J | 103. | 56.3 | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | J | 117. | 56.8 | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | J | 84.1 | 57.5 | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | J | 91.3 | 54.1 | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | UJ | 55.5 | 55.5 | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | J | 153. | 53.6 | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | UJ | 56.8 | 56.8 | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | J | 144. | 54.1 | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | J | 85.0 | 56.3 | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | J | 85.5 | 54.5 | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | UJ | 52.8 | 52.8 | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | J | 71.0 | 54.2 | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | UJ | 53.2 | 53.2 | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | J | 84.8 | 53.8 | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | J | 73.2 | 52.8 | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | J | 85.2 | 54.4 | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | J | 74.6 | 55.1 | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | UJ | 55.7 | 55.7 | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | UJ | 55.7 | 55.7 | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | UJ | 56.4 | 56.4 | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | J | 123. | 56.2 | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | UJ | 56.4 | 56.4 | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | UJ | 57.6 | 57.6 | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | J | 108. | 56.8 | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | UJ | 58.4 | 58.4 | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | J | 73.4 | 59.7 | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | UJ | 54.4 | 54.4 | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | UJ | 57.0 | 57.0 | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | UJ | 58.1 | 58.1 | I |

SOIL CHEMISTRY VALIDATED DATA
ANIONS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| SULFATE | 1022 | 08/04/93 | 0002 | MG/KG | UJ | 59.1 | 59.1 | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | UJ | 58.5 | 58.5 | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | UJ | 55.7 | 55.7 | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | UJ | 57.9 | 57.9 | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | UJ | 59.1 | 59.1 | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | J | 145. | 56.3 | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | UJ | 54.2 | 54.2 | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | J | 93.3 | 56.5 | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | UJ | 54.2 | 54.2 | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | UJ | 57.8 | 57.8 | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | UJ | 54.9 | 54.9 | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | J | 75.1 | 58.9 | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | UJ | 54.0 | 54.0 | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | UJ | 53.0 | 53.0 | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | UJ | 51.7 | 51.7 | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | J | 149. | 53.3 | I |
| | 1029 | 08/05/93 | 0002 | MG/KG | UJ | 52.3 | 52.3 | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | J | 142. | 53.0 | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | UJ | 52.7 | 52.7 | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | UJ | 56.3 | 56.3 | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | UJ | 61.4 | 61.4 | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | J | 73.9 | 58.5 | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | UJ | 62.3 | 62.3 | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | UJ | 62.2 | 62.2 | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | J | 73.1 | 58.9 | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | J | 114. | 63.8 | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | UJ | 57.2 | 57.2 | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | UJ | 57.2 | 57.2 | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | UJ | 56.7 | 56.7 | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | UJ | 56.7 | 56.7 | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | UJ | 57.2 | 57.2 | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | UJ | 54.8 | 54.8 | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | UJ | 55.8 | 55.8 | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | J | 73.7 | 59.9 | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | UJ | 58.3 | 58.3 | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | UJ | 60.2 | 60.2 | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | UJ | 61.0 | 61.0 | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | UJ | 62.6 | 62.6 | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | J | 82.3 | 60.8 | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | J | 68.5 | 57.6 | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | UJ | 61.4 | 61.4 | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | J | 68.4 | 60.1 | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | UJ | 60.8 | 60.8 | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | J | 82.9 | 63.4 | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | J | 89.8 | 64.1 | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | UJ | 60.6 | 60.6 | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | UJ | 60.2 | 60.2 | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | J | 68.6 | 57.2 | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | J | 60.8 | 56.1 | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | J | 59.3 | 57.0 | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | J | 89.9 | 56.1 | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | J | 101. | 56.3 | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | UJ | 56.1 | 56.1 | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | UJ | 59.0 | 59.0 | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | UJ | 59.3 | 59.3 | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | UJ | 59.0 | 59.0 | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | J | 68.1 | 59.9 | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | UJ | 58.9 | 58.9 | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | UJ | 60.2 | 60.2 | I |
| TOTAL ORGANIC CARBON | 0999 | 07/21/93 | 0006 | MG/KG | J | 1860. | 1440. | I |
| | 1001 | 08/01/93 | 0001 | MG/KG | J | 15700. | 1760. | I |

SOIL CHEMISTRY VALIDATED DATA
ANIONS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| TOTAL ORGANIC CARBON | 1001 | 08/01/93 | 0002 | MG/KG | J | 5240. | 2000. | I |
| | 1002 | 08/01/93 | 0001 | MG/KG | J | 14900. | 1840. | I |
| | 1002 | 08/01/93 | 0002 | MG/KG | J | 6790. | 1760. | I |
| | 1003 | 08/01/93 | 0001 | MG/KG | J | 7550. | 1400. | I |
| | 1003 | 08/01/93 | 0002 | MG/KG | J | 28800. | 2030. | I |
| | 1003 | 08/01/93 | 1001 | MG/KG | J | 6860. | 1330. | I |
| | 1004 | 07/15/93 | 0001 | MG/KG | J | 21900. | 1370. | I |
| | 1004 | 07/15/93 | 0002 | MG/KG | J | 18400. | 1700. | I |
| | 1005 | 07/16/93 | 0001 | MG/KG | J | 28600. | 1260. | I |
| | 1005 | 07/16/93 | 0002 | MG/KG | J | 18700. | 1440. | I |
| | 1005 | 07/16/93 | 1001 | MG/KG | J | 21800. | 1580. | I |
| | 1006 | 07/16/93 | 0001 | MG/KG | J | 16500. | 1390. | I |
| | 1006 | 07/16/93 | 0002 | MG/KG | J | 16300. | 1550. | I |
| | 1007 | 08/02/93 | 0001 | MG/KG | J | 8810. | 1750. | I |
| | 1007 | 08/02/93 | 0002 | MG/KG | J | 6050. | 2140. | I |
| | 1008 | 08/02/93 | 0001 | MG/KG | J | 18500. | 1500. | I |
| | 1008 | 08/02/93 | 0002 | MG/KG | J | 3970. | 1320. | I |
| | 1009 | 08/02/93 | 0001 | MG/KG | J | 4340. | 1730. | I |
| | 1009 | 08/02/93 | 0002 | MG/KG | J | 7370. | 1630. | I |
| | 1009 | 08/02/93 | 1001 | MG/KG | J | 3590. | 1770. | I |
| | 1010 | 08/03/93 | 0001 | MG/KG | J | 5430. | 1360. | I |
| | 1010 | 08/03/93 | 0002 | MG/KG | J | 6070. | 1340. | I |
| | 1011 | 08/03/93 | 0001 | MG/KG | J | 15900. | 1530. | I |
| | 1011 | 08/03/93 | 0002 | MG/KG | J | 3430. | 1560. | I |
| | 1012 | 08/03/93 | 0001 | MG/KG | J | 10300. | 1410. | I |
| | 1012 | 08/03/93 | 0002 | MG/KG | J | 2190. | 1820. | I |
| | 1013 | 08/03/93 | 0001 | MG/KG | J | 7190. | 1740. | I |
| | 1013 | 08/03/93 | 0002 | MG/KG | J | 2350. | 1550. | I |
| | 1014 | 08/03/93 | 0001 | MG/KG | J | 9950. | 1530. | I |
| | 1014 | 08/03/93 | 0002 | MG/KG | J | 3670. | 1580. | I |
| | 1015 | 08/03/93 | 0001 | MG/KG | J | 3210. | 1330. | I |
| | 1015 | 08/03/93 | 0002 | MG/KG | J | 33800. | 1830. | I |
| | 1015 | 08/03/93 | 1001 | MG/KG | J | 5670. | 1760. | I |
| | 1016 | 07/17/93 | 0001 | MG/KG | J | 18200. | 1380. | I |
| | 1016 | 07/17/93 | 0002 | MG/KG | J | 22300. | 1190. | I |
| | 1017 | 07/17/93 | 0001 | MG/KG | J | 20500. | 1520. | I |
| | 1017 | 07/17/93 | 0002 | MG/KG | J | 28200. | 1600. | I |
| | 1018 | 07/17/93 | 0001 | MG/KG | J | 21800. | 1100. | I |
| | 1018 | 07/17/93 | 0002 | MG/KG | J | 6240. | 1830. | I |
| | 1019 | 07/19/93 | 0001 | MG/KG | J | 4540. | 1520. | I |
| | 1019 | 07/19/93 | 0002 | MG/KG | J | 14100. | 1500. | I |
| | 1020 | 07/19/93 | 0001 | MG/KG | J | 7930. | 1520. | I |
| | 1020 | 07/19/93 | 0002 | MG/KG | J | 2810. | 1700. | I |
| | 1021 | 07/19/93 | 0001 | MG/KG | J | 11600. | 1440. | I |
| | 1021 | 07/19/93 | 0002 | MG/KG | J | 3230. | 1210. | I |
| | 1022 | 08/04/93 | 0001 | MG/KG | J | 25500. | 1580. | I |
| | 1022 | 08/04/93 | 0002 | MG/KG | J | 4600. | 1520. | I |
| | 1023 | 08/04/93 | 0001 | MG/KG | J | 2860. | 1100. | I |
| | 1023 | 08/04/93 | 0002 | MG/KG | J | 9670. | 1460. | I |
| | 1024 | 08/04/93 | 0001 | MG/KG | J | 12200. | 1210. | I |
| | 1024 | 08/04/93 | 0002 | MG/KG | J | 12900. | 1570. | I |
| | 1025 | 08/04/93 | 0001 | MG/KG | UJ | 1770. | 1770. | I |
| | 1025 | 08/04/93 | 0002 | MG/KG | UJ | 1160. | 1160. | I |
| | 1026 | 08/04/93 | 0001 | MG/KG | J | 3840. | 1160. | I |
| | 1026 | 08/04/93 | 0002 | MG/KG | J | 5210. | 1490. | I |
| | 1027 | 08/04/93 | 0001 | MG/KG | J | 11200. | 1320. | I |
| | 1027 | 08/04/93 | 0002 | MG/KG | J | 5840. | 1180. | I |
| | 1027 | 08/04/93 | 1001 | MG/KG | J | 3630. | 1100. | I |
| | 1028 | 08/05/93 | 0001 | MG/KG | J | 14900. | 1130. | I |
| | 1028 | 08/05/93 | 0002 | MG/KG | J | 2170. | 1100. | I |
| | 1028 | 08/05/93 | 1002 | MG/KG | UJ | 1350. | 1350. | I |
| | 1029 | 08/05/93 | 0001 | MG/KG | J | 11700. | 1190. | I |

SOIL CHEMISTRY VALIDATED DATA
ANIONS
SITE: MND28 BACKGROUND SOILS
07/14/93 TO 08/06/93
REPORT DATE: 03/07/94

| PARAMETER NAME | LOCATION ID | LOG DATE | SAMPLE ID | UNITS OF MEASURE | PVI | VALIDATED VALUE | DETECTION LIMIT | RUN TYPE |
|---|---|---|---|---|---|---|---|---|
| TOTAL ORGANIC CARBON | 1029 | 08/05/93 | 0002 | MG/KG | J | 1420. | 1130. | I |
| | 1030 | 08/05/93 | 0001 | MG/KG | J | 5060. | 1520. | I |
| | 1030 | 08/05/93 | 0002 | MG/KG | J | 2300. | 1300. | I |
| | 1031 | 07/20/93 | 0001 | MG/KG | J | 32800. | 1420. | I |
| | 1031 | 07/20/93 | 0002 | MG/KG | J | 4060. | 1630. | I |
| | 1032 | 07/20/93 | 0001 | MG/KG | J | 14700. | 1730. | I |
| | 1032 | 07/20/93 | 0002 | MG/KG | J | 4380. | 1690. | I |
| | 1032 | 07/20/93 | 1002 | MG/KG | J | 26900. | 1430. | I |
| | 1033 | 07/20/93 | 0001 | MG/KG | J | 2630. | 1650. | I |
| | 1033 | 07/20/93 | 0002 | MG/KG | UJ | 1870. | 1870. | I |
| | 1034 | 08/06/93 | 0001 | MG/KG | J | 11700. | 1290. | I |
| | 1034 | 08/06/93 | 0002 | MG/KG | J | 20400. | 1180. | I |
| | 1035 | 08/06/93 | 0001 | MG/KG | J | 26100. | 2000. | I |
| | 1035 | 08/06/93 | 0002 | MG/KG | J | 19300. | 1920. | I |
| | 1036 | 08/06/93 | 0001 | MG/KG | J | 9250. | 1950. | I |
| | 1036 | 08/06/93 | 0002 | MG/KG | J | 5600. | 1460. | I |
| | 1036 | 08/06/93 | 1001 | MG/KG | J | 9760. | 1600. | I |
| | 1037 | 07/18/93 | 0001 | MG/KG | J | 26500. | 2010. | I |
| | 1037 | 07/18/93 | 0002 | MG/KG | J | 6900. | 1420. | I |
| | 1038 | 07/18/93 | 0001 | MG/KG | J | 10500. | 1440. | I |
| | 1038 | 07/18/93 | 0002 | MG/KG | J | 7070. | 1480. | I |
| | 1039 | 07/18/93 | 0001 | MG/KG | J | 19800. | 1820. | I |
| | 1039 | 07/18/93 | 0002 | MG/KG | J | 5730. | 1470. | I |
| | 1038 | 07/18/93 | 1002 | MG/KG | J | 4740. | 1720. | I |
| | 1040 | 07/18/93 | 0001 | MG/KG | J | 11400. | 1290. | I |
| | 1040 | 07/18/93 | 0002 | MG/KG | J | 16200. | 1370. | I |
| | 1040 | 07/18/93 | 1001 | MG/KG | J | 13900. | 1350. | I |
| | 1041 | 07/18/93 | 0001 | MG/KG | J | 24200. | 1440. | I |
| | 1041 | 07/18/93 | 0002 | MG/KG | J | 4750. | 1730. | I |
| | 1042 | 07/18/93 | 0001 | MG/KG | J | 17700. | 1480. | I |
| | 1042 | 07/18/93 | 0002 | MG/KG | J | 21000. | 1560. | I |
| | 1043 | 08/05/93 | 0001 | MG/KG | J | 7830. | 1360. | I |
| | 1043 | 08/06/93 | 0002 | MG/KG | J | 16100. | 1460. | I |
| | 1044 | 08/05/93 | 0001 | MG/KG | J | 40300. | 1300. | I |
| | 1044 | 08/06/93 | 0002 | MG/KG | J | 1550. | 1410. | I |
| | 1045 | 08/05/93 | 0001 | MG/KG | J | 22400. | 1510. | I |
| | 1045 | 08/06/93 | 0002 | MG/KG | J | 1800. | 1330. | I |
| | 1046 | 07/14/93 | 0001 | MG/KG | J | 12000. | 1320. | I |
| | 1046 | 07/14/93 | 0002 | MG/KG | J | 12100. | 1400. | I |
| | 1047 | 07/14/93 | 0001 | MG/KG | J | 24200. | 1380. | I |
| | 1047 | 07/14/93 | 0002 | MG/KG | J | 22500. | 1420. | I |
| | 1048 | 07/14/93 | 0001 | MG/KG | J | 20600. | 1520. | I |
| | 1048 | 07/14/93 | 0002 | MG/KG | J | 16000. | 1540. | I |

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# APPENDIX I

APPENDIX I

# APPENDIX I

## SOIL SERIES SUMMARY STATISTICS

## APPENDIX I

## SOIL SERIES SUMMARY STATISTICS


| | | |
|---|---|---|
| Table I.1 | (CoB) | Surface |
| Table I.2 | (CoB) | Subsurface |
| Table I.3 | ($FaE_2$) | Surface |
| Table I.4 | ($FaE_2$) | Subsurface |
| Table I.5 | ($FaF_2$) | Surface |
| Table I.6 | ($FaF_2$) | Subsurface |
| Table I.7 | ($HeF_2$) | Surface |
| Table I.8 | ($HeF_2$) | Subsurface |
| Table I.9 | ($HmF_3$) | Surface |
| Table I.10 | ($HmF_3$) | Subsurface |
| Table I.11 | (Mb) | Surface |
| Table I.12 | (Mb) | Subsurface |
| Table I.13 | (MIB) | Surface |
| Table I.14 | (MIB) | Subsurface |
| Table I.15 | ($MnC_3$) | Surface |
| Table I.16 | ($MnC_3$) | Subsurface |
| Table I.17 | ($MnD_3$) | Surface |
| Table I.18 | ($MnD_3$) | Subsurface |
| Table I.19 | (MoC) | Surface |
| Table I.20 | (MoC) | Subsurface |
| Table I.21 | (MsB) | Surface |
| Table I.22 | (MsB) | Subsurface |
| Table I.23 | ($MsC_2$) | Surface |
| Table I.24 | ($MsC_2$) | Subsurface |
| Table I.25 | ($MtD_3$) | Surface |
| Table I.26 | ($MtD_3$) | Subsurface |
| Table I.27 | ($ReB_2$) | Surface |
| Table I.28 | ($ReB_2$) | Subsurface |
| Table I.29 | ($RfD_3$) | Surface |
| Table I.30 | ($RfD_3$) | Subsurface |
| Table I.31 | (Rs) | Surface |
| Table I.32 | (Rs) | Subsurface |


| UNITS | | |
|---|---|---|
| Inorganics | - | mg/kg. |
| Pesticides/PCBs | - | $\mu$g/kg. |
| Radionuclides | - | pCi/g. |
| Anions | - | mg/kg. |

## TABLE I.1 SOIL SERIES SUMMARY STATISTICS
### Corwin Silt Loam (CoB)
### Surface Samples - 0001
### Samples 1001, 1002, 1003

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 10,800 | 14,200 | 12,807.89 | 12,900 | 3:3 |
| Antimony | R | R | NA | NA | NA |
| Arsenic | 7.00 | 8.30 | 7.41 | 7.43 | 3:3 |
| Barium | 114.00 | 143.00 | 125.41 | 126.00 | 3:3 |
| Beryllium | 0.82 | 1.00 | 0.91 | 0.91 | 3:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | 0.56 | 0.75 | 0.66 | 0.67 | 3:3 |
| Calcium | 4,170.00 | 4,410.00 | 4,285.55 | 4,286.67 | 3:3 |
| Chromium | 13.80 | 17.20 | 15.50 | 15.57 | 3:3 |
| Cobalt | 12.90 | 16.60 | 14.69 | 14.77 | 3:3 |
| Copper | 12.40 | 14.30 | 13.38 | 13.40 | 3:3 |
| Iron | 19,300.00 | 25,300.00 | 22,131.47 | 22,266.67 | 3:3 |
| Lead | 20.30 | 21.70 | 21.19 | 21.20 | 3:3 |
| Lithium | U | U | NA | NA | 0:3 |
| Magnesium | 2,220.00 | 2,850.00 | 2,559.46 | 2,573.33 | 3:3 |
| Manganese | 1,030.00 | 1,260.00 | 1,168.70 | 1,173.33 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | 16.00 | 19.70 | 17.74 | 17.80 | 3:3 |
| Nickel | 16.70 | 21.30 | 18.81 | 18.90 | 3:3 |
| Potassium | 907 | 1,226 | 1,087.31 | 1,096.33 | 3:3 |
| Selenium | 0.33 | 0.34 | 0.23 | 0.26 | 2:3 |
| Silver | U | U | NA | NA | 0:3 |
| Sodium | 101.00 | 363.00 | 177.29 | 205.33 | 3:3 |
| Thallium | U | U | NA | NA | 0:3 |
| Tin | U | U | NA | NA | 0:3 |
| Vanadium | 16.90 | 20.10 | 18.08 | 18.13 | 3:3 |
| Zinc | 48.00 | 60.30 | 54.26 | 54.50 | 3:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | 4.10 | 2.48 | 2.65 | 1:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | 2.20 | 2.01 | 2.02 | 1:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.1 SOIL SERIES SUMMARY STATISTICS
### Corwin Silt Loam (CoB)
### Surface Samples - 0001
### Samples 1001, 1002, 1003
### (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | 10.00 | 50 | 17.10 | 23.33 | 2:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | 0.33 | 0.39 | 0.16 | 0.25 | 2:3 |
| Potassium-40 | 16.50 | 18.40 | 17.18 | 17.20 | 3:3 |
| Plutonium-239/240 | U | 0.04 | 0.04 | 0.04 | 1:3 |
| Strontium | U | U | NA | NA | 0:3 |
| Thorium-228 | 1.03 | 1.17 | 1.08 | 1.08 | 3:3 |
| Thorium-230 | 1.39 | 1.95 | 1.74 | 1.76 | 3:3 |
| Thorium-232 | 1.13 | 1.19 | 1.16 | 1.16 | 3:3 |
| Tritium | 0.08 | 1.20 | 0.12 | 0.43 | 2:3 |
| Uranium-235/236 | 0.07 | 0.09 | 0.07 | 0.07 | 2:3 |
| Uranium-238 | 0.79 | 1.05 | 0.89 | 0.90 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 32.50 | 107.00 | 55.29 | 62.70 | 3:3 |
| Fluoride | 1.70 | 3.70 | 2.25 | 2.40 | 3:3 |
| Nitrate/Nitrite | 2.20 | 3.30 | 2.82 | 2.87 | 3:3 |
| Sulfate | 128.00 | 170.00 | 148.99 | 150.00 | 3:3 |
| TOC | 7,550.00 | 15,700.00 | 12,087.72 | 12,716.67 | 3:3 |

U - Not detected.
NA - Not applicable.
R - Unusable

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.2 SOIL SERIES SUMMARY STATISTICS
### Corwin Silt Loam (CoB)
### Subsurface Samples - 0002
### Samples 1001, 1002, 1003

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 11,200.00 | 12,900.00 | 11,775.03 | 11,800.00 | 3:3 |
| Antimony | R | R | NA | NA | NA |
| Arsenic | 5.40 | 11.10 | 7.89 | 8.23 | 3:3 |
| Barium | 82.50 | 87.60 | 85.83 | 85.87 | 3:3 |
| Beryllium | 0.72 | 0.75 | 0.73 | 0.73 | 3:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | U | U | NA | NA | 0:3 |
| Calcium | 6,350.00 | 23,000.00 | 14,101.57 | 16,183.33 | 3:3 |
| Chromium | 13.30 | 16.50 | 14.64 | 14.70 | 3:3 |
| Cobalt | 9.40 | 12.10 | 10.78 | 10.83 | 3:3 |
| Copper | 13.50 | 16.50 | 15.18 | 15.23 | 3:3 |
| Iron | 19,400.00 | 27,500.00 | 24,210.59 | 24,500.00 | 3:3 |
| Lead | 11.10 | 12.50 | 11.58 | 11.60 | 3:3 |
| Lithium | U | U | NA | NA | 0:3 |
| Magnesium | 5,200.00 | 12,000.00 | 8,900.64 | 9,500.00 | 3:3 |
| Manganese | 502.00 | 567.00 | 542.84 | 543.67 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | 14.40 | 21.80 | 18.93 | 19.27 | 3:3 |
| Nickel | 21.80 | 24.50 | 23.24 | 23.27 | 3:3 |
| Potassium | 662 | 841 | 735.41 | 739.13 | 3:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | U | U | NA | NA | 0:3 |
| Sodium | 184.00 | 401.00 | 258.46 | 273.00 | 3:3 |
| Thallium | U | U | NA | NA | NA |
| Tin | 4.40 | 5.00 | 3.56 | 3.82 | 2:3 |
| Vanadium | U | U | NA | NA | 0:3 |
| Zinc | 47.10 | 57.00 | 53.17 | 53.37 | 3:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | 3.3 | 2.22 | 2.32 | 1:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | U | NA | NA | 0:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.2 SOIL SERIES SUMMARY STATISTICS
## Corwin Silt Loam (CoB)
## Subsurface Samples - 0002
## Samples 1001, 1002, 1003
## (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Potassium-40 | 18.80 | 24.70 | 21.40 | 21.53 | 3:3 |
| Plutonium-238 | 0.03 | 0.10 | 0.05 | 0.06 | 2:3 |
| Plutonium-239/240 | 0.06 | 0.11 | 0.05 | 0.06 | 2:3 |
| Radium-226 | 1.17 | 2.95 | 1.84 | 1.97 | 3:3 |
| Strontium | U | U | NA | NA | 0:3 |
| Thorium-228 | 0.84 | 1.29 | 1.11 | 1.13 | 3:3 |
| Tritium | .11 | .13 | .06 | .08 | 2:3 |
| Uranium-234 | 0.86 | 0.96 | 0.91 | 0.91 | 3:3 |
| Uranium-238 | .97 | 1.13 | 1.05 | 1.05 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 67.50 | 116 | 82.65 | 85.20 | 3:3 |
| Fluoride | 2.30 | 4.20 | 3.23 | 3.33 | 3:3 |
| Nitrate/Nitrite | .90 | 1.60 | 1.26 | 1.30 | 3:3 |
| Sulfate | 64.90 | 97.30 | 84.16 | 85.53 | 3:3 |
| TOC | 5,240 | 28,800 | 10,081.64 | 13,610 | 3:3 |

U - Not detected.
NA - Not applicable.
R - Unusable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.3 SOIL SERIES SUMMARY STATISTICS
### Fairmont Silty Clay Loam ($FaE_2$)
### Surface Samples - 0001
### Samples 1004, 1005, 1006

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 10,200 | 16,100 | 12,606.52 | 12,833.33 | 3:3 |
| Antimony | R | R | NA | NA | NA |
| Arsenic | 3.0 | 5.1 | 3.84 | 3.93 | 3:3 |
| Barium | 99.0 | 162.0 | 125.07 | 127.67 | 3:3 |
| Beryllium | .99 | 1.50 | 1.14 | 1.16 | 3:3 |
| Bismuth | U | 38.4 | 21.28 | 23.37 | 1:3 |
| Cadmium | U | U | NA | NA | 0:3 |
| Calcium | 10,000 | 18,800 | 13,640.51 | 14,100 | 3:3 |
| Chromium | 14.3 | 21.90 | 17.11 | 17.40 | 3:3 |
| Cobalt | 13.9 | 21.7 | 16.90 | 17.20 | 3:3 |
| Copper | 17.20 | 26.40 | 20.65 | 21 | 3:3 |
| Iron | 27,900 | 42,700 | 34,342.9 | 34,866.67 | 3:3 |
| Lead | 18.9 | 33 | 25.98 | 26.67 | 3:3 |
| Lithium | U | U | NA | NA | 0:3 |
| Magnesium | 2,930 | 4,520 | 3,564.6 | 3,623.33 | 3:3 |
| Manganese | 1,050 | 1,740 | 1,337.63 | 1,366.67 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | 21.1 | 31.0 | 25.45 | 25.77 | 3:3 |
| Nickel | 19.3 | 32.10 | 24.76 | 25.30 | 3:3 |
| Potassium | 1,470 | 2,440 | 1,885.89 | 1,926.67 | 3:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | U | 1.7 | .89 | 1.00 | 1:3 |
| Sodium | 44.9 | 51.9 | 47.81 | 47.9 | 3:3 |
| Thallium | U | U | NA | NA | 0:3 |
| Tin | 14.6 | 20.90 | 17.03 | 17.23 | 3:3 |
| Vanadium | 20.6 | 31.1 | 25.17 | 25.53 | 3:3 |
| Zinc | 53.1 | 85.6 | 65.21 | 66.57 | 3:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | U | NA | NA | 0:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | 1.20 | 1.05 | 1.05 | 1:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.3 SOIL SERIES SUMMARY STATISTICS
## Fairmont Silty Clay Loam ($FaE_2$)
## Surface Samples - 0001
## Samples 1004, 1005, 1006
## (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | 2.0 | 2.07 | 2.07 | 1:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | 0.38 | 0.47 | 0.43 | 0.43 | 3:3 |
| Potassium-40 | 28.60 | 29.90 | 29.16 | 29.17 | 3:3 |
| Plutonium-238 | .08 | .14 | .07 | .08 | 2:3 |
| Plutonium-239/240 | U | .07 | .06 | .06 | 1:3 |
| Radium-226 | .88 | 1.15 | 1.02 | 1.03 | 3:3 |
| Strontium | U | U | NA | NA | 0:3 |
| Thorium-228 | 1.09 | 1.45 | 1.22 | 1.23 | 3:3 |
| Thorium-230 | 1.06 | 1.25 | 1.15 | 1.15 | 3:3 |
| Thorium-232 | .9 | 1.37 | 1.04 | 1.06 | 3:3 |
| Tritium | .41 | 1.42 | .74 | .84 | 3:3 |
| Uranium-234 | .67 | .91 | .76 | .77 | 3:3 |
| Uranium-238 | .69 | .88 | .78 | .79 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 45.3 | 74.2 | 61.5 | 62.9 | 3:3 |
| Fluoride | 1.3 | 1.6 | 1.43 | 1.43 | 3:3 |
| Nitrate/Nitrite | 14.8 | 21.9 | 17.59 | 17.83 | 3:3 |
| Sulfate | U | 74.6 | 41.46 | 45.48 | 1:3 |
| TOC | 16,500 | 28,600 | 21,782.01 | 22,333.33 | 3:3 |

U - Not detected.
NA - Not applicable.
R - Unusable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.4 SOIL SERIES SUMMARY STATISTICS
### Fairmont Silty Clay Loam ($FaE_2$)
### Subsurface Samples - 0002
### Samples 1004, 1005, 1006

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 9,830 | 15,500 | 12,493.91 | 12,710 | 3:3 |
| Antimony | R | R | NA | NA | NA |
| Arsenic | 1.40 | 3.80 | 2.57 | 2.80 | 3:3 |
| Barium | 63.5 | 134 | 100.98 | 106.17 | 3:3 |
| Beryllium | .73 | 1.2 | .95 | .97 | 3:3 |
| Bismuth | 35.10 | 35.10 | 27.01 | 28.73 | 2:3 |
| Cadmium | U | U | NA | NA | 0:3 |
| Calcium | 16,800 | 118,000 | 44,382.32 | 59,633.33 | 3:3 |
| Chromium | 11.70 | 18.90 | 15.36 | 15.67 | 3:3 |
| Cobalt | 11.3 | 18.80 | 15.00 | 15.33 | 3:3 |
| Copper | 13.90 | 20.50 | 17.71 | 17.97 | 3:3 |
| Iron | 24,500 | 39,300 | 31,895.31 | 32,500 | 3:3 |
| Lead | 7.7 | 15.4 | 12.17 | 12.77 | 3:3 |
| Lithium | U | U | NA | NA | 0:3 |
| Magnesium | 3,720 | 4,800 | 4,217.07 | 4,240 | 3:3 |
| Manganese | 639 | 1,440 | 1,069.64 | 1,136.33 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | 17.6 | 27.0 | 22.26 | 22.60 | 3:3 |
| Nickel | 19.9 | 31.00 | 24.59 | 25 | 3:3 |
| Potassium | 957 | 1,720 | 1,336.4 | 1,375.67 | 3:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | 1.4 | 1.9 | 1.14 | 1.28 | 2:3 |
| Sodium | 61.9 | 131.00 | 95.97 | 100.63 | 3:3 |
| Thallium | U | U | NA | NA | 0:3 |
| Tin | 12.3 | 16.1 | 14.05 | 14.13 | 3:3 |
| Vanadium | 13.8 | 25.7 | 19.89 | 20.57 | 3:3 |
| Zinc | 39.8 | 61.2 | 50.32 | 51.10 | 3:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | U | NA | NA | 0:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.4 SOIL SERIES SUMMARY STATISTICS
### Fairmont Silty Clay Loam ($FaE_2$)
### Subsurface Samples - 0002
### Samples 1004, 1005, 1006
### (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Plutonium-238 | U | .05 | .06 | .06 | 1:3 |
| Plutonium-239/240 | .06 | .22 | .08 | .11 | 2:3 |
| Potassium-40 | 23.10 | 28.4 | 26.48 | 26.6 | 3:3 |
| Radium-226 | .53 | .89 | .71 | .73 | 3:3 |
| Strontium | U | U | NA | NA | 0:3 |
| Thorium-228 | .97 | 1.38 | 1.22 | 1.23 | 3:3 |
| Thorium-230 | .71 | 1.09 | .93 | .95 | 3:3 |
| Thorium-232 | .94 | 1.40 | 1.11 | 1.13 | 3:3 |
| Tritium | .07 | .25 | .08 | .12 | 2:3 |
| Uranium-234 | .66 | .81 | .71 | .72 | 3:3 |
| Uranium-235/236 | U | .04 | .04 | .05 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 44.9 | 109 | 67.84 | 72.57 | 3:3 |
| Fluoride | 2.3 | 3.2 | 2.77 | 2.8 | 3:3 |
| Nitrate/Nitrite | 7.8 | 21.2 | 11.46 | 12.70 | 3:3 |
| pH | U | U | NA | NA | 0:3 |
| Sulfate | 63 | 88.5 | 55.46 | 60.70 | 2:3 |
| TOC | 16,300 | 18,700 | 17,767.06 | 17,800 | 3:3 |

U - Not detected.
NA - Not applicable.
R - Unusable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.5 SOIL SERIES SUMMARY STATISTICS
### Fairmont Silty Clay Loam ($FaF_2$)
### Surface Samples - 0001
### Samples 1007, 1008, 1009

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 11,500 | 13,100 | 12,282.63 | 12,300 | 3:3 |
| Antimony | R | R | NA | NA | NA |
| Arsenic | 4.10 | 5.2 | 4.64 | 4.67 | 3:3 |
| Barium | 83.4 | 85 | 84 | 84 | 3:3 |
| Beryllium | .72 | .91 | .83 | .83 | 3:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | U | .57 | .30 | .34 | 1:3 |
| Calcium | 38,100 | 60,500 | 45,990.09 | 46,933.33 | 3:3 |
| Chromium | 12.7 | 13.6 | 13.29 | 13.3 | 3:3 |
| Cobalt | 12.6 | 13.3 | 12.86 | 12.87 | 3:3 |
| Copper | 14.4 | 14.9 | 14.63 | 14.63 | 3:3 |
| Iron | 23,100 | 24,700 | 24,089.35 | 24,100 | 3:3 |
| Lead | 18.5 | 84.6 | 32.23 | 41.5 | 3:3 |
| Lithium | 20.2 | 23.10 | 21.3 | 21.33 | 3:3 |
| Magnesium | 4,110.00 | 4,390 | 4,225.01 | 4,226.67 | 3:3 |
| Manganese | 736 | 773 | 749.15 | 749.33 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | 18 | 19.5 | 18.66 | 18.67 | 3:3 |
| Nickel | 18.6 | 20.4 | 19.45 | 19.47 | 3:3 |
| Potassium | 1,430 | 1,730 | 1,527.27 | 1,533.33 | 3:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | U | U | NA | NA | 0:3 |
| Sodium | 80.3 | 116.00 | 96.64 | 97.73 | 3:3 |
| Thallium | U | U | NA | NA | 0:3 |
| Tin | U | U | NA | NA | 0:3 |
| Vanadium | 9.7 | 11.9 | 10.66 | 10.7 | 3:3 |
| Zinc | 59.6 | 62.5 | 61.19 | 61.2 | 3:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | U | NA | NA | 0:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.5 SOIL SERIES SUMMARY STATISTICS
### Fairmont Silty Clay Loam ($FaF_2$)
### Surface Samples - 0001
### Samples 1007, 1008, 1009
### (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | 0.47 | 0.54 | 0.51 | 0.51 | 3:3 |
| Plutonium-238 | .04 | .25 | .07 | .11 | 2:3 |
| Plutonium-240 | U | .32 | .08 | .13 | 1:3 |
| Potassium-40 | 28.9 | 32.5 | 30.5 | 30.53 | 3:3 |
| Radium-226 | .74 | .93 | .84 | .84 | 3:3 |
| Strontium-90 | U | 21.9 | .89 | 7.42 | 1:3 |
| Thorium-228 | 1.03 | 1.41 | 1.18 | 1.19 | 3:3 |
| Thorium-230 | 1.19 | 1.47 | 1.37 | 1.38 | 3:3 |
| Thorium-232 | 1.02 | 1.30 | 1.12 | 1.13 | 3:3 |
| Tritium | .17 | 8.28 | .30 | 2.82 | 2:3 |
| Uranium-234 | .54 | .81 | .66 | .67 | 3:3 |
| Uranium-235/236 | U | U | NA | NA | 0:3 |
| Uranium-238 | .68 | .87 | .79 | .80 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 53.4 | 84.5 | 63.96 | 65.30 | 3:3 |
| Fluoride | 3.4 | 3.8 | 3.6 | 3.6 | 3:3 |
| Nitrate/Nitrite | 4.4 | 9.2 | 6.2 | 6.5 | 3:3 |
| Sulfate | 89.5 | 154 | 112.39 | 115.50 | 3:3 |
| TOC | 4,340 | 18,500 | 8,910.03 | 10,550 | 3:3 |

U - Not detected.
NA - Not applicable.
R - Unusable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.6 SOIL SERIES SUMMARY STATISTICS
### Fairmont Silty Clay Loam ($FaF_2$)
### Subsurface Samples - 0002
### Samples 1007, 1008, 1009

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 12,000 | 16,300 | 13,787.68 | 13,900 | 3:3 |
| Antimony | R | R | NA | NA | NA |
| Arsenic | 4.2 | 5.2 | 4.65 | 4.67 | 3:3 |
| Barium | 81.1 | 101 | 88.8 | 89.2 | 3:3 |
| Beryllium | .73 | .95 | .80 | .81 | 3:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | U | .51 | .29 | .31 | 1:3 |
| Calcium | 34,200 | 55,000 | 40,608.12 | 41,600 | 3:3 |
| Chromium | 13.00 | 17.10 | 14.67 | 14.77 | 3:3 |
| Cobalt | 12.10 | 15.60 | 13.79 | 13.87 | 3:3 |
| Copper | 13.3 | 15.50 | 14.24 | 14.27 | 3:3 |
| Iron | 24,300 | 30,500 | 27,048.25 | 27,166.67 | 3:3 |
| Lead | 11.7 | 28 | 16.73 | 18.00 | 3:3 |
| Lithium | 19.4 | 27.7 | 23.25 | 23.50 | 3:3 |
| Magnesium | 4,030 | 5,260 | 4,616.04 | 4,643.33 | 3:3 |
| Manganese | 709 | 901 | 793.12 | 797 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | 18.4 | 22.9 | 20.48 | 20.57 | 3:3 |
| Nickel | 18.7 | 23.7 | 21.43 | 21.53 | 3:3 |
| Potassium | 1,150 | 1,560 | 1,298.36 | 1,310 | 3:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | U | U | NA | NA | 0:3 |
| Sodium | 70.10 | 104 | 88.23 | 89.43 | 3:3 |
| Thallium | U | U | NA | NA | 0:3 |
| Tin | U | 4.2 | 2.6 | 2.77 | 1:3 |
| Vanadium | 8.7 | 10.7 | 9.8 | 9.83 | 3:3 |
| Zinc | 50.4 | 64.3 | 56.31 | 56.6 | 3:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | U | NA | NA | 0:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.6 SOIL SERIES SUMMARY STATISTICS
### Fairmont Silty Clay Loam ($FaF_2$)
### Subsurface Samples - 0002
### Samples 1007, 1008, 1009
### (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | .09 | .15 | .12 | .13 | 3:3 |
| Plutonium-238 | .08 | .10 | .05 | .06 | 2:3 |
| Plutonium-239/240 | .04 | .12 | .05 | .06 | 2:3 |
| Potassium-40 | 29.6 | 32.9 | 31.07 | 31.10 | 3:3 |
| Radium-226 | .81 | 1.00 | .89 | .90 | 3:3 |
| Strontium-90 | U | U | NA | NA | 0:3 |
| Thorium-228 | .98 | 1.41 | 1.24 | 1.25 | 3:3 |
| Thorium-230 | 1.23 | 1.36 | 1.28 | 1.28 | 3:3 |
| Thorium-232 | 1.05 | 1.20 | 1.14 | 1.15 | 3:3 |
| Tritium | U | .28 | .05 | .11 | 1:3 |
| Uranium-234 | .74 | .94 | .84 | .84 | 3:3 |
| Uranium-235/236 | .04 | .09 | .05 | .06 | 3:3 |
| Uranium-238 | .73 | .91 | .79 | .79 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 31.3 | 58.4 | 47.14 | 49 | 3:3 |
| Fluoride | 3.9 | 5.4 | 4.42 | 4.47 | 3:3 |
| Nitrate/Nitrite | 2.3 | 4.5 | 3.43 | 3.57 | 3:3 |
| Sulfate | 100 | 196 | 131.87 | 137.67 | 3:3 |
| TOC | 3,970.00 | 7,370 | 5,614.85 | 5,796.67 | 3:3 |

U - Not detected.
NA - Not applicable.
R - Unusable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.7 SOIL SERIES SUMMARY STATISTICS
## Hennepin & Miamian Silt Loam ($HeF_2$)
## Surface Samples - 0001
## Samples 1010, 1011, 1012

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 6,370 | 8,850 | 7,633.43 | 7,703.33 | 3:3 |
| Antimony | R | R | NA | NA | NA |
| Arsenic | 2.4 | 5.1 | 3.13 | 3.33 | 3:3 |
| Barium | 43.5 | 75 | 57.64 | 59.07 | 3:3 |
| Beryllium | .4 | .67 | .53 | .54 | 3:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | U | U | NA | NA | 0:3 |
| Calcium | 1,870 | 2,720 | 2,177.55 | 2,206.67 | 3:3 |
| Chromium | 9.9 | 14 | 12.47 | 12.63 | 3:3 |
| Cobalt | 9.9 | 14.5 | 11.75 | 11.9 | 3:3 |
| Copper | 11.2 | 14.8 | 13.14 | 13.23 | 3:3 |
| Iron | 15,400 | 20,900 | 17,655.81 | 17,800 | 3:3 |
| Lead | 16 | 19.5 | 17.87 | 17.93 | 3:3 |
| Lithium | U | 10.8 | 6.69 | 7.15 | 1:3 |
| Magnesium | 1,680 | 2,450 | 2,052.26 | 2,076.67 | 3:3 |
| Manganese | 580 | 1,050 | 782.25 | 805.33 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | 12.9 | 17.2 | 14.66 | 14.77 | 3:3 |
| Nickel | 10.7 | 16.9 | 13.66 | 13.9 | 3:3 |
| Potassium | 582 | 913 | 783.74 | 800.33 | 3:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | U | 1.3 | .73 | .80 | 1:3 |
| Sodium | 34.70 | 41.30 | 32.86 | 33.58 | 2:3 |
| Thallium | U | U | NA | NA | 0:3 |
| Tin | U | U | NA | NA | 0:3 |
| Vanadium | 9.2 | 11.9 | 10.57 | 10.63 | 3:3 |
| Zinc | 37.10 | 55.9 | 36.35 | 38.72 | 3:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | U | NA | NA | 0:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.7 SOIL SERIES SUMMARY STATISTICS
### Hennepin & Miamian Silt Loam ($HeF_2$)
### Surface Samples - 0001
### Samples 1010, 1011, 1012
### (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | 15.00 | 10.67 | 11.00 | 1:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | .27 | .41 | .32 | .32 | 3:3 |
| Plutonium-238 | U | U | NA | NA | 0:3 |
| Plutonium-239/240 | U | .04 | .04 | .04 | 1:3 |
| Potassium-40 | 21.7 | 23.4 | 22.79 | 22.8 | 3:3 |
| Radium-226 | 1.04 | 1.14 | 1.08 | 1.08 | 3:3 |
| Strontium-90 | .63 | 1.13 | .8 | .83 | 3:3 |
| Thorium-228 | .77 | 1.04 | .86 | .87 | 3:3 |
| Thorium-230 | 1.08 | 2.00 | 1.51 | 1.56 | 3:3 |
| Thorium-232 | .83 | .96 | .91 | .92 | 3:3 |
| Tritium | .02 | .19 | .05 | .08 | 3:3 |
| Uranium-234 | .83 | 1.04 | .91 | .91 | 3:3 |
| Uranium-235/236 | U | .11 | .05 | .06 | 1:3 |
| Uranium-238 | .88 | 1.06 | .96 | .96 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 38.10 | 62.1 | 46.47 | 47.53 | 3:3 |
| Fluoride | 1.5 | 2.0 | 1.75 | 1.77 | 3:3 |
| Nitrate/Nitrite | 1.8 | 3.1 | 2.37 | 2.43 | 3:3 |
| Sulfate | 91.3 | 153 | 126.23 | 129.43 | 3:3 |
| TOC | 5,430 | 15,900 | 9,616.38 | 10,543.33 | 3:3 |

U - Not detected.
NA - Not applicable.
R - Unusable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.8 SOIL SERIES SUMMARY STATISTICS
### Hennepin & Miamian Silt Loam ($HeF_2$)
### Subsurface Samples - 0002
### Samples 1010, 1011, 1012

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 11,700 | 14,600 | 12,703.01 | 12,766.67 | 3:3 |
| Antimony | R | R | NA | NA | NA |
| Arsenic | 2.8 | 6.6 | 3.9 | 4.2 | 3:3 |
| Barium | 79.7 | 87.3 | 83.51 | 83.57 | 3:3 |
| Beryllium | .69 | .88 | .79 | .79 | 3:3 |
| Bismuth | U | U | NA | NA | O:3 |
| Cadmium | U | U | NA | NA | O:3 |
| Calcium | 27,500 | 48,900 | 35,897.7 | 36,933.33 | 3:3 |
| Chromium | 19.4 | 23.7 | 20.81 | 20.9 | 3:3 |
| Cobalt | 14.2 | 15.4 | 14.86 | 14.87 | 3:3 |
| Copper | 19.1 | 20.9 | 20.18 | 20.2 | 3:3 |
| Iron | 26,700 | 29,900 | 28,696.22 | 28,733.33 | 3:3 |
| Lead | 9.3 | 14.6 | 12.24 | 12.47 | 3:3 |
| Lithium | 22.6 | 24.7 | 23.48 | 23.5 | 3:3 |
| Magnesium | 4,750.00 | 4,940 | 4,832.69 | 4,833.33 | 3:3 |
| Manganese | 705 | 843 | 759.10 | 761.33 | 3:3 |
| Mercury | U | U | NA | NA | O:3 |
| Molybdenum | 21.5 | 23.8 | 22.75 | 22.77 | 3:3 |
| Nickel | 26.3 | 28.6 | 27.62 | 27.63 | 3:3 |
| Potassium | 907 | 1,490 | 1,105.6 | 1,132.33 | 3:3 |
| Selenium | U | U | NA | NA | O:3 |
| Silver | 1.4 | 1.5 | 1.05 | 1.15 | 2:3 |
| Sodium | 88.2 | 142 | 87.78 | 94.73 | 2:3 |
| Thallium | U | U | NA | NA | O:3 |
| Tin | U | U | NA | NA | O:3 |
| Vanadium | 12.7 | 16.7 | 14.84 | 14.93 | 3:3 |
| Zinc | 60.3 | 66.4 | 62.81 | 62.87 | 3:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | U | NA | NA | 0:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.8 SOIL SERIES SUMMARY STATISTICS
### Hennepin & Miamian Silt Loam ($HeF_2$)
### Subsurface Samples - 0002
### Samples 1010, 1011, 1012
### (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | 12.0 | 30.00 | 15.07 | 17.17 | 2:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | U | U | NA | NA | 0:3 |
| Plutonium-238 | U | .10 | .04 | .06 | 1:3 |
| Plutonium-239/240 | U | U | NA | NA | 0:3 |
| Potassium-40 | 33.9 | 35.9 | 34.76 | 34.77 | 3:3 |
| Radium-226 | 1.07 | 1.38 | 1.24 | 1.25 | 3:3 |
| Strontium-90 | .49 | .61 | .56 | .56 | 3:3 |
| Thorium-228 | 1.24 | 1.39 | 1.30 | 1.30 | 3:3 |
| Thorium-230 | 1.63 | 2.72 | 2.21 | 2.26 | 3:3 |
| Thorium-232 | 1.32 | 1.61 | 1.42 | 1.42 | 3:3 |
| Tritium | U | U | NA | NA | 0:3 |
| Uranium-234 | .85 | .98 | .93 | .93 | 3:3 |
| Uranium-235/236 | U | U | NA | NA | 0:3 |
| Uranium-238 | 1.01 | 1.29 | 1.14 | 1.14 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 49.4 | 94.6 | 66.53 | 69 | 3:3 |
| Fluoride | 3.8 | 18.3 | 7.39 | 9.30 | 3:3 |
| Nitrate/Nitrite | 1.9 | 2.4 | 2.12 | 2.13 | 3:3 |
| Sulfate | U | 85 | 40.61 | 47.05 | 1:3 |
| TOC | 2,190 | 6,070 | 3,572.53 | 3,896.67 | 3:3 |

U - Not detected.
NA - Not applicable.
R - Unusable.

UNITS

| | | |
|---|---|---|
| Inorganics | - | mg/kg. |
| Pesticides/PCBs | - | µg/kg. |
| Radionuclides | - | pCi/g. |
| Anions | - | mg/kg. |

## TABLE I.9 SOIL SERIES SUMMARY STATISTICS
### Hennepin ($HmF_3$)
### Surface Samples - 0001
### Samples 1013, 1014, 1015

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 4,810 | 7,450 | 6,133.74 | 6,233.33 | 3:3 |
| Antimony | R | R | NA | NA | NA |
| Arsenic | 5.70 | 8.80 | 7.44 | 7.57 | 3:3 |
| Barium | 42.8 | 63.9 | 53.12 | 53.83 | 3:3 |
| Beryllium | 0.48 | 0.61 | 0.53 | 0.53 | 3:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | U | U | NA | NA | 0:3 |
| Calcium | 56,200 | 67,600 | 61,086.43 | 61,266.67 | 3:3 |
| Chromium | 7.40 | 9.80 | 8.86 | 8.93 | 3:3 |
| Cobalt | 6.40 | 7.70 | 7.18 | 7.20 | 3:3 |
| Copper | 13.50 | 15.2 | 14.08 | 14.10 | 3:3 |
| Iron | 13,800 | 17,200 | 15,826.13 | 15,900.00 | 3:3 |
| Lead | 13.0 | 18.40 | 15.61 | 15.77 | 3:3 |
| Lithium | 7.30 | 10.5 | 9.15 | 9.27 | 3:3 |
| Magnesium | 22,800 | 26,100 | 24,295.78 | 24,333.33 | 3:3 |
| Manganese | 252 | 686 | 370.00 | 410.33 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | 12.1 | 15.1 | 13.71 | 13.77 | 3:3 |
| Nickel | 12.6 | 16.4 | 15.02 | 15.13 | 3:3 |
| Potassium | 493 | 909 | 690.30 | 712.00 | 3:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | U | U | NA | NA | 0:3 |
| Sodium | U | U | NA | NA | 0:3 |
| Thallium | U | U | NA | NA | 0:3 |
| Tin | U | 5.10 | 2.69 | 3.00 | 1:3 |
| Vanadium | 18.10 | 21.2 | 19.53 | 19.57 | 3:3 |
| Zinc | U | 73.6 | 35.24 | 40.87 | 1:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | U | NA | NA | 0:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.9 SOIL SERIES SUMMARY STATISTICS
## Hennepin ($HmF_3$)
## Surface Samples - 0001
## Samples 1013, 1014, 1015
## (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | 0.23 | 0.49 | 0.37 | 0.39 | 3:3 |
| Plutonium-238 | U | U | NA | NA | 0:3 |
| Plutonium-239/240 | 0.08 | 0.11 | 0.06 | 0.07 | 2:3 |
| Potassium-40 | 11.9 | 17.1 | 14.7 | 14.9 | 3:3 |
| Radium-226 | 0.95 | 1.21 | 1.09 | 1.1 | 3:3 |
| Strontium-90 | 0.43 | 0.53 | 0.47 | 0.47 | 3:3 |
| Thorium-228 | 0.81 | 0.83 | 0.82 | 0.82 | 3:3 |
| Thorium-230 | 1.64 | 4.43 | 2.33 | 2.61 | 3:3 |
| Thorium-232 | 0.85 | 1.39 | 1.04 | 1.06 | 3:3 |
| Tritium | 0.09 | 1.39 | 0.25 | 0.54 | 3:3 |
| Uranium-234 | 0.56 | 0.88 | 0.73 | 0.74 | 3:3 |
| Uranium-235/236 | 0.04 | 0.07 | 0.06 | 0.06 | 3:3 |
| Uranium-238 | 0.79 | 1.00 | 0.89 | 0.89 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 45.60 | 55.90 | 50.86 | 51.03 | 3:3 |
| Fluoride | 2.30 | 3.00 | 2.68 | 2.70 | 3:3 |
| Nitrate/Nitrite | 6.10 | 8.00 | 7.02 | 7.07 | 3:3 |
| Sulfate | 71.0 | 85.5 | 80.14 | 80.43 | 3:3 |
| TOC | 3,210 | 9,950 | 6,123.77 | 6,783.33 | 3:3 |
| Percent Solids | 91.8 | 93.0 | 92.3 | 92.3 | NA |

U - Not detected.
NA - Not applicable.
R - Unusable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.10 SOIL SERIES SUMMARY STATISTICS
### Hennepin ($HmF_3$)
### Subsurface Samples - 0002
### Samples 1013, 1014, 1015

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 4,600 | 5,760 | 5,021.92 | 5,046.67 | 3:3 |
| Antimony | R | R | NA | NA | NA |
| Arsenic | 5.80 | 7.20 | 6.60 | 6.63 | 3:3 |
| Barium | 36.1 | 49.1 | 41.35 | 41.7 | 3:3 |
| Beryllium | 0.29 | 0.40 | 0.35 | 0.35 | 3:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | U | U | NA | NA | 0:3 |
| Calcium | 98,200 | 103,000 | 101,045.34 | 101,066.67 | 3:3 |
| Chromium | 6.30 | 9.00 | 7.90 | 8.00 | 3:3 |
| Cobalt | 5.60 | 7.10 | 6.17 | 6.20 | 3:3 |
| Copper | 11.2 | 15.2 | 12.76 | 12.87 | 3:3 |
| Iron | 12,200 | 14,800 | 13,718.90 | 13,766.67 | 3:3 |
| Lead | 8.40 | 11.9 | 9.47 | 9.60 | 3:3 |
| Lithium | 8.50 | 11.4 | 9.59 | 9.67 | 3:3 |
| Magnesium | 33,000 | 37,400 | 35,839.74 | 35,900.00 | 3:3 |
| Manganese | 228 | 470 | 304.32 | 320.33 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | 11.1 | 12.8 | 12.17 | 12.20 | 3:3 |
| Nickel | 12.20 | 27.70 | 17.18 | 18.30 | 3:3 |
| Potassium | 600 | 781 | 658.01 | 663.00 | 3:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | U | U | NA | NA | 0:3 |
| Sodium | U | 145.00 | 86.40 | 92.83 | 1:3 |
| Thallium | U | U | NA | NA | 0:3 |
| Tin | 5.20 | 7.80 | 6.41 | 6.50 | 3:3 |
| Vanadium | 19.7 | 20.8 | 20.16 | 20.17 | 3:3 |
| Zinc | U | 142 | 38.09 | 60.48 | 1:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | U | NA | NA | 0:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.10 SOIL SERIES SUMMARY STATISTICS
### Hennepin ($HmF_3$)
### Subsurface Samples - 0002
### Samples 1013, 1014, 1015
### (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | U | U | NA | NA | 0:3 |
| Plutonium-238 | U | 0.07 | 0.03 | 0.04 | 1:3 |
| Plutonium-239/240 | U | U | NA | NA | 0:3 |
| Potassium-40 | 14.9 | 15.1 | 15.0 | 15.0 | 3:3 |
| Radium-226 | 0.99 | 1.09 | 1.06 | 1.06 | 3:3 |
| Strontium-90 | 0.34 | 0.35 | 0.26 | 0.28 | 2:3 |
| Thorium-228 | 0.69 | 0.72 | 0.71 | 0.71 | 3:3 |
| Thorium-230 | 1.46 | 1.83 | 1.63 | 1.63 | 3:3 |
| Thorium-232 | 0.49 | 0.71 | 0.55 | 0.56 | 3:3 |
| Tritium | 0.02 | 0.03 | 0.02 | 0.02 | 2:3 |
| Uranium-234 | 0.77 | 0.88 | 0.83 | 0.84 | 3:3 |
| Uranium-235/236 | U | U | NA | NA | 0:3 |
| Uranium-238 | 0.75 | 0.93 | 0.86 | 0.86 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 34.4 | 48.3 | 39.99 | 40.4 | 3:3 |
| Fluoride | 3.90 | 4.30 | 4.06 | 4.07 | 3:3 |
| Nitrate/Nitrite | 1.50 | 2.20 | 1.88 | 1.90 | 3:3 |
| Sulfate | U | 73.2 | 37.18 | 42.07 | 1:3 |
| TOC | 2,350 | 33,800 | 6,630.56 | 13,273.33 | 3:3 |
| Percent Solids | 93.9 | 94.7 | 94.4 | 94.4 | NA |

U - Not detected.
NA - Not applicable.
R - Unusable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.11 SOIL SERIES SUMMARY STATISTICS
### Made Land (Mb)
### Surface Samples - 0001
### Samples 1016, 1017, 1018

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 3,340 | 3,960 | 3,735.19 | 3,746.67 | 3:3 |
| Antimony | R | R | NA | NA | NA |
| Arsenic | 4.60 | 4.80 | 4.70 | 4.70 | 3:3 |
| Barium | 49.1 | 54.7 | 52.7 | 52.77 | 3:3 |
| Beryllium | 0.30 | 0.43 | 0.35 | 0.35 | 3:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | U | U | NA | NA | 0:3 |
| Calcium | 58,800 | 63,700 | 61,860.19 | 61,900 | 3:3 |
| Chromium | 8.30 | 10.5 | 9.01 | 9.07 | 3:3 |
| Cobalt | U | U | NA | NA | 0:3 |
| Copper | 13.9 | 17.5 | 15.43 | 15.5 | 3:3 |
| Iron | 12,100 | 13,000 | 12,627.37 | 12,633.33 | 3:3 |
| Lead | 14.8 | 57.7 | 31.18 | 36.0 | 3:3 |
| Lithium | U | U | NA | NA | 0:3 |
| Magnesium | 19,700 | 20,100 | 19,932.61 | 19,933.33 | 3:3 |
| Manganese | 477 | 499 | 484.90 | 485 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | U | U | NA | NA | 0:3 |
| Nickel | 11.6 | 12.6 | 11.96 | 11.97 | 3:3 |
| Potassium | U | U | NA | NA | 0:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | U | U | NA | NA | 0:3 |
| Sodium | 93.3 | 123 | 110.95 | 111.77 | 3:3 |
| Thallium | 0.22 | 0.26 | 0.18 | 0.20 | 2:3 |
| Tin | 7.00 | 12.70 | 8.81 | 9.13 | 3:3 |
| Vanadium | 13.3 | 14.3 | 13.89 | 13.90 | 3:3 |
| Zinc | 62.1 | 81.5 | 69.87 | 70.33 | 3:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | 1.90 | 1.82 | 1.85 | 1:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.11 SOIL SERIES SUMMARY STATISTICS
### Made Land (Mb)
### Surface Samples - 0001
### Samples 1016, 1017, 1018
### (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | 0.15 | 0.30 | 0.23 | 0.24 | 3:3 |
| Plutonium-238 | U | 0.05 | 0.03 | 0.03 | 1:3 |
| Plutonium-239/240 | U | 0.03 | 0.03 | 0.03 | 1:3 |
| Potassium-40 | 12.2 | 15.5 | 14.0 | 14.07 | 3:3 |
| Radium-226 | 0.67 | 0.88 | 0.75 | 0.76 | 3:3 |
| Strontium-90 | U | U | NA | NA | 0:3 |
| Thorium-228 | 0.50 | 0.62 | 0.58 | 0.58 | 3:3 |
| Thorium-230 | 1.02 | 1.25 | 1.13 | 1.13 | 3:3 |
| Thorium-232 | 0.50 | 0.57 | 0.54 | 0.54 | 3:3 |
| Tritium | 0.07 | 0.09 | 0.04 | 0.06 | 2:3 |
| Uranium-234 | 0.59 | 0.84 | 0.70 | 0.71 | 3:3 |
| Uranium-235/236 | U | U | NA | NA | 0:3 |
| Uranium-238 | 0.53 | 0.77 | 0.65 | 0.66 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 36.4 | 44.6 | 39.2 | 39.4 | 3:3 |
| Fluoride | 3.00 | 4.00 | 3.51 | 3.53 | 3:3 |
| Nitrate/Nitrite | 3.20 | 3.90 | 3.49 | 3.50 | 3:3 |
| Sulfate | 74.6 | 123 | 63.46 | 75.15 | 2:3 |
| TOC | 18,200 | 21,800 | 20,110.70 | 20,166.67 | 3:3 |

U - Not detected.
NA - Not applicable.
R - Unusable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.12 SOIL SERIES SUMMARY STATISTICS
### Made Land (Mb)
### Subsurface Samples - 0002
### Samples 1016, 1017, 1018

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 466 | 3,680 | 1,789.20 | 2,495.33 | 3:3 |
| Antimony | R | R | NA | NA | NA |
| Arsenic | 4.40 | 5.60 | 4.80 | 4.83 | 3:3 |
| Barium | 49.1 | 57.1 | 53.43 | 53.53 | 3:3 |
| Beryllium | 0.30 | 0.45 | 0.34 | 0.35 | 3:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | U | 3.20 | 0.55 | 1.22 | 1:3 |
| Calcium | 59,300 | 63,200 | 61,741.49 | 61,766.67 | 3:3 |
| Chromium | 8.90 | 9.10 | 9.00 | 9.00 | 3:3 |
| Cobalt | U | U | NA | NA | 0:3 |
| Copper | 13.5 | 16.0 | 14.56 | 14.6 | 3:3 |
| Iron | 11,700 | 13,800 | 12,704.46 | 12,733.33 | 3:3 |
| Lead | 12.6 | 46.5 | 23.90 | 27.47 | 3:3 |
| Lithium | U | U | NA | NA | 0:3 |
| Magnesium | 20,100 | 22,900 | 21,436.23 | 21,466.67 | 3:3 |
| Manganese | 440 | 495 | 471.09 | 471.67 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | U | U | NA | NA | 0:3 |
| Nickel | 11.1 | 13.4 | 12.2 | 12.23 | 3:3 |
| Potassium | U | U | NA | NA | 0:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | U | U | NA | NA | 0:3 |
| Sodium | 110 | 124 | 116.19 | 116.33 | 3:3 |
| Thallium | 0.33 | 0.46 | 0.26 | 0.30 | 2:3 |
| Tin | 6.20 | 9.30 | 8.07 | 8.20 | 3:3 |
| Vanadium | 13.0 | 16.0 | 14.28 | 14.33 | 3:3 |
| Zinc | 61.50 | 64.90 | 63.32 | 63.33 | 3:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | U | NA | NA | 0:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.12 SOIL SERIES SUMMARY STATISTICS
### Made Land (Mb)
### Subsurface Samples - 0002
### Samples 1016, 1017, 1018
### (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | 0.17 | 0.19 | 0.12 | 0.14 | 2:3 |
| Plutonium-238 | U | 0.04 | 0.02 | 0.03 | 1:3 |
| Plutonium-239/240 | 0.06 | 0.14 | 0.05 | 0.07 | 2:3 |
| Potassium-40 | 12.7 | 17.0 | 14.83 | 14.93 | 3:3 |
| Radium-226 | 0.80 | 1.05 | 0.92 | 0.92 | 3:3 |
| Strontium-90 | U | U | NA | NA | 0:3 |
| Thorium-228 | 0.51 | 0.67 | 0.58 | 0.58 | 3:3 |
| Thorium-230 | 0.98 | 1.17 | 1.07 | 1.08 | 3:3 |
| Thorium-232 | 0.49 | 0.57 | 0.53 | 0.53 | 3:3 |
| Tritium | U | 0.04 | 0.02 | 0.02 | 1:3 |
| Uranium-234 | 0.56 | 0.66 | 0.60 | 0.60 | 3:3 |
| Uranium-235/236 | 0.03 | 0.06 | 0.04 | 0.04 | 2:3 |
| Uranium-238 | 0.59 | 0.74 | 0.66 | 0.67 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 37.0 | 44.7 | 41.27 | 41.40 | 3:3 |
| Fluoride | 2.90 | 3.40 | 3.16 | 3.17 | 3:3 |
| Nitrate/Nitrite | 3.90 | 5.50 | 4.69 | 4.73 | 3:3 |
| Sulfate | U | U | NA | NA | 0:3 |
| TOC | 6,240 | 28,200 | 15,772.95 | 18,913.33 | 3:3 |
| Percent Solids | 88.7 | 89.8 | 89.1 | 89.1 | NA |

U - Not detected.
NA - Not applicable.
R - Unusable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.13 SOIL SERIES SUMMARY STATISTICS
## Miamian Silt Loam (MIB)
## Surface Samples - 0001
## Samples 1019, 1020, 1021

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 4,930 | 5,580 | 5,141.26 | 5,150 | 3:3 |
| Antimony | R | R | NA | NA | NA |
| Arsenic | 3.5 | 4.10 | 3.69 | 3.7 | 3:3 |
| Barium | 50.3 | 55.7 | 52.35 | 52.4 | 3:3 |
| Beryllium | .42 | .46 | .44 | .44 | 3:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | U | U | NA | NA | 0:3 |
| Calcium | 929 | 1,430 | 1,120.86 | 1,139.67 | 3:3 |
| Chromium | 9.6 | 10.4 | 9.93 | 9.93 | 3:3 |
| Cobalt | 10.2 | 11.2 | 10.69 | 10.7 | 3:3 |
| Copper | 8.7 | 9 | 8.9 | 8.9 | 3:3 |
| Iron | 12,700 | 13,400 | 13,096.67 | 13,100.00 | 3:3 |
| Lead | 18.6 | 60.9 | 27.91 | 32.9 | 3:3 |
| Lithium | U | U | NA | NA | 0:3 |
| Magnesium | 1,110 | 1,280 | 1,217.43 | 1,220 | 3:3 |
| Manganese | 569 | 681 | 632.5 | 634.33 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | U | U | NA | NA | 0:3 |
| Nickel | 8.7 | 10.7 | 9.8 | 9.83 | 3:3 |
| Potassium | U | U | NA | NA | 0:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | U | U | NA | NA | 0:3 |
| Sodium | 35.2 | 36 | 35.46 | 35.47 | 3:3 |
| Thallium | U | .34 | .16 | .19 | 1:3 |
| Tin | U | U | NA | NA | 0:3 |
| Vanadium | 10.9 | 12.5 | 11.68 | 11.7 | 3:3 |
| Zinc | 40.5 | 49.2 | 43.74 | 43.9 | 3:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | U | NA | NA | 0:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.13 SOIL SERIES SUMMARY STATISTICS
## Miamian Silt Loam (MIB)
## Surface Samples - 0001
## Samples 1019, 1020, 1021
## (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | .29 | .69 | .22 | .34 | 2:3 |
| Plutonium-238 | U | .08 | .05 | .05 | 1:3 |
| Plutonium-239/240 | .09 | .1 | .08 | .08 | 2:3 |
| Potassium-40 | 16.4 | 21.8 | 18.7 | 18.83 | 3:3 |
| Radium-226 | .98 | 1.38 | 1.16 | 1.17 | 3:3 |
| Strontium-90 | U | .3 | .18 | .19 | 1:3 |
| Thorium-228 | .82 | 1.22 | 1.02 | 1.03 | 3:3 |
| Thorium-230 | .96 | 1.86 | 1.22 | 1.28 | 3:3 |
| Thorium-232 | .78 | .89 | .83 | .83 | 3:3 |
| Tritium | .08 | .13 | .05 | .08 | 2:3 |
| Uranium-234 | .65 | 1.08 | .77 | .79 | 3:3 |
| Uranium-235/236 | U | .07 | .05 | .06 | 1:3 |
| Uranium-238 | .67 | 1.28 | .86 | .90 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 26.7 | 40 | 31.48 | 31.97 | 3:3 |
| Fluoride | U | U | NA | NA | 0:3 |
| Nitrate/Nitrite | 15.5 | 21.2 | 18.73 | 18.9 | 3:3 |
| Sulfate | U | U | NA | NA | 0:3 |
| TOC | 4,540 | 11,600 | 7,474.73 | 8,023.33 | 3:3 |

U - Not detected.
NA - Not applicable.
R - Unusable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.14 SOIL SERIES SUMMARY STATISTICS
### Miamian Silt Loam (MIB)
### Subsurface Samples - 0002
### Samples 1019, 1020, 1021

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 11,800 | 21,600 | 14,946.37 | 15,500 | 3:3 |
| Antimony | R | R | NA | NA | NA |
| Arsenic | 3.8 | 7.2 | 5.22 | 5.4 | 3:3 |
| Barium | 71.3 | 140 | 107.37 | 111.77 | 3:3 |
| Beryllium | .88 | 1.8 | 1.13 | 1.2 | 3:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | U | U | NA | NA | 0:3 |
| Calcium | 2,090 | 17,000 | 5,209.86 | 7,690 | 3:3 |
| Chromium | 16.6 | 32 | 21.98 | 22.87 | 3:3 |
| Cobalt | 12.8 | 28.6 | 18.21 | 19.3 | 3:3 |
| Copper | 19.5 | 42.9 | 27.77 | 29.33 | 3:3 |
| Iron | 29,800 | 52,800 | 37,642.92 | 38,833.33 | 3:3 |
| Lead | 19.5 | 35.2 | 25.96 | 26.73 | 3:3 |
| Lithium | U | U | NA | NA | 0:3 |
| Magnesium | 2,880 | 5,330 | 3,868 | 3,993.33 | 3:3 |
| Manganese | 370 | 1340 | 831.61 | 956.67 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | U | U | NA | NA | 0:3 |
| Nickel | 22.7 | 50.2 | 30.94 | 32.97 | 3:3 |
| Potassium | U | U | NA | NA | 0:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | 1.4 | 1.7 | 1.09 | 1.22 | 2:3 |
| Sodium | 50.8 | 78.6 | 59.74 | 60.93 | 3:3 |
| Thallium | .34 | .43 | .25 | .29 | 2:3 |
| Tin | U | U | NA | NA | 0:3 |
| Vanadium | 7.3 | 29.3 | 16.31 | 18.97 | 3:3 |
| Zinc | 51.2 | 125 | 76.81 | 82.33 | 3:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | U | NA | NA | 0:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.14 SOIL SERIES SUMMARY STATISTICS
### Miamian Silt Loam (MIB)
### Subsurface Samples - 0002
### Samples 1019, 1020, 1021
### (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | U | .27 | .09 | .12 | 1:3 |
| Plutonium-238 | .06 | .11 | .06 | .07 | 2:3 |
| Plutonium-239/240 | .11 | .17 | .08 | .10 | 2:3 |
| Potassium-40 | 17.4 | 21.3 | 19.13 | 19.20 | 3:3 |
| Radium-226 | 1.53 | 2.02 | 1.72 | 1.73 | 3:3 |
| Strontium-90 | U | U | NA | NA | 0:3 |
| Thorium-228 | .74 | 1.1 | .89 | .9 | 3:3 |
| Thorium-230 | .96 | 1.85 | 1.4 | 1.45 | 3:3 |
| Thorium-232 | .86 | 1.02 | .94 | .94 | 3:3 |
| Tritium | U | U | NA | NA | 0:3 |
| Uranium-234 | .79 | 1.14 | .99 | 1.00 | 3:3 |
| Uranium-235/236 | .04 | .10 | .06 | .06 | 2:3 |
| Uranium-238 | .6 | 1.28 | .93 | .97 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 23.5 | 32.1 | 27.44 | 27.67 | 3:3 |
| Fluoride | U | U | NA | NA | 0:3 |
| Nitrate/Nitrite | U | U | NA | NA | 0:3 |
| Sulfate | 73.4 | 108 | 60.91 | 69.97 | 2:3 |
| TOC | 2,810 | 14,100 | 5,039.37 | 6,713.33 | 3:3 |

U - Not detected.
NA - Not applicable.
R - Unusable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.15 SOIL SERIES SUMMARY STATISTICS
### Miamian Silt Loam ($MnC_3$)
### Surface Samples - 0001
### Samples 1022, 1023, 1024

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 4,640 | 10,300 | 7,645.20 | 8,096.67 | 3:3 |
| Antimony | R | R | NA | NA | NA |
| Arsenic | 5.00 | 8.20 | 6.69 | 6.83 | 3:3 |
| Barium | 69.0 | 121 | 96.01 | 98.67 | 3:3 |
| Beryllium | 0.61 | 1.20 | 0.93 | 0.97 | 3:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | U | U | NA | NA | 0:3 |
| Calcium | 15,300 | 66,900 | 30,602.61 | 36,733.33 | 3:3 |
| Chromium | 6.80 | 16.2 | 12.05 | 12.97 | 3:3 |
| Cobalt | 7.60 | 11.70 | 9.77 | 9.93 | 3:3 |
| Copper | 16.20 | 33.10 | 23.56 | 24.57 | 3:3 |
| Iron | 15,300 | 28,700 | 23,217 | 24,106.67 | 3:3 |
| Lead | 19.7 | 26.1 | 23.46 | 23.63 | 3:3 |
| Lithium | U | U | NA | NA | 0:3 |
| Magnesium | 8,400 | 32,100 | 15,897.31 | 18,466.67 | 3:3 |
| Manganese | 350 | 695 | 504 | 524 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | 14.6 | 27.2 | 22.0 | 22.87 | 3:3 |
| Nickel | 15.1 | 27.7 | 20.83 | 21.47 | 3:3 |
| Potassium | 215 | 463 | 332.12 | 348.67 | 3:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | U | U | NA | NA | 0:3 |
| Sodium | U | U | NA | NA | 0:3 |
| Thallium | U | U | NA | NA | 0:3 |
| Tin | U | 5.60 | 3.00 | 3.33 | 1:3 |
| Vanadium | 17.2 | 21.7 | 19.67 | 19.77 | 3:3 |
| Zinc | U | U | NA | NA | 0:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | 2.30 | 12.00 | 3.74 | 5.40 | 2:3 |
| 4,4-DDT | 3.10 | 13.00 | 6.89 | 8.07 | 3:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.15 SOIL SERIES SUMMARY STATISTICS
## Miamian Silt Loam ($MnC_3$)
## Surface Samples - 0001
## Samples 1022, 1023, 1024
## (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | 12.00 | 10.27 | 10.33 | 1:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | 0.52 | 0.73 | 0.58 | 0.59 | 3:3 |
| Plutonium-238 | U | U | NA | NA | 0:3 |
| Plutonium-239/240 | U | U | NA | NA | 0:3 |
| Potassium-40 | 13.50 | 17.20 | 15.42 | 15.50 | 3:3 |
| Radium-226 | 1.49 | 1.75 | 1.64 | 1.65 | 3:3 |
| Strontium-90 | U | U | NA | NA | 0:3 |
| Thorium-228 | 0.87 | 1.17 | 1.04 | 1.05 | 3:3 |
| Thorium-230 | 1.89 | 2.76 | 2.28 | 2.30 | 3:3 |
| Thorium-232 | 0.71 | 1.07 | 0.91 | 0.92 | 3:3 |
| Tritium | 0.16 | 0.88 | 0.32 | 0.43 | 3:3 |
| Uranium-234 | 0.95 | 1.12 | 1.02 | 1.02 | 3:3 |
| Uranium-235/236 | U | 0.07 | 0.04 | 0.04 | 1:3 |
| Uranium-238 | 1.06 | 1.24 | 1.17 | 1.17 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 30.2 | 56.70 | 40.95 | 42.33 | 3:3 |
| Fluoride | 3.30 | 5.40 | 4.34 | 4.43 | 3:3 |
| Nitrate/Nitrite | 2.80 | 13.50 | 5.70 | 7.07 | 3:3 |
| Sulfate | U | U | NA | NA | 0:3 |
| TOC | 2,860 | 25,500 | 9,618.09 | 13,520 | 3:3 |

U - Not detected.
NA - Not applicable.
R - Unusable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.16 SOIL SERIES SUMMARY STATISTICS
### Miamian Silt Loam ($MnC_3$)
### Subsurface Samples - 0002
### Samples 1022, 1023, 1024

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 3,400 | 4,630 | 3,965.08 | 3,996.67 | 3:3 |
| Antimony | R | R | NA | NA | NA |
| Arsenic | 4.10 | 6.10 | 5.10 | 5.17 | 3:3 |
| Barium | 46.4 | 70.7 | 57.78 | 58.63 | 3:3 |
| Beryllium | 0.41 | 0.57 | 0.50 | 0.51 | 3:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | U | U | NA | NA | 0:3 |
| Calcium | 86,400 | 140,000 | 104,742.22 | 107,133.33 | 3:3 |
| Chromium | 4.60 | 6.10 | 5.16 | 5.20 | 3:3 |
| Cobalt | 6.00 | 10.10 | 7.25 | 7.47 | 3:3 |
| Copper | 15.10 | 16.40 | 11.72 | 12.67 | 3:3 |
| Iron | 13,500 | 16,400 | 14,852.96 | 14,900 | 3:3 |
| Lead | 8.20 | 11.3 | 9.38 | 9.47 | 3:3 |
| Lithium | U | U | NA | NA | 0:3 |
| Magnesium | 46,500 | 50,500 | 49,129.83 | 49,166.61 | 3:3 |
| Manganese | 299 | 579 | 410.65 | 426 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | 12.9 | 16.8 | 14.94 | 15.03 | 3:3 |
| Nickel | 12.9 | 27.9 | 17.35 | 18.43 | 3:3 |
| Potassium | 133 | 197 | 167.70 | 170 | 3:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | U | U | NA | NA | 0:3 |
| Sodium | U | U | NA | NA | 0:3 |
| Thallium | U | U | NA | NA | 0:3 |
| Tin | 5.30 | 7.00 | 6.26 | 6.30 | 3:3 |
| Vanadium | 18.7 | 20.5 | 19.42 | 19.43 | 3:3 |
| Zinc | U | U | NA | NA | 0:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | U | NA | NA | 0:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.16 SOIL SERIES SUMMARY STATISTICS
### Miamian Silt Loam ($MnC_3$)
### Subsurface Samples - 0002
### Samples 1022, 1023, 1024
### (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | U | U | NA | NA | 0:3 |
| Plutonium-238 | U | U | NA | NA | 0:3 |
| Plutonium-239/240 | U | U | NA | NA | 0:3 |
| Potassium-40 | 10.9 | 13.0 | 12.0 | 12.03 | 3:3 |
| Radium-226 | 0.93 | 1.27 | 1.12 | 1.13 | 3:3 |
| Strontium-90 | U | 0.39 | 0.21 | 0.23 | 1:3 |
| Thorium-228 | 0.61 | 0.69 | 0.64 | 0.64 | 3:3 |
| Thorium-230 | 1.21 | 1.59 | 1.45 | 1.46 | 3:3 |
| Thorium-232 | 0.40 | 0.57 | 0.49 | 0.49 | 3:3 |
| Tritium | U | U | NA | NA | 0:3 |
| Uranium-234 | 0.74 | 1.05 | 0.88 | 0.89 | 3:3 |
| Uranium-235/236 | U | 0.03 | 0.03 | 0.03 | 1:3 |
| Uranium-238 | 0.77 | 1.17 | 0.94 | 0.95 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 31.20 | 47.20 | 35.97 | 36.67 | 3:3 |
| Fluoride | 4.00 | 5.40 | 4.53 | 4.57 | 3:3 |
| Nitrate/Nitrite | 0.76 | 1.00 | 0.88 | 0.89 | 3:3 |
| Sulfate | U | U | NA | NA | 0:3 |
| TOC | 4,600 | 12,900 | 8,309.81 | 9,056.67 | 3:3 |

U - Not detected.
NA - Not applicable.
R - Unusable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.17 SOIL SERIES SUMMARY STATISTICS
### Miamian Silt Loam ($MnD_3$)
### Surface Samples - 0001
### Samples 1025, 1026, 1027

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 6,800 | 8,570 | 7,827.62 | 7,866.17 | 3:3 |
| Antimony | R | R | NA | NA | NA |
| Arsenic | 4.90 | 6.30 | 5.40 | 5.43 | 3:3 |
| Barium | 68.0 | 74.4 | 71.58 | 71.63 | 3:3 |
| Beryllium | 0.75 | 0.88 | 0.81 | 0.82 | 3:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | U | U | NA | NA | 0:3 |
| Calcium | 22,500 | 34,100 | 28,286.96 | 28,700 | 3:3 |
| Chromium | 10.1 | 11.7 | 11.04 | 11.07 | 3:3 |
| Cobalt | 9.9 | 10.4 | 10.13 | 10.13 | 3:3 |
| Copper | 20.6 | 21.4 | 20.93 | 20.93 | 3:3 |
| Iron | 20,200 | 21,300 | 20,828.12 | 20,833.32 | 3:3 |
| Lead | 11.4 | 16.8 | 13.84 | 14.10 | 3:3 |
| Lithium | U | U | NA | NA | 0:3 |
| Magnesium | 13,800 | 21,400 | 17,387.52 | 17,666.67 | 3:3 |
| Manganese | 493 | 578 | 542.72 | 544 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | 19.0 | 20.3 | 19.69 | 19.70 | 3:3 |
| Nickel | 20.5 | 24.10 | 22.42 | 22.47 | 3:3 |
| Potassium | 557 | 788 | 691.09 | 699.00 | 3:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | U | U | NA | NA | 0:3 |
| Sodium | U | 56.90 | 37.86 | 39.73 | 1:3 |
| Thallium | U | U | NA | NA | 0:3 |
| Tin | U | U | NA | NA | 0:3 |
| Vanadium | 13.6 | 16.7 | 15.28 | 15.33 | 3:3 |
| Zinc | U | 59.60 | 39.66 | 41.45 | 1:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | U | NA | NA | 0:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.17 SOIL SERIES SUMMARY STATISTICS
## Miamian Silt Loam ($MnD_3$)
## Surface Samples - 0001
## Samples 1025, 1026, 1027
## (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | 0.18 | 0.40 | 0.28 | 0.29 | 3:3 |
| Plutonium-238 | U | 0.19 | 0.04 | 0.08 | 1:3 |
| Plutonium-239/240 | U | 0.21 | 0.04 | 0.08 | 1:3 |
| Potassium-40 | 18.5 | 20.4 | 19.68 | 19.70 | 3:3 |
| Radium-226 | 1.43 | 1.65 | 1.56 | 1.57 | 3:3 |
| Strontium-90 | U | 0.36 | 0.20 | 0.22 | 1:3 |
| Thorium-228 | 0.68 | 1.33 | 0.90 | 0.94 | 3:3 |
| Thorium-230 | 1.94 | 2.55 | 2.20 | 2.21 | 3:3 |
| Thorium-232 | 0.80 | 1.08 | 0.92 | 0.92 | 3:3 |
| Tritium | 1.05 | 1.08 | 0.38 | 0.73 | 2:3 |
| Uranium-234 | 1.01 | 1.16 | 1.10 | 1.11 | 3:3 |
| Uranium-235/236 | U | 0.12 | 0.06 | 0.07 | 1:3 |
| Uranium-238 | 1.02 | 1.28 | 1.13 | 1.14 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 38.8 | 51.0 | 43.11 | 43.4 | 3:3 |
| Fluoride | 2.10 | 3.00 | 2.60 | 2.63 | 3:3 |
| Nitrate/Nitrite | 7.10 | 9.60 | 7.85 | 7.93 | 3:3 |
| Sulfate | 93.3 | 145 | 73.12 | 89.07 | 2:3 |
| TOC | 3,840 | 11,200 | 3,363.81 | 5,308.33 | 2:3 |

U - Not detected.
NA - Not applicable.
R - Unusable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.18 SOIL SERIES SUMMARY STATISTICS
### Miamian Silt Loam ($MnD_3$)
### Subsurface Samples - 0002
### Samples 1025, 1026, 1027

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 4,870 | 6,750 | 5,692.00 | 5,743.33 | 3:3 |
| Antimony | R | R | NA | NA | NA |
| Arsenic | 3.30 | 4.70 | 4.15 | 4.20 | 3:3 |
| Barium | 32.2 | 43.1 | 37.47 | 37.73 | 3:3 |
| Beryllium | 0.48 | 0.57 | 0.53 | 0.53 | 3:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | U | 2.70 | 0.60 | 1.10 | 1:3 |
| Calcium | 74,500 | 96,500 | 82,813.96 | 83,333.33 | 3:3 |
| Chromium | 6.20 | 7.50 | 6.91 | 6.93 | 3:3 |
| Cobalt | 7.00 | 8.20 | 7.41 | 7.43 | 3:3 |
| Copper | 13.8 | 16.7 | 15.12 | 15.17 | 3:3 |
| Iron | 14,000 | 16,600 | 15,128.90 | 15,166.67 | 3:3 |
| Lead | 7.50 | 15.3 | 9.88 | 10.40 | 3:3 |
| Lithium | U | U | NA | NA | 0:3 |
| Magnesium | 38,800 | 46,600 | 42,943.48 | 43,066.67 | 3:3 |
| Manganese | 306 | 336 | 322.75 | 323 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | 13.4 | 15.5 | 14.57 | 14.6 | 3:3 |
| Nickel | 17.1 | 18.60 | 17.99 | 18.00 | 3:3 |
| Potassium | 380 | 1,090 | 560.01 | 631.33 | 3:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | U | U | NA | NA | 0:3 |
| Sodium | U | 145 | 76.94 | 85.83 | 1:3 |
| Thallium | U | U | NA | NA | 0:3 |
| Tin | 4.60 | 5.20 | 4.99 | 5.00 | 3:3 |
| Vanadium | 15.4 | 18.4 | 17.28 | 17.33 | 3:3 |
| Zinc | U | 48.10 | 32.49 | 34.02 | 1:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | U | NA | NA | 0:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.18 SOIL SERIES SUMMARY STATISTICS
## Miamian Silt Loam ($MnD_3$)
## Subsurface Samples - 0002
## Samples 1025, 1026, 1027
## (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | U | U | NA | NA | 0:3 |
| Plutonium-238 | U | U | NA | NA | 0:3 |
| Plutonium-239/240 | U | U | NA | NA | 0:3 |
| Potassium-40 | 15.0 | 16.6 | 15.69 | 15.70 | 3:3 |
| Radium-226 | 1.18 | 1.27 | 1.21 | 1.21 | 3:3 |
| Strontium-90 | U | U | NA | NA | 0:3 |
| Thorium-228 | 0.54 | 0.68 | 0.60 | 0.61 | 3:3 |
| Thorium-230 | 1.31 | 1.99 | 1.65 | 1.68 | 3:3 |
| Thorium-232 | 0.49 | 0.61 | 0.55 | 0.56 | 3:3 |
| Tritium | 0.04 | 0.09 | 0.04 | 0.05 | 2:3 |
| Uranium-234 | 0.80 | 1.07 | 0.91 | 0.92 | 3:3 |
| Uranium-235/236 | 0.05 | 0.05 | 0.06 | 0.06 | 2:3 |
| Uranium-238 | 0.89 | 0.98 | 0.94 | 0.94 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 30.5 | 42.1 | 37.02 | 37.37 | 3:3 |
| Fluoride | 3.00 | 3.70 | 3.35 | 3.37 | 3:3 |
| Nitrate/Nitrite | 1.60 | 3.10 | 2.15 | 2.23 | 3:3 |
| Sulfate | U | U | NA | NA | 0:3 |
| TOC | 5,210 | 5,840 | 2,603.51 | 3,876.67 | 2:3 |

U - Not detected.
NA - Not applicable.
R - Unusable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.19 SOIL SERIES SUMMARY STATISTICS
### Miami Urban Land Complex (MoC)
### Surface Samples - 0001
### Samples 1028, 1029, 1030

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 8,430.00 | 8,880.00 | 8,674.66 | 8,676.67 | 3:3 |
| Antimony | U | U | NA | NA | 0:3 |
| Arsenic | 6.20 | 6.90 | 6.49 | 6.50 | 3:3 |
| Barium | 62.90 | 70.60 | 67.35 | 67.43 | 5:3 |
| Beryllium | 0.64 | 0.75 | 0.70 | 0.70 | 3:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | U | U | NA | NA | 0:3 |
| Calcium | 30,800.00 | 66,700.00 | 39,891.31 | 42,800.00 | 3:3 |
| Chromium | 12.00 | 14.60 | 12.95 | 13.00 | 3:3 |
| Cobalt | 8.90 | 10.30 | 9.68 | 9.70 | 3:3 |
| Copper | 15.90 | 17.30 | 16.59 | 16.60 | 3:3 |
| Iron | 18,900.00 | 20,500.00 | 19,788.61 | 19,800.00 | 3:3 |
| Lead | 12.50 | 20.40 | 15.32 | 15.67 | 3:3 |
| Lithium | 4.20 | 5.80 | 5.12 | 5.17 | 3:3 |
| Magnesium | 17,000.00 | 36,700.00 | 22,014.24 | 23,600.00 | 3:3 |
| Manganese | 394.00 | 472.00 | 423.70 | 425.00 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | 17.90 | 18.90 | 18.46 | 18.47 | 3:3 |
| Nickel | 18.20 | 18.90 | 18.63 | 18.63 | 3:3 |
| Potassium | 681.00 | 731.00 | 707.04 | 707.33 | 3:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | U | U | NA | NA | 0:3 |
| Sodium | U | U | NA | NA | 0:3 |
| Thallium | U | 0.26 | 0.14 | 0.16 | 1:3 |
| Tin | U | U | NA | NA | 0:3 |
| Vanadium | 18.80 | 21.60 | 19.90 | 19.93 | 3:3 |
| Zinc | 53.50 | 59.90 | 56.34 | 56.40 | 3:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | 3.80 | 2.29 | 2.45 | 1:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.19 SOIL SERIES SUMMARY STATISTICS
## Miami Urban Land Complex (MoC)
## Surface Samples - 0001
## Samples 1028, 1029, 1030
## (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | 0.28 | 0.49 | 0.36 | 0.37 | 3:3 |
| Plutonium-238 | 0.14 | 0.16 | 0.10 | 0.11 | 2:3 |
| Plutonium-239/240 | 0.14 | 0.23 | 0.19 | 0.19 | 3:3 |
| Potassium-40 | 18.30 | 19.50 | 18.76 | 18.77 | 3:3 |
| Radium-226 | 1.24 | 1.35 | 1.29 | 1.29 | 3:3 |
| Strontium-90 | U | U | NA | NA | 0:3 |
| Thorium-228 | 0.80 | 0.98 | 0.91 | 0.91 | 3:3 |
| Thorium-230 | 2.48 | 3.14 | 2.71 | 2.72 | 3:3 |
| Thorium-232 | 0.69 | 0.80 | 0.75 | 0.75 | 3:3 |
| Tritium | 0.11 | 0.26 | 0.18 | 0.20 | 3:3 |
| Uranium-234 | 0.69 | 0.90 | 0.77 | 0.78 | 3:3 |
| Uranium-235/236 | U | 0.06 | 0.03 | 0.04 | 1:3 |
| Uranium-238 | 0.89 | 0.98 | 0.94 | 0.94 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 14.90 | 47.30 | 31.35 | 35.30 | 3:3 |
| Fluoride | 3.00 | 4.00 | 3.34 | 3.37 | 3:3 |
| Nitrate/Nitrite | 6.10 | 8.20 | 7.11 | 7.11 | 3:3 |
| Sulfate | 142.00 | 149.00 | 82.97 | 106.00 | 2:3 |
| TOC | 5,060.00 | 14,900.00 | 9,590.49 | 10,553.33 | 3:3 |

U - Not detected.
NA - Not applicable.
R - Unusable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.20 SOIL SERIES SUMMARY STATISTICS
### Miami Urban Land Complex (MoC)
### Subsurface Samples - 0002
### Samples 1028, 1029, 1030

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 4,160.00 | 5,940.00 | 5,003.75 | 5,056.67 | 3:3 |
| Antimony | U | U | NA | NA | 0:3 |
| Arsenic | 5.60 | 6.70 | 6.12 | 6.13 | 3:3 |
| Barium | 30.00 | 38.00 | 34.97 | 35.17 | 3:3 |
| Beryllium | 0.34 | 0.52 | 0.41 | 0.42 | 3:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | U | 0.45 | 0.27 | 0.29 | 1:3 |
| Calcium | 105,000.00 | 167,000.00 | 135,539.13 | 138,000.00 | 3:3 |
| Chromium | 5.70 | 7.50 | 6.69 | 6.73 | 3:3 |
| Cobalt | 5.40 | 7.10 | 6.16 | 6.20 | 3:3 |
| Copper | U | 15.70 | 13.05 | 13.17 | 3:3 |
| Iron | 11,400.00 | 17,000.00 | 13,847.08 | 14,033.33 | 3:3 |
| Lead | 6.80 | 8.60 | 7.50 | 7.53 | 3:3 |
| Lithium | 4.30 | 4.40 | 4.37 | 4.37 | 3:3 |
| Magnesium | 38,900.00 | 56,100.00 | 49,536.18 | 50,233.33 | 3:3 |
| Manganese | 262.00 | 358.00 | 291.10 | 294.33 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | U | 16.20 | 8.37 | 9.42 | 1:3 |
| Nickel | 11.50 | 17.30 | 14.14 | 14.33 | 3:3 |
| Potassium | 429.00 | 590.00 | 484.02 | 489.00 | 3:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | U | U | NA | NA | 0:3 |
| Sodium | U | 217.00 | 124.69 | 135.67 | 1:3 |
| Thallium | U | U | NA | NA | 0:3 |
| Tin | U | U | NA | NA | 0:3 |
| Vanadium | 16.90 | 22.80 | 19.25 | 19.40 | 3:3 |
| Zinc | 38.70 | 40.90 | 29.64 | 32.02 | 2:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | U | NA | NA | 0:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.20 SOIL SERIES SUMMARY STATISTICS
## Miami Urban Land Complex (MoC)
## Subsurface Samples - 0002
## Samples 1028, 1029, 1030
## (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | U | U | NA | NA | 0:3 |
| Cobalt-60 | U | 0.06 | 0.06 | 0.06 | 1:3 |
| Plutonium-238 | U | 0.04 | 0.03 | 0.03 | 1:3 |
| Plutonium-239/240 | 0.03 | 0.10 | 0.05 | 0.06 | 2:3 |
| Potassium-40 | 13.10 | 15.90 | 14.08 | 14.13 | 3:3 |
| Radium-226 | 0.96 | 1.20 | 1.04 | 1.05 | 3:3 |
| Strontium-90 | U | U | NA | NA | 0:3 |
| Thorium-228 | 0.61 | 0.82 | 0.69 | 0.70 | 3:3 |
| Thorium-230 | 2.27 | 5.14 | 3.21 | 3.42 | 3:3 |
| Thorium-232 | 0.59 | 1.69 | 0.89 | 1.00 | 3:3 |
| Tritium | U | 0.02 | 0.01 | 0.01 | 1:3 |
| Uranium-234 | 0.78 | 1.00 | 0.91 | 0.92 | 3:3 |
| Uranium-235/236 | U | 0.09 | 0.04 | 0.05 | 1:3 |
| Uranium-238 | 0.77 | 1.06 | 0.95 | 0.96 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 35.20 | 40.10 | 38.07 | 38.13 | 3:3 |
| Fluoride | 3.30 | 4.30 | 3.81 | 3.83 | 3:3 |
| Nitrate/Nitrite | 1.10 | 3.90 | 1.82 | 2.13 | 3:3 |
| Sulfate | U | U | NA | NA | 0:3 |
| TOC | 1,420.00 | 2,300.00 | 1,920.84 | 1,963.33 | 3:3 |

U - Not detected.
NA - Not applicable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.21 SOIL SERIES SUMMARY STATISTICS
### Milton Silt Loam (MsB)
### Surface Samples - 0001
### Samples 1031, 1032, 1033

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 5,740 | 7,560.00 | 6,385.50 | 6,433.33 | 3:3 |
| Antimony | U | U | NA | NA | 0:3 |
| Arsenic | 5.60 | 8.70 | 6.71 | 6.83 | 3:3 |
| Barium | 91.40 | 95.10 | 92.89 | 92.90 | 3:3 |
| Beryllium | 0.78 | 0.91 | 0.83 | 0.84 | 3:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | U | U | NA | NA | 0:3 |
| Calcium | 6,460.00 | 11,800.00 | 8,361.87 | 8,643.33 | 3:3 |
| Chromium | 9.30 | 10.60 | 9.95 | 9.97 | 3:3 |
| Cobalt | 7.30 | 8.80 | 7.80 | 7.83 | 3:3 |
| Copper | 12.30 | 12.70 | 12.53 | 12.53 | 3:3 |
| Iron | 15,300.00 | 18,900.00 | 16,732.32 | 16,800.00 | 3:3 |
| Lead | 29.70 | 38.90 | 32.64 | 32.90 | 3:3 |
| Lithium | U | U | NA | NA | 0:3 |
| Magnesium | 3,360.00 | 6,190.00 | 4,268.75 | 4,430.00 | 3:3 |
| Manganese | 555.00 | 634.00 | 596.11 | 597.00 | 3:3 |
| Mercury | U | 0.15 | 0.05 | 0.07 | 1:3 |
| Molybdenum | 14.40 | 16.20 | 15.08 | 15.10 | 3:3 |
| Nickel | 6.90 | 8.40 | 6.17 | 6.45 | 2:3 |
| Potassium | 434 | 569.00 | 168.43 | 340.78 | 2:3 |
| Selenium | 0.31 | 0.59 | 0.43 | 0.45 | 3:3 |
| Silver | U | U | NA | NA | 0:3 |
| Sodium | U | U | NA | NA | 0:3 |
| Thallium | U | U | NA | NA | 0:3 |
| Tin | U | U | NA | NA | 0:3 |
| Vanadium | 18.10 | 21.90 | 20.14 | 20.20 | 3:3 |
| Zinc | 49.00 | 55.70 | 51.99 | 52.07 | 3:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | U | NA | NA | 0:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | 1.90 | 1.92 | 1.92 | 1:3 |

## TABLE I.21 SOIL SERIES SUMMARY STATISTICS
## Milton Silt Loam (MsB)
## Surface Samples - 0001
## Samples 1031, 1032, 1033
## (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | 14.00 | 11.00 | 11.17 | 1:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | 0.17 | 0.31 | 0.25 | 0.26 | 3:3 |
| Plutonium-238 | 0.06 | 0.08 | 0.05 | 0.05 | 2:3 |
| Plutonium-239/240 | U | 0.10 | 0.04 | 0.05 | 1:3 |
| Potassium-40 | 13.60 | 16.50 | 14.78 | 14.83 | 3:3 |
| Radium-226 | 1.03 | 1.25 | 1.16 | 1.16 | 3:3 |
| Strontium-90 | 0.39 | 0.71 | 0.48 | 0.50 | 3:3 |
| Thorium-228 | 0.78 | 0.95 | 0.84 | 0.85 | 3:3 |
| Thorium-230 | 1.18 | 1.40 | 1.26 | 1.27 | 3:3 |
| Thorium-232 | 0.64 | 0.93 | 0.78 | 0.79 | 3:3 |
| Tritium | 0.04 | 0.68 | 0.16 | 0.29 | 3:3 |
| Uranium-234 | 0.78 | 0.92 | 0.84 | 0.84 | 3:3 |
| Uranium-235/236 | 0.06 | 0.06 | 0.04 | 0.04 | 2:3 |
| Uranium-238 | 0.89 | 1.01 | 0.94 | 0.95 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 22.90 | 68.10 | 38.99 | 43.00 | 3:3 |
| Fluoride | 1.80 | 2.50 | 2.08 | 2.10 | 3:3 |
| Nitrate/Nitrite | U | 25.70 | 6.96 | 11.15 | 1:3 |
| Sulfate | 73.10 | 73.90 | 53.38 | 58.38 | 2:3 |
| TOC | 2,630.00 | 32,800.00 | 10,823.86 | 16,710.00 | 3:3 |

U - Not detected.
NA - Not applicable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.22 SOIL SERIES SUMMARY STATISTICS
### Milton Silt Loam (MsB)
### Subsurface Samples - 0002
### Samples 1031, 1032, 1033

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 12,500.00 | 14,100.00 | 13,448.36 | 13,466.67 | 3:3 |
| Antimony | R | R | NA | NA | NA |
| Arsenic | 3.40 | 6.90 | 4.35 | 4.60 | 3:3 |
| Barium | 201.00 | 251.00 | 232.78 | 234.00 | 3:3 |
| Beryllium | 1.70 | 2.40 | 1.94 | 1.97 | 3:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | U | U | NA | NA | 0:3 |
| Calcium | 4,830.00 | 7,690.00 | 5,720.51 | 5,853.33 | 3:3 |
| Chromium | 15.60 | 18.20 | 17.19 | 17.23 | 3:3 |
| Cobalt | 10.60 | 23.70 | 14.87 | 15.80 | 3:3 |
| Copper | 18.50 | 22.10 | 20.51 | 20.57 | 3:3 |
| Iron | 21,700.00 | 26,600.00 | 24,760.86 | 24,866.67 | 3:3 |
| Lead | 13.50 | 19.60 | 16.41 | 16.60 | 3:3 |
| Lithium | U | U | NA | NA | 0:3 |
| Magnesium | 3,900.00 | 6,330.00 | 4,591.11 | 4,716.67 | 3:3 |
| Manganese | 594.00 | 1,660.00 | 895.38 | 994.00 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | 17.00 | 21.90 | 20.07 | 20.20 | 3:3 |
| Nickel | 29.80 | 38.20 | 32.94 | 33.13 | 3:3 |
| Potassium | 397.00 | 527.00 | 133.80 | 311.52 | 2:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | U | U | NA | NA | 0:3 |
| Sodium | U | U | NA | NA | 0:3 |
| Thallium | U | U | NA | NA | 0:3 |
| Tin | U | 5.90 | 3.06 | 3.43 | 1:3 |
| Vanadium | 20.80 | 24.40 | 22.38 | 22.43 | 3:3 |
| Zinc | 48.20 | 59.90 | 53.05 | 53.27 | 3:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | U | NA | NA | 0:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.22 SOIL SERIES SUMMARY STATISTICS
### Milton Silt Loam (MsB)
### Subsurface Samples - 0002
### Samples 1031, 1032, 1033
### (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | U | U | NA | NA | 0:3 |
| Plutonium-238 | 0.05 | 0.06 | 0.05 | 0.05 | 2:3 |
| Plutonium-239/240 | 0.06 | 0.09 | 0.06 | 0.06 | 2:3 |
| Potassium-40 | 16.80 | 18.70 | 17.51 | 17.53 | 3:3 |
| Radium-226 | 1.31 | 1.44 | 1.37 | 1.37 | 3:3 |
| Strontium-90 | 0.37 | 0.58 | 0.50 | 0.57 | 3:3 |
| Thorium-228 | 1.04 | 1.19 | 1.11 | 1.11 | 3:3 |
| Thorium-230 | 1.79 | 2.06 | 1.95 | 1.95 | 3:3 |
| Thorium-232 | 1.09 | 1.35 | 1.23 | 1.24 | 3:3 |
| Tritium | U | 0.11 | 0.03 | 0.05 | 1:3 |
| Uranium-234 | 0.92 | 1.05 | 0.96 | 0.97 | 3:3 |
| Uranium-235/236 | U | U | NA | NA | 0:3 |
| Uranium-238 | 0.88 | 1.07 | 0.97 | 0.97 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 46.20 | 71.60 | 54.82 | 55.87 | 3:3 |
| Fluoride | 2.50 | 4.00 | 3.33 | 3.40 | 3:3 |
| Nitrate/Nitrite | U | 1.40 | 0.82 | 0.90 | 1:3 |
| Sulfate | U | 114.00 | 47.77 | 58.62 | 1:3 |
| TOC | 4,060.00 | 4,380.00 | 2,552.33 | 3,125.00 | 2:3 |

U - Not detected.
NA - Not applicable.
R - Unusable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.23 SOIL SERIES SUMMARY STATISTICS
### Milton Silt Loam ($MsC_2$)
### Surface Samples - 0001
### Samples 1034, 1035, 1036

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 8,350.00 | 10,700.00 | 9,602.43 | 9,653.33 | 3:3 |
| Antimony | U | U | NA | NA | 0:3 |
| Arsenic | 4.10 | 5.30 | 4.54 | 4.57 | 3:3 |
| Barium | 80.20 | 105.00 | 93.32 | 93.90 | 3:3 |
| Beryllium | U | U | NA | NA | 0:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | 0.67 | 0.67 | 0.46 | 0.52 | 2:3 |
| Calcium | 6,500.00 | 34,600.00 | 12,070.69 | 16,306.67 | 3:3 |
| Chromium | 11.90 | 15.80 | 13.81 | 13.90 | 3:3 |
| Cobalt | 11:30 | 13.50 | 12.30 | 12.33 | 3:3 |
| Copper | 12.20 | 16.30 | 13.86 | 13.97 | 3:3 |
| Iron | 19,200.00 | 25,800.00 | 22,204.33 | 22,366.67 | 3:3 |
| Lead | 22.20 | 27.20 | 24.68 | 24.77 | 3:3 |
| Lithium | 7.00 | 8.40 | 7.44 | 7.47 | 3:3 |
| Magnesium | 2,180.00 | 2,460.00 | 2,340.25 | 2,343.33 | 3:3 |
| Manganese | 673.00 | 708.00 | 690.85 | 691.00 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | U | U | NA | NA | 0:3 |
| Nickel | 14.70 | 21.80 | 18.10 | 18.33 | 3:3 |
| Potassium | 612.00 | 787.00 | 720.33 | 725.00 | 3:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | U | 5.10 | 1.16 | 2.07 | 1:3 |
| Sodium | U | U | NA | NA | 0:3 |
| Thallium | U | U | NA | NA | 0:3 |
| Tin | U | U | NA | NA | 0:3 |
| Vanadium | 10.90 | 12.90 | 12.20 | 12.23 | 3:3 |
| Zinc | 45.40 | 60.00 | 50.79 | 51.17 | 3:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | U | NA | NA | 0:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.23 SOIL SERIES SUMMARY STATISTICS
## Milton Silt Loam ($MsC_2$)
## Surface Samples - 0001
## Samples 1034, 1035, 1036
## (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | 0.34 | 0.54 | 0.45 | 0.46 | 3:3 |
| Plutonium-238 | U | U | NA | NA | 0:3 |
| Plutonium-239/240 | U | U | NA | NA | 0:3 |
| Potassium-40 | 22.30 | 25.00 | 23.61 | 23.63 | 3:3 |
| Radium-226 | 1.30 | 1.33 | 1.31 | 1.31 | 3:3 |
| Strontium-90 | U | 0.30 | 0.20 | 0.20 | 1:3 |
| Thorium-228 | 0.93 | 2.13 | 1.28 | 1.37 | 3:3 |
| Thorium-230 | 1.30 | 2.97 | 1.98 | 2.10 | 3:3 |
| Thorium-232 | 1.12 | 1.25 | 1.20 | 1.20 | 3:3 |
| Tritium | 1.27 | 2.44 | 1.68 | 1.74 | 3:3 |
| Uranium-234 | 0.71 | 0.73 | 0.72 | 0.72 | 3:3 |
| Uranium-235/236 | U | 0.06 | 0.03 | 0.04 | 1:3 |
| Uranium-238 | 0.90 | 1.02 | 0.94 | 0.95 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 14.90 | 33.10 | 24.55 | 26.00 | 3:3 |
| Fluoride | U | 4.20 | 1.08 | 1.77 | 1:3 |
| Nitrate/Nitrite | 2.80 | 5.40 | 4.08 | 4.23 | 3:3 |
| Sulfate | U | U | NA | NA | 0:3 |
| TOC | 9,250.00 | 26,100.00 | 14,135.88 | 15,683.33 | 3:3 |

U - Not detected.
NA - Not applicable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.24 SOIL SERIES SUMMARY STATISTICS
### Milton Silt Loam ($MsC_2$)
### Subsurface Samples - 0002
### Samples 1034, 1035, 1036

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 9,690.00 | 14,200.00 | 11,159.49 | 11,330.00 | 3:3 |
| Antimony | U | U | NA | NA | 0:3 |
| Arsenic | 2.90 | 6.00 | 4.49 | 4.70 | 3:3 |
| Barium | 72.30 | 132.00 | 95.96 | 98.97 | 3:3 |
| Beryllium | U | U | NA | NA | 0:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | 0.54 | 0.66 | 0.39 | 0.46 | 2:3 |
| Calcium | 11,400.00 | 94,400.00 | 31,592.32 | 45,033.33 | 3:3 |
| Chromium | 12.20 | 18.50 | 14.64 | 14.87 | 3:3 |
| Cobalt | 11.00 | 13.70 | 12.05 | 12.10 | 3:3 |
| Copper | 12.90 | 19.20 | 15.10 | 15.33 | 3:3 |
| Iron | 21,700.00 | 32,600.00 | 25,004.79 | 25,466.67 | 3:3 |
| Lead | 14.10 | 18.50 | 15.47 | 15.60 | 3:3 |
| Lithium | 8.00 | 12.50 | 10.69 | 10.90 | 3:3 |
| Magnesium | 2,510.00 | 3,600.00 | 3,183.33 | 3,226.67 | 3:3 |
| Manganese | 563.00 | 918.00 | 709.48 | 724.00 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | U | U | NA | NA | 0:3 |
| Nickel | 18.70 | 26.80 | 21.34 | 21.63 | 3:3 |
| Potassium | 537.00 | 668.00 | 619.26 | 622.33 | 3:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | U | U | NA | NA | 0:3 |
| Sodium | U | U | NA | NA | 0:3 |
| Thallium | U | U | NA | NA | 0:3 |
| Tin | U | U | NA | NA | 0:3 |
| Vanadium | 11.90 | 16.00 | 13.63 | 13.73 | 3:3 |
| Zinc | 39.90 | 53.10 | 46.15 | 46.47 | 3:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | U | NA | NA | 0:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.24 SOIL SERIES SUMMARY STATISTICS
## Milton Silt Loam ($MsC_2$)
## Subsurface Samples - 0002
## Samples 1034, 1035, 1036
## (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | 0.12 | 0.39 | 0.23 | 0.25 | 3:3 |
| Plutonium-238 | U | 0.03 | 0.02 | 0.02 | 1:3 |
| Plutonium-239/240 | U | 0.05 | 0.03 | 0.03 | 1:3 |
| Potassium-40 | 23.20 | 28.90 | 25.39 | 25.50 | 3:3 |
| Radium-226 | 1.26 | 1.55 | 1.39 | 1.40 | 3:3 |
| Strontium-90 | U | U | NA | NA | 0:3 |
| Thorium-228 | 0.97 | 1.22 | 0.44 | 0.75 | 2:3 |
| Thorium-230 | 1.23 | 1.65 | 0.43 | 0.97 | 2:3 |
| Thorium-232 | 1.01 | 1.06 | 0.35 | 0.70 | 2:3 |
| Tritium | 0.09 | 0.37 | 0.15 | 0.19 | 3:3 |
| Uranium-234 | 0.70 | 1.06 | 0.84 | 0.85 | 3:3 |
| Uranium-235/236 | 0.05 | 0.08 | 0.05 | 0.06 | 2:3 |
| Uranium-238 | 0.80 | 0.97 | 0.87 | 0.87 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 18.70 | 97.60 | 47.00 | 57.73 | 3:3 |
| Fluoride | 4.90 | 6.00 | 2.53 | 3.82 | 2:3 |
| Nitrate/Nitrite | 1.90 | 7.40 | 4.57 | 5.37 | 3:3 |
| Sulfate | U | U | NA | NA | 0:3 |
| TOC | 5,600.00 | 20,400.00 | 13,015.43 | 15,100.00 | 3:3 |

U - Not detected.
NA - Not applicable.

UNITS

Inorganics-mg/kg.
Pesticides/PCBs-$\mu$g/kg.
Radionuclides-pCi/g.
Anions-mg/kg.

## TABLE I.25 SOIL SERIES SUMMARY STATISTICS
### Milton Silty Clay Loam ($MtD_3$)
### Surface Samples - 0001
### Samples 1037, 1038, 1039

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 8,420.00 | 11,700.00 | 10,240.19 | 10,340.00 | 3:3 |
| Antimony | U | U | NA | NA | 0:3 |
| Arsenic | 6.60 | 8.20 | 7.30 | 7.33 | 3:3 |
| Barium | 79.90 | 98.70 | 89.46 | 89.80 | 3:3 |
| Beryllium | 0.74 | 1.00 | 0.87 | 0.88 | 3:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | U | U | NA | NA | 0:3 |
| Calcium | 11,200.00 | 45,000.00 | 22,499.85 | 26,266.67 | 3:3 |
| Chromium | 11.70 | 15.30 | 13.90 | 14.00 | 3:3 |
| Cobalt | U | 11.80 | 6.39 | 7.10 | 1:3 |
| Copper | 14.60 | 17.10 | 16.13 | 16.17 | 3:3 |
| Iron | 18,200.00 | 26,200.00 | 23,025.24 | 23,333.33 | 3:3 |
| Lead | 21.50 | 24.00 | 22.44 | 22.47 | 3:3 |
| Lithium | U | U | NA | NA | 0:3 |
| Magnesium | 2,660.00 | 3,200.00 | 2,993.05 | 3,003.33 | 3:3 |
| Manganese | 547.00 | 813.00 | 666.58 | 675.33 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | 14.10 | 19.80 | 17.59 | 17.80 | 3:3 |
| Nickel | 13.70 | 21.00 | 18.01 | 18.33 | 3:3 |
| Potassium | 1,350.00 | 1,390.00 | 1,065.70 | 1,128.33 | 2:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | U | U | NA | NA | 0:3 |
| Sodium | 89.90 | 108.00 | 99.02 | 99.30 | 3:3 |
| Thallium | U | U | NA | NA | 0:3 |
| Tin | U | U | NA | NA | 0:3 |
| Vanadium | 15.20 | 21.10 | 16.96 | 17.17 | 3:3 |
| Zinc | 71.80 | 140.00 | 97.57 | 101.40 | 3:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | U | NA | NA | 0:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.25 SOIL SERIES SUMMARY STATISTICS
### Milton Silty Clay Loam ($MtD_3$)
### Surface Samples - 0001
### Samples 1037, 1038, 1039
### (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | 1.20 | 1.02 | 1.03 | 1:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | 0.21 | 0.39 | 0.31 | 0.32 | 3:3 |
| Plutonium-238 | U | 0.04 | 0.03 | 0.03 | 1:3 |
| Plutonium-239/240 | 0.05 | 0.06 | 0.03 | 0.04 | 2:3 |
| Potassium-40 | 18.30 | 22.80 | 19.69 | 19.80 | 3:3 |
| Radium-226 | 0.97 | 1.21 | 1.07 | 1.08 | 3:3 |
| Strontium-90 | 0.42 | 0.53 | 0.33 | 0.37 | 2:3 |
| Thorium-228 | 0.87 | 1.11 | 0.98 | 0.98 | 3:3 |
| Thorium-230 | 1.27 | 1.48 | 1.35 | 1.35 | 3:3 |
| Thorium-232 | 0.83 | 1.10 | 0.92 | 0.92 | 3:3 |
| Tritium | 0.04 | 0.27 | 0.06 | 0.11 | 2:3 |
| Uranium-234 | 0.73 | 0.82 | 0.77 | 0.77 | 3:3 |
| Uranium-235/236 | 0.03 | 0.05 | 0.03 | 0.03 | 2:3 |
| Uranium-238 | 0.68 | 1.01 | 0.82 | 0.83 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 38.00 | 53.70 | 45.61 | 46.07 | 3:3 |
| Fluoride | 2.80 | 3.20 | 2.96 | 2.97 | 3:3 |
| Nitrate/Nitrite | 10.90 | 21.70 | 14.62 | 15.27 | 3:3 |
| Sulfate | U | 73.70 | 41.10 | 45.03 | 1:3 |
| TOC | 10,500.00 | 26,500.00 | 17,661.74 | 18,933.33 | 3:3 |

U - Not detected.
NA - Not applicable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.26 SOIL SERIES SUMMARY STATISTICS
### Milton Silty Clay Loam ($MtD_3$)
### Subsurface Samples - 0002
### Samples 1037, 1038, 1039

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 6,750.00 | 13,000.00 | 10,030.32 | 10,416.67 | 3:3 |
| Antimony | U | U | NA | NA | 0:3 |
| Arsenic | 5.30 | 8.20 | 6.94 | 7.07 | 3:3 |
| Barium | 53.20 | 89.50 | 71.51 | 73.17 | 3:3 |
| Beryllium | 0.52 | 0.90 | 0.75 | 0.77 | 3:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | U | U | NA | NA | 0:3 |
| Calcium | 62,200.00 | 259,000.00 | 122,102.02 | 144,733.33 | 3:3 |
| Chromium | 7.40 | 14.70 | 11.48 | 12.00 | 3:3 |
| Cobalt | U | U | NA | NA | 0:3 |
| Copper | 9.60 | 17.20 | 13.10 | 13.47 | 3:3 |
| Iron | 15,100.00 | 28,700.00 | 21,645.03 | 22,400.00 | 3:3 |
| Lead | 11.50 | 14.50 | 13.23 | 13.30 | 3:3 |
| Lithium | U | U | NA | NA | 3:3 |
| Magnesium | 2,940.00 | 4,820.00 | 3,610.03 | 3,693.33 | 3:3 |
| Manganese | 598.00 | 741.00 | 664.78 | 667.33 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | 11.10 | 21.20 | 16.21 | 16.80 | 3:3 |
| Nickel | 9.40 | 23.10 | 15.24 | 16.27 | 3:3 |
| Potassium | U | U | NA | NA | 0:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | U | U | NA | NA | 0:3 |
| Sodium | 179.00 | 185.00 | 182.65 | 182.67 | 3:3 |
| Thallium | U | U | NA | NA | 0:3 |
| Tin | U | U | NA | NA | 0:3 |
| Vanadium | 18.70 | 21.80 | 20.33 | 20.37 | 3:3 |
| Zinc | 30.70 | 45.00 | 39.08 | 39.63 | 3:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | U | NA | NA | 0:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.26 SOIL SERIES SUMMARY STATISTICS
### Milton Silty Clay Loam ($MtD_3$)
### Subsurface Samples - 0002
### Samples 1037, 1038, 1039
### (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | 0.12 | 0.14 | 0.10 | 0.10 | 2:3 |
| Plutonium-238 | U | U | NA | NA | 0:3 |
| Plutonium-239/240 | 0.05 | 0.06 | 0.04 | 0.04 | 2:3 |
| Potassium-40 | 20.90 | 27.00 | 23.53 | 23.67 | 3:3 |
| Radium-226 | 0.92 | 0.94 | 0.93 | 0.93 | 3:3 |
| Strontium-90 | U | 0.62 | 0.27 | 0.33 | 1:3 |
| Thorium-228 | 0.98 | 1.15 | 1.05 | 1.05 | 3:3 |
| Thorium-230 | 1.25 | 1.88 | 1.63 | 1.65 | 3:3 |
| Thorium-232 | 0.89 | 1.06 | 0.96 | 0.97 | 3:3 |
| Tritium | U | 0.14 | 0.04 | 0.06 | 1:3 |
| Uranium-234 | 0.57 | 0.73 | 0.62 | 0.63 | 3:3 |
| Uranium-235/236 | U | U | NA | NA | 0:3 |
| Uranium-238 | 0.71 | 0.96 | 0.81 | 0.82 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 37.40 | 47.30 | 42.27 | 42.47 | 3:3 |
| Fluoride | 3.50 | 4.10 | 3.79 | 3.80 | 3:3 |
| Nitrate/Nitrite | 3.00 | 8.00 | 4.21 | 4.70 | 3:3 |
| Sulfate | U | 82.30 | 41.83 | 47.32 | 1:3 |
| TOC | 5,730.00 | 7,070.00 | 6,538.44 | 6,566.67 | 3:3 |

U - Not detected.
NA - Not applicable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.27 SOIL SERIES SUMMARY STATISTICS
### Ritchey Silt Loam ($ReB_2$)
### Surface Samples - 0001
### Samples 1040, 1041, 1042

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 12,600 | 14,300 | 13,177.61 | 13,200 | 3:3 |
| Antimony | U | U | NA | NA | 0:3 |
| Arsenic | 4.60 | 8.30 | 5.72 | 5.93 | 3:3 |
| Barium | 126 | 156 | 137.76 | 138.33 | 3:3 |
| Beryllium | 1.0 | 1.2 | 1.1 | 1.1 | 3:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | U | 0.61 | 0.42 | 0.44 | 1:3 |
| Calcium | 6,990 | 8,320 | 7,630 | 7,650 | 3:3 |
| Chromium | 15.8 | 19.2 | 17.0 | 17.1 | 3:3 |
| Cobalt | 14.4 | 18.2 | 16.1 | 16.2 | 3:3 |
| Copper | 15.4 | 17.2 | 16.2 | 16.2 | 3:3 |
| Iron | 26,700 | 31,200 | 28,400 | 28,400 | 3:3 |
| Lead | 19.8 | 31.7 | 25.07 | 25.5 | 3:3 |
| Lithium | U | U | NA | NA | 0:3 |
| Magnesium | 2,880 | 3,400 | 3,100 | 3,110 | 3:3 |
| Manganese | 742 | 1060 | 882 | 891 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | 20.0 | 21.3 | 9.07 | 14.35 | 2:3 |
| Nickel | 18.5 | 24.9 | 21.17 | 21.3 | 3:3 |
| Potassium | U | U | NA | NA | 0:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | U | 1.50 | 0.81 | 0.90 | 1:3 |
| Sodium | 64.4 | 71.1 | 68.1 | 68.2 | 3:3 |
| Thallium | U | 0.32 | 0.17 | 0.19 | 1:3 |
| Tin | U | U | NA | NA | 0:3 |
| Vanadium | 17.4 | 17.9 | 17.6 | 17.6 | 3:3 |
| Zinc | 61.5 | 67.6 | 63.98 | 64.03 | 3:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | U | NA | NA | 0:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.27 SOIL SERIES SUMMARY STATISTICS
## Ritchey Silt Loam ($ReB_2$)
## Surface Samples - 0001
## Samples 1040, 1041, 1042
## (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | 0.29 | 0.41 | 0.36 | 0.36 | 3:3 |
| Plutonium-238 | U | 0.05 | 0.02 | 0.03 | 1:3 |
| Plutonium-239/240 | 0.04 | 0.09 | 0.04 | 0.05 | 2:3 |
| Potassium-40 | 23.8 | 26.4 | 24.74 | 24.77 | 3:3 |
| Radium-226 | 1.26 | 1.32 | 1.29 | 1.29 | 3:3 |
| Strontium-90 | 0.40 | 0.51 | 0.32 | 0.35 | 2:3 |
| Thorium-228 | 1.06 | 1.27 | 1.14 | 1.15 | 3:3 |
| Thorium-230 | 1.13 | 1.31 | 1.22 | 1.22 | 3:3 |
| Thorium-232 | 1.09 | 1.36 | 1.21 | 1.21 | 3:3 |
| Tritium | U | 0.13 | 0.04 | 0.06 | 1:3 |
| Uranium-234 | 0.65 | 0.76 | 0.71 | 0.71 | 3:3 |
| Uranium-235/236 | U | 0.07 | 0.04 | 0.04 | 1:3 |
| Uranium-238 | 0.76 | 0.80 | 0.78 | 0.78 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 43.9 | 61.3 | 52.4 | 52.9 | 3:3 |
| Fluoride | 2.00 | 2.60 | 2.25 | 2.27 | 3:3 |
| Nitrate/Nitrite | 9.80 | 30.9 | 16.3 | 18.4 | 3:3 |
| Sulfate | U | 82.9 | 42.6 | 48.0 | 1:3 |
| TOC | 11,400 | 24,200 | 17,000 | 17,800 | 3:3 |

U - Not detected.
NA - Not applicable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.28 SOIL SERIES SUMMARY STATISTICS
### Ritchey Silt Loam ($ReB_2$)
### Subsurface Samples - 0002
### Samples 1040, 1041, 1042

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 14,300 | 70,800 | 26,747.12 | 34,666.67 | 3:3 |
| Antimony | U | U | NA | NA | 0:3 |
| Arsenic | 4.30 | 7.40 | 5.73 | 5.87 | 3:3 |
| Barium | 125 | 166 | 144 | 145 | 3:3 |
| Beryllium | 1.00 | 1.40 | 1.15 | 1.17 | 3:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | U | U | NA | NA | 0:3 |
| Calcium | 7,090 | 48,400 | 16,300 | 22,700 | 3:3 |
| Chromium | 16.6 | 20.80 | 18.42 | 18.50 | 3:3 |
| Cobalt | 13.2 | 14.8 | 14.2 | 14.2 | 3:3 |
| Copper | 14.9 | 19.1 | 16.9 | 17.0 | 3:3 |
| Iron | 28,600 | 35,300 | 31,300 | 31,400 | 3:3 |
| Lead | 18.1 | 23.8 | 20.8 | 20.9 | 3:3 |
| Lithium | U | U | NA | NA | 0:3 |
| Magnesium | 3,260 | 3,720 | 3,520 | 3,520 | 3:3 |
| Manganese | 657 | 800 | 749 | 752 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | 3.4 | 26.8 | 9.88 | 16.6 | 2:3 |
| Nickel | 20.1 | 27.2 | 22.8 | 23.0 | 3:3 |
| Potassium | U | U | NA | NA | 0:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | U | U | NA | NA | 0:3 |
| Sodium | 67.2 | 73.2 | 69.9 | 69.9 | 3:3 |
| Thallium | U | 0.29 | 0.16 | 0.18 | 1:3 |
| Tin | U | U | NA | NA | 0:3 |
| Vanadium | 17.6 | 23.6 | 20.2 | 20.4 | 3:3 |
| Zinc | 63.4 | 69.6 | 66.8 | 66.9 | 3:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | U | NA | NA | 0:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.28 SOIL SERIES SUMMARY STATISTICS
## Ritchey Silt Loam ($ReB_2$)
## Subsurface Samples - 0002
## Samples 1040, 1041, 1042
## (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | 0.22 | 0.46 | 0.31 | 0.32 | 3:3 |
| Plutonium-238 | 0.03 | 0.03 | 0.02 | 0.02 | 2:3 |
| Plutonium-239/240 | U | 0.04 | 0.03 | 0.03 | 1:3 |
| Potassium-40 | 23.2 | 25.3 | 24.5 | 24.5 | 3:3 |
| Radium-226 | 1.12 | 1.94 | 1.38 | 1.42 | 3:3 |
| Strontium-90 | 0.38 | 0.39 | 0.29 | 0.31 | 2:3 |
| Thorium-228 | 0.98 | 1.30 | 1.11 | 1.12 | 3:3 |
| Thorium-230 | 1.18 | 1.57 | 1.39 | 1.40 | 3:3 |
| Thorium-232 | 0.95 | 1.27 | 1.13 | 1.14 | 3:3 |
| Tritium | 0.05 | 0.06 | 0.04 | 0.04 | 2:3 |
| Uranium-234 | 0.68 | 0.83 | 0.74 | 0.74 | 3:3 |
| Uranium-235/236 | U | 0.06 | 0.04 | 0.04 | 1:3 |
| Uranium-238 | 0.78 | 0.91 | 0.85 | 0.85 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 37.6 | 50.9 | 42.1 | 42.5 | 3:3 |
| Fluoride | 3.2 | 4.3 | 3.8 | 3.83 | 3:3 |
| Nitrate/Nitrite | 2.20 | 7.40 | 4.63 | 5.23 | 3:3 |
| Sulfate | 68.4 | 89.8 | 57.0 | 62.8 | 2:3 |
| TOC | 4,750 | 21,000 | 11,700 | 14,000 | 3:3 |

U - Not detected.
NA - Not applicable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.29 SOIL SERIES SUMMARY STATISTICS
### Ritchey Silty Clay Loam ($RfD_3$)
### Surface Samples - 0001
### Samples 1043, 1044, 1045

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 11,100.00 | 13,100.00 | 12,039.04 | 12,066.67 | 3:3 |
| Antimony | U | U | NA | NA | 0:3 |
| Arsenic | 3.50 | 3.70 | 3.50 | 3.50 | 3:3 |
| Barium | 60.20 | 120.00 | 77.16 | 81.27 | 3:3 |
| Beryllium | 0.73 | 0.93 | 0.79 | 0.80 | 3:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | 0.55 | 2.10 | 1.25 | 1.45 | 3:3 |
| Calcium | 54,400.00 | 85,600.00 | 68,821.41 | 70,000.00 | 3:3 |
| Chromium | 14.50 | 16.90 | 15.26 | 15.30 | 3:3 |
| Cobalt | 12.30 | 14.50 | 13.30 | 13.33 | 3:3 |
| Copper | 15.40 | 19.80 | 17.96 | 18.07 | 3:3 |
| Iron | 24,100.00 | 31,300.00 | 28,316.70 | 28,500.00 | 3:3 |
| Lead | 16.30 | 73.10 | 32.35 | 39.27 | 3:3 |
| Lithium | 14.90 | 17.10 | 16.01 | 16.03 | 3:3 |
| Magnesium | 5,800.00 | 6,790.00 | 6,119.84 | 6,136.67 | 3:3 |
| Manganese | 519.00 | 583.00 | 540.20 | 541.00 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | 19.80 | 26.50 | 23.43 | 23.60 | 3:3 |
| Nickel | 22.70 | 26.00 | 24.30 | 24.33 | 3:3 |
| Potassium | 1,410.00 | 2,220.00 | 1,762.80 | 1,793.33 | 3:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | U | U | NA | NA | 0:3 |
| Sodium | U | U | NA | NA | 0:3 |
| Thallium | U | U | NA | NA | 0:3 |
| Tin | U | U | NA | NA | 0:3 |
| Vanadium | 11.40 | 19.90 | 14.19 | 14.63 | 3:3 |
| Zinc | 124.00 | 738.00 | 351.11 | 445.00 | 3:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | 21.00 | 4.19 | 8.25 | 1:3 |
| 4,4-DDE | 2.70 | 39.00 | 5.80 | 14.52 | 2:3 |
| 4,4-DDT | 12.00 | 920.00 | 27.33 | 311.28 | 2:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.29 SOIL SERIES SUMMARY STATISTICS
## Ritchey Silty Clay Loam ($RfD_3$)
## Surface Samples - 0001
## Samples 1043, 1044, 1045
## (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | 0.18 | 0.30 | 0.25 | 0.25 | 3:3 |
| Plutonium-238 | U | 0.04 | 0.04 | 0.04 | 1:3 |
| Plutonium-239/240 | 0.04 | 0.10 | 0.06 | 0.06 | 3:3 |
| Potassium-40 | 32.70 | 35.10 | 33.85 | 33.87 | 3:3 |
| Radium-226 | 0.93 | 1.15 | 1.04 | 1.05 | 3:3 |
| Strontium-90 | U | U | NA | NA | 0:3 |
| Thorium-228 | 1.06 | 1.19 | 1.13 | 1.13 | 3:3 |
| Thorium-230 | 1.38 | 1.85 | 1.62 | 1.63 | 3:3 |
| Thorium-232 | 0.99 | 1.28 | 1.08 | 1.09 | 3:3 |
| Tritium | 0.09 | 0.65 | 0.30 | 0.40 | 3:3 |
| Uranium-234 | 0.73 | 1.00 | 0.82 | 0.83 | 3:3 |
| Uranium-235/236 | U | 0.11 | 0.05 | 0.06 | 1:3 |
| Uranium-238 | 0.75 | 0.96 | 0.85 | 0.85 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 47.90 | 62.50 | 53.24 | 53.60 | 3:3 |
| Fluoride | 3.50 | 5.00 | 4.19 | 4.23 | 3:3 |
| Nitrate/Nitrite | 10.20 | 12.60 | 11.68 | 11.73 | 3:3 |
| Sulfate | 59.30 | 101.00 | 74.34 | 76.30 | 3:3 |
| TOC | 7,830.00 | 40,300.00 | 19,191.32 | 23,510.00 | 3:3 |

U - Not detected.
NA - Not applicable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.30 SOIL SERIES SUMMARY STATISTICS
### Ritchey Silty Clay Loam ($RfD_3$)
### Subsurface Samples - 0002
### Samples 1043, 1044, 1045

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 10,100.00 | 11,400.00 | 10,884.66 | 10,900.00 | 3:3 |
| Antimony | U | U | NA | NA | 0:3 |
| Arsenic | 1.90 | 2.70 | 2.28 | 2.30 | 3:3 |
| Barium | 50.20 | 58.40 | 55.18 | 55.30 | 3:3 |
| Beryllium | U | U | NA | NA | 0:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | 0.66 | 1.00 | 0.77 | 0.79 | 3:3 |
| Calcium | 70,300.00 | 104,000.00 | 82,103.47 | 83,333.33 | 3:3 |
| Chromium | 12.50 | 14.60 | 13.77 | 13.80 | 3:3 |
| Cobalt | 11.20 | 13.50 | 12.23 | 12.27 | 3:3 |
| Copper | 14.00 | 15.20 | 14.49 | 14.50 | 3:3 |
| Iron | 20,800.00 | 24,000.00 | 22,328.51 | 22,366.67 | 3:3 |
| Lead | 8.90 | 15.20 | 11.13 | 11.43 | 3:3 |
| Lithium | 20.50 | 23.60 | 21.66 | 21.70 | 3:3 |
| Magnesium | 5,230.00 | 7,170.00 | 6,249.82 | 6,303.33 | 3:3 |
| Manganese | 409.00 | 553.00 | 466.55 | 470.33 | 3:3 |
| Mercury | U | U | NA | NA | 0:3 |
| Molybdenum | U | U | NA | NA | 0:3 |
| Nickel | 20.00 | 22.40 | 21.51 | 21.53 | 3:3 |
| Potassium | 803.00 | 955.00 | 853.58 | 856.33 | 3:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | U | U | NA | NA | 0:3 |
| Sodium | U | U | NA | NA | 0:3 |
| Thallium | U | U | NA | NA | 0:3 |
| Tin | U | U | NA | NA | 0:3 |
| Vanadium | 10.00 | 11.70 | 10.98 | 11.00 | 3:3 |
| Zinc | 73.80 | 126.00 | 96.59 | 98.90 | 3:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | 2.60 | 2.07 | 2.10 | 1:3 |
| 4,4-DDE | U | 2.60 | 2.07 | 2.10 | 1:3 |
| 4,4-DDT | 3.40 | 45.00 | 6.57 | 16.75 | 2:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.30 SOIL SERIES SUMMARY STATISTICS
## Ritchey Silty Clay Loam ($RfD_3$)
## Subsurface Samples - 0002
## Samples 1043, 1044, 1045
## (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | U | U | NA | NA | 0:3 |
| Plutonium-238 | U | U | NA | NA | 0:3 |
| Plutonium-239/240 | U | 0.04 | 0.03 | 0.03 | 1:3 |
| Potassium-40 | 32.40 | 37.90 | 34.49 | 34.57 | 3:3 |
| Radium-226 | 0.94 | 1.02 | 0.98 | 0.98 | 3:3 |
| Strontium-90 | U | U | NA | NA | 0:3 |
| Thorium-228 | 0.91 | 1.62 | 1.16 | 1.19 | 3:3 |
| Thorium-230 | 1.25 | 2.99 | 1.85 | 1.98 | 3:3 |
| Thorium-232 | 0.93 | 1.25 | 1.09 | 1.10 | 3:3 |
| Tritium | 0.05 | 0.39 | 0.06 | 0.15 | 2:3 |
| Uranium-234 | 0.67 | 0.85 | 0.75 | 0.75 | 3:3 |
| Uranium-235/236 | 0.05 | 0.07 | 0.04 | 0.05 | 2:3 |
| Uranium-238 | 0.91 | 1.09 | 0.99 | 0.99 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 49.20 | 70.00 | 62.21 | 63.03 | 3:3 |
| Fluoride | 6.20 | 6.80 | 6.56 | 6.57 | 3:3 |
| Nitrate/Nitrite | 4.00 | 9.10 | 5.81 | 6.17 | 3:3 |
| Sulfate | 60.80 | 89.90 | 53.52 | 59.58 | 2:3 |
| TOC | 1,550.00 | 16,100 | 3,554.76 | 6,483.33 | 3:3 |

U - Not detected.
NA - Not applicable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.31 SOIL SERIES SUMMARY STATISTICS
### Ross (Rs)
### Surface Samples - 0001
### Samples 1046, 1047, 1048

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 6,180 | 6,770 | 6,410 | 6,410 | 3:3 |
| Antimony | R | R | NA | NA | NA |
| Arsenic | 5.10 | 7.40 | 5.77 | 5.87 | 3:3 |
| Barium | 89.3 | 93.6 | 91.6 | 91.6 | 3:3 |
| Beryllium | 0.47 | 0.78 | 0.58 | 0.59 | 3:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | 0.72 | 0.88 | 0.80 | 0.80 | 3:3 |
| Calcium | 63,700 | 66,100 | 64,500 | 64,500 | 3:3 |
| Chromium | 12.8 | 13.1 | 13.0 | 13.0 | 3:3 |
| Cobalt | 6.90 | 7.10 | 7.00 | 7.00 | 3:3 |
| Copper | 22.8 | 23.3 | 23.0 | 23.0 | 3:3 |
| Iron | 14,100 | 14,700 | 14,400 | 14,400 | 3:3 |
| Lead | 30.1 | 33.2 | 31.2 | 31.3 | 3:3 |
| Lithium | 11.5 | 11.5 | 8.6 | 9.3 | 2:3 |
| Magnesium | 28,500 | 29,500 | 28,900 | 28,900 | 3:3 |
| Manganese | 420 | 454 | 436 | 436 | 3:3 |
| Mercury | U | 0.06 | 0.04 | 0.04 | 1:3 |
| Molybdenum | 11.6 | 12.8 | 12.2 | 12.2 | 3:3 |
| Nickel | 15.1 | 15.6 | 15.4 | 15.4 | 3:3 |
| Potassium | 730 | 774 | 755 | 755 | 3:3 |
| Selenium | U | 0.45 | 0.18 | 0.23 | 1:3 |
| Silver | U | U | NA | NA | 0:3 |
| Sodium | 125 | 137 | 132 | 132 | 3:3 |
| Thallium | 0.22 | 0.47 | 0.23 | 0.27 | 2:3 |
| Tin | 18.0 | 22.5 | 20.1 | 20.2 | 3:3 |
| Vanadium | 18.5 | 21.6 | 20.0 | 20.0 | 3:3 |
| Zinc | 73.6 | 75.9 | 75.1 | 75.1 | 3:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | U | NA | NA | 0:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Aroclor 1254 | 57.0 | 65.0 | 59.9 | 60.0 | 3:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.31 SOIL SERIES SUMMARY STATISTICS
## Ross (Rs)
## Surface Samples - 0001
## Samples 1046, 1047, 1048
## (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | 0.22 | 0.26 | 0.15 | 0.18 | 2:3 |
| Plutonium-238 | U | 0.04 | 0.02 | 0.03 | 1:3 |
| Plutonium-239/240 | 0.03 | 0.07 | 0.04 | 0.04 | 2:3 |
| Potassium-40 | 13.2 | 13.8 | 13.6 | 13.6 | 3:3 |
| Radium-226 | 0.20 | 0.94 | 0.54 | 0.67 | 3:3 |
| Strontium-90 | 0.48 | 0.52 | 0.33 | 0.38 | 2:3 |
| Thorium-228 | 0.54 | 0.70 | 0.63 | 0.63 | 3:3 |
| Thorium-230 | 1.01 | 1.41 | 1.23 | 1.24 | 3:3 |
| Thorium-232 | 0.63 | 0.77 | 0.67 | 0.68 | 3:3 |
| Tritium | 0.03 | 0.49 | 0.17 | 0.27 | 3:3 |
| Uranium-234 | 0.68 | 0.79 | 0.74 | 0.74 | 3:3 |
| Uranium-235/236 | 0.06 | 0.09 | 0.05 | 0.06 | 2:3 |
| Uranium-238 | 0.78 | 0.81 | 0.79 | 0.79 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 40.7 | 53.6 | 44.7 | 45.1 | 3:3 |
| Fluoride | 2.30 | 3.00 | 2.71 | 2.73 | 3:3 |
| Nitrate/Nitrite | 4.30 | 12.0 | 7.60 | 8.27 | 3:3 |
| Sulfate | U | U | NA | NA | 0:3 |
| TOC | 12,000 | 24,200 | 18,100 | 18,900 | 3:3 |

U - Not detected.
NA - Not applicable.
R - Unusable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

## TABLE I.32 SOIL SERIES SUMMARY STATISTICS
### Ross (Rs)
### Subsurface Samples - 0002
### Samples 1046, 1047, 1048

| Inorganics Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Aluminum | 6,900 | 7,290 | 7,060 | 7,060 | 3:3 |
| Antimony | R | R | NA | NA | NA |
| Arsenic | 5.20 | 5.70 | 5.50 | 5.50 | 3:3 |
| Barium | 101 | 110 | 105 | 105 | 3:3 |
| Beryllium | 0.48 | 0.50 | 0.49 | 0.49 | 3:3 |
| Bismuth | U | U | NA | NA | 0:3 |
| Cadmium | 0.49 | 0.65 | 0.58 | 0.58 | 3:3 |
| Calcium | 55,600 | 60,200 | 58,500 | 58,600 | 3:3 |
| Chromium | 9.5 | 10.8 | 10 | 10.1 | 3:3 |
| Cobalt | 6.4 | 6.50 | 6.47 | 6.47 | 3:3 |
| Copper | 14.6 | 18.0 | 16.1 | 16.1 | 3:3 |
| Iron | 14,800 | 15,200 | 14,900 | 14,900 | 3:3 |
| Lead | 10.9 | 13.0 | 12.1 | 12.1 | 3:3 |
| Lithium | 11.6 | 11.6 | 8.46 | 9.23 | 2:3 |
| Magnesium | 24,100 | 25,600 | 24,800 | 24,800 | 3:3 |
| Manganese | 503 | 555 | 526 | 527 | 3:3 |
| Mercury | U | 0.15 | 0.05 | 0.07 | 1:3 |
| Molybdenum | 11.9 | 12.6 | 12.2 | 12.2 | 3:3 |
| Nickel | 13.6 | 15.7 | 14.7 | 14.7 | 3:3 |
| Potassium | 487 | 545 | 515 | 516 | 3:3 |
| Selenium | U | U | NA | NA | 0:3 |
| Silver | U | U | NA | NA | 0:3 |
| Sodium | 103 | 130 | 119 | 120 | 3:3 |
| Thallium | U | 0.35 | 0.17 | 0.20 | 1:3 |
| Tin | 17.3 | 18.6 | 17.8 | 17.8 | 3:3 |
| Vanadium | 17.4 | 20.4 | 19.1 | 19.2 | 3:3 |
| Zinc | 50.8 | 59.7 | 55.0 | 55.1 | 3:3 |

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| 4,4-DDD | U | U | NA | NA | 0:3 |
| 4,4-DDE | U | U | NA | NA | 0:3 |
| 4,4-DDT | U | U | NA | NA | 0:3 |
| Aldrin | U | U | NA | NA | 0:3 |
| Alpha Chlordane | U | U | NA | NA | 0:3 |
| Alpha-BHC | U | U | NA | NA | 0:3 |
| Aroclor 1254 | U | 24.0 | 21.2 | 21.3 | 1:3 |
| Beta-BHC | U | U | NA | NA | 0:3 |
| Delta-BHC | U | U | NA | NA | 0:3 |
| Dieldrin | U | U | NA | NA | 0:3 |
| Endosulfan (alpha) | U | U | NA | NA | 0:3 |
| Endosulfan (beta) | U | U | NA | NA | 0:3 |

## TABLE I.32 SOIL SERIES SUMMARY STATISTICS
## Ross (Rs)
## Subsurface Samples - 0002
## Samples 1046, 1047, 1048
## (Continued)

| Pesticides/PCBs Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Endosulfan Sulfate | U | U | NA | NA | 0:3 |
| Endrin | U | U | NA | NA | 0:3 |
| Endrin Ketone | U | U | NA | NA | 0:3 |
| Gamma Chlordane | U | U | NA | NA | 0:3 |
| Gamma-BHC (Lindane) | U | U | NA | NA | 0:3 |
| Heptachlor | U | U | NA | NA | 0:3 |
| Heptachlor Epoxide | U | U | NA | NA | 0:3 |
| Methoxychlor | U | U | NA | NA | 0:3 |

| Radionuclides Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Americium | U | U | NA | NA | 0:3 |
| Cesium-137 | U | 0.10 | 0.06 | 0.07 | 1:3 |
| Plutonium-238 | U | U | NA | NA | 0:3 |
| Plutonium-239/240 | 0.06 | 0.07 | 0.04 | 0.05 | 2:3 |
| Potassium-40 | 12.2 | 14.0 | 12.9 | 12.9 | 3:3 |
| Radium-226 | 0.84 | 0.97 | 0.92 | 0.92 | 3:3 |
| Strontium-90 | U | 0.40 | 0.25 | 0.26 | 1:3 |
| Thorium-228 | 0.45 | 0.67 | 0.54 | 0.55 | 3:3 |
| Thorium-230 | 1.02 | 1.38 | 1.17 | 1.18 | 3:3 |
| Thorium-232 | 0.62 | 0.68 | 0.64 | 0.64 | 3:3 |
| Tritium | U | 0.21 | 0.04 | 0.08 | 1:3 |
| Uranium-234 | 0.66 | 1.03 | 0.78 | 0.79 | 3:3 |
| Uranium-235/236 | U | U | NA | NA | 0:3 |
| Uranium-238 | 0.73 | 0.86 | 0.77 | 0.78 | 3:3 |

| Anions Parameter | Minimum Concentration | Maximum Concentration | Geometric Mean | Mean | No. Detects: No. Samples |
|---|---|---|---|---|---|
| Chloride | 31.7 | 37.0 | 34.5 | 34.6 | 3:3 |
| Fluoride | 3.60 | 3.90 | 3.76 | 3.77 | 3:3 |
| Nitrate/Nitrite | 2.00 | 3.40 | 2.70 | 2.77 | 3:3 |
| Sulfate | U | 68.1 | 39.3 | 42.6 | 1:3 |
| TOC | 12,100 | 22,500 | 16,300 | 16,900 | 3:3 |

U - Not detected.
NA - Not applicable.

UNITS

Inorganics - mg/kg.
Pesticides/PCBs - µg/kg.
Radionuclides - pCi/g.
Anions - mg/kg.

# APPENDIX J

APPENDIX J

# APPENDIX J

## SUMMARY STATISTICS BY PARAMETER

**Table J.1 Summary Statistics for Inorganic Parameters**
**(All Values in mg/kg)**

| Parameter | Minimum | Maximum | Median | Geometric Mean | Arithmetic Mean | Standard Deviation | Coefficient of Variation | Statistical Range 95% Confidence Interval | | Distribution Type | Sample Detect: Total |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Minimum | Maximum | | |
| Aluminum | | | | | | | | | | | |
| Surface | 3,340.00 | 16,100.00 | 8,645.00 | NA | 8,975.83 | 3,195.80 | 0.36 | 8,201.36 | 9,750.31 | Normal | 48:48 |
| Subsurface | 466.00 | 70,800.00 | 11,200.00 | NA | NA | NA | NA | NA | NA | Nonparametric | 48:48 |
| Combined | 466.00 | 70,800.00 | 9,760.00 | NA | NA | NA | NA | NA | NA | Nonparametric | 96:96 |
| Antimony | | | | | | | | | | | |
| Surface | NA | NA | NA | NA | NA | NA | NA | NA | NA | Unknown | 0:3* |
| Subsurface | NA | NA | NA | NA | NA | NA | NA | NA | NA | Unknown | 0:6 |
| Combined | NA | NA | NA | NA | NA | NA | NA | NA | NA | Unknown | 0:9 |
| Arsenic | | | | | | | | | | | |
| Surface | 2.40 | 8.80 | 5.10 | NA | 5.51 | 1.72 | 0.31 | 5.09 | 5.93 | Normal | 48:48 |
| Subsurface | 1.40 | 11.10 | 5.20 | NA | 5.14 | 1.86 | 0.36 | 4.69 | 5.60 | Normal | 48:48 |
| Combined | 1.40 | 11.10 | 5.20 | NA | 5.33 | 1.79 | 0.34 | 5.02 | 5.63 | Normal | 96:96 |
| Barium | | | | | | | | | | | |
| Surface | 42.80 | 162.00 | 83.50 | 81.63 | NA | 1.40 | 0.34 | 75.20 | 88.61 | Lognormal | 48:48 |
| Subsurface | 30.00 | 251.00 | 80.40 | 77.04 | NA | 1.68 | 0.57 | 67.89 | 87.42 | Lognormal | 48:48 |
| Combined | 30.00 | 251.00 | 81.80 | 79.30 | NA | 1.55 | 0.47 | 73.62 | 85.43 | Lognormal | 96:96 |
| Beryllium | | | | | | | | | | | |
| Surface | 0.30 | 1.50 | 0.74 | NA | 0.75 | 0.26 | 0.35 | 0.68 | 0.81 | Normal | 45:48 |
| Subsurface | 0.29 | 2.40 | 0.57 | 0.65 | NA | 1.67 | 0.60 | 0.57 | 0.73 | Lognormal | 42:48 |
| Combined | 0.29 | 2.40 | 0.72 | 0.67 | NA | 1.56 | 0.49 | 0.62 | 0.73 | Lognormal | 87:96 |
| Bismuth | | | | | | | | | | | |
| Surface | U | 38.40 | 15.30 | NA | NA | NA | NA | NA | NA | Unknown | 1:48 |
| Subsurface | 35.10 | 35.10 | 15.18 | NA | NA | NA | NA | NA | NA | Unknown | 2:48 |
| Combined | 35.10 | 38.40 | 15.20 | NA | NA | NA | NA | NA | NA | Unknown | 3:96 |
| Cadmium | | | | | | | | | | | |
| Surface | 0.55 | 2.10 | 0.23 | NA | NA | NA | NA | NA | NA | Nonparametric | 13:48 |
| Subsurface | 0.45 | 3.20 | 0.23 | NA | NA | NA | NA | NA | NA | Nonparametric | 12:48 |
| Combined | 0.45 | 3.20 | 0.23 | NA | NA | NA | NA | NA | NA | Nonparametric | 25:96 |
| Calcium | | | | | | | | | | | |
| Surface | 929.00 | 85,600.00 | 25,300.00 | NA | NA | NA | NA | NA | NA | Nonprametric | 48:48 |
| Subsurface | 2,090.00 | 259,000.00 | 59,600.00 | NA | NA | NA | NA | NA | NA | Nonprametric | 48:48 |
| Combined | 929.00 | 259,000.00 | 36,850.00 | 26,606.42 | NA | 3.57 | 0.92 | 21,434.00 | 33,027.04 | Lognormal | 96:96 |
| Chromium | | | | | | | | | | | |
| Surface | 6.80 | 21.90 | 13.10 | NA | 12.94 | 3.12 | 0.24 | 12.19 | 13.70 | Normal | 48:48 |
| Subsurface | 4.60 | 32.00 | 13.60 | 12.01 | NA | 1.57 | 0.43 | 10.77 | 13.40 | Lognormal | 48:48 |
| Combined | 4.60 | 32.00 | 13.20 | NA | 13.07 | 4.54 | 0.35 | 12.30 | 13.84 | Normal | 96:96 |

**Table J.1 Summary Statistics for Inorganic Parameters**
**(All Values in mg/kg)**
**(Continued)**

| Parameter | Minimum | Maximum | Median | Geometric Mean | Arithmetic Mean | Standard Deviation | Coefficient of Variation | Statistical Range 95% Confidence Interval | | Distribution Type | Sample Detect: Total |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Minimum | Maximum | | |
| Cobalt | | | | | | | | | | | |
| Surface | 6.40 | 21.70 | 10.60 | NA | 10.74 | 3.92 | 0.37 | 9.79 | 11.69 | Normal | 43:48 |
| Subsurface | 5.40 | 28.60 | 11.00 | 9.43 | NA | 1.68 | 0.49 | 8.32 | 10.69 | Lognormal | 42:48 |
| Combined | 5.40 | 28.60 | 10.85 | NA | 10.70 | 4.61 | 0.43 | 9.92 | 11.48 | Normal | 85:96 |
| Copper | | | | | | | | | | | |
| Surface | 8.70 | 33.10 | 15.40 | 15.84 | NA | 1.31 | 0.28 | 14.84 | 16.91 | Lognormal | 48:48 |
| Subsurface | 9.60 | 42.90 | 15.35 | NA | NA | NA | NA | NA | NA | Nonparametric | 47:48 |
| Combined | 8.70 | 42.90 | 15.40 | NA | NA | NA | NA | NA | NA | Nonparametric | 95:96 |
| Iron | | | | | | | | | | | |
| Surface | 12,100.00 | 42,700.00 | 20,350.00 | 20,255.32 | NA | 1.36 | 0.31 | 18,811.25 | 21,810.25 | Lognormal | 48:48 |
| Subsurface | 11,400.00 | 52,800.00 | 22,200.00 | NA | NA | NA | NA | NA | NA | Nonparametric | 48:48 |
| Combined | 11,400.00 | 52,800.00 | 21,150.00 | NA | 21,972.92 | 7,718.94 | 0.35 | 20,662.79 | 23,283.05 | Normal | 96:96 |
| Lead | | | | | | | | | | | |
| Surface | 11.40 | 84.60 | 21.70 | NA | NA | NA | NA | NA | NA | Nonparametric | 47:47 |
| Subsurface | 6.80 | 46.50 | 13.25 | 13.42 | NA | 1.52 | 0.51 | 12.13 | 14.58 | Lognormal | 48:48 |
| Combined | 6.80 | 84.60 | 18.30 | 17.87 | NA | 1.67 | 0.64 | 16.38 | 19.51 | Lognormal | 95:95 |
| Lithium | | | | | | | | | | | |
| Surface | 4.20 | 23.10 | 6.18 | 6.50 | NA | 1.91 | 0.64 | 5.56 | 7.60 | Lognormal | 18:48 |
| Subsurface | 4.30 | 27.70 | 8.00 | NA | NA | NA | NA | NA | NA | Nonparametric | 20:48 |
| Combined | 4.20 | 27.70 | 7.25 | 7.46 | 9.11 | 1.90 | 0.67 | 6.69 | 8.32 | Lognormal | 38:96 |
| Magnesium | | | | | | | | | | | |
| Surface | 1,110.00 | 36,700.00 | 4,285.00 | NA | NA | NA | NA | NA | NA | Nonparametric | 48:48 |
| Subsurface | 2,510.00 | 56,100.00 | 5,295.00 | 9,819.50 | NA | NA | NA | NA | NA | Nonparametric | 48:48 |
| Combined | 1,110.00 | 56,100.00 | 5,215.00 | 7,796.85 | NA | 2.92 | 1.07 | 6,499.44 | 9,353.25 | Lognormal | 96:96 |
| Manganese | | | | | | | | | | | |
| Surface | 252.00 | 1,740.00 | 618.00 | 634.33 | NA | 1.47 | 0.42 | 577.53 | 696.73 | Lognormal | 48:48 |
| Subsurface | 228.00 | 1,660.00 | 565.00 | 570.18 | NA | 1.59 | 0.50 | 509.37 | 638.25 | Lognormal | 48:48 |
| Combined | 228.00 | 1,740.00 | 581.50 | 601.40 | NA | 1.54 | 0.46 | 559.15 | 646.84 | Lognormal | 96:96 |
| Mercury | | | | | | | | | | | |
| Surface | 0.06 | 0.15 | 0.03 | NA | NA | NA | NA | NA | NA | Unknown | 2:48 |
| Subsurface | U | 0.15 | 0.03 | NA | NA | NA | NA | NA | NA | Unknown | 1:48 |
| Combined | 0.06 | 0.15 | 0.03 | NA | NA | NA | NA | NA | NA | Unknown | 3:96 |
| Molybdenum | | | | | | | | | | | |
| Surface | 1.20 | 31.00 | 16.70 | NA | NA | NA | NA | NA | NA | Nonparametric | 37:48 |
| Subsurface | 11.10 | 27.00 | 13.90 | NA | NA | NA | NA | NA | NA | Nonparametric | 33:48 |
| Combined | 11.10 | 31.00 | 15.25 | 10.03 | 14.11 | 8.10 | 0.57 | 12.73 | 15.48 | Normal | 71:96 |

**Table J.1 Summary Statistics for Inorganic Parameters**
**(All Values in mg/kg)**
**(Continued)**

| Parameter | Minimum | Maximum | Median | Geometric Mean | Arithmetic Mean | Standard Deviation | Coefficient of Variation | Statistical Range 95% Confidence Interval | | Distribution Type | Sample |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Minimum | Maximum | | Detect: Total |
| Nickel | | | | | | | | | | | |
| Surface | 6.90 | 32.10 | 18.50 | NA | 17.58 | 5.69 | 0.32 | 16.20 | 18.96 | Normal | 47:48 |
| Subsurface | 9.40 | 50.20 | 20.95 | 20.16 | NA | 1.41 | 0.36 | 18.55 | 21.92 | Lognormal | 48:48 |
| Combined | 6.90 | 50.20 | 18.85 | NA | NA | NA | NA | NA | NA | Nonparametric | 95:96 |
| Potassium | | | | | | | | | | | |
| Surface | 215.00 | 2,440.00 | 732.50 | NA | NA | NA | NA | NA | NA | Nonparametric | 37:48 |
| Subsurface | 133.00 | 1,720.00 | 585.00 | NA | NA | NA | NA | NA | NA | Nonparametric | 35:48 |
| Combined | 133.00 | 2,440.00 | 642.50 | NA | NA | NA | NA | NA | NA | Nonparametric | 72:96 |
| Selenium | | | | | | | | | | | |
| Surface | 0.31 | 0.59 | 0.18 | NA | NA | NA | NA | NA | NA | Nonparametric | 6:48 |
| Subsurface | U | U | U | NA | NA | NA | NA | NA | NA | Unknown | 0:48 |
| Combined | 0.31 | 0.59 | 0.13 | NA | NA | NA | NA | NA | NA | Nonparametric | 6:95 |
| Silver | | | | | | | | | | | |
| Surface | 1.30 | 5.10 | 0.55 | NA | NA | NA | NA | NA | NA | Nonparametric | 4:48 |
| Subsurface | 1.40 | 1.90 | 0.55 | NA | NA | NA | NA | NA | NA | Nonparametric | 6:48 |
| Combined | 1.30 | 5.10 | 0.55 | NA | NA | NA | NA | NA | NA | Nonparametric | 10:96 |
| Sodium | | | | | | | | | | | |
| Surface | 34.70 | 363.00 | 61.25 | 60.83 | NA | 1.84 | 0.75 | 52.54 | 70.55 | Lognormal | 27:48 |
| Subsurface | 50.80 | 401.00 | 77.30 | 86.73 | NA | 1.77 | 0.65 | 75.57 | 99.55 | Lognormal | 29:48 |
| Combined | 34.70 | 401.00 | 69.50 | 72.64 | NA | 1.85 | 0.71 | 65.45 | 80.61 | Lognormal | 56:96 |
| Thallium | | | | | | | | | | | |
| Surface | 0.22 | 0.47 | 0.12 | NA | NA | NA | NA | NA | NA | Nonparametric | 7:48 |
| Subsurface | 0.29 | 0.46 | 0.12 | NA | NA | NA | NA | NA | NA | Nonparametric | 6:48 |
| Combined | 0.22 | 0.47 | 0.12 | NA | NA | NA | NA | NA | NA | Nonparametric | 13:96 |
| Tin | | | | | | | | | | | |
| Surface | 5.10 | 22.50 | 2.20 | NA | NA | NA | NA | NA | NA | Nonparametric | 11:48 |
| Subsurface | 4.20 | 18.60 | 4.30 | NA | NA | NA | NA | NA | NA | Nonparametric | 22:48 |
| Combined | 4.20 | 22.50 | 2.30 | NA | NA | NA | NA | NA | NA | Nonparametric | 33:96 |
| Vanadium | | | | | | | | | | | |
| Surface | 9.20 | 31.10 | 17.30 | NA | 16.69 | 4.54 | 0.27 | 15.59 | 17.79 | Normal | 48:48 |
| Subsurface | 7.30 | 29.30 | 17.90 | NA | 17.24 | 4.72 | 0.27 | 16.10 | 18.39 | Normal | 48:48 |
| Combined | 7.30 | 31.10 | 17.40 | NA | 16.96 | 4.61 | 0.27 | 16.18 | 17.75 | Normal | 96:96 |
| Zinc | | | | | | | | | | | |
| Surface | 37.10 | 738.00 | 59.60 | NA | NA | NA | NA | NA | NA | Nonparametric | 40:48 |
| Subsurface | 30.70 | 142.00 | 52.70 | NA | NA | NA | NA | NA | NA | Nonparametric | 40:48 |
| Combined | 30.70 | 738.00 | 55.85 | NA | NA | NA | NA | NA | NA | Nonparametric | 80:96 |

U - Below detectable limits.

NA - Not applicable.

*All but 9 sample results were rejected during data validation.

**Table J.2 Summary of Pesticides/PCBs**
**(All Values in $\mu$g/kg)**

| Parameter | Minimum | Maximum | Median | Geometric Mean | Arithmetic Mean | Standard Deviation | Coefficient of Variation | Statistical Range 95% Confidence Interval | | Distribution Type | Sample |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Minimum | Maximum | | Detect: Total |
| 4,4-DDD | | | | | | | | | | | |
| Surface | 4.10 | 21.00 | 1.90 | NA | NA | NA | NA | NA | NA | Unknown | 2:48 |
| Subsurface | 2.60 | 3.30 | 1.88 | NA | NA | NA | NA | NA | NA | Unknown | 2:48 |
| Combined | 2.60 | 21.00 | 1.90 | NA | NA | NA | NA | NA | NA | Unknown | 4:96 |
| 4,4-DDE | | | | | | | | | | | |
| Surface | 2.30 | 39.00 | 1.90 | NA | NA | NA | NA | NA | NA | Unknown | 4:48 |
| Subsurface | U | 2.6 | 1.85 | NA | NA | NA | NA | NA | NA | Unknown | 1:48 |
| Combined | 2.30 | 39.00 | 1.90 | NA | NA | NA | NA | NA | NA | Unknown | 5:96 |
| 4,4-DDT | | | | | | | | | | | |
| Surface | 1.90 | 920.00 | 1.90 | NA | NA | NA | NA | NA | NA | Nonparametric | 8:48 |
| Subsurface | 3.40 | 45.00 | 1.88 | NA | NA | NA | NA | NA | NA | Nonparametric | 2:48 |
| Combined | 1.90 | 920.00 | 1.90 | NA | NA | NA | NA | NA | NA | Nonparametric | 10:96 |
| Aroclor-1254 | | | | | | | | | | | |
| Surface | 57.00 | 65.00 | 19.00 | NA | NA | NA | NA | NA | NA | Unknown | 3:48 |
| Subsurface | U | 24.00 | 18.50 | NA | NA | NA | NA | NA | NA | Unknown | 1:48 |
| Combined | 24.00 | 65.00 | 19.00 | NA | NA | NA | NA | NA | NA | Unknown | 4:96 |
| Endosulfan II (beta) | | | | | | | | | | | |
| Surface | U | 1.90 | 1.90 | NA | NA | NA | NA | NA | NA | Unknown | 1:48 |
| Subsurface | U | U | U | NA | NA | NA | NA | NA | NA | Unknown | 0:48 |
| Combined | U | 1.90 | 1.90 | NA | NA | NA | NA | NA | NA | Unknown | 1:96 |
| Methoxychlor | | | | | | | | | | | |
| Surface | 10.00 | 50.00 | 9.50 | NA | NA | NA | NA | NA | NA | Nonparametric | 5:48 |
| Subsurface | 12.00 | 30.00 | 9.50 | NA | NA | NA | NA | NA | NA | Nonparametric | 2:48 |
| Combined | 10.00 | 50.00 | 9.50 | NA | NA | NA | NA | NA | NA | Nonparametric | 7:96 |

U - Not detected.
NA - Not applicable.

**Table J.3 Summary of Radionuclides Results**
**(All Values in pCi/g)**

| Parameter | Minimum | Maximum | Median | Geometric Mean | Arithmetic Mean | Standard Deviation | Coefficient of Variation | Statistical Range 95% Confidence Interval | | Distribution Type | Sample |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Minimum | Maximum | | Detect: Total |
| Cesium-137 | | | | | | | | | | | |
| Surface | 0.15 | 0.73 | 0.33 | NA | 0.35 | 0.15 | 0.43 | 0.31 | 0.39 | Normal | 45:48 |
| Subsurface | 0.09 | 0.46 | 0.06 | NA | NA | NA | NA | NA | NA | Nonparametric | 15:48 |
| Combined | 0.09 | 0.73 | 0.19 | NA | 0.22 | 0.18 | 0.79 | 0.19 | 0.25 | Normal | 60:96 |
| Cobalt-60 | | | | | | | | | | | |
| Surface | U | 1.01 | 0.05 | NA | NA | NA | NA | NA | NA | Unknown | 1:48 |
| Subsurface | U | 0.06 | 0.06 | NA | NA | NA | NA | NA | NA | Unknown | 1:48 |
| Combined | 0.06 | 1.01 | 0.06 | NA | NA | NA | NA | NA | NA | Unknown | 2:96 |
| Plutonium-238 | | | | | | | | | | | |
| Surface | 0.04 | 0.25 | 0.03 | NA | NA | NA | NA | NA | NA | Nonparametric | 15:48 |
| Subsurface | 0.03 | 0.11 | 0.03 | NA | NA | NA | NA | NA | NA | Nonparametric | 17:48 |
| Combined | 0.03 | 0.25 | 0.03 | 0.03 | NA | 2.07 | 0.93 | 0.03 | 0.04 | Lognormal | 32:96 |
| Plutonium-239/240 | | | | | | | | | | | |
| Surface | 0.03 | 0.32 | 0.04 | 0.05 | NA | 2.15 | 0.98 | 0.04 | 0.06 | Lognormal | 23:48 |
| Subsurface | 0.03 | 0.22 | 0.04 | 0.04 | NA | 1.96 | 0.80 | 0.04 | 0.05 | Lognormal | 21:48 |
| Combined | 0.03 | 0.32 | 0.04 | 0.04 | NA | 2.05 | 0.91 | 0.04 | 0.05 | Lognormal | 44:96 |
| Potassium-40 | | | | | | | | | | | |
| Surface | 11.90 | 35.10 | 18.50 | 19.89 | NA | 1.34 | 0.30 | 18.53 | 21.35 | Lognormal | 48:48 |
| Subsurface | 10.90 | 37.90 | 19.90 | NA | NA | NA | NA | NA | NA | Nonparametric | 48:48 |
| Combined | 10.90 | 37.90 | 18.85 | NA | 21.11 | 6.91 | 0.33 | 19.94 | 22.29 | Normal | 96:96 |
| Radium-226 | | | | | | | | | | | |
| Surface | 0.20 | 2.06 | 1.14 | NA | 1.15 | 0.31 | 0.27 | 1.08 | 1.23 | Normal | 48:48 |
| Subsurface | 0.53 | 2.95 | 1.09 | 1.13 | NA | 1.34 | 0.34 | 1.06 | 1.22 | Lognormal | 48:48 |
| Combined | 0.20 | 2.95 | 1.13 | NA | NA | NA | NA | NA | NA | Nonparametric | 96:96 |
| Strontium-90 | | | | | | | | | | | |
| Surface | 0.30 | 21.90 | 0.17 | NA | NA | NA | NA | NA | NA | Nonparametric | 19:48 |
| Subsurface | 0.34 | 0.62 | 0.16 | NA | NA | NA | NA | NA | NA | Nonparametric | 13:48 |
| Combined | 0.30 | 21.90 | 0.17 | NA | NA | NA | NA | NA | NA | Nonparametric | 32:96 |
| Thorium-228 | | | | | | | | | | | |
| Surface | 0.50 | 2.13 | 1.01 | 0.96 | NA | 1.31 | 0.28 | 0.90 | 1.02 | Lognormal | 48:48 |
| Subsurface | 0.45 | 1.62 | 0.97 | NA | 0.93 | 0.32 | 0.35 | 0.85 | 1.01 | Normal | 47:48 |
| Combined | 0.45 | 2.13 | 0.98 | NA | 0.96 | 0.30 | 0.31 | 0.91 | 1.01 | Normal | 95:96 |

## Table J.3 Summary of Radionuclides Results
## (All Values in pCi/g)
## (Continued)

| Parameter | Minimum | Maximum | Median | Geometric Mean | Arithmetic Mean | Standard Deviation | Coefficient of Variation | Statistical Range 95% Confidence Interval | | Distribution Type | Sample |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Minimum | Maximum | | Detect: Total |
| Thorium-230 | | | | | | | | | | | |
| Surface | 0.96 | 4.43 | 1.44 | NA | NA | NA | NA | NA | NA | Nonparametric | 48:48 |
| Subsurface | 0.71 | 5.14 | 1.58 | NA | NA | NA | NA | NA | NA | Nonparametric | 47:48 |
| Combined | 0.71 | 5.14 | 1.48 | NA | NA | NA | NA | NA | NA | Nonparametric | 95:96 |
| Thorium-232 | | | | | | | | | | | |
| Surface | 0.50 | 1.39 | 0.94 | NA | 0.95 | 0.23 | 0.24 | 0.89 | 1.00 | Normal | 48:48 |
| Subsurface | 0.40 | 1.69 | 0.95 | NA | 0.92 | 0.35 | 0.38 | 0.83 | 1.00 | Normal | 47:48 |
| Combined | 0.40 | 1.69 | 0.95 | NA | 0.93 | 0.29 | 0.31 | 0.88 | 0.98 | Normal | 95:96 |
| Tritium | | | | | | | | | | | |
| Surface | 0.02 | 8.28 | 0.16 | 0.17 | NA | 4.90 | 2.21 | 0.12 | 0.25 | Lognormal | 40:48 |
| Subsurface | 0.02 | 0.39 | 0.02 | NA | NA | NA | NA | NA | NA | Nonparametric | 21:48 |
| Combined | 0.02 | 8.28 | 0.06 | 0.08 | NA | 4.86 | 2.92 | 0.06 | 0.10 | Lognormal | 61:96 |
| Uranium-234 | | | | | | | | | | | |
| Surface | 0.54 | 1.16 | 0.78 | NA | 0.81 | 0.15 | 0.19 | 0.77 | 0.85 | Normal | 48:48 |
| Subsurface | 0.56 | 1.14 | 0.84 | NA | 0.83 | 0.15 | 0.18 | 0.80 | 0.87 | Normal | 48:48 |
| Combined | 0.54 | 1.16 | 0.80 | NA | 0.82 | 0.15 | 0.18 | 0.80 | 0.85 | Normal | 96:96 |
| Uranium-235/236 | | | | | | | | | | | |
| Surface | 0.03 | 0.12 | 0.04 | 0.04 | NA | 1.68 | 0.52 | 0.04 | 0.05 | Lognormal | 19:48 |
| Subsurface | 0.03 | 0.10 | 0.04 | 0.04 | NA | 1.69 | 0.54 | 0.03 | 0.04 | Lognormal | 17:48 |
| Combined | 0.03 | 0.12 | 0.04 | 0.04 | NA | 1.69 | 0.54 | 0.04 | 0.04 | Lognormal | 36:96 |
| Uranium-238 | | | | | | | | | | | |
| Surface | 0.53 | 1.28 | 0.88 | NA | 0.89 | 0.17 | 0.19 | 0.85 | 0.93 | Normal | 48:48 |
| Subsurface | 0.59 | 1.29 | 0.91 | NA | 0.91 | 0.16 | 0.18 | 0.87 | 0.95 | Normal | 48:48 |
| Combined | 0.53 | 1.29 | 0.89 | NA | 0.90 | 0.16 | 0.18 | 0.87 | 0.93 | Normal | 96:96 |

U - Below detectable limits
NA - Not applicable.

## Table J.4 Summary of Anion Results
(All Values in mg/kg)

| Parameter | Minimum | Maximum | Median | Geometric Mean | Arithmetic Mean | Standard Deviation | Coefficient of Variation | Statistical Range 95% Confidence Interval | | Distribution Type | Sample |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Minimum | Maximum | | Detect: Total |
| Chloride | | | | | | | | | | | |
| Surface | 14.90 | 107.00 | 44.95 | 43.91 | NA | 1.45 | 0.36 | 40.12 | 48.06 | Lognormal | 48:48 |
| Subsurface | 18.70 | 116.00 | 43.70 | 45.97 | NA | 1.47 | 0.43 | 41.89 | 50.46 | Lognormal | 48:48 |
| Combined | 14.90 | 116.00 | 44.65 | NA | NA | NA | NA | NA | NA | Nonparametric | 96:96 |
| Fluoride | | | | | | | | | | | |
| Surface | 1.30 | 5.40 | 2.80 | NA | 2.66 | 1.18 | 0.44 | 2.37 | 2.94 | Normal | 43:48 |
| Subsurface | 2.30 | 18.30 | 3.85 | NA | NA | NA | NA | NA | NA | Nonparametric | 44:48 |
| Combined | 1.30 | 18.30 | 3.30 | NA | NA | NA | NA | NA | NA | Nonparametric | 87:96 |
| Nitrate/Nitrite | | | | | | | | | | | |
| Surface | 1.80 | 30.90 | 7.15 | 7.30 | NA | 2.08 | 0.73 | 6.11 | 8.71 | Lognormal | 46:48 |
| Subsurface | 0.76 | 21.20 | 2.35 | 2.66 | NA | 2.21 | 0.96 | 2.20 | 3.23 | Lognormal | 43:48 |
| Combined | 0.76 | 30.90 | 4.35 | 4.41 | NA | 2.49 | 0.94 | 3.78 | 5.15 | Lognormal | 89:96 |
| Sulfate | | | | | | | | | | | |
| Surface | 59.30 | 170.00 | 69.80 | NA | NA | NA | NA | NA | NA | Nonparametric | 26:48 |
| Subsurface | 60.80 | 196.00 | 30.10 | NA | NA | NA | NA | NA | NA | Nonparametric | 19:48 |
| Combined | 59.30 | 196.00 | 30.92 | NA | NA | NA | NA | NA | NA | Nonparametric | 45:96 |
| TOC | | | | | | | | | | | |
| Surface | 2,630.00 | 40,300.00 | 12,100.00 | NA | 14,502.19 | 8,682.33 | 0.60 | 12,398.09 | 16,606.29 | Normal | 47:48 |
| Subsurface | 1,420.00 | 33,800.00 | 6,060.00 | 6,555.91 | NA | 2.64 | 0.86 | 5,182.72 | 8,292.93 | Lognormal | 46:48 |
| Combined | 1,420.00 | 40,300.00 | 10,400.00 | NA | 12,158.13 | 8,835.07 | 0.73 | 10,658.55 | 13,657:70 | Normal | 93:96 |

NA - Not applicable.

# APPENDIX K

APPENDIX K

# APPENDIX K

# STATISTICAL METHODS

# APPENDIX K
# STATISTICAL METHODS

*Parameter name and units of measure*

Units of measure must be consistent for all values under each individual parameter.

*Samples (Detects: Total)*

"Detects" or "hits" are results that have a parameter value qualifier other than "U" or "NA." Parameters that have no "detects" are not reported. Values equal to zero, pH, QC, recovery, and "not applicable" samples are not used and are, therefore, not included in the "Total" (see flow chart).

*Nondetects*

If a chemical is analyzed for but not detected (i.e., value qualifier is "U"), the value used in calculations is the detection limit divided by 2.0. If the detection limit is unknown, then the value used is the reported parameter value divided by 2.0. If the detection limit is zero, the program will abort.

*Minimum, Maximum, Median*

Minimum, Maximum, and Median sample values are determined for each parameter in set of data values. Only "hits" are used for MIN/MAX. If there is only one "hit" and there are one or more "nondetects," then a "U" is reported for the MIN. If there is only one "hit" and there are no "nondetects," then a "---" is reported for the MIN.

*Geometric Mean*

The geometric mean uses the natural log (ln). If the data contains values less than or equal to zero, then a "---" is reported.

$$\exp\left(\frac{\sum_{i=1}^{n} \ln X_i}{n}\right)$$

*Arithmetic Mean*

The arithmetic mean uses the sum of the sample concentrations divided by the number of samples. (See explanation of samples above.)

$$\frac{\sum_{i=1}^{n} X_i}{n}$$

*Standard Deviation*

Calculated for all distributions.

**LOGNORMAL**

$$\exp\left[\frac{\sum_{i=1}^{n}\left(\ln X_i - \frac{\sum_{i=1}^{n} \ln X_i}{n}\right)^2}{n-1}\right]^{\frac{1}{2}}$$

**NORMAL**

Unknown (if number of samples >1).

**NONPARAMETRIC**

$$\sqrt{\frac{\sum_{i=1}^{n}\left(X_i - \overline{X}\right)^2}{n-1}}\ , \quad \overline{X} = \frac{\sum_{i=1}^{n} X_i}{n}$$

*95% Confidence Interval*

**LOGNORMAL**

$$\exp\left(\bar{X} \pm \frac{t_{(0.025\,,\,n-1)} \times S}{\sqrt{n}}\right)$$

$\bar{X}$ - Geometric Mean (without antilog)

$t_{(0.025,\,n-1)}$ - Student's t-statistic for 95% confidence interval and n-1 degrees of freedom

S - Standard Deviation for Lognormal Distribution (without antilog)

n - Number of samples

**NORMAL**

$$\bar{X} \pm \frac{t_{(0.025\,,\,n-1)} \times S}{\sqrt{n}}$$

$\bar{X}$ - Arithmetic Mean

$t_{(0.025,\,n-1)}$ - Student's t-statistic for 95% confidence interval and n-1 degrees of freedom

S - Standard Deviation for normal distribution

n - Number of samples

**NONPARAMETRIC**

One-Sided Distribution-Free Confidence Bounds for a Percentile. (Hahn and Meeker, 1991.)

*Distribution Type*

Normal
Lognormal
Nonparametric
Unknown

Determined using: (see flow chart)

Shapiro-Wilk's Test (1965) $n < 50$

Also known as the W test. (R.O. Gilbert, 1987.)

D'Agostino's Test (1971) $n \geq 50$

Also known as the D test. (R.O. Gilbert, 1987.)

## NORMAL ONE-SIDED TOLERANCE LIMITS

$$TL = \bar{X} + KS$$

| | |
|---|---|
| TL | - Tolerance Limt |
| $\bar{X}$ | - Mean |
| S | - Standard Deviation |
| K | - Tolerance Factor |

## LOGNORMAL ONE-SIDED TOLERANCE LIMITS

$$TL = \bar{X} + KS$$

| | |
|---|---|
| TL | - Tolerance Limt |
| $\bar{X}$ | - Geometric Mean |
| $\bar{S}$ | - Standard Deviation for log of data |

## DISTRIBUTION FLOW CHART